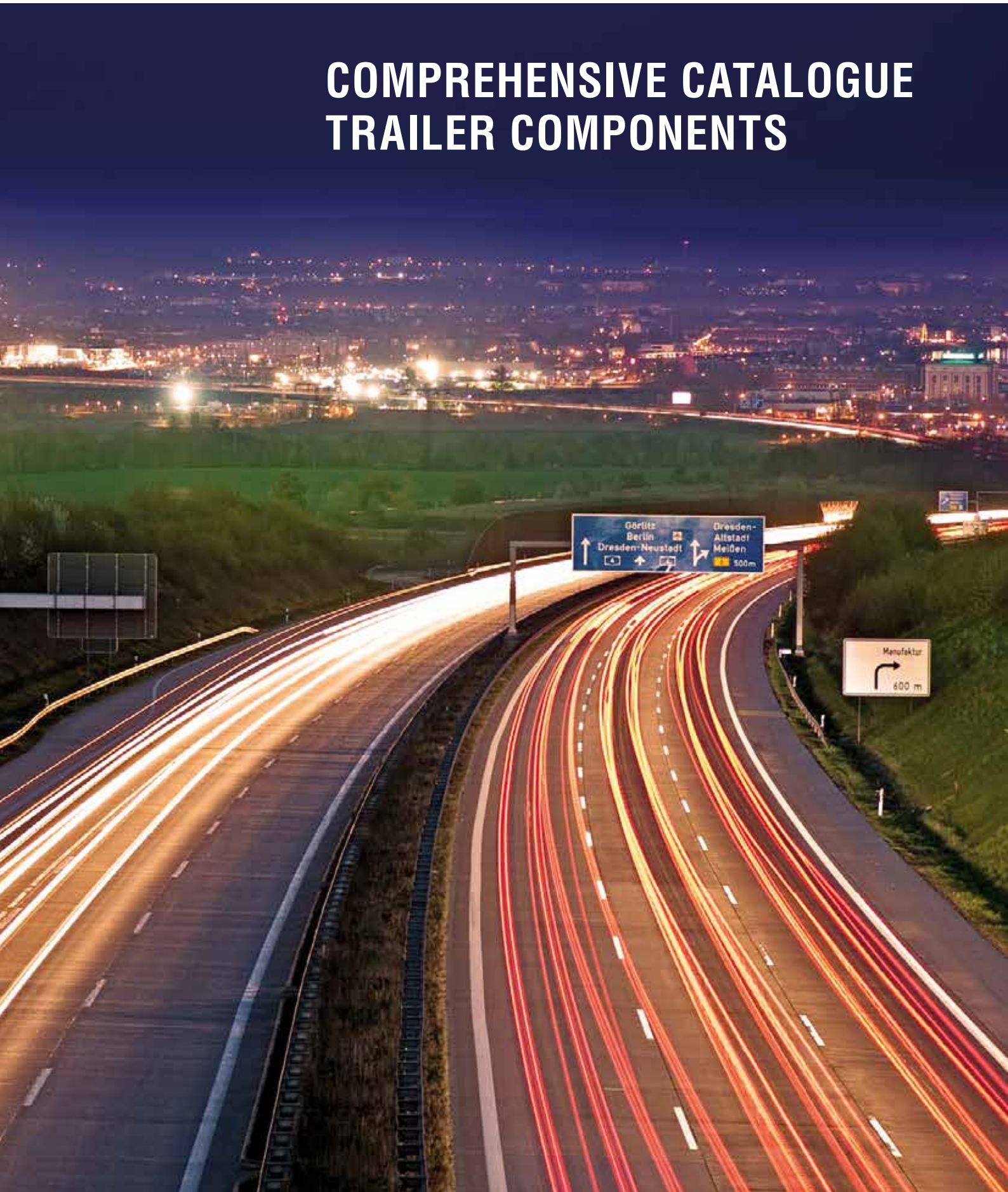


AL-KO

QUALITY FOR LIFE

COMPREHENSIVE CATALOGUE TRAILER COMPONENTS



Contents

QUALITY FOR LIFE

Partners active across the world

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Lowing speed:

All vehicle components listed are designed for use to at least 100 km/h (observe domestic speed limits and criteria page 17).

Hazardous substances ruling:

The braked axles in this catalogue comply with the Hazardous Substances Ruling § 47 (2) Fig 3 (asbestos free brake linings).

EC-Directive:

The overrun devices and wheel brakes comply with EC-Directive No. 71/320/EEC with all additions.



net weight



optimal packing unit



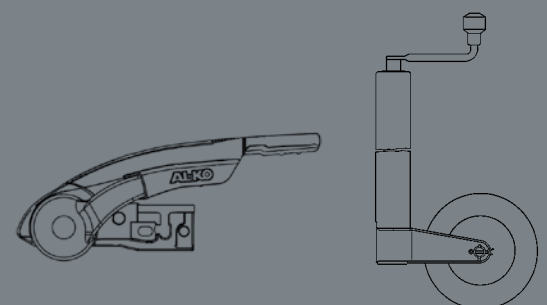
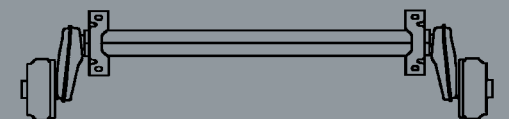
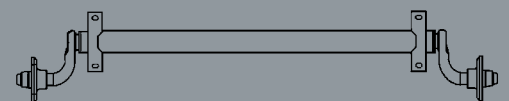
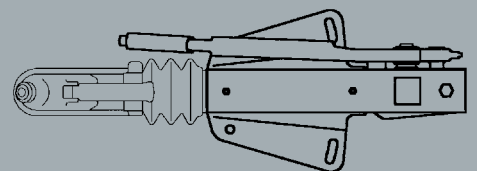
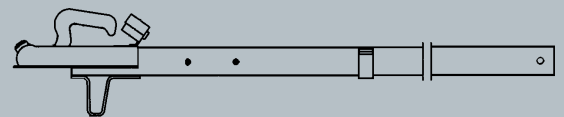
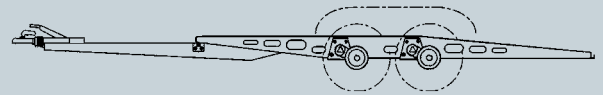
small pack



bulk pack



average production time
(non-binding)



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Vehicle technology

The strong teamwork and innovative ideas of our six strategically coordinated areas of business ensure our Vehicle technology segment - quality, safety and comfort. This is one of the main factors making us the world's leading manufacturer of chassis technology for commercial and domestic trailers, motor homes and commercial vehicles.



Garden+Hobby

Power and performance in a visually appealing package typifies our products in the fields of Lawn, Garden, Water and DIY Technology. Numerous innovations, design and quality awards prove the high quality of our equipment, which provides satisfaction down to the smallest detail.



Air condition technology

We provide the perfect air climate for hospitals, production facilities and efficient solutions for large commercial or leisure buildings. We implement consistent tailored solutions for our customers with individual economic and ecological assembly design concepts without compromising on quality, new technology or reliability.

TRAINING



With the opening of the new Customer Centre, AL-KO has increased the quality of service by building closer service relationships with the customer.

SERVICE



Rely on the workshop experts from AL-KO to service, repair and upgrade caravans and motorhomes including load increases, wheel alignments and fitting air suspension systems.

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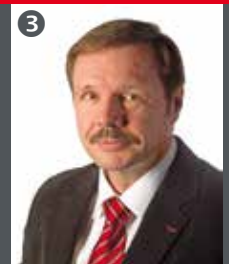
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T-Pole chassis - straight and cranked

Optimised into the finest details



Chassis elements are combined using profiled mounting brackets.



A support skid with integrated breakaway cable guide protects the coupling from ground contamination. Additionally, the breakaway cable is guided cleanly to ensure the emergency brake functions correctly when required.



Jockey wheel bracket welded as standard.



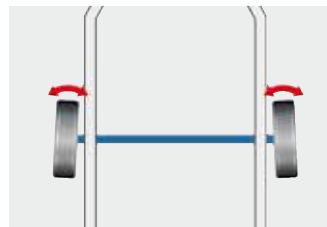
Quick fit bowden cables saves assembly time.



Brake rod support tube ensures brake rod is guided smoothly. The braking system only comes into force if the overrun is actuated and braking is required.



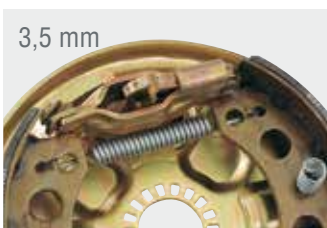
7 and 13 pin plug holder for secure storage of the electric plug when it is not in use.



Precision factory set toe-in ensures minimum tyre wear.



Maintenance free compact bearing.



Extremely stable brake back plate ensures no deformation under load.



Bowden cable linkage saves assembly time.



Service friendly brake adjustment.



Retrofit shock absorber brackets.



Finned brake drums for optimum braking behaviour (optimum heat dispersion).



A-Frame chassis

Optimised into the finest details



Chassis made from A frames can be combined using special connector brackets.



A support skid protects the coupling from contamination. Additionally, the emergency brake function is guaranteed via the breakaway cable.



A bolt-on jockey wheel clamp allows centre positioning of the jockey wheel (note: when using the jockey wheel ensure that it does not touch the brake rod).



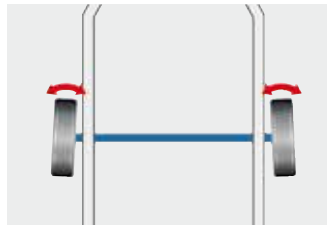
Bolt-on spacers allow correction of the coupling height by a maximum of 70 mm.



Brake rod support tube ensures brake rod is guided smoothly. The braking system only comes into force if the overrun is actuated and braking is required.



7 and 13 pin plug holder for secure storage of the electric plug when it is not in use.



Precision factory set toe-in ensures minimum tyre wear.



Quick fit bowden cables saves assembly time.



Cover plate for additional rigidity.



Breakaway cable guide as standard, ensures correct operation of the emergency brake.



Maintenance free compact bearing.



Extremely stable brake back plate ensures no deformation under load.



Bowden cable linkage saves assembly time.



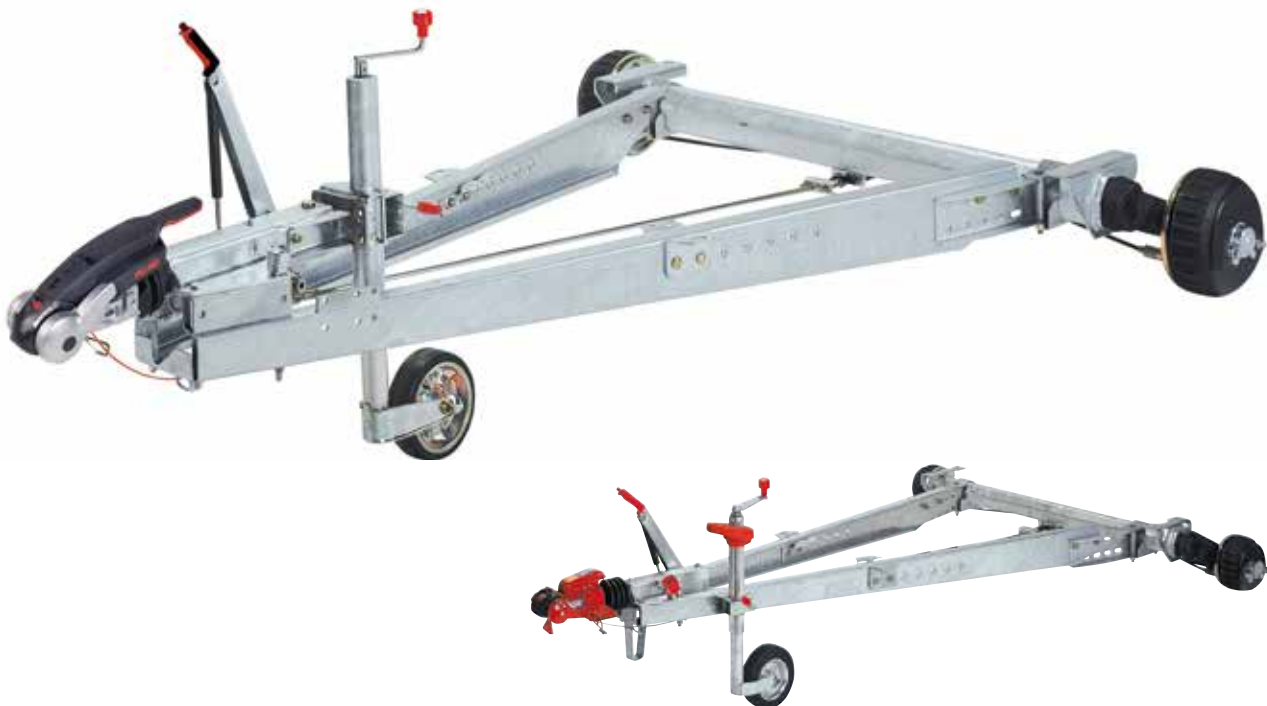
Service friendly brake adjustment.



Retrofit shock absorber brackets.



Finned brake drums for optimum braking performance (optimum heat dispersion).



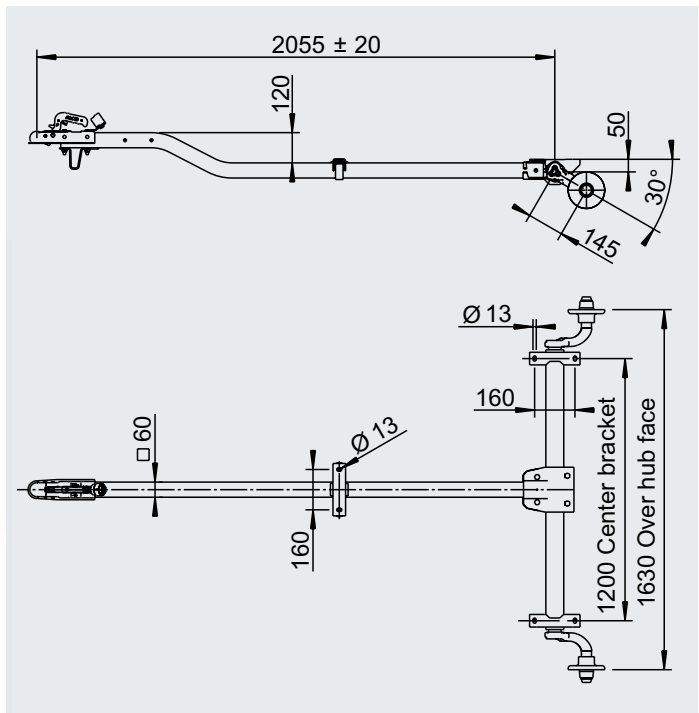
T-Pole Chassis samples

Individual length and width

T-Pole Chassis, Type K4 cranked, Axle 750 kg unbraked

Part No. 1 422 807

Total weight 750 kg

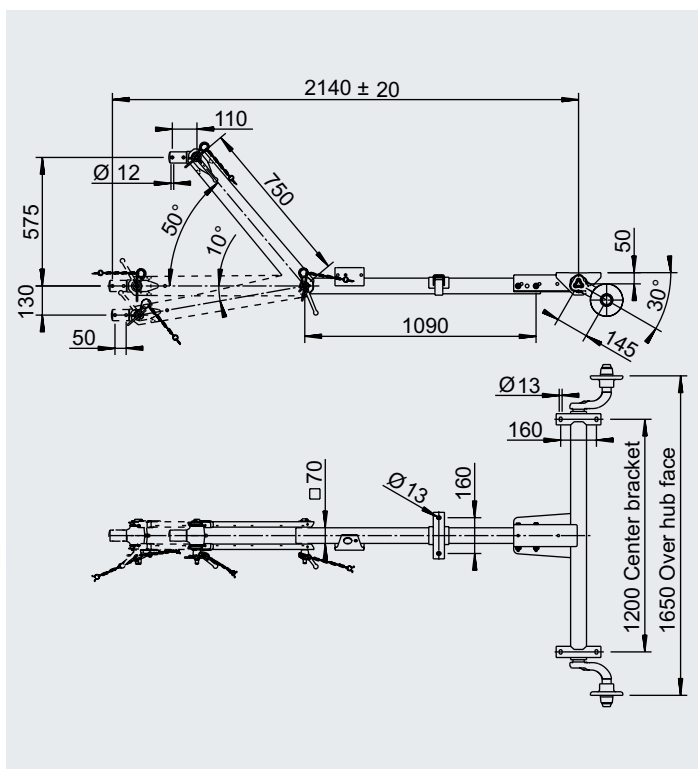


T-Pole Chassis, Type 75 VU height adjustable, unbraked

Part No. 1 422 808

Total weight 750 kg

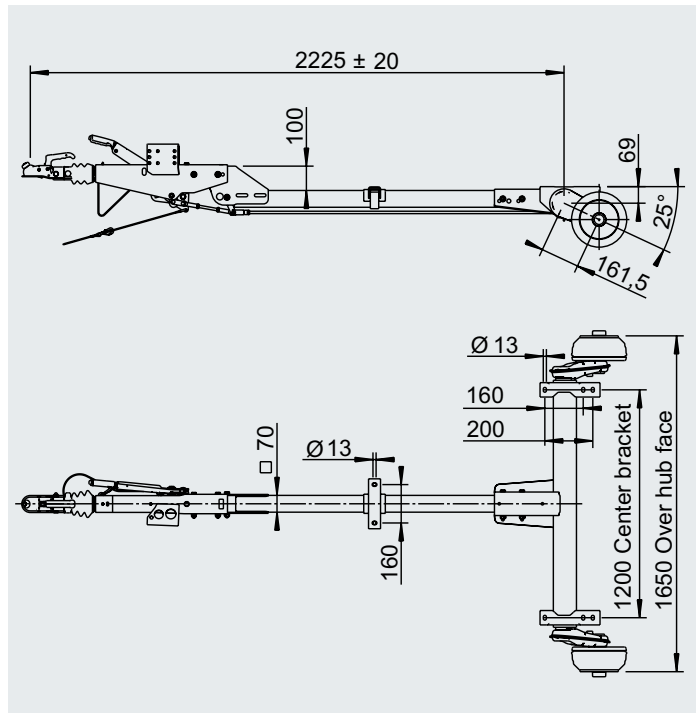
Fitting eye ends see page 25.



T-Pole Chassis, Type 161 S-K16 cranked, braked

Part No.	1 422 809
Type Drawbar	161S B-K16
Total weight	1000 kg

Part No.	1 422 810
Type Drawbar	161S B-K16
Total weight	1350 kg



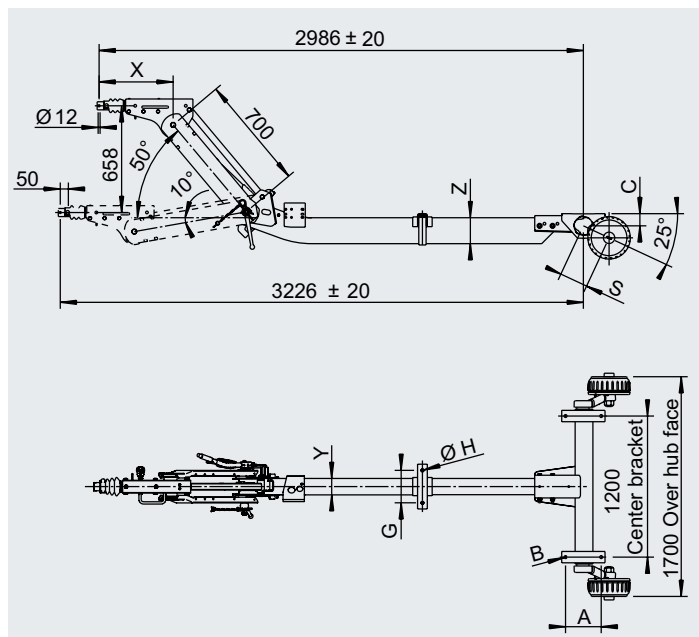
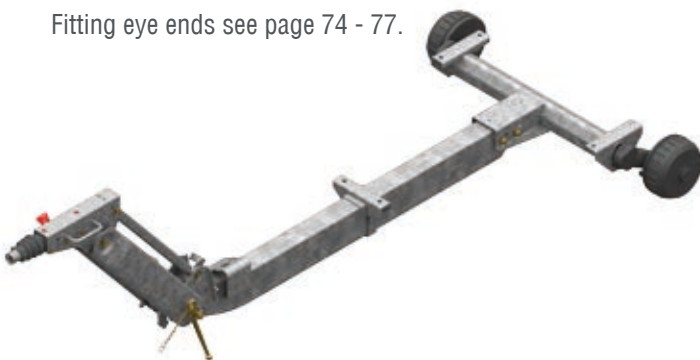
T-Pole Chassis, height adjustable, braked

Part No.	1 422 811
Type	101 VB
Total weight	1000 kg

Part No.	1 422 812
Type Drawbar	161 VB-2
Total weight	1500 kg

Part No.	1 422 813
Type Drawbar	251 VB-2
Total weight	1800 kg

Fitting eye ends see page 74 - 77.



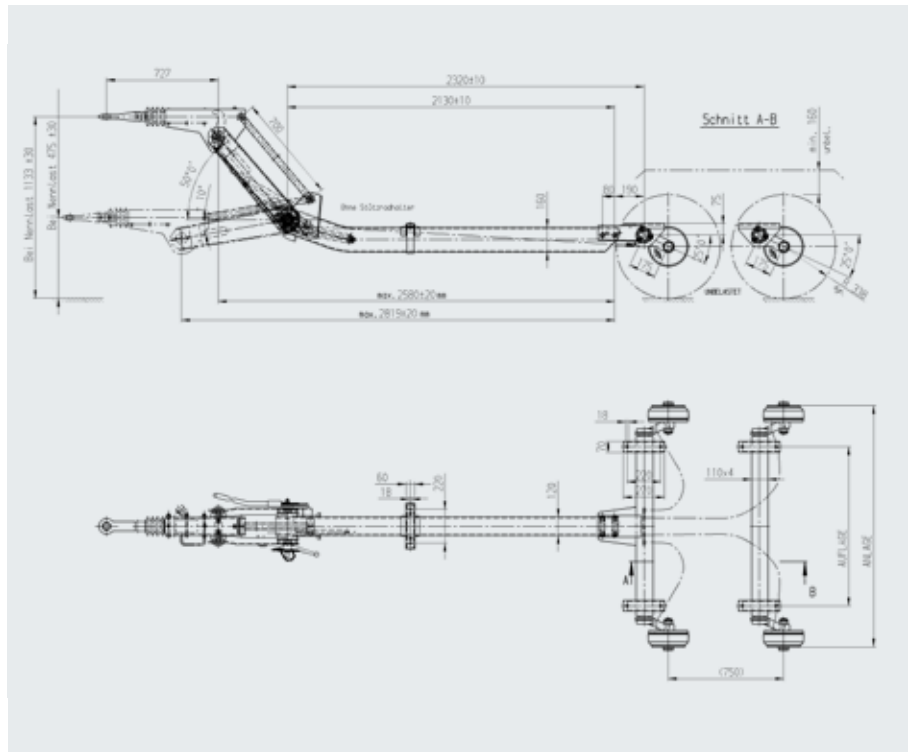
Type	X	Y	Z	A	B	C	G	H	S
101 VB	253	70	140	160	13x20	69	160	13	161.5
161 VB-2	457	80	140	160	13x20	69	160	13	161.5
251 VB-2	457	100	160	220	Ø 18	75	200	18	175

T-Pole Chassis samples

Individual length and width

**T-Pole Chassis,
height adjustable, braked**

Part No.	Total weight
1 223 696	3400 kg

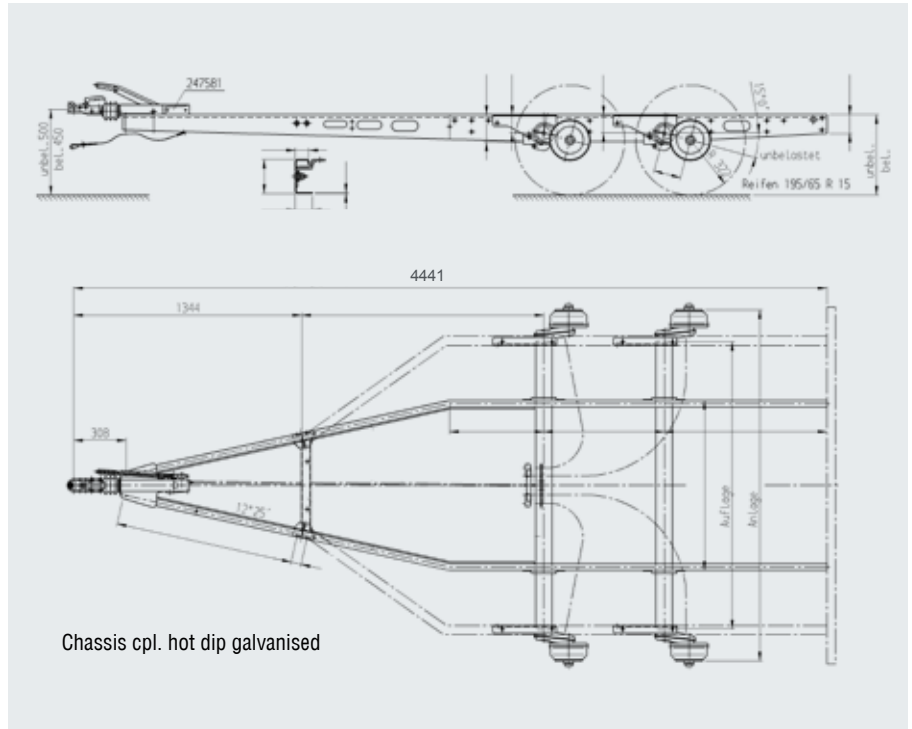


Frame Chassis samples

For Horsetrailers and Car transporters

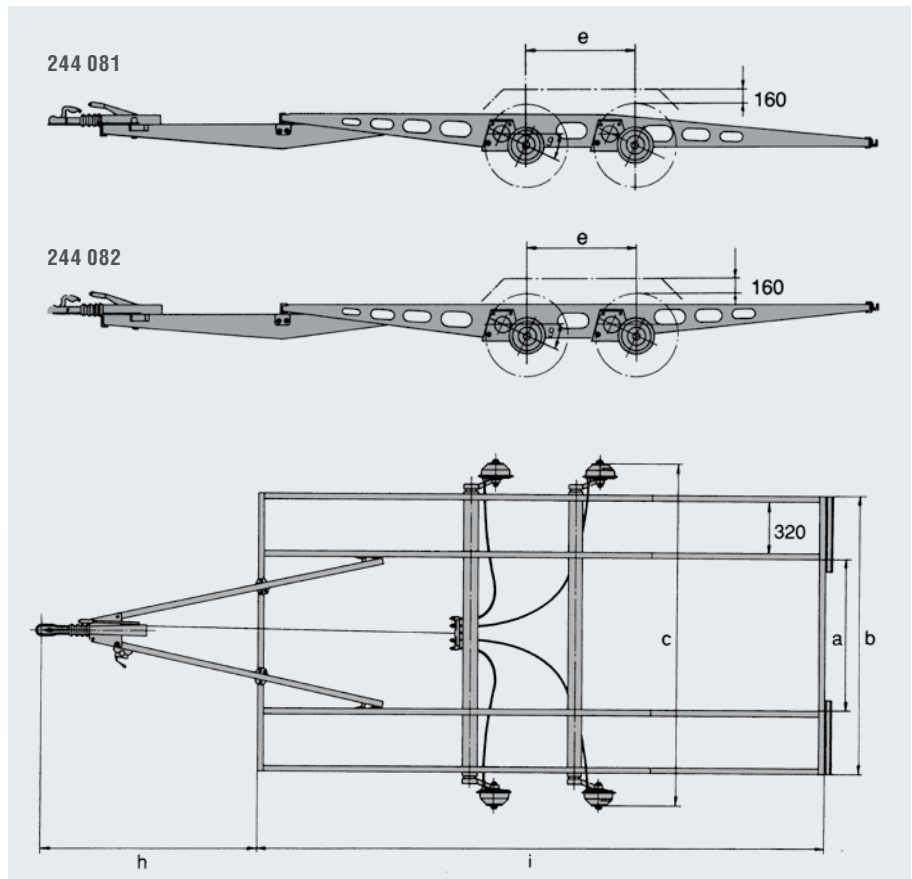
Chassis for Horsetrailers

Part No.	Total weight
1 220 768	2000 kg



Chassis for Car transporters

Part No.	Total weight
244 081	2600 kg
244 082	2600 kg



Coupling point position, Nose load and axle position

✔ Your Advantage

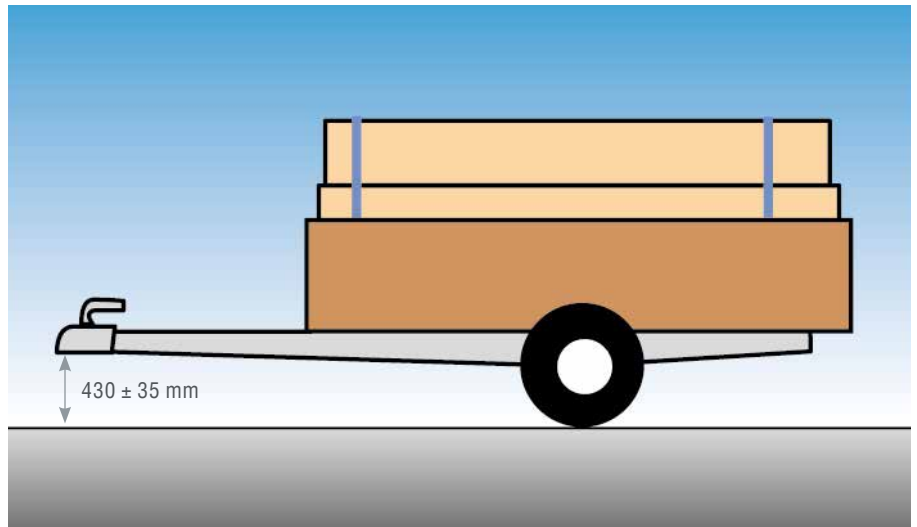
Coupling point position on the completed trailer.

This should be considered carefully!

According to DIN 74058 the position of the coupling 430 ± 35 mm point on the finished trailer should lie 430 ± 35 mm above the horizontal contact surface of the tyre.

Parameters:

- ! Trailer body aligned horizontally.
- ! Load the trailer to the permissible overall weight.
- ! Tyre pressure as quoted by the tyre manufacturer.



✔ Your Advantage

Nose load and axle position

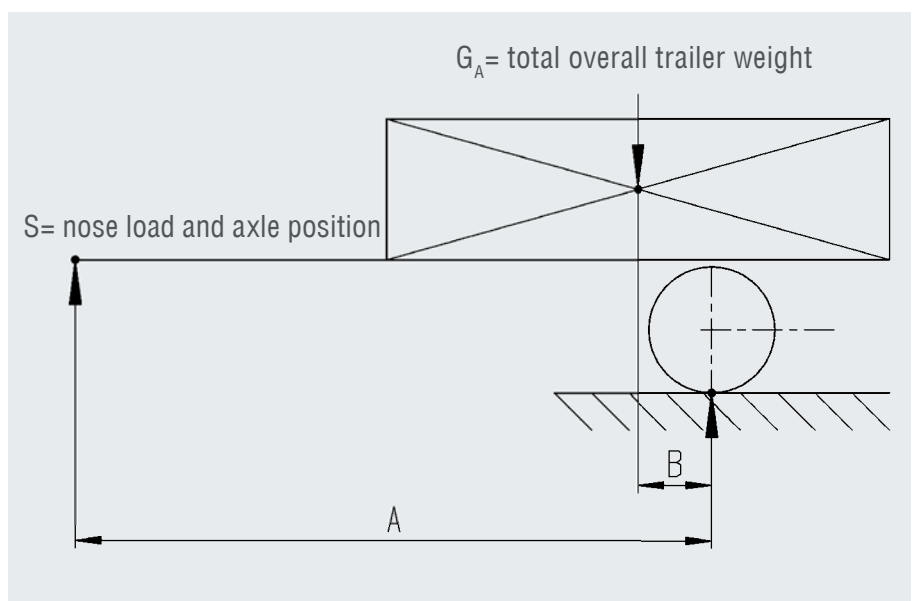
Determining the axle position to regulate the nose load

Axle position: $B = \frac{S \cdot A}{G_A}$

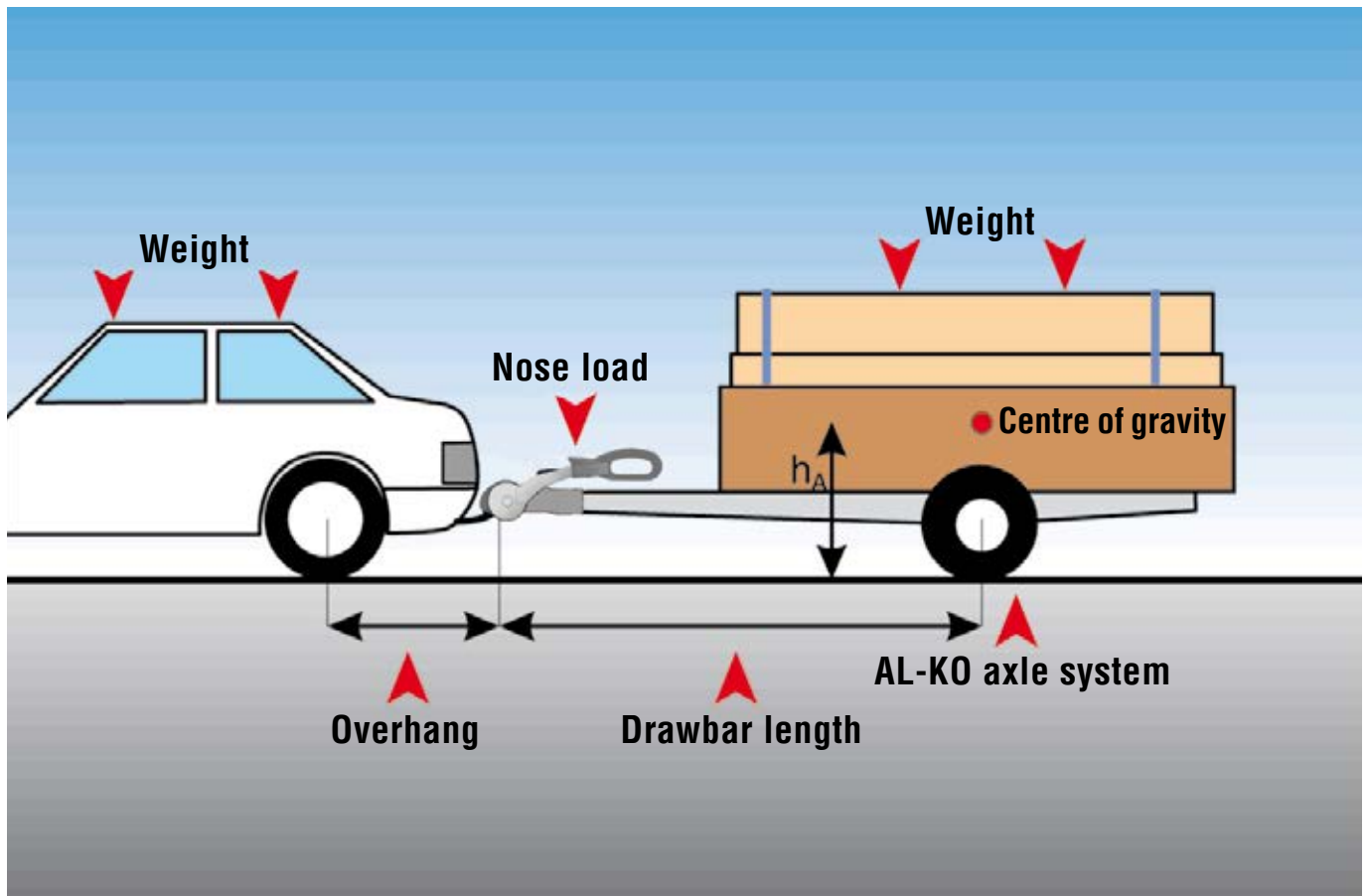
Example:

Single axle trailer with 1000 kg overall weight should have a nose load of 50 kg.
(Dimension A = 1800 mm)

$$B = \frac{S \cdot A}{G_A} = \frac{50 \text{ kg} \cdot 1800 \text{ mm}}{1000 \text{ kg}} = 90 \text{ mm}$$



Criteria for stable towing



Criteria for stable towing

Car

1. heavy weight
2. large wheelbase
3. small overhang
4. correct tyre pressure
5. perfect function of the shock absorbers

Trailer

1. low weight
2. long drawbar
3. low centre of gravity
4. use max. permissible nose load
5. large tyres
6. wheel shock absorbers
7. optimum loading (heavy items near the axle)
8. AL-KO hexagonal rubber suspension axle system
9. AKS stabiliser - snaking and pitching movements are effectively suppressed.

Adapters/Drawbars

Height adjustable up to 1100 kg

✔ Your Advantage

- | Coupling heights of up to 1100 mm are achieved
- | Extremely stable, robust design
- | Simple change of couplings
- | High stability on heavily stressed articulated joints due to the use of four toothed wheels
- | Can be fitted with optional parking brake at AL-KO factory



Straight and cranked drawbar COMPACT up to 750kg

✔ Your Advantage

- | complete scope of delivery
- | easy retrofit of clamp for jockey wheel



Skid bracket



QUALITY FOR LIFE

Technology

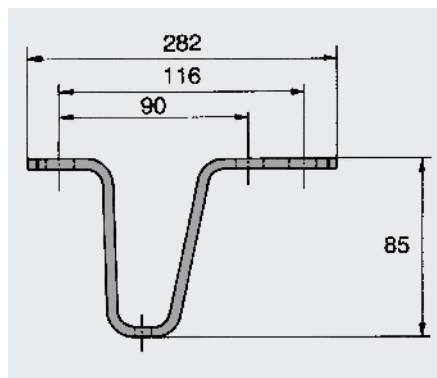
For safety reasons (requirements of diverse TÜV-stations) we advise to gear all overrun devices with a support skid.

Contents

(see technical drawing) without screw material

Surface Treatment

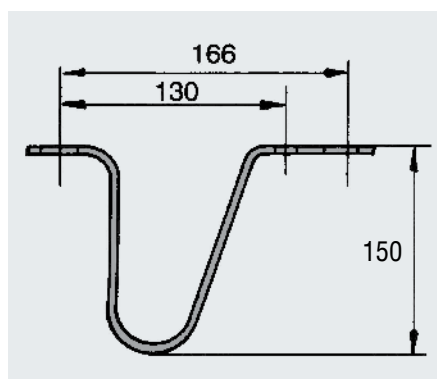
Hot dip galvanised



for drawbar unbraked

Range Overview

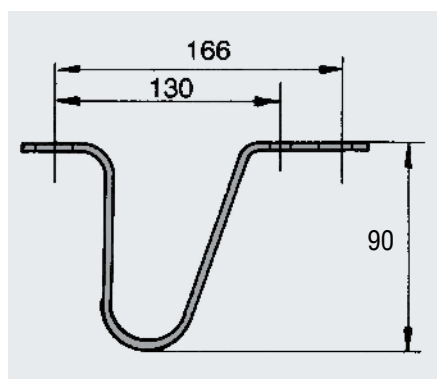
Part No.	
203 037	0,260 kg



for A-Frame drawbars in conjunction with top and bottom fitting overrun devices

Range Overview

Part No.	
217 132	0,470 kg



for A-Frame drawbars in conjunction with top and bottom fitting overrun devices

Range Overview

Part No.	
217 851	0,650 kg

Drawbars

Square straight up to 750 kg

Technology

Type R4 - Version A1

GA max. 750 kg

permitted max. nose load 75 kg

EC-Test Number: e1 00-0388

Ball coupling Type AK 7

Your Advantage

- | safety indicator in serial-production
- | complete scope of delivery
- | easy retrofit of clamp for jockey wheel

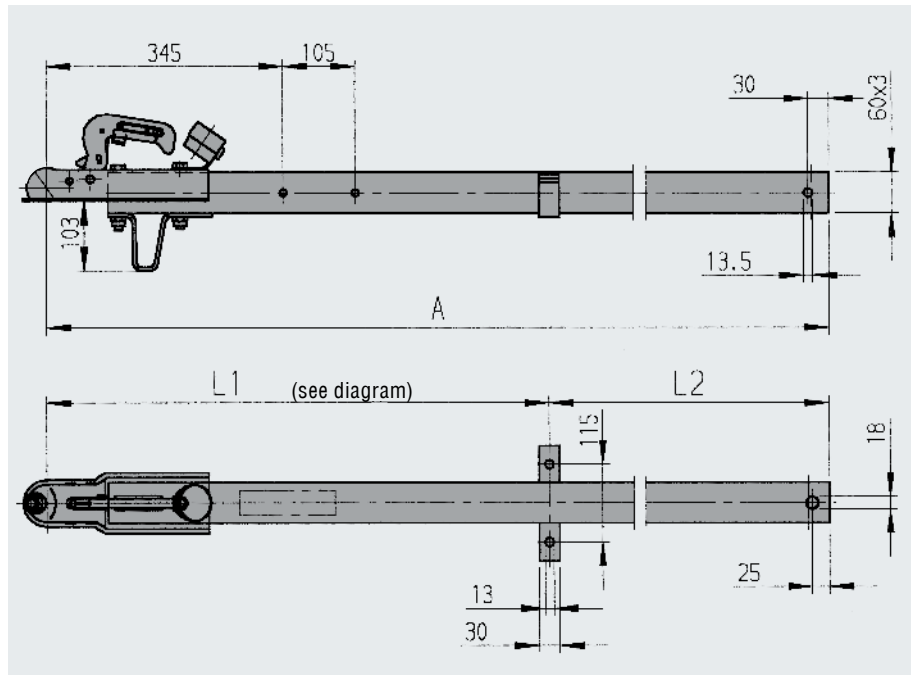
Contents

See drawing incl.

- | support skid 203 037
- | clamping skid 589 087
- | plug holder 218 260 00 04

Surface Treatment

- | Hot dip galvanised



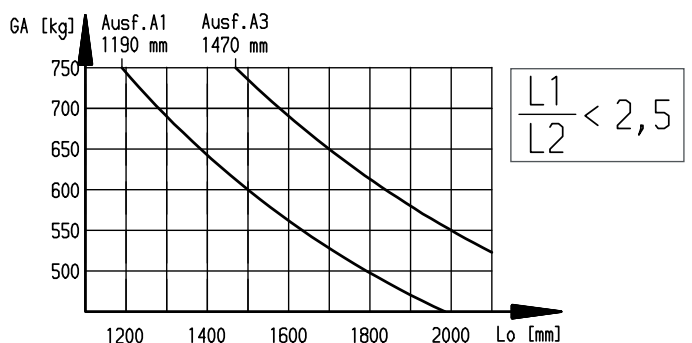
Range Overview

Version A1 Dimension A in mm	Part No.			
1395	200 350 01	8,02	50	10
1555	247 960	8,89	50	10
1715	200 350 02	9,76	50	10
1875	200 350 03	10,63	50	10
2035	247 961	11,50	50	2
2195	200 350 04	12,37	50	10
2355	200 350 05	13,24	50	10
2515	249 096	14,00	50	2
2675	200 350 06	14,87	50	10
2835	200 350 07	15,74	50	10
2995	247 962	16,61	50	10

Diagram Type R4

Version A1: square 60x60x3 St 52-3

Version A3: square 60x60x4 St 52-3



Drawbars

Square cranked up to 750 kg



QUALITY FOR LIFE

Technology

Type K4 - Version A1

GA max. 750 kg

permitted max. nose load 75 kg

EC-Test Number: e1 00-0914

Ball coupling Type AK 7

Your Advantage

complete scope of delivery

easy retrofit of clamp for jockey wheel

Contents

See drawing incl.

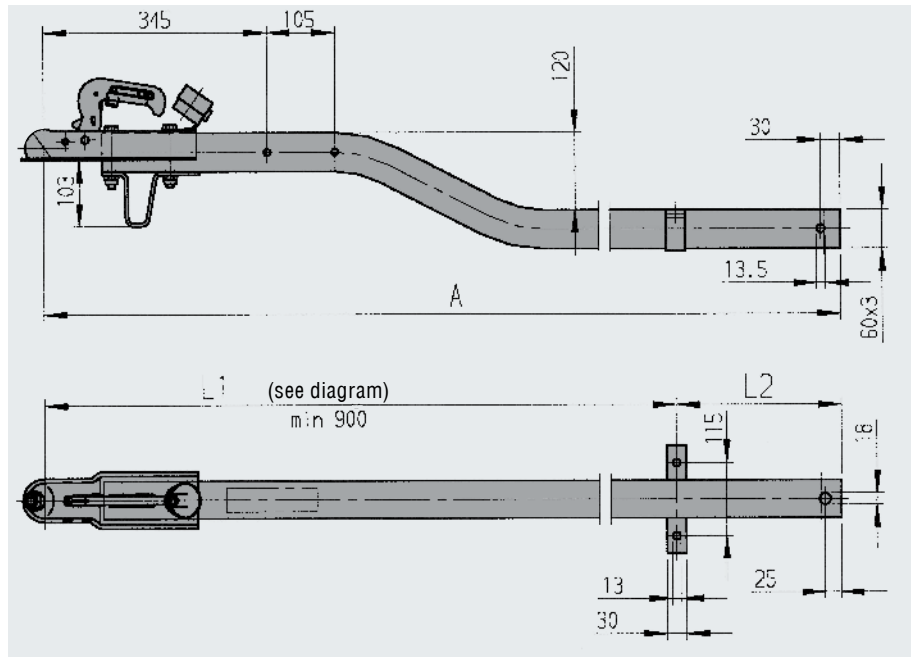
support skid 203 037

clamping skid 589 087

plug holder 218 260 00 04

Surface Treatment

Hot dip galvanised



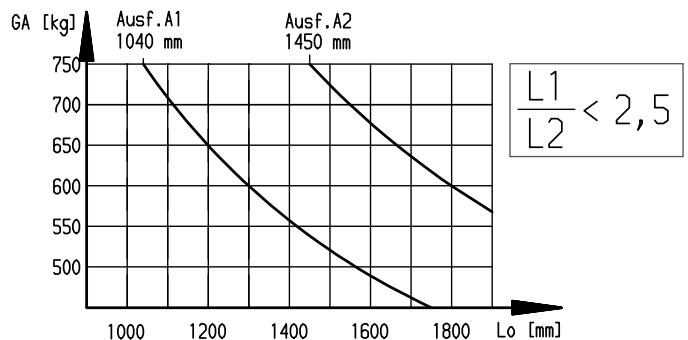
Range Overview

Version A1 Dimension A in mm	Part No.			
1370	200 351 01	8,02	50	10
1530	200 351 02	8,89	50	10
1690	200 351 03	9,76	50	10
1850	200 351 04	10,63	50	10
2010	121 130 0	11,50	50	10
2170	200 351 05	12,37	50	10
2330	200 351 06	13,24	50	10
2490	200 351 07	14,00	50	10
2650	200 351 08	14,87	50	10
2810	200 351 09	15,74	50	10
2970	200 351 10	16,61	50	10

Diagram Typ K4

Version A1: square 60x60x3 St 52-3

Version A2: square 60x60x4 St 52-3



Drawbar PLUS height adjustable

up to 750 kg Typ 70.1 VO

Technology

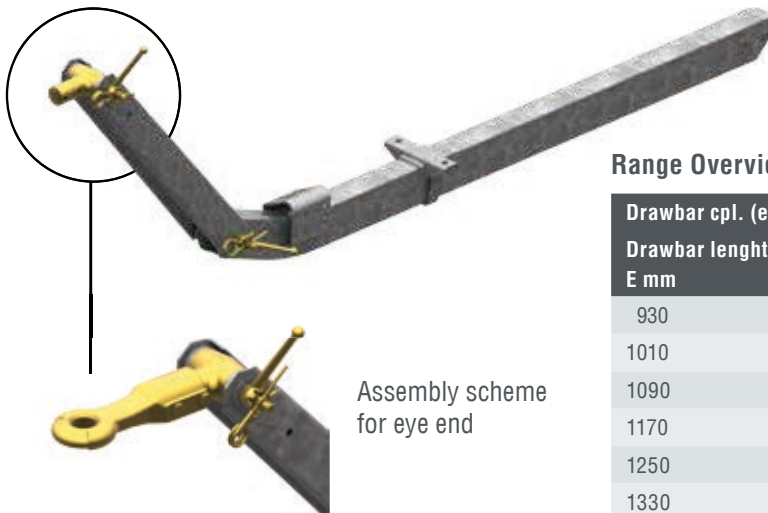
Drawbar Typ 70.1 VO Version C1

Permitted nose load 100kg

EC-Approval EG 94/20: e1 00-1135





ECE-Approval ECE R55-01 in preparation

Coupling range	Part No.				
Coupling Ø 50 AK 160	249 277	1,6	-	10	2
Eye end DIN Ø 40	1 213 350	3,7	-	10	2
Eye end UK Ø 30	1 224 106	3,4	-	10	2
Eye end UK Ø 40	1 224 107	3,6	-	10	2
Eye end Italy Ø 45	1 224 108	3,7	-	10	2
Eye end UK Ø 50,8	1 224 109	4,2	-	10	2
Eye end French Ø 68	1 224 110	5,5	-	10	2
Eye end Nato Ø 76	1 224 111	5,9	-	10	2
Eye end sweden VBG 57,5	1 225 076	6,6	-	10	2



Assembly scheme for eye end

Range Overview

Drawbar cpl. (excluding coupling)						
Drawbar lenght E mm	Total lenght K at 0°	No. of Drawbar cpl.				
930	1939	200 574 01	31,6	9	-	10
1010	2019	200 574 02	32,5	9	-	10
1090	2099	200 574 03	33,4	9	-	10
1170	2179	200 574 04	34,3	9	-	10
1250	2259	200 574 05	35,2	9	-	10
1330	2339	200 574 06	36,1	9	-	10
1410	2419	200 574 07	37	9	-	10
1490	2499	200 574 08	37,9	9	-	10
1570	2579	200 574 09	38,8	9	-	10
1650	2659	200 574 10	39,7	9	-	10
1730	2739	200 574 11	40,6	9	-	10
1810	2819	200 574 12	41,5	9	-	10
1890	2899	200 574 13	42,4	9	-	10
1970	2979	200 574 14	43,3	9	-	10
2050	3059	200 574 15	44,2	9	-	10
2130	3139	200 574 16	45,1	9	-	10
2210	3219	200 574 17	46	9	-	10
2290	3299	200 574 18	46,9	9	-	10
2370	3379	200 574 19	47,8	9	-	10
2450	3459	200 574 20	48,7	9	-	10
2530	3539	200 574 21	49,6	9	-	10
2610	3619	200 574 22	50,5	9	-	10
2690	3699	200 574 23	51,4	9	-	10
2770	3779	200 574 24	52,3	9	-	10
2850	3859	200 574 25	53,2	9	-	10

! Caution

Couplings and eye ends have multiple usage. Distance bushings included to the scope of supply may be obsolete in certain combinations.

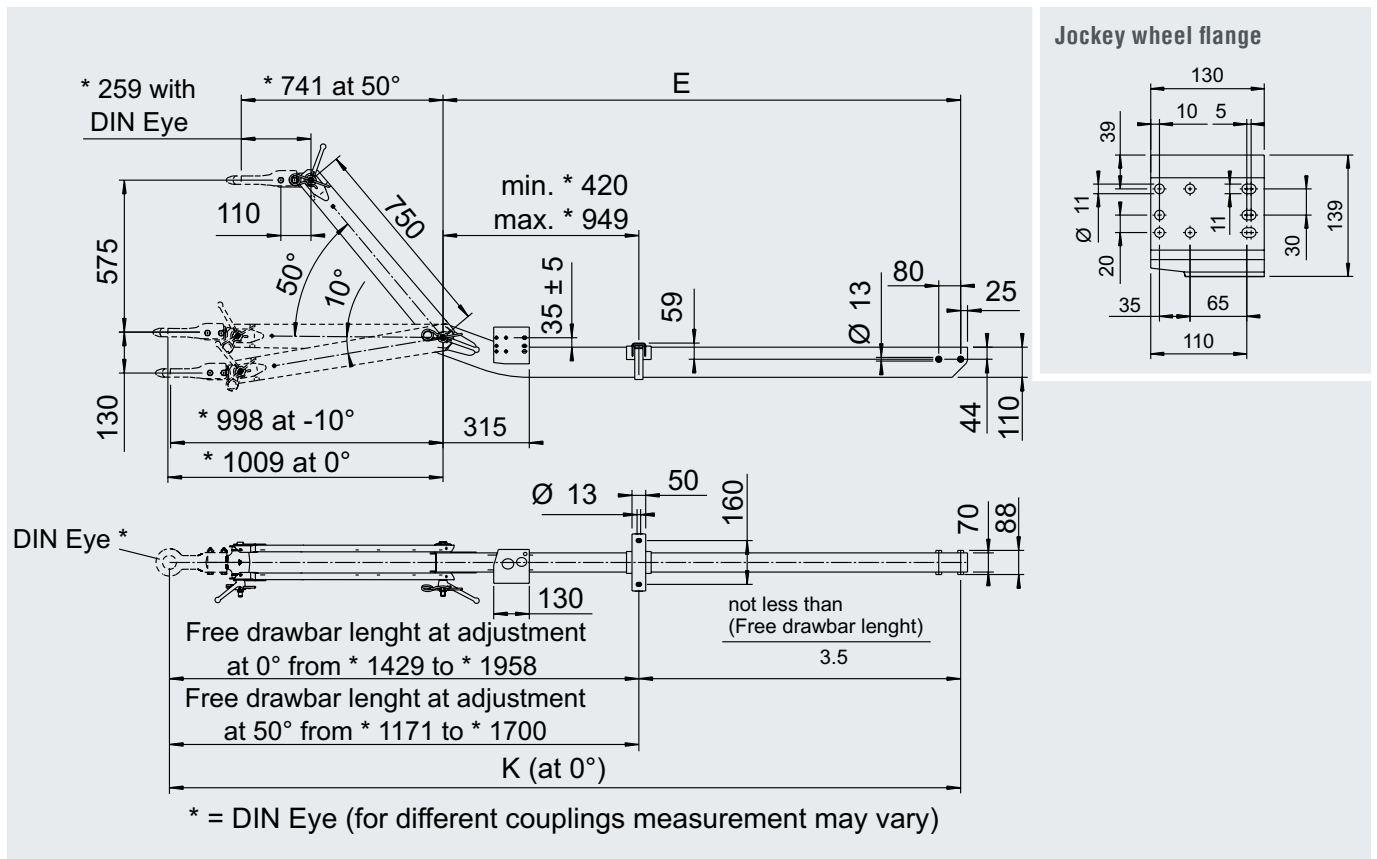
Surface treatment

Hot dip galvanized
Coupling, eye ends and mounting materials galvanized

Drawbar cpl. (excluding coupling)						
Special version with parking brake installed						
1970	2979	200 574 26	45,3	9	-	10

Couplings susceptible: connection D50

Coupling 249 277 	Eye end DIN D40/F 1 213 350 	Eye end UK E30/A 1 224 106 
Eye end UK E40/A 1 224 107 	Eye end Italy 145/F 1 224 108 	Eye end UK E50/A 1 224 109 
Eye end French F68/E 1 224 110 	Eye end NATO N76/E 1 224 111 	Eye end Sweden VBG 57,5 1 225 076 



Drawbar PLUS height adjustable

up to 750 kg Typ 75 VU

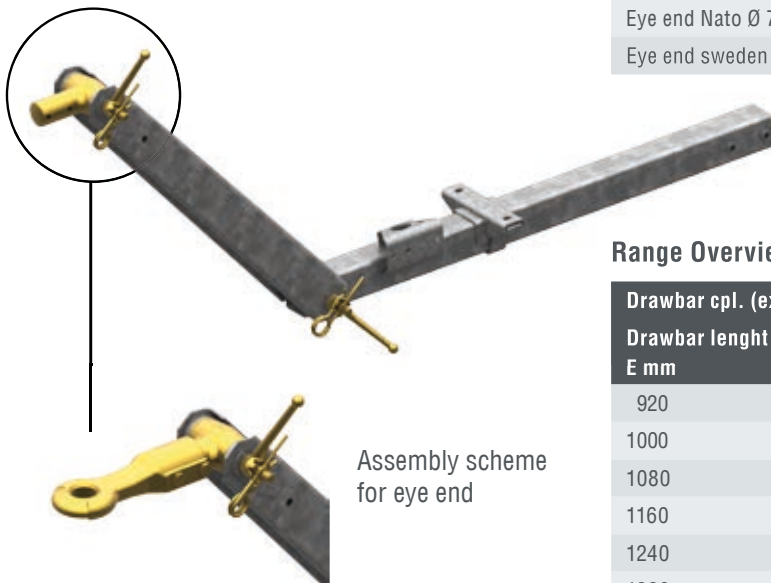
Technology

Drawbar Typ 75 VU Version A 1

Permitted nose load 100 kg

EC-Approval EG 94/20: e1 00-0266

ECE-Approval ECE R55-01 in preparation



Coupling range	Part No.				
Coupling Ø 50 AK 160	249 277	1,6	-	10	2
Eye end DIN Ø 40	1 213 350	3,7	-	10	2
Eye end UK Ø 30	1 224 106	3,4	-	10	2
Eye end UK Ø 40	1 224 107	3,6	-	10	2
Eye end Italy Ø 45	1 224 108	3,7	-	10	2
Eye end UK Ø 50,8	1 224 109	4,2	-	10	2
Eye end French Ø 68	1 224 110	5,5	-	10	2
Eye end Nato Ø 76	1 224 111	5,9	-	10	2
Eye end sweden VBG 57,5	1 225 076	6,6	-	10	2

Range Overview

Drawbar cpl. (excluding coupling)						
Drawbar lenght E mm	Total lenght K at 0°	No. of Drawbar cpl.				
920	1929	200 575 01	19,9	9	-	10
1000	2009	200 575 02	20,6	9	-	10
1080	2089	200 575 03	21,3	9	-	10
1160	2169	200 575 04	22	9	-	10
1240	2249	200 575 05	22,6	9	-	10
1320	2329	200 575 06	23,3	9	-	10
1400	2409	200 575 07	24	9	-	10
1480	2489	200 575 08	24,7	9	-	10
1560	2569	200 575 09	25,4	9	-	10
1640	2649	200 575 10	26,1	9	-	10
1720	2729	200 575 11	26,7	9	-	10
1800	2809	200 575 12	27,4	9	-	10
1880	2889	200 575 13	28,1	9	-	10
1960	2969	200 575 14	28,8	9	-	10
2040	3049	200 575 15	29,5	9	-	10
2120	3129	200 575 16	30,1	9	-	10
2200	3209	200 575 17	30,8	9	-	10
2280	3289	200 575 18	31,5	9	-	10
2360	3369	200 575 19	32,2	9	-	10
2440	3449	200 575 20	32,9	9	-	10
2520	3529	200 575 21	33,6	9	-	10
2600	3609	200 575 22	34,2	9	-	10
2680	3689	200 575 23	34,9	9	-	10
2760	3769	200 575 24	35,6	9	-	10
2840	3849	200 575 25	36,3	9	-	10

Drawbar cpl. (excluding coupling)

Special version with parking brake installed

1960	2969	200 575 26	30,8	9	-	10
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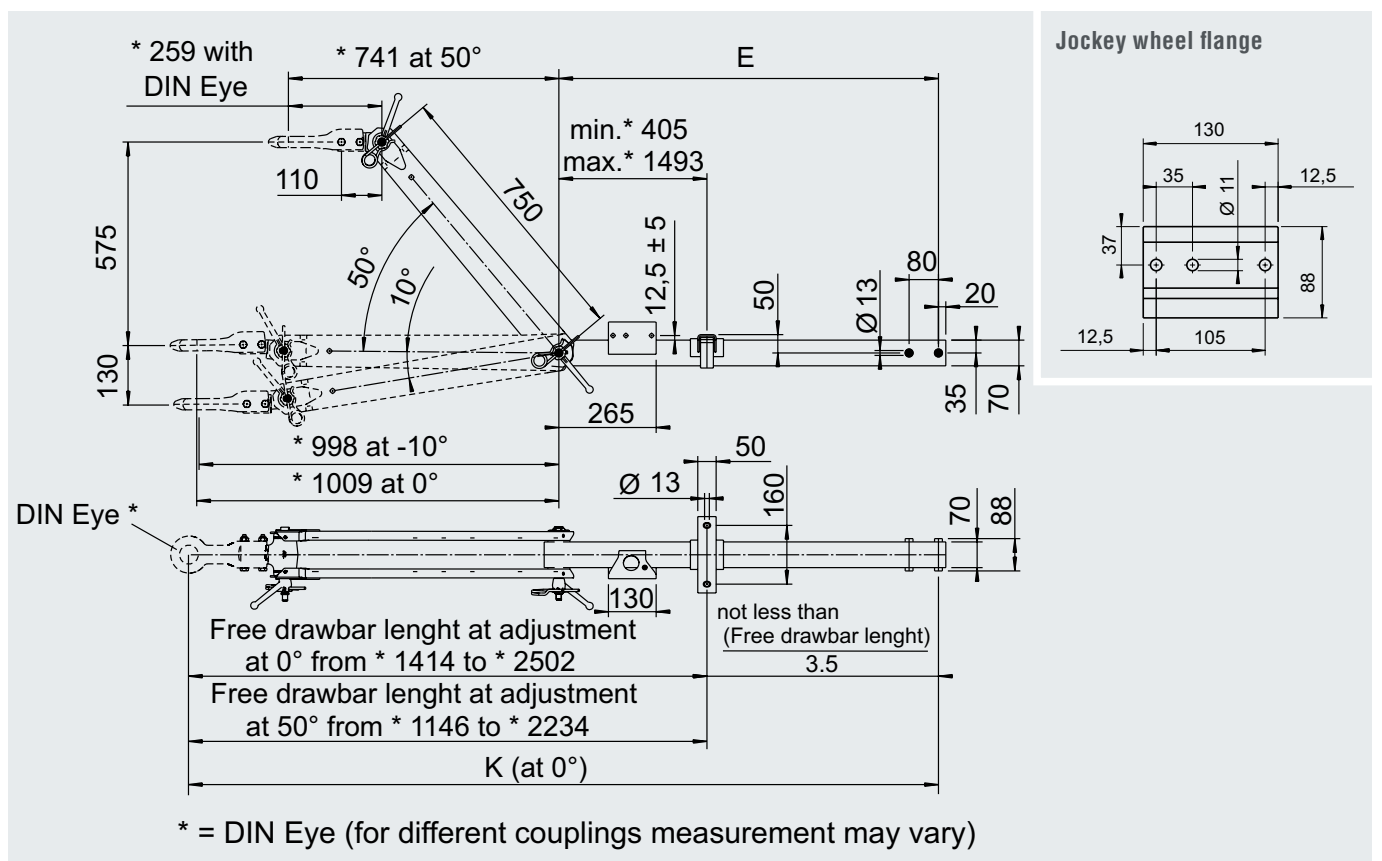
! Caution

Couplings and eye ends have multiple usage.
Distance bushings included to the scope of supply may be obsolete in certain combinations.

Surface treatment

Hot dip galvanized
Coupling, eye ends and mounting materials galvanized

Couplings susceptible: connection D50 / 161VB



Drawbar PLUS height adjustable

up to 1100 kg Typ 102 VB

Technology

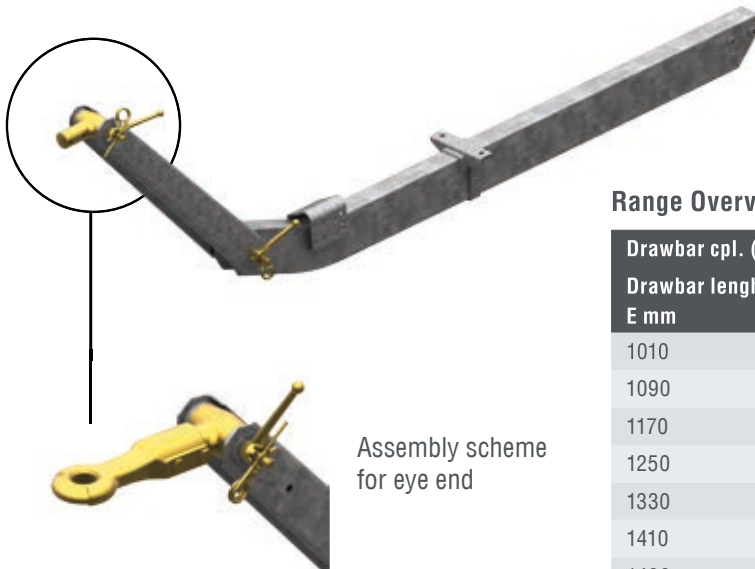
Drawbar Typ 102 VB Version N

Permitted nose load 100 kg

EC-Approval EG 94/20: e1 00-0211

ECE-Approval ECE R55-01 in preparation

Coupling range	Part No.				
Coupling Ø 50 AK 160	249 277	1,6	-	10	2
Eye end DIN Ø 40	1 213 350	3,7	-	10	2
Eye end UK Ø 30	1 224 106	3,4	-	10	2
Eye end UK Ø 40	1 224 107	3,6	-	10	2
Eye end Italy Ø 45	1 224 108	3,7	-	10	2
Eye end UK Ø 50,8	1 224 109	4,2	-	10	2
Eye end French Ø 68	1 224 110	5,5	-	10	2
Eye end Nato Ø 76	1 224 111	5,9	-	10	2
Eye end sweden VBG 57,5	1 225 076	6,6	-	10	2



Assembly scheme for eye end

! Caution

1. Couplings and eye ends have multiple usage. Distance bushings included to the scope of supply may be obsolete in certain combinations.
2. Maximum payload for unbraked trailers in the EC is 750 kg. Outside the EC local regulations must be considered.

Surface treatment

Hot dip galvanized

Coupling, eye ends and mounting materials galvanized

Range Overview

Drawbar cpl. (excluding coupling)						
Drawbar length E mm	Total length K at 0°	No. of Drawbar cpl.				
1010	2019	200 576 01	34,8	9	-	10
1090	2099	200 576 02	35,6	9	-	10
1170	2179	200 576 03	36,4	9	-	10
1250	2259	200 576 04	37,2	9	-	10
1330	2339	200 576 05	38,1	9	-	10
1410	2419	200 576 06	38,9	9	-	10
1490	2499	200 576 07	39,7	9	-	10
1570	2579	200 576 08	40,5	9	-	10
1650	2659	200 576 09	41,3	9	-	10
1730	2739	200 576 10	42,1	9	-	10
1810	2819	200 576 11	42,9	9	-	10
1890	2899	200 576 12	43,7	9	-	10
1970	2979	200 576 13	44,5	9	-	10
2050	3059	200 576 14	45,3	9	-	10
2130	3139	200 576 15	46,1	9	-	10
2210	3219	200 576 16	46,9	9	-	10
2290	3299	200 576 17	47,7	9	-	10
2370	3379	200 576 18	48,5	9	-	10
2450	3459	200 576 19	49,3	9	-	10
2530	3539	200 576 20	50,2	9	-	10
2610	3619	200 576 21	51	9	-	10
2690	3699	200 576 22	51,8	9	-	10
2770	3779	200 576 23	52,6	9	-	10
2850	3859	200 576 24	53,4	9	-	10

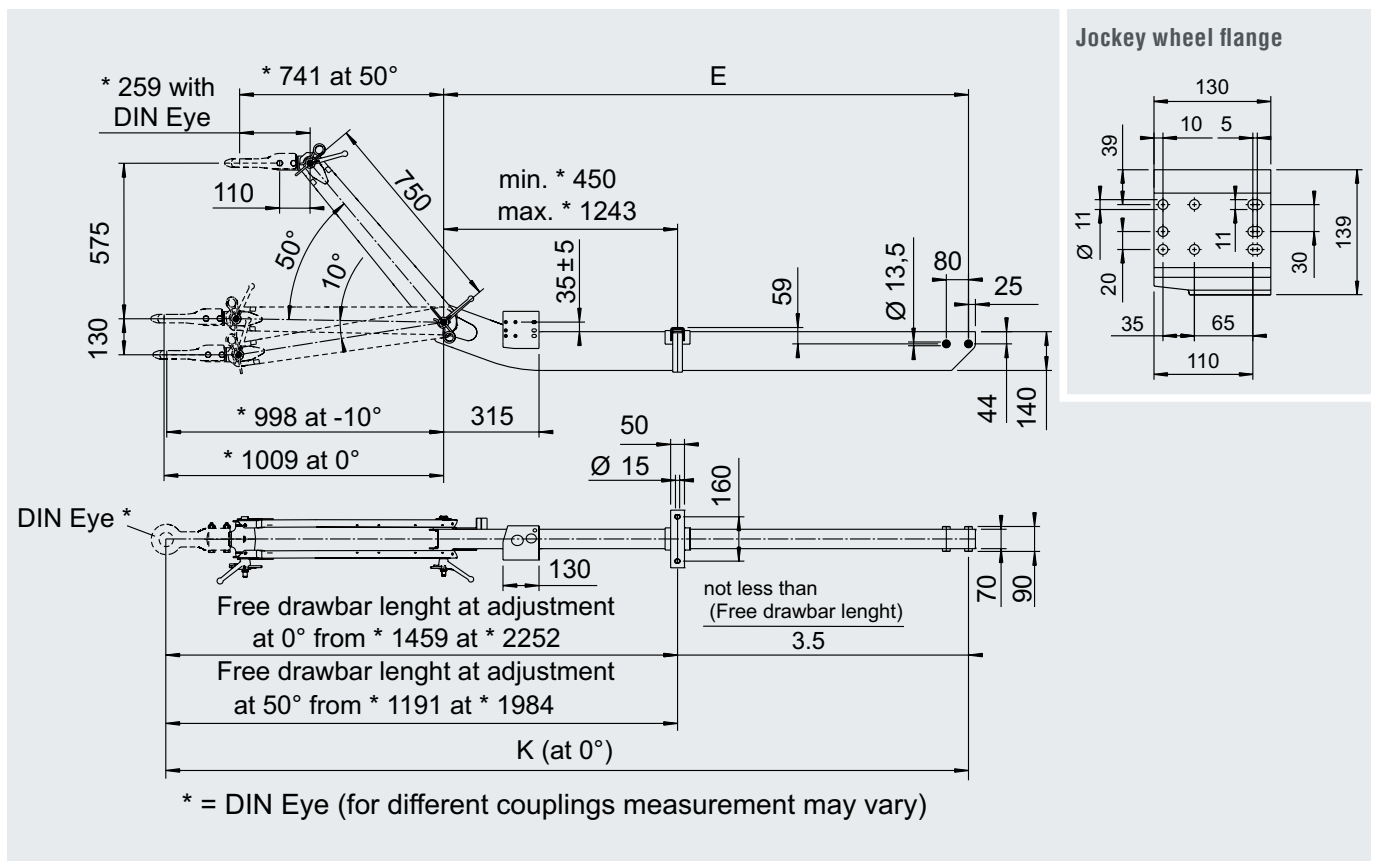
Drawbar cpl. (excluding coupling)

Special version with parking brake installed

1970	2979	200 576 26	46,5	9	-	10
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Couplings susceptible: connection D50 / 161VB

<p>Coupling 249 277</p>	<p>Eye end DIN D40/F 1 213 350</p>	<p>Eye end UK E30/A 1 224 106</p>
<p>Eye end UK E40/A 1 224 107</p>	<p>Eye end Italy 145/F 1 224 108</p>	<p>Eye end UK E50/A 1 224 109</p>
<p>Eye end French F68/E 1 224 110</p>	<p>Eye end NATO N76/E 1 224 111</p>	<p>Eye end Sweden VBG 57,5 1 225 076</p>

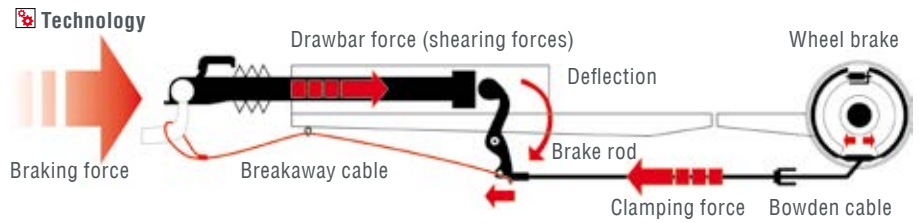


Overrun Devices

AL-KO Braking system

Overrun device action

The overrun device can be described as the control unit for the automatic overrunning system. Braking the towing vehicle produces a drawbar force on the coupling point. After overcoming the response threshold the drawbar is pushed in, this operates the overrun lever and the brakes via the transmission unit.



Handbrake downward gradient

Legislation prescribes a braking value to be activated via the handbrake that is greater than 18%. AL-KO exceeds this value and achieves up to 62%.



Breakaway cable

Legislation requires that the emergency brake reaches a braking force greater than 18% of the overall weight via the breakaway cable. AL-KO provides increased safety by achieving a maximum value of up to 28%.

Handbrake upward gradient

A braking value of up to 37% of the permissible overall weight via the handbrake. The legal requirement is a braking value of more than 18%. This means hazard free manoeuvring of the handbrake, even when reversing on a slope.



Backwards Roll Stop in the wheel brake

AL-KO builds on safety when stationary. The handbrake lever automatically tensions in reverse whilst stationary and thus reduces operating faults, such as the handbrake lever not being fully applied.

Automatic reverse

AL-KO achieves a minimum residual braking force in reverse of approx. 1%. The maximum legally permitted value is 8% of the permissible overall weight.

AL-KO Braking systems for trailers – the comparison shows the difference!

Test unbraked



Unbraked, what does this mean?

A trailer does not have its own brakes, i.e., the required braking performance for the trailer must take the towing vehicle with it completely.

The test car and unbraked trailer swings out, skids and cannot be controlled.

Test braked



The test car and braked trailer stays exactly on track even in the event of emergency braking in a curve.

Car & unbraked trailer	Car & braked trailer	
STOPPING DISTANCE		
53,50 m	45,50 m	The test car with a braked trailer thus had ca. 8 m (17 %) shorter stopping distance at 90 km/h!
BRAKING DECELERATION		
6,46 m/s ²	8,52 m/s²	The test car with a braked trailer decelerates more, i.e. it stops ca. 25 % faster!

These braking values are achieved with 100% complete linings and maximum contact area.

☑ Conclusion

Safety for every road user must be the most important requirement. AL-KO therefore recommends **braked trailers.**

Overrun Devices

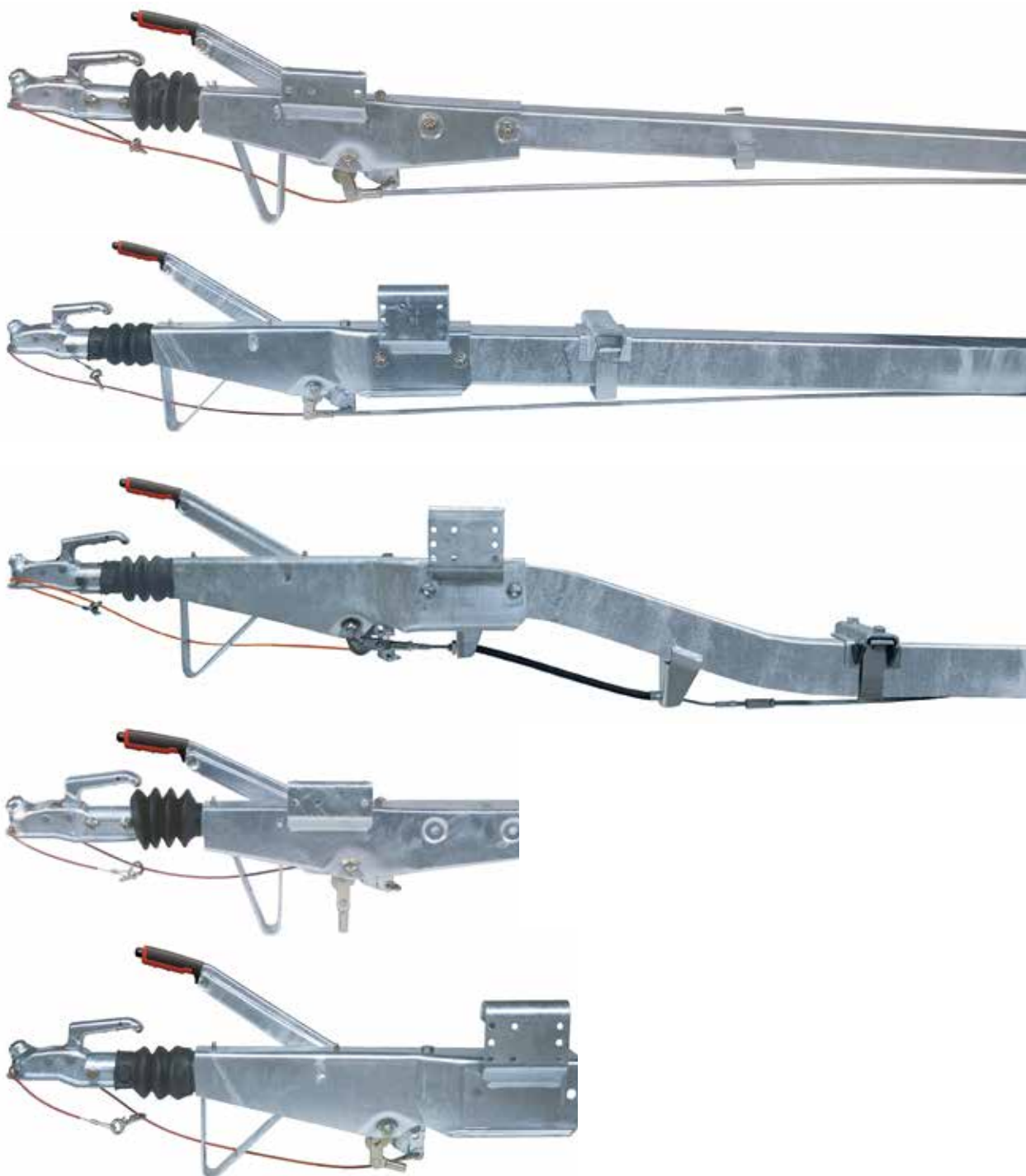
Square, with and without drawbar section

✔ Your Advantage

- | Retrofit accessories
- | Universal overrun lever for certain models (see product pages)
- | Handbrake lever gas spring supported with automatic adjustment in parking position

🏠 Surface Treatment

- | Housing, overrun device and drawbar profile hot dip galvanised



📄 Contents

Standard

- | Handbrake with gas strut
- | Support skid
- | Brake rod assy, with fixings (only version with drawbar)
- | Drawbar mount and clamping skid. 60 S/2 and 90 S/3, square only clamping bracket.
- | Integrated plug holder
- | Welded jockey wheel bracket
- | Breakaway cable with cable guide
- | Spacer tubes (note, when connecting to the axle, a connecting bracket and spacer tubes required)
- | Operating instructions

General information

| Combine AL-KO overrun devices with AL-KO wheel brake

AL-KO overrun devices meet the latest EC-instructions it may combine only with the corresponding AL-KO wheel brakes. Please note that the braking system does not work with other combination.

- | **Exceeded nose loads** result to increased friction of the bearings and moving parts. Following that the braking performance will decrease. Please keep the recommended nose loads .

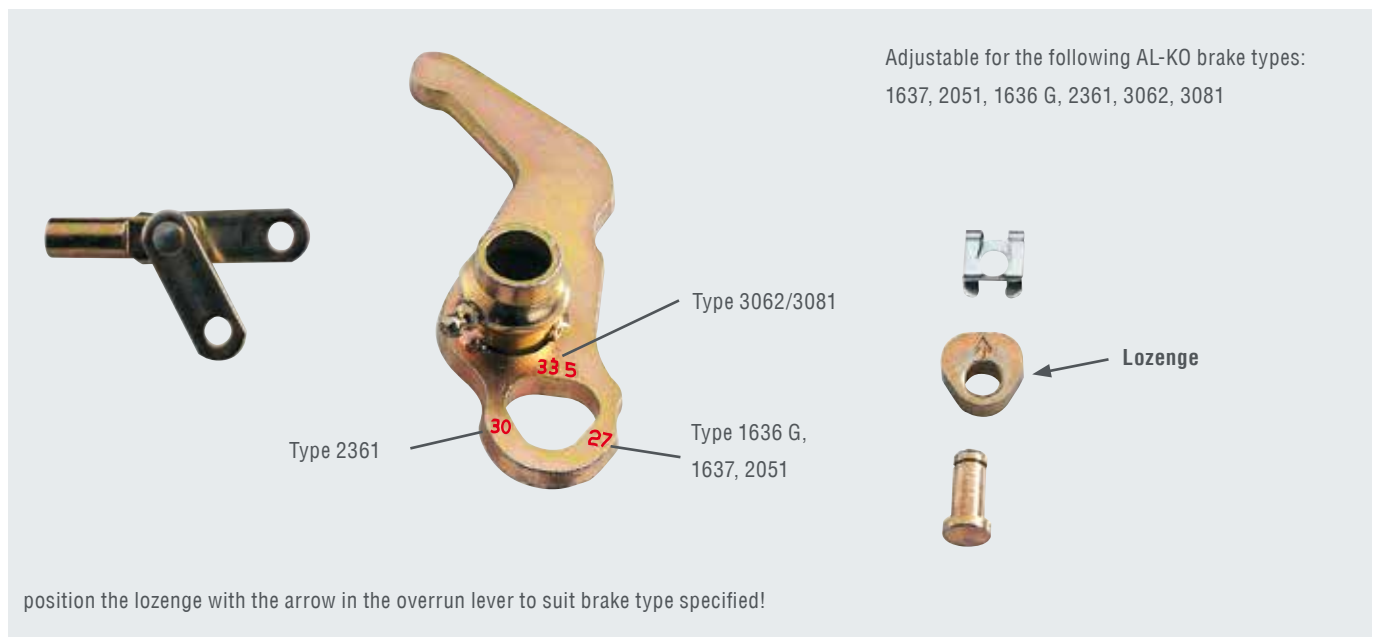
| Type plate

Type plates may not be covered by priming, paint or covers.

| Reinforced overrun devices

For lorries, busses or towing vehicles with hard self-damping, the overrun devices, drawbars and couplings must be stronger versions. Please ask for it.

Overrun lever (universal)



Accessories

Safety Compact



Soft-Dock



Shackle Lock



Safety-Ball



Overrun Devices square with straight drawbar 450 – 750 kg

Technology

Type 60 S/2 - R 4 Version B 3

GA 450–750 kg

permitted max. nose load 75 kg

Adjustable overrun lever:

Yes

Non

EC-Test Number:

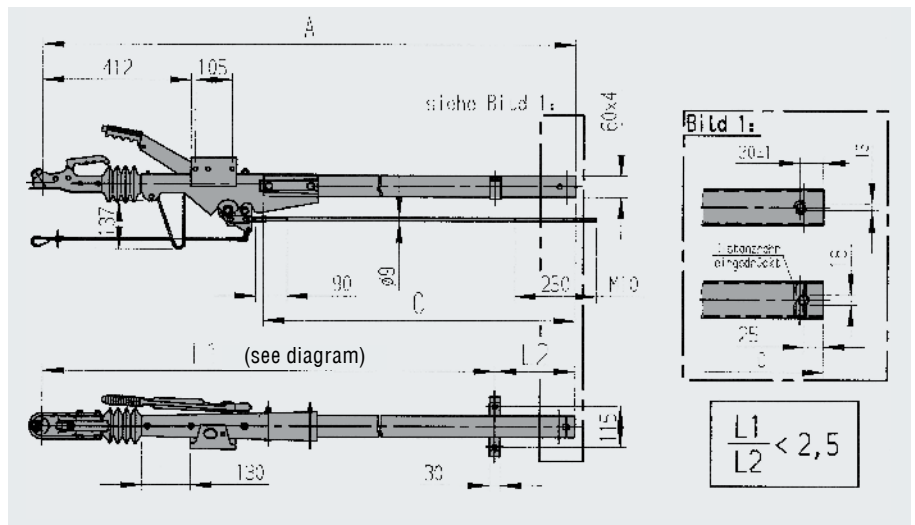
Complete assy: e1 00-0234

Overrun devices: 150 98 07

Drawbar: e1 00-0388

max. free drawbar length

at GA 750 kg: 1470 mm



*diagram see index (contents)



Range Overview

with ball coupling AK 160 for wheel brake 1636 G / 1637 (90/27)					
Dimensions		Part No.	T	R	S
C mm	A mm				
730	1357	200 355 01	17,5	25	10
980	1607	200 355 02	18,4	25	10
1140	1767	200 355 03	19,3	25	10
1300	1927	200 355 04	20,1	25	10
1460	2087	247 783	21,0	25	2
1620	2247	200 355 05	21,9	25	10
1780	2407	200 355 06	22,7	25	10
1940	2567	200 355 07	23,6	25	10
2100	2727	247 784	24,5	25	10
2260	2887	200 355 08	25,4	25	10
2420	3047	200 355 09	26,2	25	10
2580	3207	200 355 10	27,1	25	10
2740	3367	200 355 11	28,0	25	10
2900	3527	200 355 12	28,9	25	10

Overrun Devices square with straight drawbar 700 – 1.000 kg



Technology

Type 90 S/3 - R 4 Version B 3

GA 700–1.000 kg

permitted max. nose load 75 kg

Adjustable overrun lever:

Yes

Non

EC-Test Number:

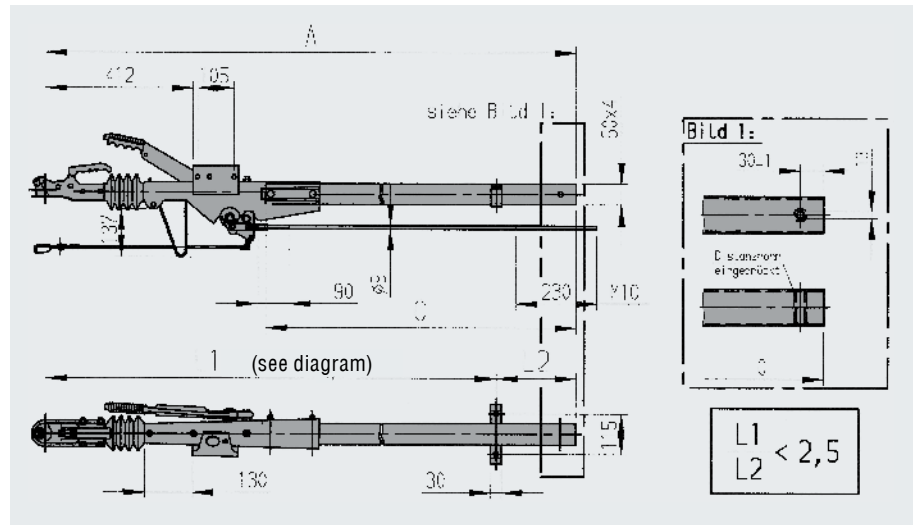
Complete assy: e1 00-0233

Overrun devices: 150 55 35

Drawbar: e1 00-0388

max. free drawbar length

at GA 1.000 kg: 1100 mm



*diagram see index (contents)



Range Overview

with ball coupling AK 160 for wheel brake 1636 G / 1637 (90/27)					
Dimensions		Part no.	T ₉₀	T ₁₀₀	T ₁₂₀
C mm	A mm				
730	1357	200 356 01	17,8	25	10
980	1607	200 356 02	18,9	25	10
1140	1767	200 356 03	19,9	25	10
1300	1927	200 356 04	21,0	25	10
1460	2087	247 785	22,0	25	2
1620	2247	200 356 05	23,1	25	10
1780	2407	200 356 06	24,1	25	10
1940	2567	247 786	25,2	25	10
2100	2727	200 356 07	26,2	25	10
2260	2887	200 356 08	27,3	25	10
2420	3047	200 356 09	28,3	25	10
2580	3207	200 356 10	29,4	25	10
2740	3367	200 356 11	30,4	25	10
2900	3527	200 356 12	31,2	25	10

Overrun Devices square

with cranked drawbar 700 – 1.350 kg

Technology

Typ 161 S/B – K16

GA 700–1.350 kg

Permitted max. nose load 100 kg

Adjustable overrun lever:

Yes

Non

EC-Test Number:

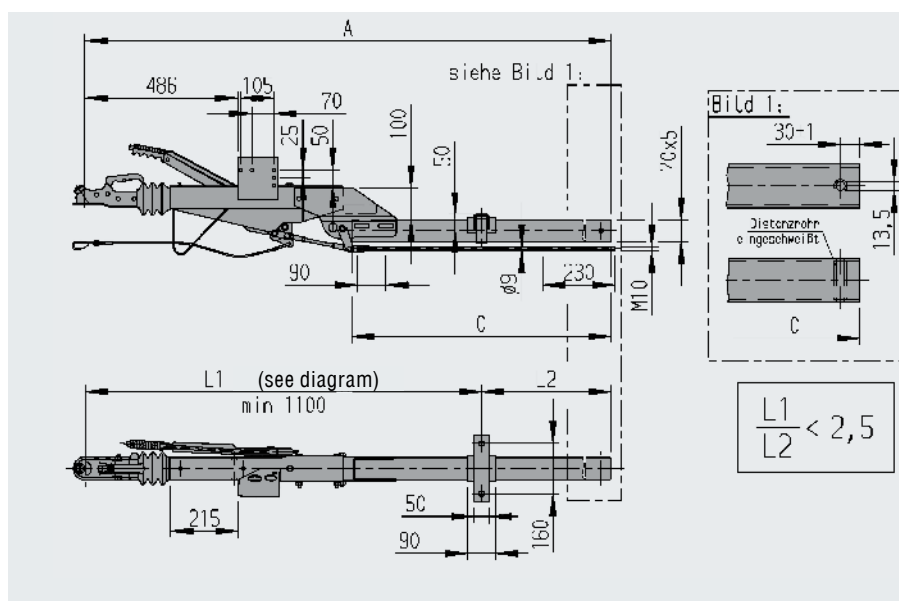
Complete assy: e1 00-0267

Overrun devices: 361 284 83

Drawbar: e1 00-1469

max. free drawbar length

at GA 1.350 kg: 1300 mm



*diagram see index (contents)



Range Overview

with ball coupling AK 160 for wheel brake 1637 / 2051 (90/27)					
Dimension		Part No.	T	B	D
C mm	A mm				
980	1830	1 221 428	30,4	20	10
1140	1990	1 221 429	32,0	20	10
1300	2150	1 221 430	33,6	20	10
1460	2310	1 221 431	35,2	20	2
1620	2470	1 221 432	36,8	20	10
1780	2630	1 221 394	38,4	20	10
1940	2790	1 221 433	40,0	20	2
2100	2950	1 221 434	41,6	20	10
2260	3110	1 221 435	43,2	20	10
2420	3270	1 221 436	44,8	20	10
2580	3430	1 221 437	46,4	20	10
2740	3590	1 221 438	48,0	20	10
2900	3750	1 221 439	49,6	20	10

with DIN-Eye Ø 40 for wheel brake 1637 / 2051 (90/27)

on demand

Overrun Devices square with straight drawbar 950 – 1.600 kg

 **Technology**

Type 161 S - R 16 Version A

GA 950–1.600 kg

Perm. max. nose load 100 kg

Adjustable overrun lever:

Yes

Non

EC-Test Number:

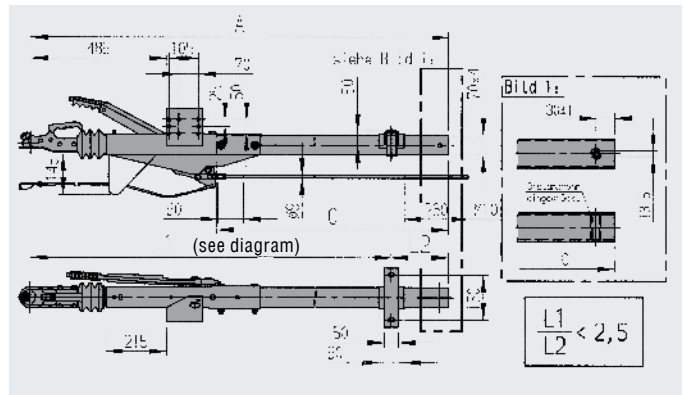
Complete assy: e1 00-0267

Overrun devices: 361 284 83

Drawbar: e1 00-0274




max. free drawbar length

at GA 1.500 kg: 1100 mm









Range Overview

*diagram see index (contents)

with ball coupling AK 160 for wheel brake 1637 / 2051 (90/27)					
Dimension		Part No.			
C mm	A mm				
730	1397	200 357 01	25,2	20	10
980	1647	200 357 02	26,4	20	10
1140	1807	200 357 03	27,6	20	10
1300	1967	200 357 04	28,8	20	10
1460	2127	247 787	30,0	20	2
1620	2287	200 357 05	31,2	20	10
1780	2447	121 123 7	32,4	20	10
1940	2607	247 788	34,0	20	2
2100	2767	200 357 06	35,2	20	10
2260	2927	200 357 07	36,4	20	10
2420	3087	200 357 08	37,6	20	10
2580	3247	200 357 09	38,8	20	10
2740	3407	200 357 10	40,0	20	10
2900	3567	247 789	41,2	20	10

with ball coupling AK 160 for wheel brake 2361 (90/30)					
Dimension		Part No.			
C mm	A mm				
730	1397	200 357 11	25,2	20	10
980	1647	200 357 12	26,4	20	10
1140	1807	200 357 13	27,6	20	10
1300	1967	200 357 14	28,8	20	10
1460	2127	200 357 15	30,0	20	10
1620	2287	200 357 16	31,2	20	10
1780	2447	200 357 17	32,4	20	10
1940	2607	200 357 18	34,0	20	10
2100	2767	200 357 19	35,2	20	10
2260	2927	200 357 20	36,4	20	10
2420	3087	200 357 21	37,6	20	10
2580	3247	200 357 22	38,8	20	10
2740	3407	200 357 23	40,0	20	10
2900	3567	200 357 24	41,2	20	10

with DIN-Eye Ø 40 for wheel brake 1637 / 2051 (90/27)					
Dimension		Part No.			
C mm	A mm				
730	1406	200 357 25	26,2	20	10
980	1656	200 357 26	27,4	20	10
1140	1816	200 357 27	28,6	20	10
1300	1976	200 357 28	29,8	20	10
1460	2136	200 357 29	31,0	20	10
1620	2296	200 357 30	32,2	20	10
1780	2456	200 357 31	33,4	20	10
1940	2616	200 357 32	35,0	20	10
2100	2776	200 357 33	36,2	20	10
2260	2936	200 357 34	37,4	20	10
2420	3096	200 357 35	38,6	20	10
2580	3256	200 357 36	39,8	20	10
2740	3416	200 357 37	41,0	20	10
2900	3576	200 357 38	42,2	20	10

with DIN-Eye Ø 40 for wheel brake 2361 (90/30)					
Dimension		Part No.			
C in mm	A in mm				
730	1406	200 357 39	26,2	20	10
980	1656	200 357 40	27,4	20	10
1140	1816	200 357 41	28,6	20	10
1300	1976	200 357 42	29,8	20	10
1460	2136	200 357 43	31,0	20	10
1620	2296	200 357 44	32,2	20	10
1780	2456	200 357 45	33,4	20	10
1940	2616	200 357 46	35,0	20	10
2100	2776	200 357 47	36,2	20	10
2260	2936	200 357 48	37,4	20	10
2420	3096	200 357 49	38,6	20	10
2580	3256	200 357 50	39,8	20	10
2740	3416	200 357 51	41,0	20	10
2900	3576	200 357 52	42,2	20	10

Overrun Devices

Overrun Devices square with straight drawbar 950 – 1.600 kg

Technology

Type 161 S - R 26 Version A

GA 950–1.600 kg

Perm. max. nose load 100 kg

Adjustable overrun lever:

Yes

Non

EC-Test Number:

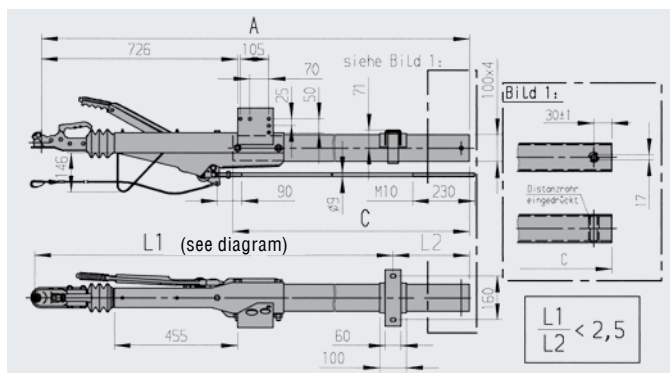
Complete assy: e1 00-0267

Overrun devices: 361 284 83

Drawbar: e1 00-0280

max. free drawbar length

at GA 1600 kg: 2250 mm



*diagram see index (contents)

Range Overview

with ball coupling AK 160 for wheel brake 1637 / 2051 (90/27)					
Dimension		Part No.			
C mm	A mm				
980	1690	200 358 01	30,6	20	10
1140	1850	200 358 02	32,4	20	10
1300	2010	200 358 03	34,2	20	10
1460	2170	247 790	36,0	20	2
1620	2330	200 358 04	37,8	20	10
1780	2490	200 358 05	39,6	20	10
1940	2650	247 791	42,0	20	2
2100	2810	200 358 06	43,8	20	10
2260	2970	200 358 07	45,6	20	10
2420	3130	200 358 08	47,4	20	10
2580	3290	200 358 09	49,2	20	10
2740	3450	200 358 10	51,0	20	10
2900	3610	247 792	52,8	20	10

with ball coupling AK 160 for wheel brake 2361 (90/30)					
Dimension		Part No.			
C mm	A mm				
980	1690	200 358 11	30,6	20	10
1140	1850	200 358 12	32,4	20	10
1300	2010	200 358 13	34,2	20	10
1460	2170	200 358 14	36,0	20	10
1620	2330	200 358 15	37,8	20	10
1780	2490	200 358 16	39,6	20	10
1940	2650	200 358 17	42,0	20	10
2100	2810	200 358 18	43,8	20	10
2260	2970	200 358 19	45,6	20	10
2420	3130	200 358 20	47,4	20	10
2580	3290	200 358 21	49,2	20	10
2740	3450	200 358 22	51,0	20	10
2900	3610	200 358 23	52,8	20	10

with DIN-Eye Ø 40 for wheel brake 1637 / 2051 (90/27)					
Dimension		Part No.			
C mm	A mm				
980	1699	200 358 24	31,6	20	10
1140	1859	200 358 25	33,4	20	10
1300	2019	200 358 26	35,2	20	10
1460	2179	200 358 27	37,0	20	10
1620	2339	200 358 28	38,8	20	10
1780	2499	200 358 29	40,6	20	10
1940	2659	249 285	43,0	20	10
2100	2819	200 358 30	44,8	20	10
2260	2979	200 358 31	46,6	20	10
2420	3139	200 358 32	48,4	20	10
2580	3299	200 358 33	50,2	20	10
2740	3459	200 358 34	52,0	20	10
2900	3619	200 358 35	53,8	20	10

with DIN-Eye Ø 40 for wheel brake 2361 (90/30)					
Dimension		Part No.			
C mm	A mm				
980	1699	200 358 36	31,6	20	10
1140	1859	200 358 37	33,4	20	10
1300	2019	200 358 38	35,2	20	10
1460	2179	200 358 39	37,0	20	10
1620	2339	200 358 40	38,8	20	10
1780	2499	200 358 41	40,6	20	10
1940	2659	200 358 42	43,0	20	10
2100	2819	200 358 43	44,8	20	10
2260	2979	200 358 44	46,6	20	10
2420	3139	200 358 45	48,4	20	10
2580	3299	200 358 46	50,2	20	10
2740	3459	200 358 47	52,0	20	10
2900	3619	200 358 48	53,8	20	10

Overrun Devices square with cranked drawbar 950 – 1.600 kg



QUALITY FOR LIFE

Technology

Type 161 S - K 26 Version A

GA 950–1.600 kg

permitted max. nose load 100 kg

Adjustable overrun lever:

Yes

Non

EC-Test Number:

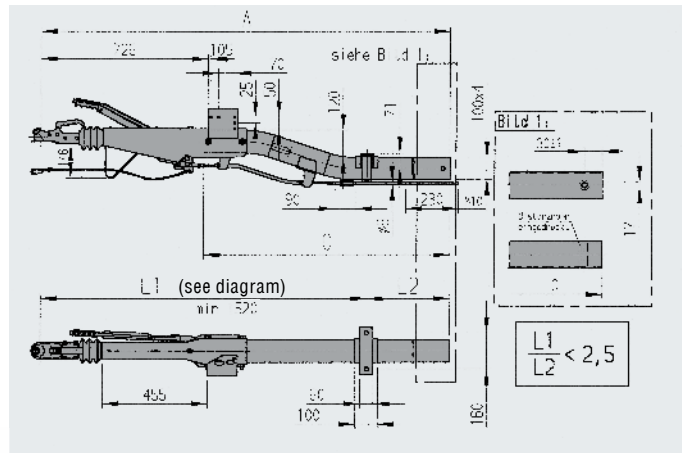
Complete assy: e1 00-0267

Overrun devices: 361 284 83

Drawbar: e1 00-0925

max. free drawbar length

at GA 1.600 kg: 2130 mm



*diagram see index (contents)

Range Overview

with ball coupling AK 160 for wheel brake 1637 / 2051 (90/27)					
Dimension		Part No.	kg	mm	mm
C mm	A mm				
1280	1990	200 359 01	35,4	20	10
1440	2150	200 359 02	36,0	20	10
1600	2310	200 359 03	37,7	20	10
1760	2470	200 359 04	39,5	20	10
1920	2630	121 134 2	41,2	20	10
2080	2790	200 359 05	42,9	20	10
2240	2950	200 359 06	44,6	20	10
2400	3110	200 359 07	46,3	20	10
2560	3270	200 359 08	48,0	20	10
2720	3430	200 359 09	49,7	20	10
2880	3590	200 359 10	51,5	20	10

with ball coupling AK 160 for wheel brake 2361 (90/30)					
Dimension		Part No.	kg	mm	mm
C mm	A mm				
1280	1990	200 359 11	35,4	20	10
1440	2150	200 359 12	36,0	20	10
1600	2310	200 359 13	37,7	20	10
1760	2470	200 359 14	39,5	20	10
1920	2630	200 359 15	41,2	20	10
2080	2790	200 359 16	42,9	20	10
2240	2950	200 359 17	44,6	20	10
2400	3110	200 359 18	46,3	20	10
2560	3270	200 359 19	48,0	20	10
2720	3430	200 359 20	49,7	20	10
2880	3590	200 359 21	51,5	20	10

with DIN-Eye Ø 40 for wheel brake 1637 / 2051 (90/27)					
Dimension		Part No.	kg	mm	mm
C mm	A mm				
1280	1999	200 359 22	36,4	20	10
1440	2159	200 359 23	37,0	20	10
1600	2319	200 359 24	38,7	20	10
1760	2479	200 359 25	40,5	20	10
1920	2639	200 359 26	42,2	20	10
2080	2799	200 359 27	43,9	20	10
2240	2959	200 359 28	45,6	20	10
2400	3119	200 359 29	47,3	20	10
2560	3279	200 359 30	49,0	20	10
2720	3439	200 359 31	50,7	20	10
2880	3599	200 359 32	52,5	20	10

with DIN-Eye Ø 40 for wheel brake 2361 (90/30)					
Dimension		Part No.	kg	mm	mm
C mm	A mm				
1280	1999	200 359 33	36,4	20	10
1440	2159	200 359 34	37,0	20	10
1600	2319	200 359 35	38,7	20	10
1760	2479	200 359 36	40,5	20	10
1920	2639	200 359 37	42,2	20	10
2080	2799	200 359 38	43,9	20	10
2240	2959	200 359 39	45,6	20	10
2400	3119	200 359 40	47,3	20	10
2560	3279	200 359 41	49,0	20	10
2720	3439	200 359 42	50,7	20	10
2880	3599	200 359 43	52,5	20	10

Overrun Devices square

with straight drawbar 1.500 – 2.600 kg

Technology

Type 251 S - R 26 Version A

GA 1.500–2.600 kg

permitted max. nose load 100 kg

Adjustable overrun lever:

Yes

Non

EC-Test Number:

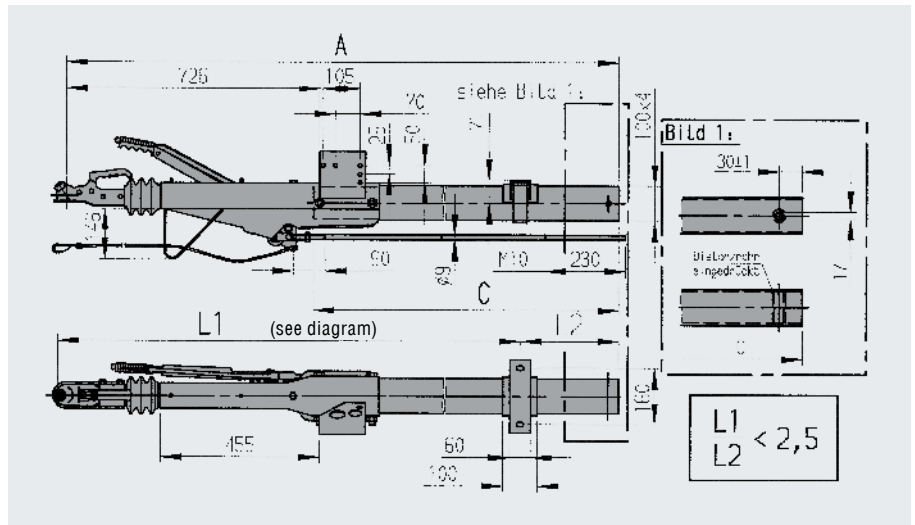
Complete assy: e1 00-0268

Overrun devices: 361 303 83

Drawbar: e1 00-0280

max. free drawbar length

at GA 2.600 kg: 1400 mm



*diagram see index (contents)



Range Overview

with ball coupling AK 300 for wheel brake 1637 / 2051 (90/27)						with ball coupling AK 300 for wheel brake 2361 (90/30)					
Dimension		Part No.				Dimension		Part No.			
C mm	A mm					C mm	A mm				
980	1690	200 361 01	34,7	20	10	980	1690	200 361 11	34,7	20	10
1140	1850	200 361 02	36,5	20	10	1140	1850	200 361 12	36,5	20	10
1300	2010	200 361 03	38,2	20	10	1300	2010	200 361 13	38,2	20	10
1460	2170	247 691	40,0	20	2	1460	2170	200 361 14	40,0	20	10
1620	2330	200 361 04	41,8	20	10	1620	2330	200 361 15	41,8	20	10
1780	2490	200 361 05	43,6	20	10	1780	2490	200 361 16	43,6	20	10
1940	2650	247 692	46,0	20	2	1940	2650	200 361 17	46,0	20	10
2100	2810	200 361 06	47,7	20	10	2100	2810	200 361 18	47,7	20	10
2260	2970	200 361 07	49,5	20	10	2260	2970	200 361 19	49,5	20	10
2420	3130	200 361 08	51,3	20	10	2420	3130	200 361 20	51,3	20	10
2580	3290	200 361 09	53,1	20	10	2580	3290	200 361 21	53,1	20	10
2740	3450	200 361 10	54,9	20	10	2740	3450	200 361 22	54,9	20	10
2900	3610	247 693	56,7	20	10	2900	3610	200 361 23	56,7	20	10

with DIN-Eye Ø 40 for wheel brake 1637 / 2051 (90/27)						with DIN-Eye Ø 40 for wheel brake 2361 (90/30)					
Dimension		Part No.				Dimension		Part No.			
C mm	A mm					C mm	A mm				
980	1699	200 361 24	35,7	20	10	980	1699	200 361 36	35,7	20	10
1140	1859	200 361 25	37,5	20	10	1140	1859	200 361 37	37,5	20	10
1300	2019	200 361 26	39,2	20	10	1300	2019	200 361 38	39,2	20	10
1460	2179	200 361 27	41,0	20	10	1460	2179	200 361 39	41,0	20	10
1620	2339	200 361 28	42,8	20	10	1620	2339	200 361 40	42,8	20	10
1780	2499	200 361 29	44,6	20	10	1780	2499	200 361 41	44,6	20	10
1940	2659	249 275	47,0	20	10	1940	2659	200 361 42	47,0	20	10
2100	2819	200 361 30	48,7	20	10	2100	2819	200 361 43	48,7	20	10
2260	2979	200 361 31	50,5	20	10	2260	2979	200 361 44	50,5	20	10
2420	3139	200 361 32	52,3	20	10	2420	3139	200 361 45	52,3	20	10
2580	3299	200 361 33	54,1	20	10	2580	3299	200 361 46	54,1	20	10
2740	3459	200 361 34	55,9	20	10	2740	3459	200 361 47	55,9	20	10
2900	3619	200 361 35	57,7	20	10	2900	3619	200 361 48	57,7	20	10

Overrun Devices square

with cranked drawbar 1.600 – 2.200 kg

Technology

Type 251 S - K 26 Version A

GA 1.500–2.200 kg

permitted max. nose load 100 kg

Adjustable overrun lever:

Yes

Non

EC-Test Number:

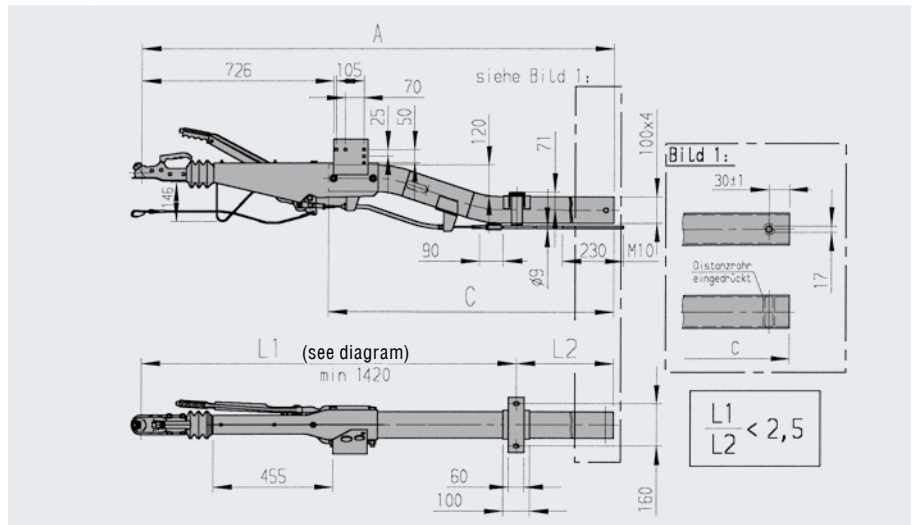
Complete assy: e1 00-0268

Overrun devices: 361 303 83

Drawbar: e1 00-0925

max. free drawbar length

at GA 2.200 kg: 1550 mm



Range Overview

with ball coupling AK 300 for wheel brake 1637 / 2051 (90/27)					
Dimension		Part No.	38,2	20	10
C mm	A mm				
1280	1990	200 360 01	38,2	20	10
1440	2150	200 360 02	40,0	20	10
1600	2310	200 360 03	41,8	20	10
1760	2470	200 360 04	43,6	20	10
1920	2630	121 129 9	44,4	20	10
2080	2790	200 360 05	46,0	20	10
2240	2950	200 360 06	47,8	20	10
2400	3110	200 360 07	49,6	20	10
2560	3270	200 360 08	51,4	20	10
2720	3430	200 360 09	53,1	20	10
2880	3590	200 360 10	54,9	20	10

with ball coupling AK 300 for wheel brake 2361 (90/30)					
Dimension		Part No.	38,2	20	10
C mm	A mm				
1280	1990	200 360 11	38,2	20	10
1440	2150	200 360 12	40,0	20	10
1600	2310	200 360 13	41,8	20	10
1760	2470	200 360 14	43,6	20	10
1920	2630	200 360 15	44,4	20	10
2080	2790	200 360 16	46,0	20	10
2240	2950	200 360 17	47,8	20	10
2400	3110	200 360 18	49,6	20	10
2560	3270	200 360 19	51,4	20	10
2720	3430	200 360 20	53,1	20	10
2880	3590	200 360 21	54,9	20	10

with DIN-Eye Ø 40 for wheel brake 1637 / 2051 (90/27)					
Dimension		Part No.	39,2	20	10
C mm	A mm				
1280	1999	200 360 22	39,2	20	10
1440	2159	200 360 23	41,0	20	10
1600	2319	200 360 24	42,8	20	10
1760	2479	200 360 25	44,6	20	10
1920	2639	200 360 26	45,4	20	10
2080	2799	200 360 27	47,0	20	10
2240	2959	200 360 28	48,8	20	10
2400	3119	200 360 29	50,6	20	10
2560	3279	200 360 30	52,4	20	10
2720	3439	200 360 31	54,1	20	10
2880	3599	200 360 32	55,9	20	10

with DIN-Eye Ø 40 for wheel brake 1637 / 2051 (90/27)					
Dimension		Part No.	39,2	20	10
C mm	A mm				
1280	1999	200 360 33	39,2	20	10
1440	2159	200 360 34	41,0	20	10
1600	2319	200 360 35	42,8	20	10
1760	2479	200 360 36	44,6	20	10
1920	2639	200 360 37	45,4	20	10
2080	2799	200 360 38	47,0	20	10
2240	2959	200 360 39	48,8	20	10
2400	3119	200 360 40	50,6	20	10
2560	3279	200 360 41	52,4	20	10
2720	3439	200 360 42	54,1	20	10
2880	3599	200 360 43	55,9	20	10

Overrun Devices square with cranked drawbar 1.500 – 2.600 kg

Technology

Type 251 S - K 26 Version B

GA 1.500–2.600 kg

Permitted max. nose load 100 kg

Adjustable overrun lever:

Yes

Non

EC-Test Number:

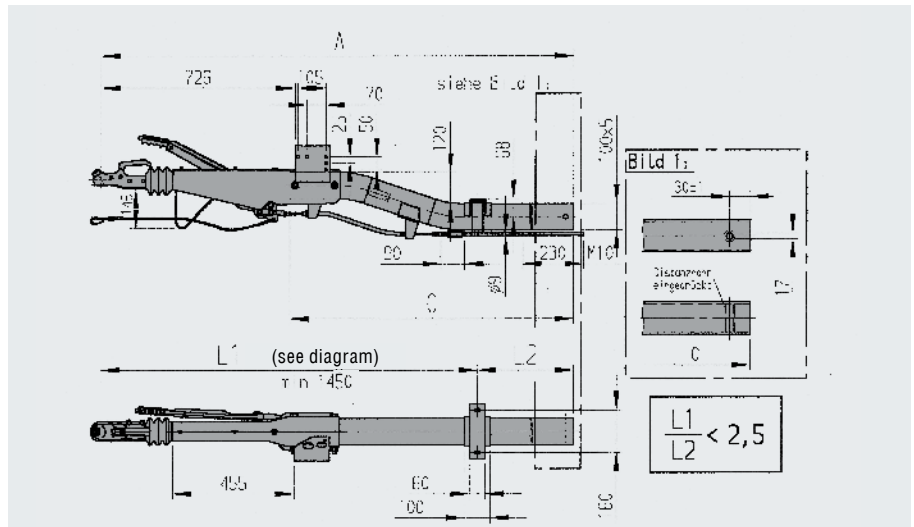
Complete assy: e1 00-0268

Overrun device: 361 303 83

Drawbar: e1 00-0925

max. free drawbar length

at GA 2.600 kg: 1650 mm



*diagram see index (contents)

Range Overview

with coupling AK 300 for wheel brake 1637 / 2051 (90/27)					
Dimension		Part No.			
C mm	A mm				
1280	1990	200 362 01	43,1	20	10
1440	2150	200 362 02	44,9	20	10
1600	2310	200 362 03	46,6	20	10
1760	2470	200 362 04	47,4	20	10
1920	2630	121 150 1	49,2	20	10
2080	2790	200 362 05	51,0	20	10
2240	2950	200 362 06	52,8	20	10
2400	3110	200 362 07	54,6	20	10
2560	3270	200 362 08	56,4	20	10
2720	3430	200 362 09	58,2	20	10
2880	3590	200 362 10	60,0	20	10

with coupling AK 300 for wheel brake 2361 (90/30)					
Dimension		Part No.			
C mm	A mm				
1280	1990	200 362 11	43,1	20	10
1440	2150	200 362 12	44,9	20	10
1600	2310	200 362 13	46,6	20	10
1760	2470	200 362 14	47,4	20	10
1920	2630	200 362 15	49,2	20	10
2080	2790	200 362 16	51,0	20	10
2240	2950	200 362 17	52,8	20	10
2400	3110	200 362 18	54,6	20	10
2560	3270	200 362 19	56,4	20	10
2720	3430	200 362 20	58,2	20	10
2880	3590	200 362 21	60,0	20	10

with DIN-Eye Ø 40 for wheel brake 1637 / 2051 (90/27)					
Dimension		Part No.			
C mm	A mm				
1280	1999	200 362 22	44,1	20	10
1440	2159	200 362 23	45,9	20	10
1600	2319	200 362 24	47,6	20	10
1760	2479	200 362 25	48,4	20	10
1920	2639	200 362 26	50,2	20	10
2080	2799	200 362 27	52,0	20	10
2240	2959	200 362 28	53,8	20	10
2400	3119	200 362 29	55,6	20	10
2560	3279	200 362 30	57,4	20	10
2720	3439	200 362 31	59,2	20	10
2880	3599	200 362 32	61,0	20	10

with DIN-Eye Ø 40 for wheel brake 2361 (90/30)					
Dimension		Part No.			
C mm	A mm				
1280	1999	200 362 33	44,1	20	10
1440	2159	200 362 34	45,9	20	10
1600	2319	200 362 35	47,6	20	10
1760	2479	200 362 36	48,4	20	10
1920	2639	200 362 37	50,2	20	10
2080	2799	200 362 38	52,0	20	10
2240	2959	200 362 39	53,8	20	10
2400	3119	200 362 40	55,6	20	10
2560	3279	200 362 41	57,4	20	10
2720	3439	200 362 42	59,2	20	10
2880	3599	200 362 43	61,0	20	10

Overrun Devices square with straight drawbar 2.500 – 3.500 kg

Technology

Type 2,8 VB/1-C - R35 Version B

GA 2.500–3.500 kg

Permitted max. nose load 150 kg

Adjustable overrun lever:

Yes Non

EC-Test Number:

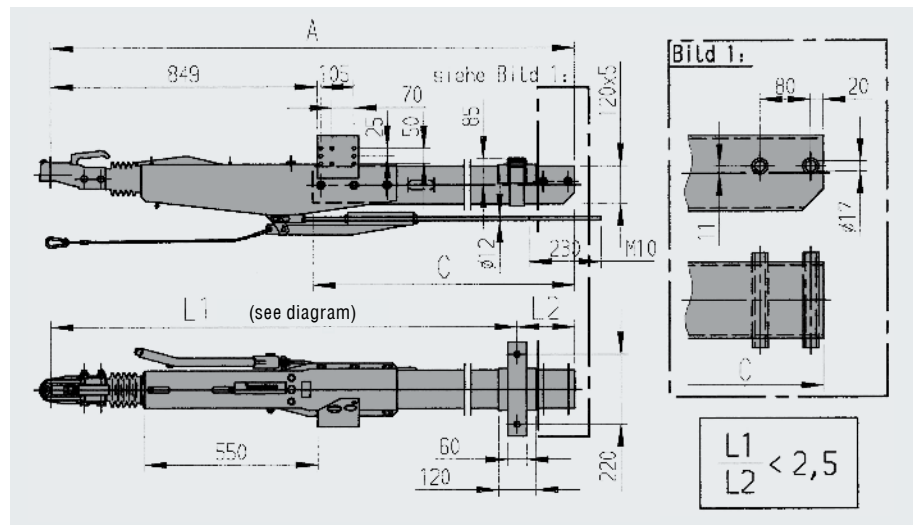
Complete assy: e1 00-0378

Overrun device: 361 316 83

Drawbar: e1 00-0762

max. free drawbar length

at GA 3500 kg: 1820 mm



*diagram see index (contents)



Range Overview

with coupling AK 351 for wheel brake 2051 / 2361 (90/32)

Dimension		Part No.				
C mm	A mm					
980	1815	200 363 50	47,0	-	20	10
1140	1975	200 363 51	49,6	-	20	10
1300	2135	200 363 52	52,2	-	20	10
1460	2295	200 363 53	54,8	-	20	10
1620	2455	200 363 54	57,4	-	20	10
1780	2615	200 363 55	60,0	-	20	10
1940	2775	200 363 56	62,6	-	20	10
2100	2935	200 363 57	65,2	-	20	10
2260	3095	200 363 58	67,8	-	20	10
2420	3255	200 363 59	70,4	-	20	10
2580	3415	200 363 60	73,0	-	20	10
2740	3575	200 363 61	75,6	-	20	10
2900	3735	200 363 62	78,2	-	20	10

with coupling AK 351 for wheel brake 3081

on demand

Overrun Devices square

with straight drawbar 2.500 bis 3.500 kg without coupling

Technology

Type 2,8 VB/1-C - R35 Version B

GA 2.500–3.500 kg

Permitted max. nose load 150 kg

Adjustable overrun lever:

Yes Non

EC-Test Number:

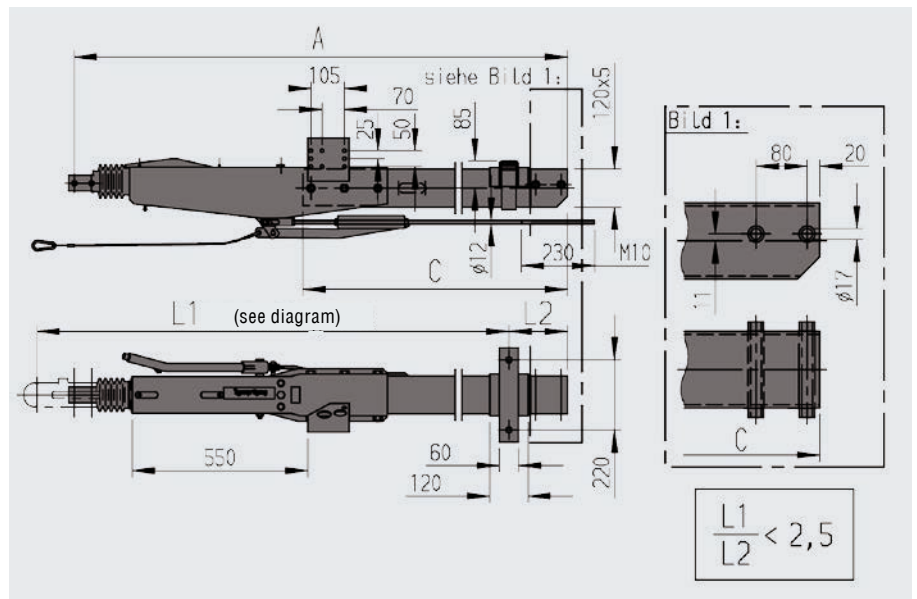
Complete assy: e1 00-0378

Overrun device: 361 316 83

Drawbar: e1 00-0762

max. free drawbar length

at GA 3500 kg: 1820 mm



*diagram see index (contents)

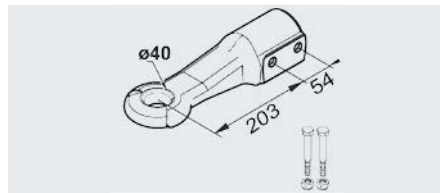


Range Overview

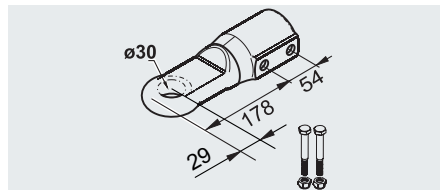
without coupling for wheelbrake 2051 / 2361 (90/32)						
Dimension		Part No.				
C mm	A mm					
980	1700	200 363 63	45,4	-	20	10
1140	1860	200 363 64	48,0	-	20	10
1300	2020	200 363 65	50,6	-	20	10
1460	2180	200 363 66	53,2	-	20	10
1620	2340	200 363 67	55,8	-	20	10
1780	2500	200 363 68	58,4	-	20	10
1940	2660	200 363 69	61,0	-	20	10
2100	2820	200 363 70	63,6	-	20	10
2260	2980	200 363 71	66,2	-	20	10
2420	3140	200 363 72	68,8	-	20	10
2580	3300	200 363 73	71,4	-	20	10
2740	3460	200 363 74	74,0	-	20	10
2900	3620	200 363 75	76,6	-	20	10

Fitting eye ends

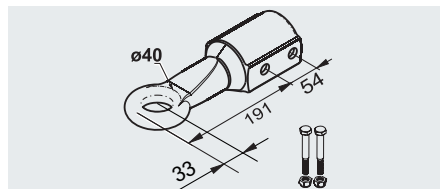
Range Overview



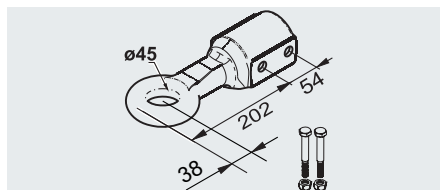
Eye end DIN D40/G	
Part No.	1 224 114
Fitting for	351VB, AE Profi V3500,
AE Type	AE steel 2,8 VB/1 V + square
	4,2 kg



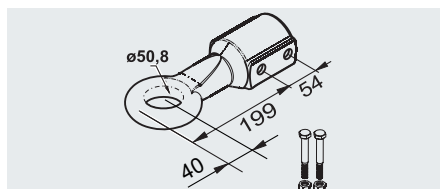
Eye end UK E30/B	
Part No.	1 224 112
Fitting for	351VB, AE Profi V3500,
AE Type	AE steel 2,8 VB/1 V + square
	3,9 kg



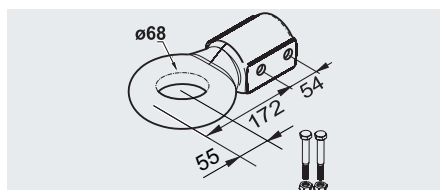
Eye end UK E40/B	
Part No.	1 224 113
Fitting for	351VB, AE Profi V3500,
AE Type	AE steel 2,8 VB/1 V + square
	4,1 kg



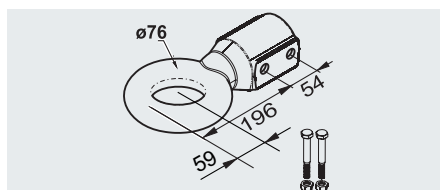
Eye end Italy 145/G	
Part No.	1 224 115
Fitting for	351VB, AE Profi V3500,
AE Type	AE steel 2,8 VB/1 V + square
	4,2 kg



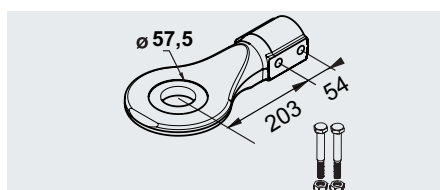
Eye end UK E50/B	
Part No.	1 224 116
Fitting for	351VB, AE Profi V3500,
AE Type	AE steel 2,8 VB/1 V + square
	4,7 kg



Eye end French F68/F	
Part No.	1 224 117
Fitting for	351VB, AE Profi V3500,
AE Type	AE steel 2,8 VB/1 V + square
	6,0 kg







Eye end Nato N76/F	
Part No.	1 224 118
Fitting for	351VB, AE Profi V3500,
AE Type	AE steel 2,8 VB/1 V + square
	6,4 kg






Zugöse Schweden VBG 57,5	
Part No.	1 225 077
Fitting for	351VB, AE Profi V3500
AE Type	AE 2,8 VB/1-C
	7,7 kg

Overrun Devices square without drawbar 450 – 1.000 kg

Range Overview

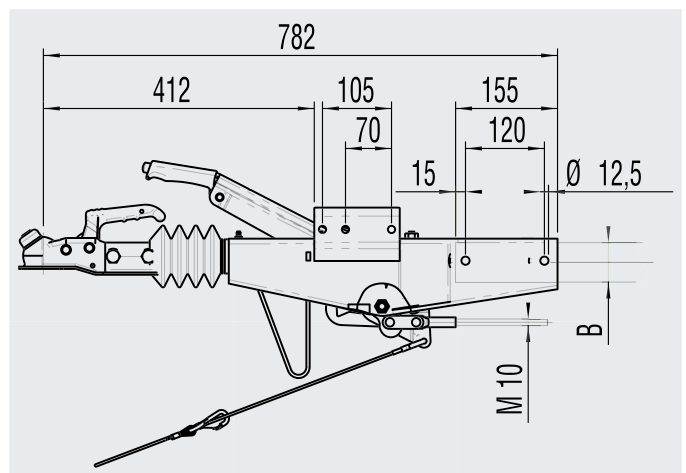
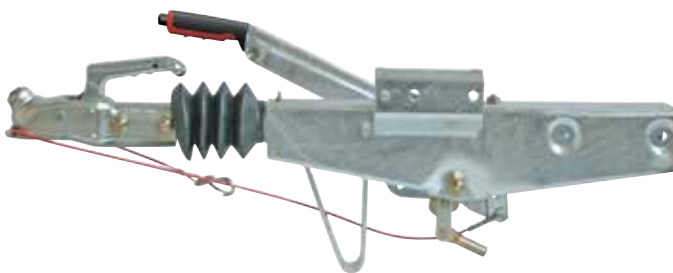
AE VKT 60S/2 and 90S/3 with AK 160										
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Dim. B \square mm	Adjustable overrun lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type		 	
249 847	60S/2	450 - 750	75	60	no	1636G / 1637	AK 160	10	- 50	2





Contents

-  Overrun device (See illustr.)
-  Plug holder (loose)
-  Operating instructions (loose)




EC-Test Number

Towing device	Overrun device
00-0234	150-98-07



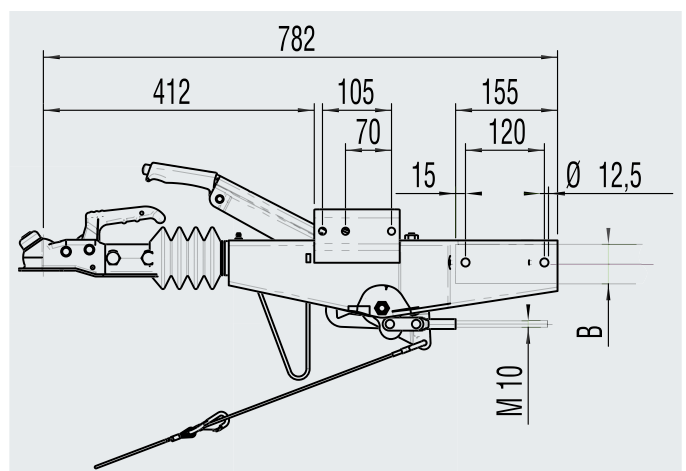
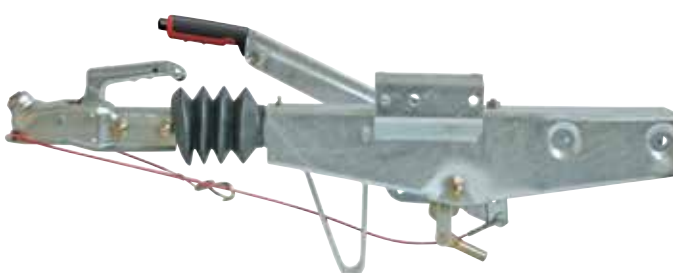
AE VKT 60S/2 with AK 160										
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Dim. B \square mm	Adjustable overrun lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type		 	
249 848	60S/2	450 - 750	75	70	no	1636G / 1637	AK 160	11	- 50	20

Contents





-  Overrun device (See illustr.)
-  Plug holder (loose)
-  Operating instructions (loose)

EC-Test Number

Towing device	Overrun device
00-0234	150-98-07



Range Overview

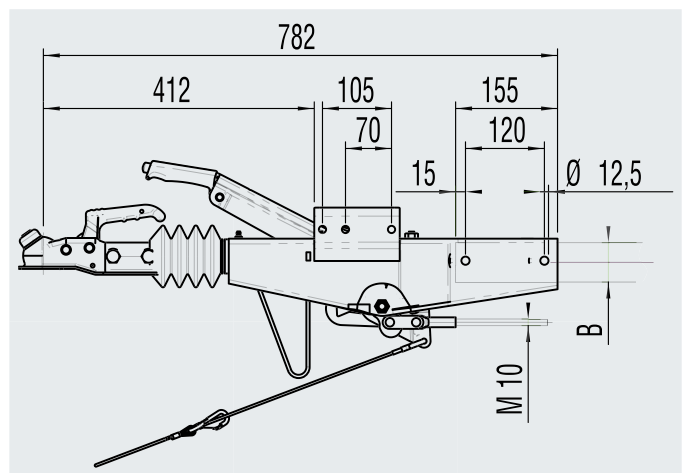
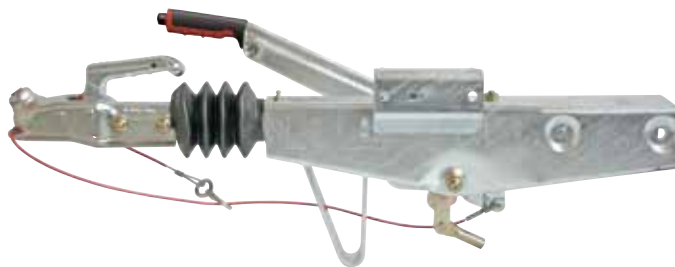
AE VKT 90S/3 with AK 160											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Dim. B \square mm	Adjustable overrun lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
249 268	90S/3	750 - 1000	75	60	no	1637 / 2051	AK 160	11	-	50	2





Contents

- I Overrun device (See illustr.)
- I Plug holder (loose)
- I Operating instructions (loose)

EC-Test Number

Towing device	Overrun device
00-0233	150-55-35



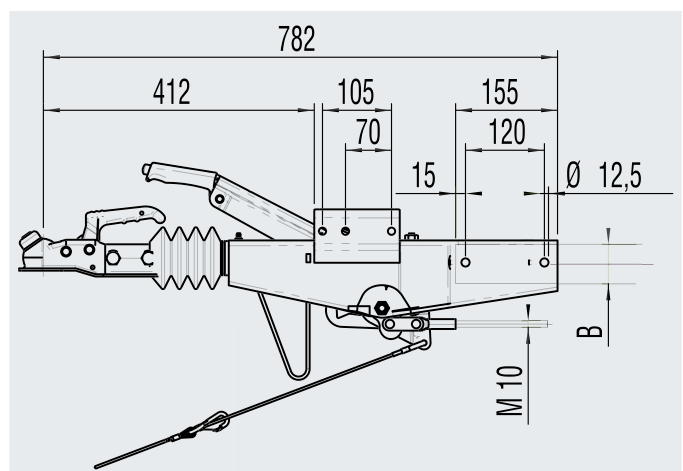
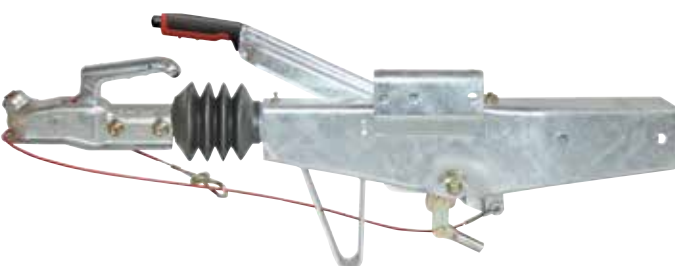
AE VKT 90S/3 with AK 160											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Dim. B \square mm	Adjustable overrun lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
249 269	90S/3	700 - 1000	75	70	no	1637 / 2051	AK 160	11	-	50	2

Contents

- I Overrun device (See illustr.)
- I Plug holder (loose)
- I Operating instructions (loose)




EC-Test Number

Towing device	Overrun device
00-0233	150-55-35






Overrun Devices square without drawbar 950 – 1.600 kg

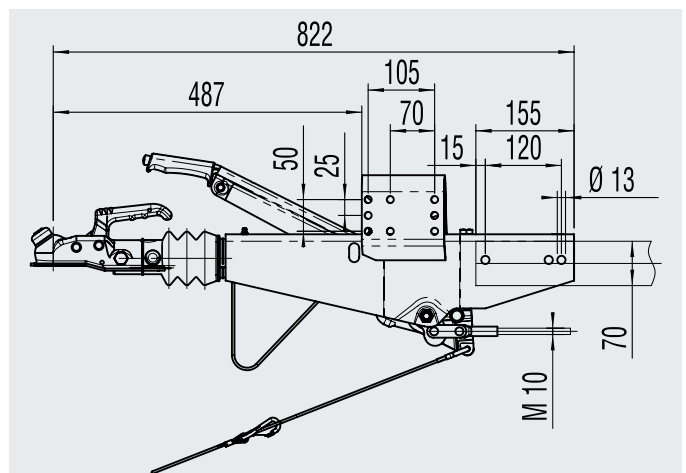
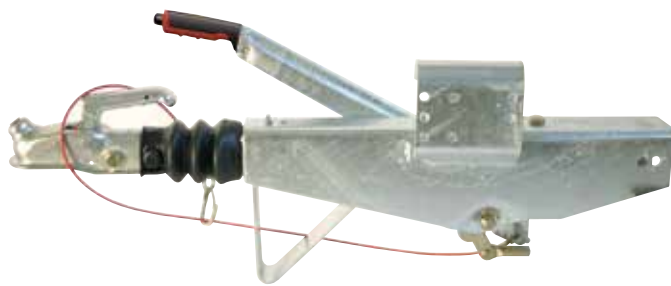
Range Overview





AE VKT 161S with AK 160 VKT70											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Dim. B \square mm	Adjustable overrun lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
247 685	161S	950 - 1600	100	70	no	1636G / 1637 / 2051	AK 160	15	-	40	2
249 270	161S	950 - 1600	100	70	no	2361	AK 160	15	-	40	2

Contents




-  Overrun device (See illustr.)
-  Plug holder (loose)
-  Operating instructions (loose)

EC-Test Number	
Towing device	Overrun device
00-0267	361-284-83

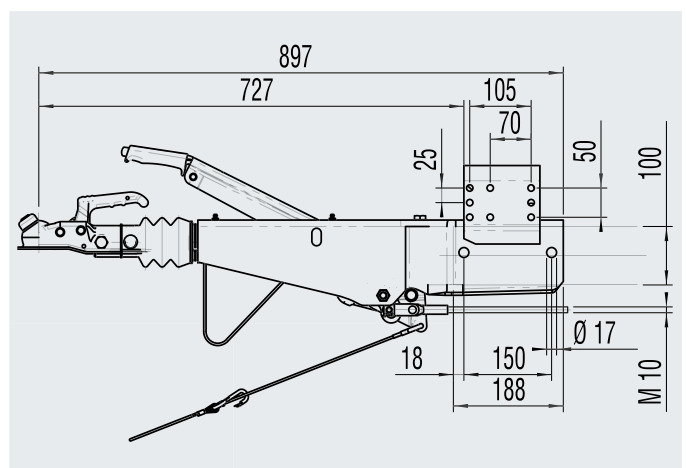


AE VKT 161S with AK 160 VKT 100											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Dim. B \square mm	Adjustable overrun lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
247 686	161S	950 - 1600	100	100	yes	1637 / 2051	AK 160	16	-	40	2
249 271	161S	950 - 1600	100	100	yes	2361	AK 160	16	-	40	2





Contents

-  Overrun device (See illustr.)
-  Plug holder (loose)
-  Operating instructions (loose)




EC-Test Number	
Towing device	Overrun device
00-0267	361-284-83



Range Overview

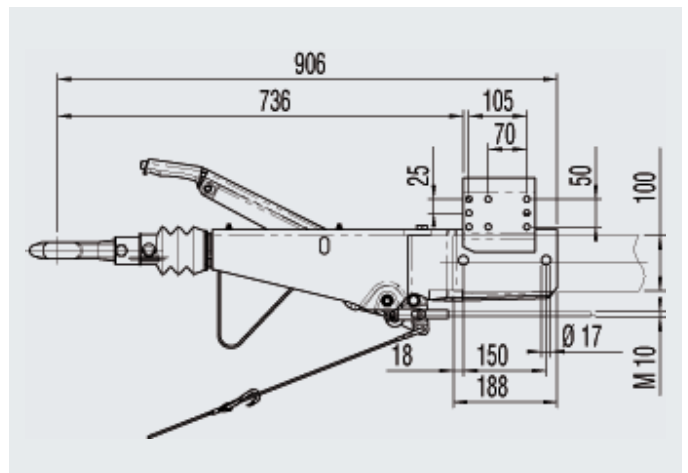
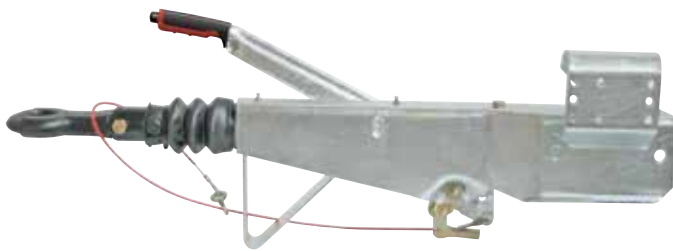
AE VKT 161S with DIN-Eye											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Dim. B \square mm	Adjustable overrun lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
299 416	161S	950 - 1600	100	100	yes	1637 / 2051	DIN-Eye	17	-	40	20
242 958	161S	950 - 1600	100	100	yes	2361	DIN-Eye	17	-	40	20

Contents

-  Overrun device (See illustr.)
-  Plug holder (loose)
-  Operating instructions (loose)




EC-Test Number

Towing device	Overrun device
00-0267	361-284-83



Overrun Devices square without drawbar 1.500 – 2.600 kg

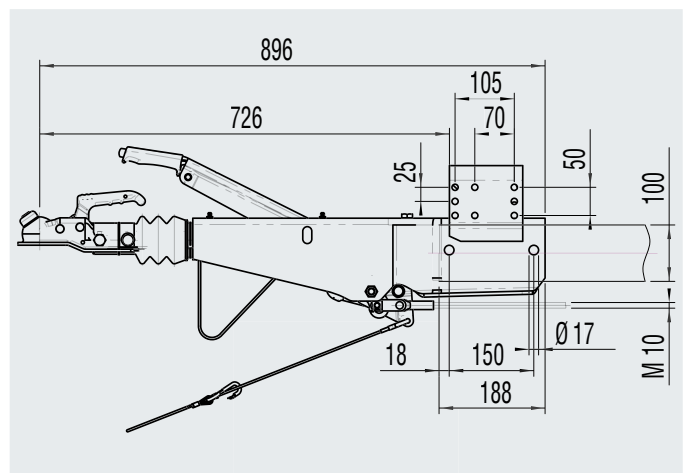
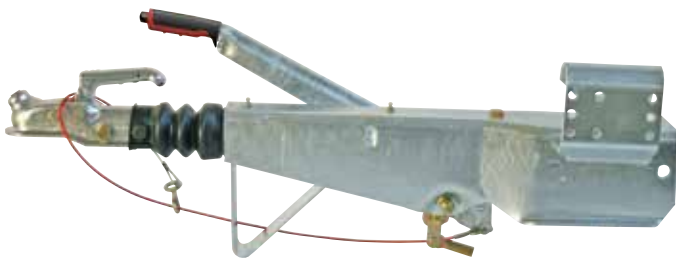
Range Overview




AE VKT 251S with AK 300										
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Dim. B □ mm	Adjustable overrun lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type			
247 687	251 S	1500 - 2600	100	100	yes	1637 / 2051	AK 300	20	-	25
249 273	251 S	1500 - 2600	100	100	yes	2361	AK 300	20	-	25

Contents

- ! Overrun device (See illustr.)
- ! Plug holder (loose)
- ! Operating instructions (loose)

EC-Test Number	
Towing device	Overrun device
00-0268	361-303-83

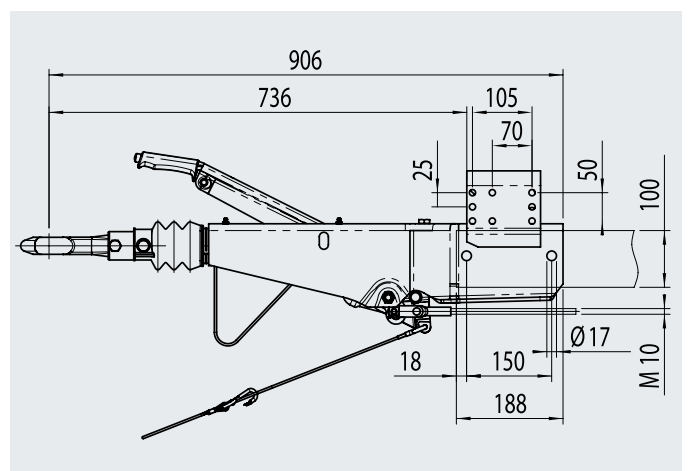
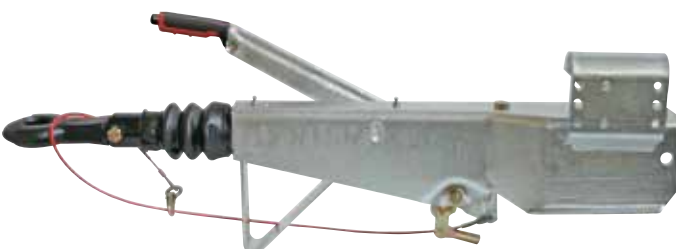


AE VKT 251S with DIN-Eye										
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Dim. B □ mm	Adjustable overrun lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type			
240 010	251 S	1500 - 2600	100	100	yes	1637 / 2051	DIN-Eye	21	-	25
242 960	251 S	1500 - 2600	100	100	yes	2361	DIN-Eye	21	-	25

Contents





- ! Overrun device (See illustr.)
- ! Plug holder (loose)
- ! Operating instructions (loose)

EC-Test Number	
Towing device	Overrun device
00-0268	361-303-83



Overrun Devices square without drawbar 2.500 – 3.500 kg

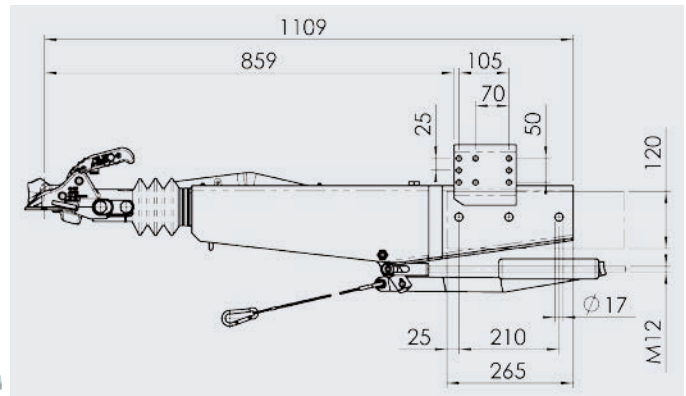
Range Overview





AE VKT 2,8 VB with coupling AK 351											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	VKT-tube fitting \square	Adjustable overrun lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
1 251 581	2,8VB1/-C	2.500 - 3.500	150	120 x 120	no	2051 / 2361	AK 351	31	-	10	2
1 251 579	2,8VB1/-C	2.500 - 3.500	150	120 x 120	no	3062 / 3081	AK 351	31	-	10	20

Contents

- ! Overrun device (See illustr.)
- ! Plug holder (loose)
- ! Operating instructions (loose)

EC-Test Number	
Towing device	Overrun device
00-0378	361-316-83

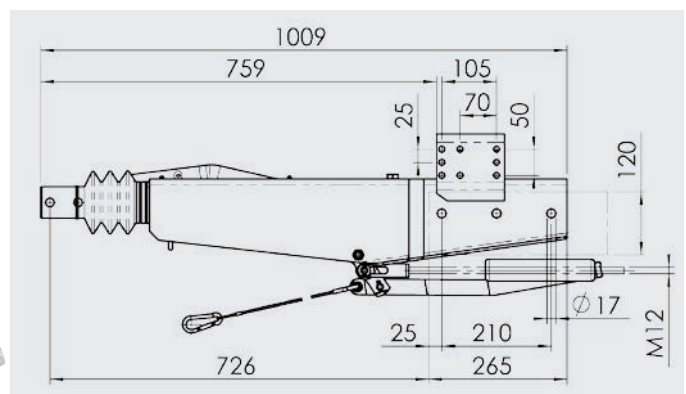


AE VKT 2,8 VB without coupling (fitting couplinas for eye ends see contents)											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	VKT-tube fitting \square	Adjustable overrun lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
1 251 621	2,8VB1/-C	2.500 - 3.500	150	120 x 120	no	2051 / 2361	without	28	-	10	2
1 251 576	2,8VB1/-C	2.500 - 3.500	150	120 x 120	no	3062 / 3081	without	28	-	10	20

Contents

- ! Overrun device (See illustr.)
- ! Plug holder (loose)
- ! Operating instructions (loose)

EC-Test Number	
Towing device	Overrun device
00-0378	361-316-83



Overrun Device square – diagram to determine max. free drawbar length

Straight Design

Diagram Type R4 Version B3

Square 60x60x4

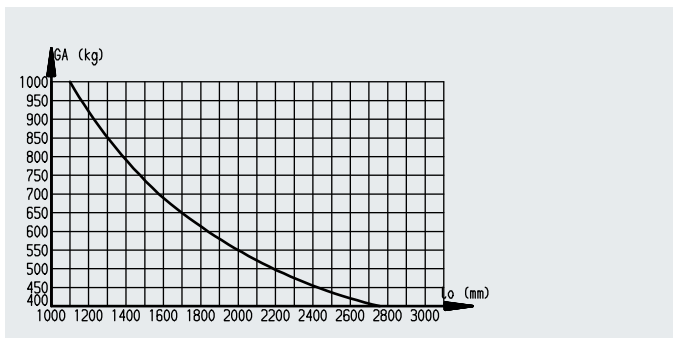


Diagram Type R16 Version A

Square 70x70x4

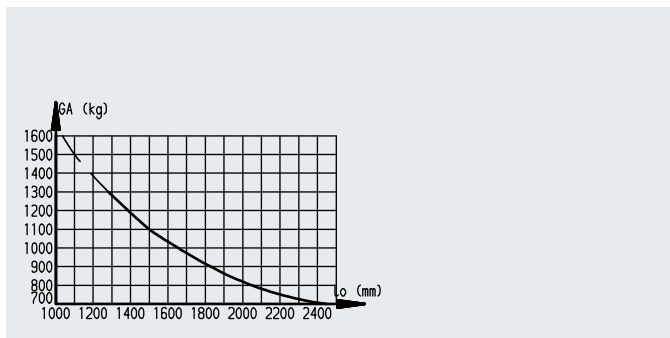


Diagram Type R26 Version A

Square 100x100x4

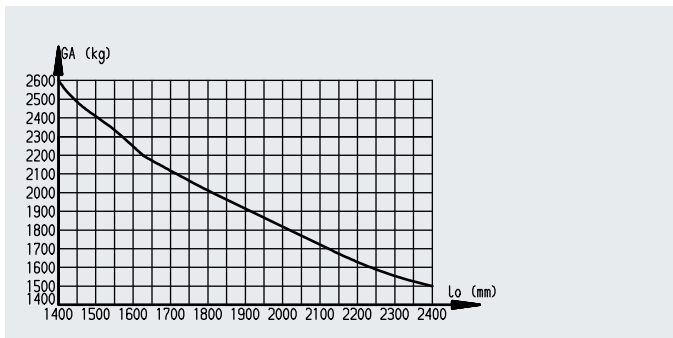
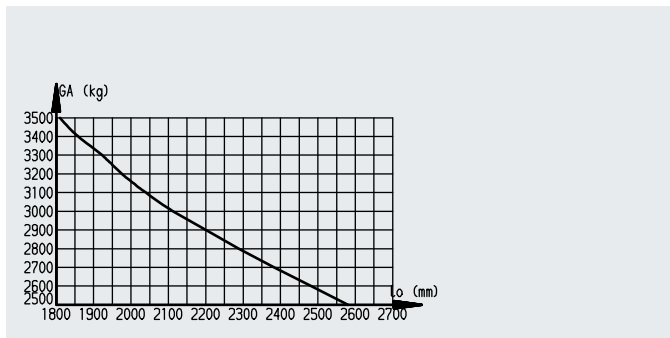


Diagram Type R35 Version B

Square 120x120x5



Cranked Design

Diagram Type K16

Square 70x70x5

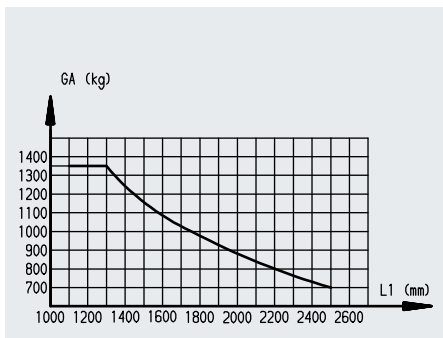


Diagram Type K26 Version A

Square 100x100x4

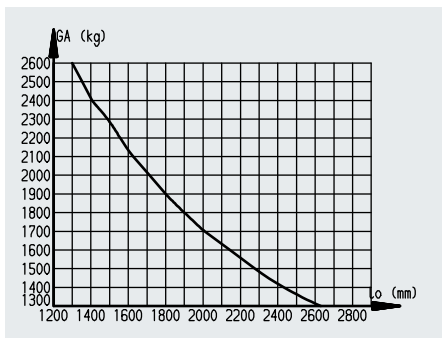
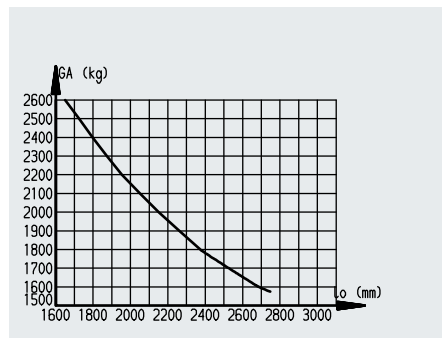


Diagram Type K26 Version B

Square 100x100x5



Overrun Device square Saddle brackets

AL-KO

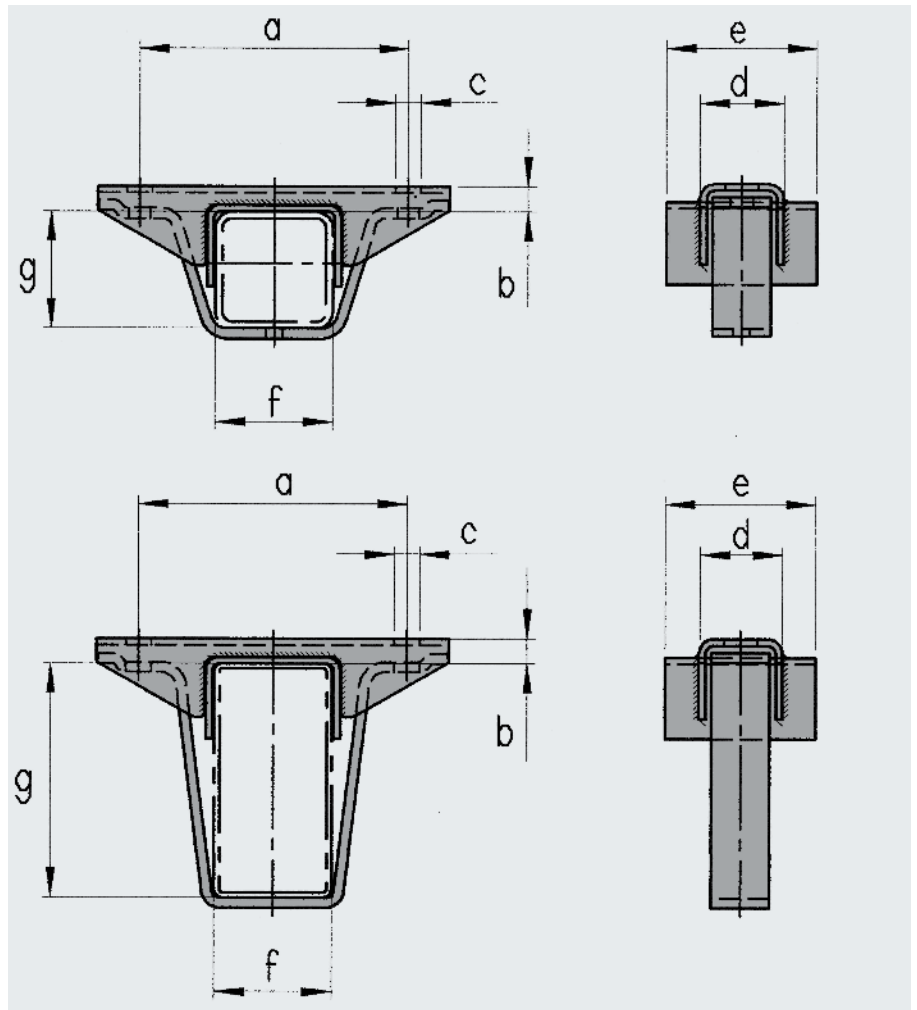
QUALITY FOR LIFE

Contents

Mount with clamping skid
(fixing bolts not included)

Surface Treatment

Hot dip galvanised



Range Overview

Part No.	for Drawbar tube see Sketch dims. f and g in mm	Dims. a mm	Dims. b mm	Dims. c mm	Dims. d mm	Dims. e mm			
249 317	60 x 60	160	15	13	50	–	0,9	350	2
247 657	70 x 70	160	15	13	50	90	1,1	350	2
1 211 104	70 x 140	160	15	15	50	90	1,5	150	2
1 210 617	80 x 140	160	15	15	60	100	1,6	150	2
247 638	100 x 100	160	21	13	60	100	1,6	150	2
1 211 105	100 x 160	200	25	17	60	120	1,8	150	2
1 210 475	120 x 120	220	25	17	60	120	1,8	150	2
1 211 106	120 x 160	220	25	17	60	120	2,0	150	2

Overrun Device Delta

✔ Your Advantage

- | Gas strut handbrake lever with automatic rearwards adjustment
- | with breakaway cable guide
- | With adjustable overrun lever (see range for applicable models)
- | Easy retrofit of accessories

📦 Contents

- | plug holder
- | breakaway cable
- | operating instructions

🏠 Surface Treatment

- | Housing and drawbar profile hot dip galvanised



Overrun lever (adjustable)

wheel brake Type 2361

wheel brake Type 3062/3081

wheel brake Type 1636 G, 1637, 2051

Adjustable for the following AL-KO brake types: 1637, 2051, 1636 G, 2361, 3062, 3081

Lozenge

position the lozenge with the arrow in the overrun lever to suit brake type specified!

📦 Accessories for couplings

Safety Compact



Soft-Dock



Shackle Lock



Safety-Ball



General Advice

| Combine AL-KO overrun devices with AL-KO wheel brake

AL-KO overrun devices meet the latest EC-instructions it may combine only with the corresponding AL-KO wheel brakes. Please note that the braking system does not work with other combination.

| **Exceeded nose loads** result to increased friction of the bearings and moving parts. Following that the breaking performance will decrease. Please keep the recommended nose loads .

| Type plate

Type plates may not be covered by priming, paint or covers.

| Reinforced overrun devices

For lorries, busses or towing vehicles with hard self-damping, the overrun devices, drawbars and couplings must be stronger versions. Please ask for it.

Warning!

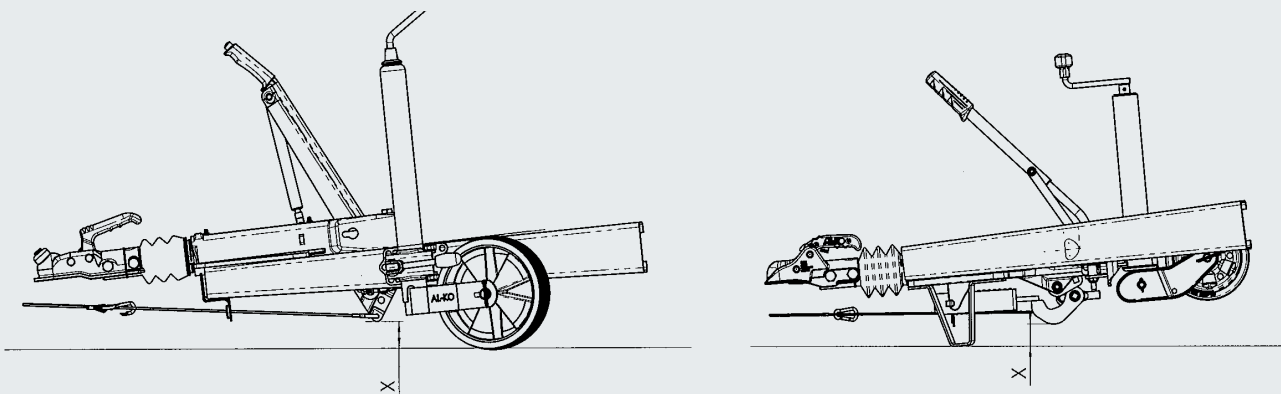
Important information about emergency brake (safety brake)

The vehicle manufacturer is responsible for the design and function of the safety brake. Certain prerequisites must be taken into consideration when constructing the trailer in order for the breakaway cable to work properly in an emergency.

1. A breakaway cable guide must ensure that the breakaway cable is guided correctly.

There must be a fixed cable guide, so that the breakaway cable can activate the hand brake lever in an emergency (see page 66/67).

AL-KO therefore recommends the trailer manufacture to fit an appropriate cable guide (see page 66/67) and to mention it in the manual for the trailer in order to find out how to use it properly.



2. The hand brake lever may not touch down to the ground in an emergency

You must ensure that the hand brake lever remains mobile after being activated by the breakaway cable (closed hand brake) in an emergency. The emergency brake would not function if the hand brake touches down to the ground. For this reason, you must ensure necessary ground clearance enough room.

AL-KO recommends that you check that there is enough ground clearance when the hand brake lever is pulled to its full extent (activated emergency brake) and implement additional measures (e.g. fitting a skid bracket) if necessary.




Overrun Device Delta

450 – 1.600 kg

Range Overview

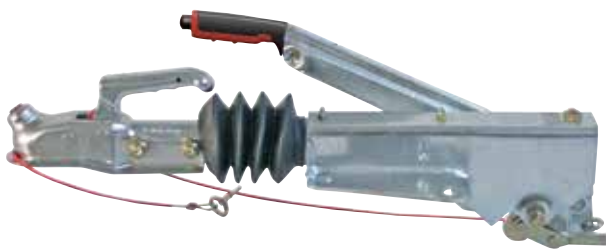
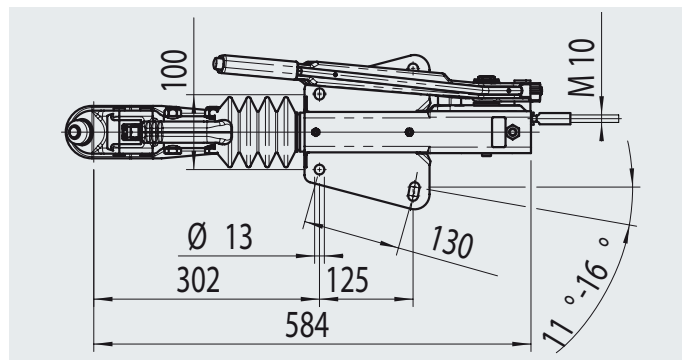
AE V 60S/2 and 90S/3 with AK 160											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Mounting on A-Frame	Overrun adjustable lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
249 367	60S/2	450 - 750	75	top	no	1636G / 1637	AK 160	9	-	50	2
249 212	90S/3	700 - 1000	75	top	no	1636G / 1637 / 2051	AK 160	9	-	50	2

Contents

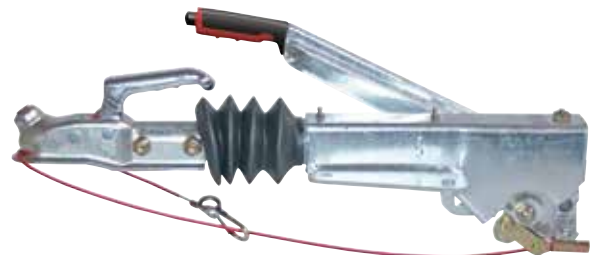
-  Overrun device (See illustr.)
-  Plug holder (loose)
-  Operating instructions (loose)

EC-Test Number 60S/2 (249 367)	
Towing device	Overrun device
00-0225	150.9807





EC-Test Number 90S/3 (249 367)	
Towing device	Overrun device
00-0226	150.5535






Part No. 249 367



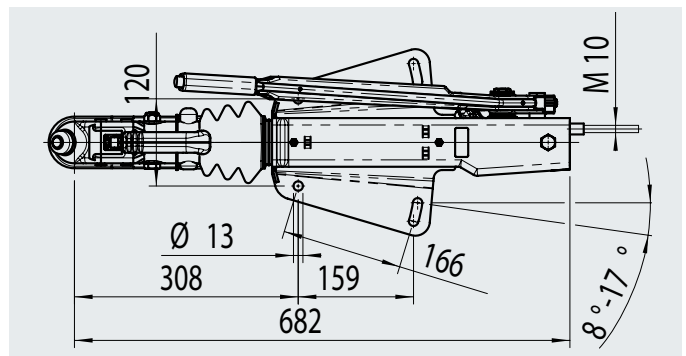
Part No. 249 212

AE V 161S with AK 160											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Mounting on A-Frame	Overrun adjustable lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
247 661	161 S	950 - 1600	100	top	no	1637 / 2051	AK 160	12	-	40	2
249 215	161 S	950 - 1600	100	top	no	2361	AK 160	12	-	40	2



Contents

-  Overrun device (See illustr.)
-  Plug holder (loose)
-  Operating instructions (loose)

EC-Test Number	
Towing device	Overrun device
00-0229	361-284-83



Range Overview

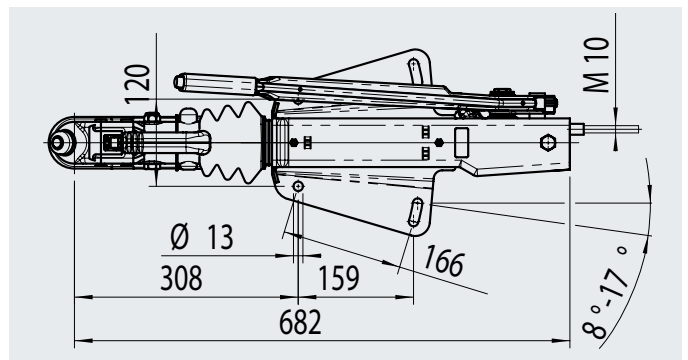
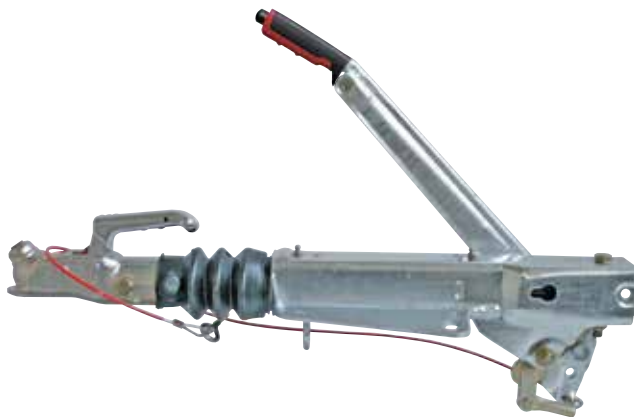
AE V 161S with AK 160											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Mounting on A-Frame	Overrun adjustable lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
249 214	161 S	950 - 1600	100	bottom	no	1637 / 2051	AK 160	12	-	20	2
249 217	161 S	950 - 1600	100	bottom	no	2361	AK 160	12	-	20	2



Contents

- I Overrun device (See illustr.)
- I Plug holder (loose)
- I Operating instructions (loose)

EC-Test Number

Towing device	Overrun device
00-0229	361-284-83



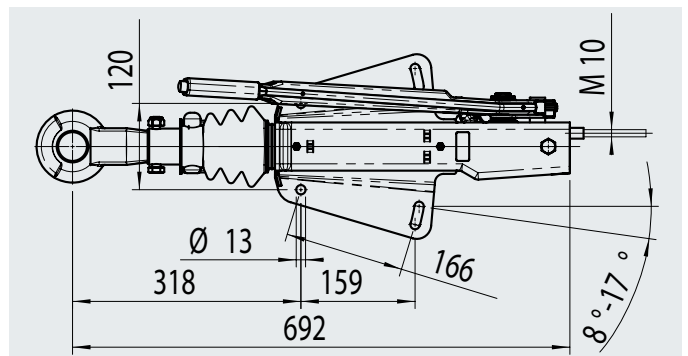
AE V 161S with DIN-Eye											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Mounting on A-Frame	Overrun adjustable lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
299 319	161 S	950 - 1600	100	top	no	1637 / 2051	DIN-Eye	14	-	40	2
242 935	161 S	950 - 1600	100	top	no	2361	DIN-Eye	14	-	40	2

Contents

- I Overrun device (See illustr.)
- I Plug holder (loose)
- I Operating instructions (loose)

EC-Test Number





Towing device	Overrun device
00-0229	361-284-83



Overrun Device – Delta

1.500 – 2.700 kg

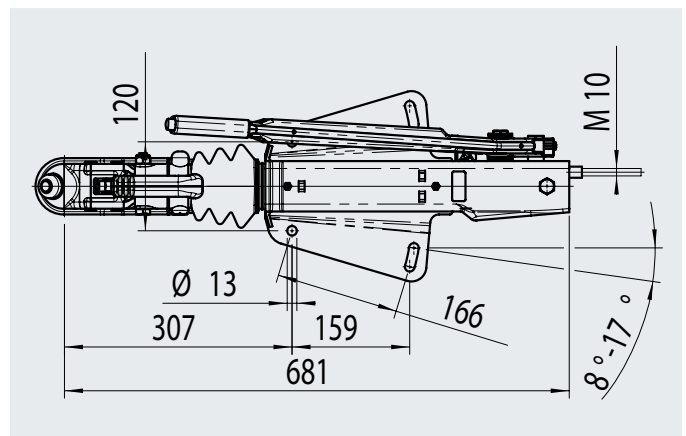
Range Overview





AE V 251S with AK 300											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Mounting A-Frame	Overrun adjustable lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
247 581	251S	1500 - 2700	120	top	yes	1637 / 2051	AK 300	14	-	40	2
249 220	251S	1500 - 2700	120	top	yes	2361	AK 300	14	-	40	20
249 223	251S	1500 - 2700	120	top	yes	3062 / 3081	AK 300	14	-	40	20

Contents

- I Overrun device (See illustr.)
- I Plug holder (loose)
- I Operating instructions (loose)

EC-Test Number	
Towing device	Overrun device
00-0227	361-303-83

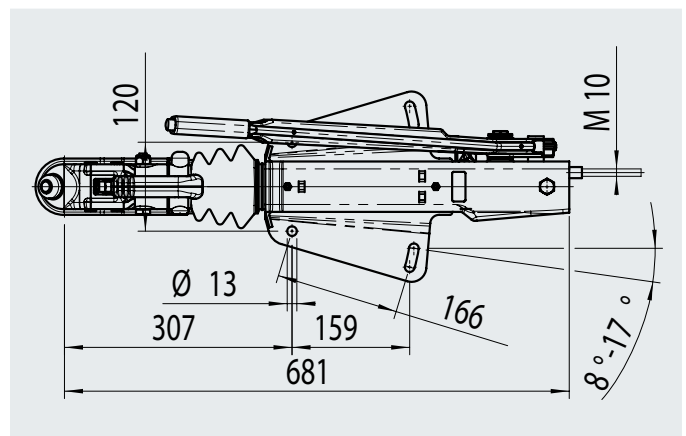
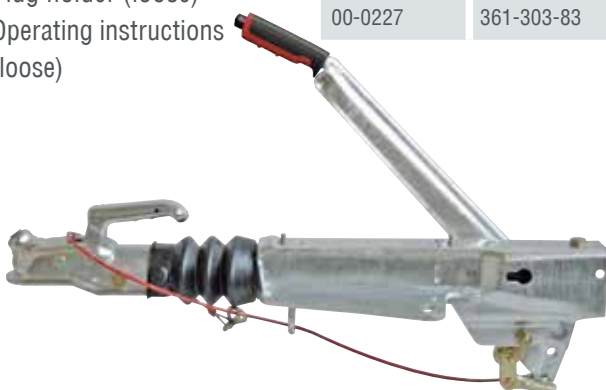


AE V 251S with AK 300											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Mounting A-Frame	Overrun adjustable lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
249 219	251S	1500 - 2700	120	bottom	yes	1637 / 2051	AK 300	14	-	40	2
249 222	251S	1500 - 2700	120	bottom	yes	2361	AK 300	14	-	40	20
249 225	251S	1500 - 2700	120	bottom	yes	3062 / 3081	AK 300	14	-	40	20




Contents

- I Overrun device (See illustr.)
- I Plug holder (loose)
- I Operating instructions (loose)

EC-Test Number	
Towing device	Overrun device
00-0227	361-303-83



Range Overview

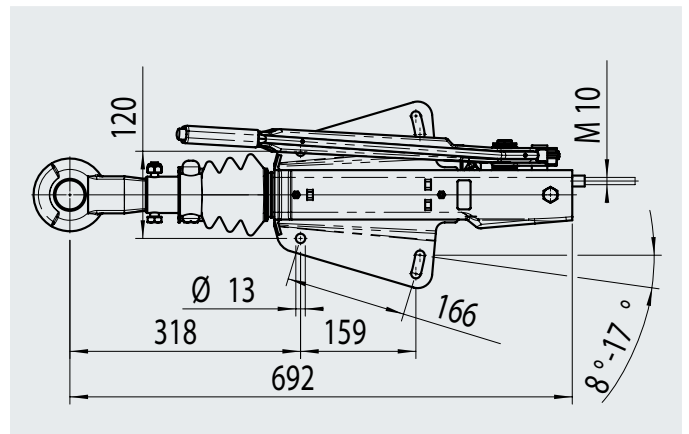
AE V 251S with DIN-Eye										
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Mounting A-Frame	Overrun adjustable lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type			
240 007	251S	1500 - 2700	120	top	yes	1637 / 2051	DIN-Eye	16	-	40
242 942	251S	1500 - 2700	120	top	yes	2361	DIN-Eye	16	-	40
242 938	251S	1500 - 2700	120	top	yes	3062 / 3081	DIN-Eye	16	-	40

Contents

- I Overrun device (See illustr.)
- I Plug holder (loose)
- I Operating instructions (loose)

EC-Test Number





Towing device	Overrun device
00-0227	361-303-83



Overrun Device – Delta

1.500 – 3.000 kg

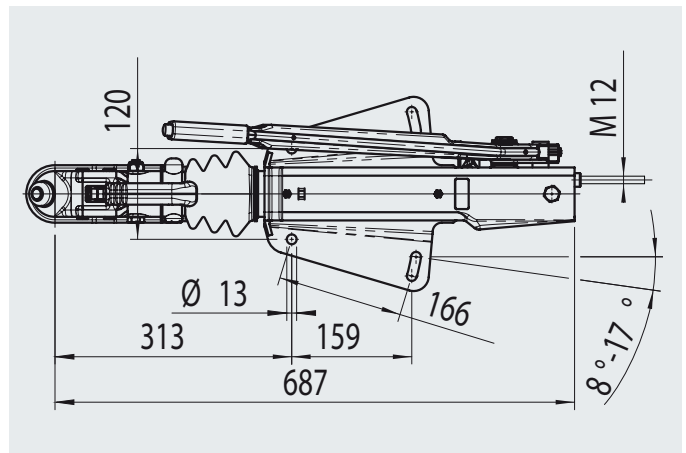
Range Overview





AE V 251S with AK 300											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Mounting A-Frame	Overrun adjustable lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
249 249	251G steel	1500 - 3000	100	top	no	1637 / 2051	AK 300	16	-	40	2

Contents

- | Overrun device (See illustr.)
- | Plug holder (loose)
- | Operating instructions (loose)

EC-Test Number	
Towing device	Overrun device
00-0466	361-035-93

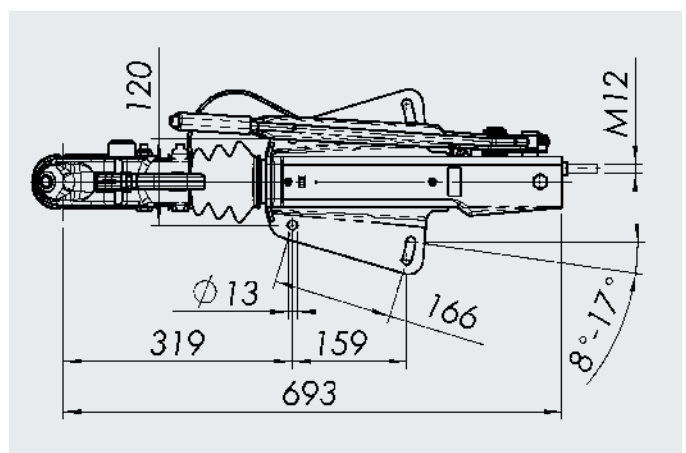


AE V 251G steel with PROFI V AK 301											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Mounting A-Frame	Overrun adjustable lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
1 251 097	251G steel	1500 - 3000	100	top	no	1637 / 2051	AK 301	17	-	40	2
1 251 600	251G steel	1500 - 3000	100	top	no	2361	AK 301	17	-	40	20
1 251 601	251G steel	1500 - 3000	100	top	no	3062 / 3081	AK 301	17	-	40	20





Contents

- | Overrun device (See illustr.)
- | Plug holder (loose)
- | Operating instructions (loose)

EC-Test Number	
Towing device	Overrun device
00-0466	361-035-93



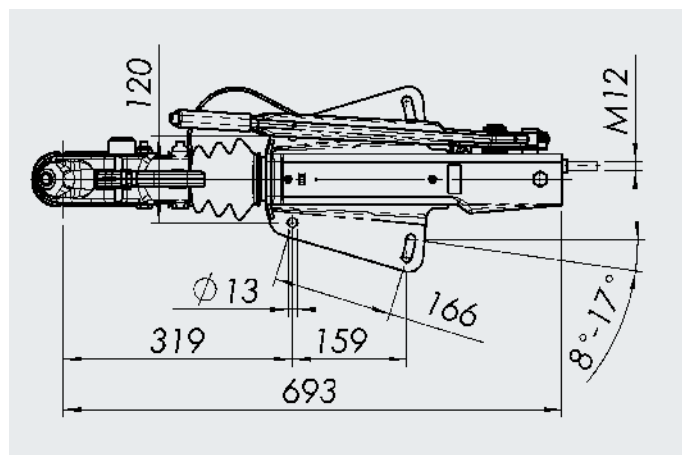
Range Overview





AE V 251G steel with PROFI V AK 301											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Mounting A-Frame	Overrun adjustable lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
1 251 288	251G steel	1500 - 3000	100	bottom	no	1637 / 2051	AK 301	17	-	40	20

Contents

- I Overrun device (See illustr.)
- I Plug holder (loose)
- I Operating instructions (loose)

EC-Test Number	
Towing device	Overrun device
00-0466	361-035-93

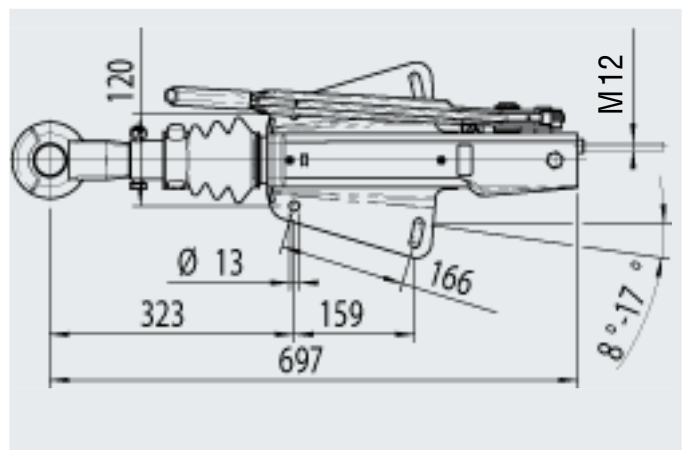


AE V 251G steel with DIN-Eye											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Mounting A-Frame	Overrun adjustable lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
249 250	251G steel	1500 - 3000	100	top	no	1637 / 2051	DIN-Eye	18	-	40	20

Contents

- I Overrun device (See illustr.)
- I Plug holder (loose)
- I Operating instructions (loose)





EC-Test Number	
Towing device	Overrun device
00-0466	361-035-93



Overrun Device – Delta

raised center bracket welded 1.500 – 3.000 kg

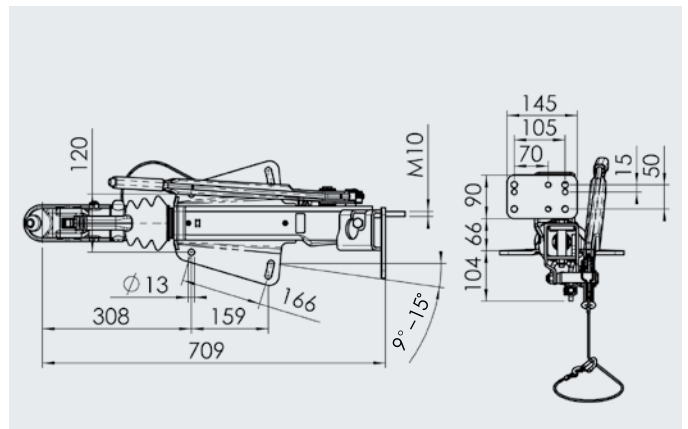
Range Overview





AE V 251S with AK 300, 1500 – 2600 kg											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Mounting A-Frame	Overrun adjustable lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
1 251 436	251S	1500 - 2700	100	top	yes	1637 / 2051	AK 300	18	-	35	2
1 251 738	251S	1500 - 2700	100	bottom	yes	1637 / 2051	AK 300	18	-	35	20
1 251 440	251S	1500 - 2700	100	top	yes	2361	AK 300	18	-	35	20
1 251 739	251S	1500 - 2700	100	bottom	yes	2361	AK 300	18	-	35	20
1 251 441	251S	1500 - 2700	100	top	yes	3062 / 3081	AK 300	18	-	35	20
1 251 740	251S	1500 - 2700	100	bottom	yes	3062 / 3081	AK 300	18	-	35	20

Contents

- Overrun device (See illustr.)
- Plug holder (loose)
- Operating instructions (loose)

EC-Test Number	
Towing device	Overrun device
00-0227	361-303-83

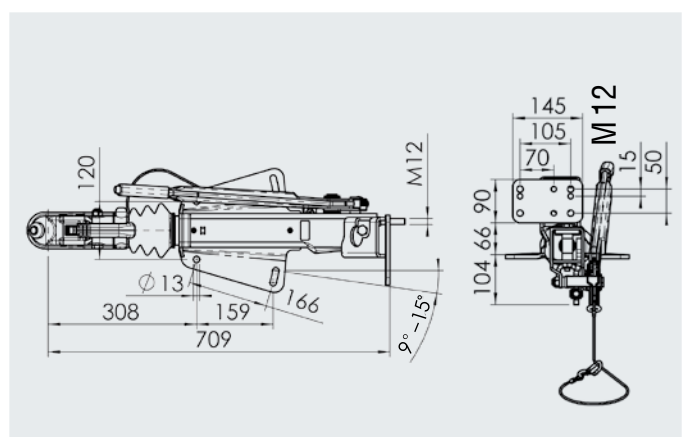


AE V 251G with AK 300, 1500 – 3000 kg											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Mounting A-Frame	Overrun adjustable lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
1 251 437	251G	1500 - 3000	100	top	no	1637 / 2051	AK 300	19	-	35	2

Contents

- Overrun device (See illustr.)
- Plug holder (loose)
- Operating instructions (loose)

EC-Test Number	
Towing device	Overrun device
00-0466	361-035-93



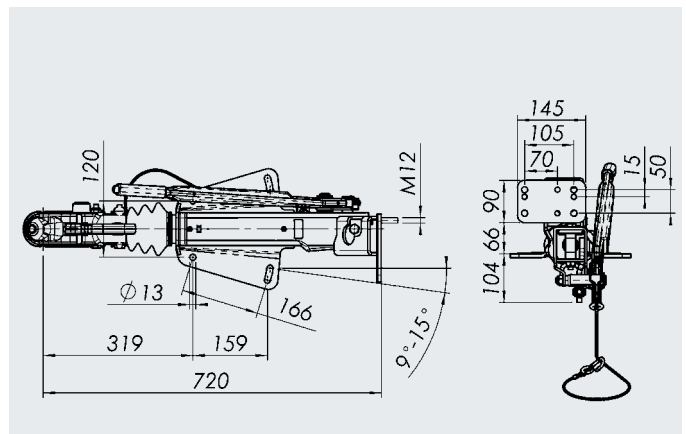
Range Overview

AE V 251G with PROFI V AK 301, 1500 – 3000 kg											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Mounting A-Frame	Overrun adjustable lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
1 251 500	251G	1500 - 3000	100	top	no	1637 / 2051	AK 301	20	-	40	2
1 251 602	251G	1500 - 3000	100	top	no	2361	AK 301	20	-	40	20
1 251 603	251G	1500 - 3000	100	top	no	3062 / 3081	AK 301	20	-	40	20

Contents

- Overrun device (See illustr.)
- Plug holder (loose)
- Operating instructions (loose)





EC-Test Number	
Towing device	Overrun device
00-0466	361-035-93



Overrun Device – Delta

2.500 – 3.500 kg

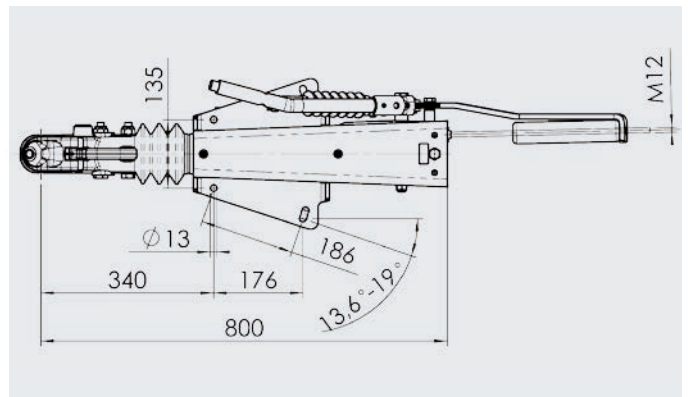
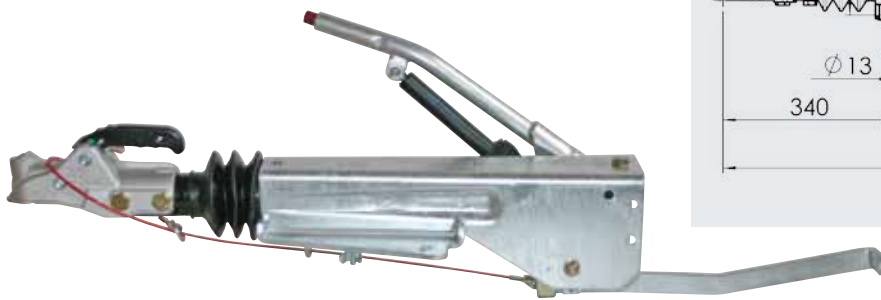
Range Overview





AE V 2,8 VB with coupling AK 351											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Mounting A-Frame	Overrun adjustable lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
1 251 555	2,8VB1/-C	2.500 - 3.500	150	top and bottom	no	2051 / 2361	AK 351	33	-	10	2
1 251 565	2,8VB1/-C	2.500 - 3.500	150	top and bottom	no	3062 / 3081	AK 351	33	-	10	20

Contents

- I Overrun device (See illustr.)
- I Plug holder (loose)
- I Operating instructions (loose)

EC-Test Number	
Towing device	Overrun device
00-0384	361-316-83

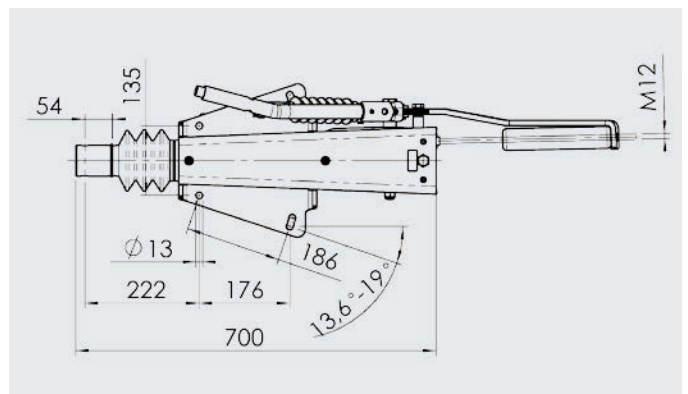
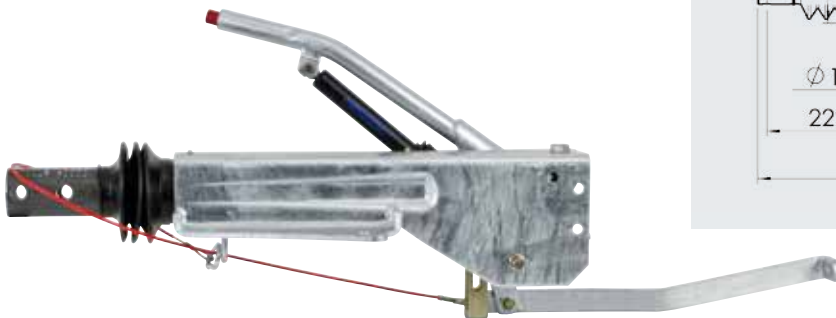


AE V 2,8 VB without coupling) (See index for fitting ball couplings and eye ends)											
Part No.	Type	Total trailer weight kg	Nose load permitted kg	Mounting A-Frame	Overrun adjustable lever	Compatible with AL-KO wheel brake Type	Coupling mounting Type				
1 251 563	2,8VB1/-C	2.500 - 3.500	150	top and bottom	no	2051 / 2361	without	30	-	10	2
1 251 564	2,8VB1/-C	2.500 - 3.500	150	top and bottom	no	3062 / 3081	without	30	-	10	20

Contents

- I Overrun device (See illustr.)
- I Plug holder (loose)
- I Operating instructions (loose)

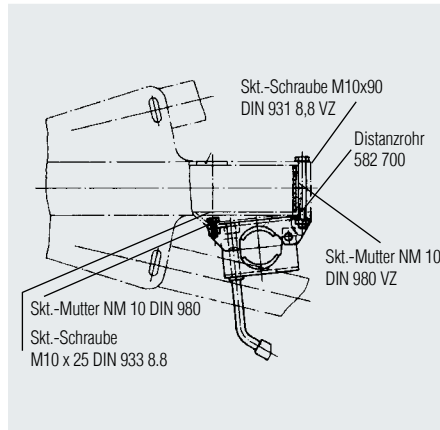
EC-Test Number	
Towing device	Overrun device
00-0384	361-316-83



Accessories for overrun devices Delta

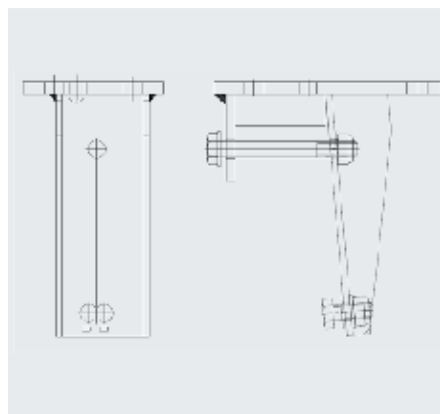


QUALITY FOR LIFE

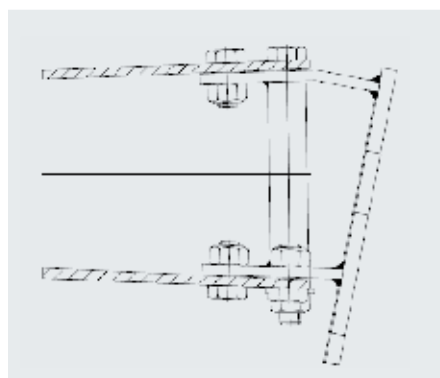


Range Overview

Fitting set clamp carrying weight 150 kg	
Part No.	293 020
For Type	overrun device V-type top mounting 161 S, 251 S, 251 G Steel, 251 G Cast iron
	1 kg
	- 200 pcs



Jockey wheel bracket center mounting carrying weight 300 kg	
Part No.	249 127
For Type	overrun device V-type top mounting 161 S, 251 S, 251 G Steel
For Type	overrun device V-type bottom mounting 251 S
	1 kg
	- 200 pcs

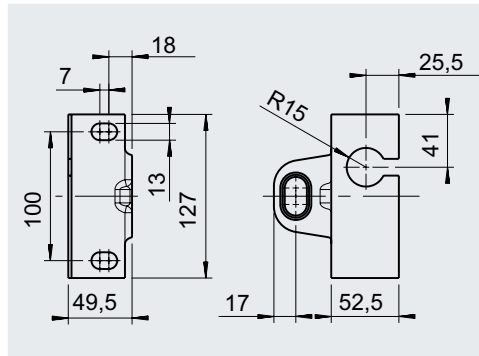


Jockey wheel bracket center mounting carrying weight 500 kg	
Part No.	249 811
For Type	overrun device V-type top- and bottom mounting 2,8 VB/1-C
	1 kg
	- 200 pcs

Overrun Devices

Accessories for overrun devices Delta

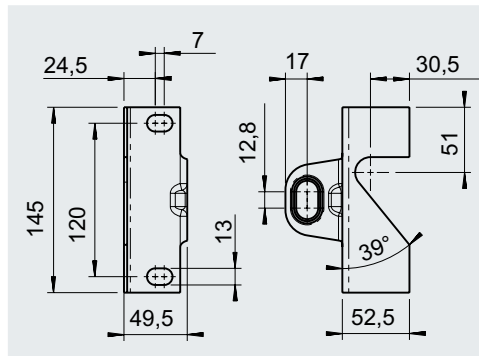
Range Overview



Cover bracket for drawbars

Part No.	207 241 01 04
For Type	Overrun device V-type top mounting 60 S/2, 90 S/3

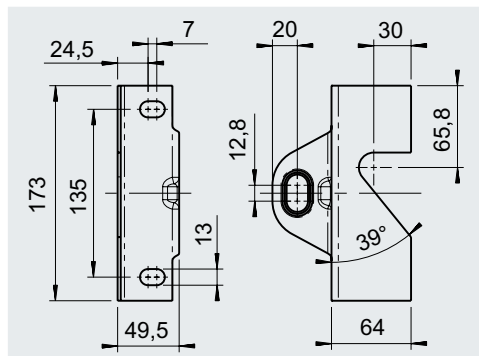
	0,5 kg
	- 200 pcs



Cover bracket for drawbars

Part No.	364 414
For Type	Overrun device V-type top mounting 161 S, 251 S, 251 G steel, 251 G cast iron

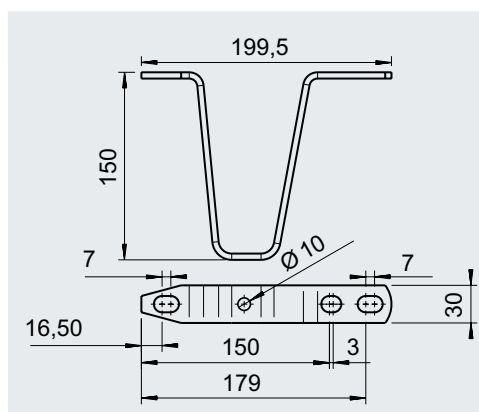
	0,5 kg
	- 200 pcs



Cover bracket for drawbars

Part No.	366 262
For Type	Overrun device V-type top- and bottom mounting 2,8 VB/1-C

	0,5 kg
	- 200 pcs

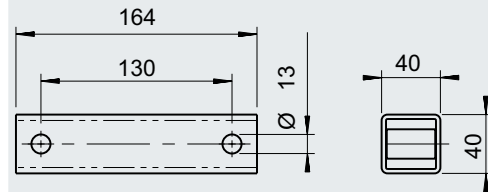


Skid bracket

Part No.	217 132
For Type	Overrun device V-type top mounting 60 S/2, 90 S/3, 161 S, 251 S, 251 G steel, 251 G cast iron
For Type	Overrun device V-type bottom mounting 161 S, 251 S, 251 G steel, 251 G cast iron

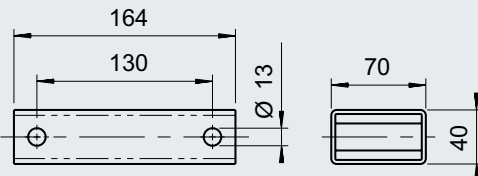
	0,5 kg
	- 200 pcs

Range Overview



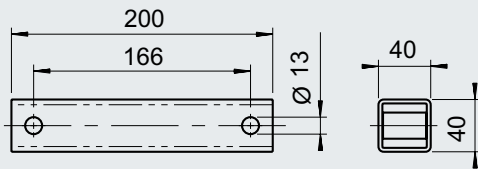
Distance piece high 40 mm

Part No.	623 737
For Type	Overrun device V-type top mounting 60 S/2, 90 S/3
	1 kg
	- 200 pcs



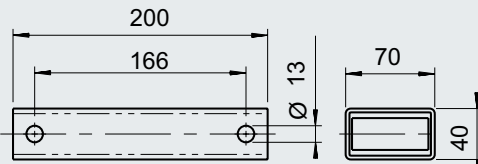
Distance piece high 70 mm

Part No.	1 310 998
For Type	Overrun device V-type top mounting 60 S/2, 90 S/3
	1 kg
	- 200 pcs



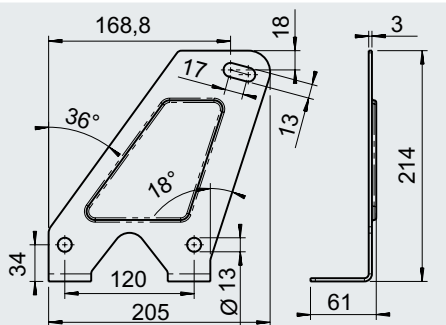
Distance piece high 40 mm

Part No.	375 911
For Type	Overrun device V-type top mounting 161 S, 251 S, 251 G steel, 251 G cast iron
	1 kg
	- 200 pcs



Distance piece high 70 mm

Part No.	623 925
For Type	Overrun device V-type top mounting 161 S, 251 S, 251 G steel, 251 G cast iron
	1 kg
	- 200 pcs



Cover bracket for drawbars

Part No.	238 162 00 02
For Type	Overrun device V-type top mounting 161 S, 251 S, 251 G steel, 251 G cast iron
	1 kg
	- 200 pcs

Breakaway Cable Guides

✓ Your Advantage

! Safety in an emergency!

TUV increasingly tests the function of the breakaway cable (emergency brake) as per § 41, when trailers are in-

spected or given new approval. It is shown that a functioning breakaway cable is dependent on an optimised breakaway cable guide.

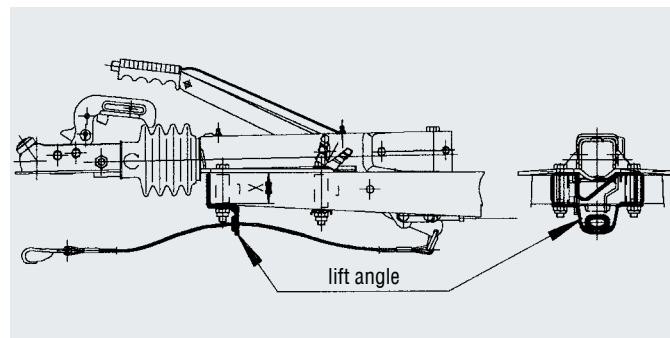
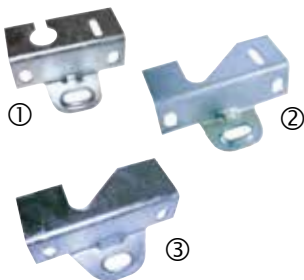
For this reason AL-KO has developed the breakaway cable guide for retro fitment.

1. On top mounting Delta overrun devices

🔧 Fitting/Retrofitting

The cable guide bracket is fixed with a torque setting of 80 +/- 5 Nm (see sketch).

The breakaway cable is then fed through the guide in the bracket.



Range Overview

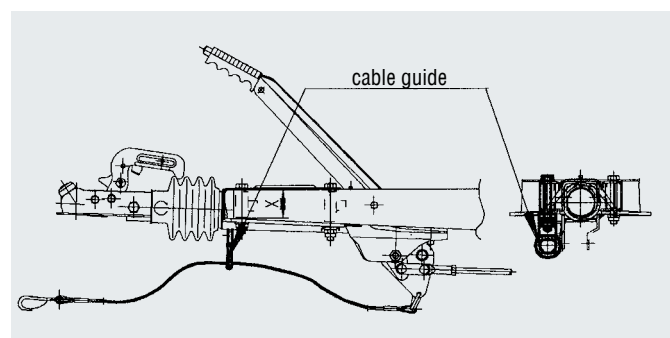
for top mounted Delta overrun devices	
Part No. ①	207 241 01 04
Type	60 S/2, 90 S/3
Part No. ②	364 414
Type	161 S, 251 S, 251 G
Part No. ③	366 262
Type	2,8 VB/1

2. On bottom mounted Delta overrun devices

The cable guide bracket is fixed with a torque setting of 80 +/- 5 Nm (see sketch).
The original M 12 screw must

be replaced with a 10 mm longer screw as per DIN 931 A3C (not included). The breakaway cable can now be

threaded through the eye of the cable guide.

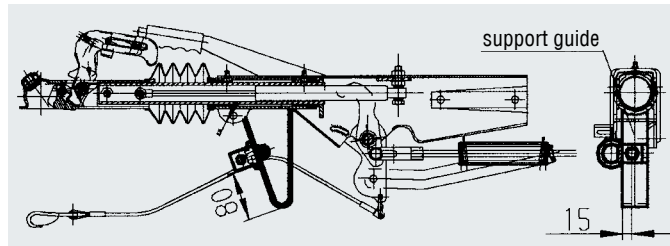


for bottom mounted Delta overrun devices	
Part No.	247 198
Type	60 S/2, 90 S/3, 161 S, 251 S, 251 G, 2,8 VB/1

3. On square overrun devices with support skid

A drill hole 13 mm dia (see sketch) is provided on the support skid for the overrun device. The surface must be

treated with a rust-preventing agent. The breakaway cable guide is then fixed on to the bar with a torque setting of 80 +/- 5 Nm (see sketch). Insert the breakaway cable, this ensures optimum guiding of the cable.

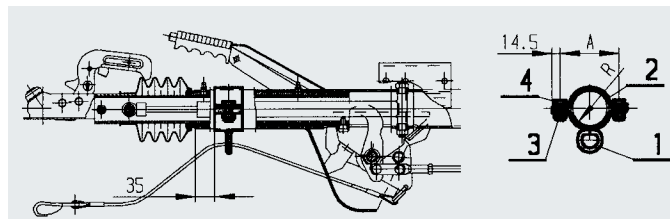


for square-overrun devices with support skid	
Part No.	614 721
Type	60 S/2, 90 S/3, 161 S, 251 S

4. On round tube overrun devices

The breakaway cable guide (as per sketch) is fixed to the overrun device with a torque

setting of 80 +/- 5 Nm). Insert the breakaway cable and optimum guiding of the breakaway cable is ensured.

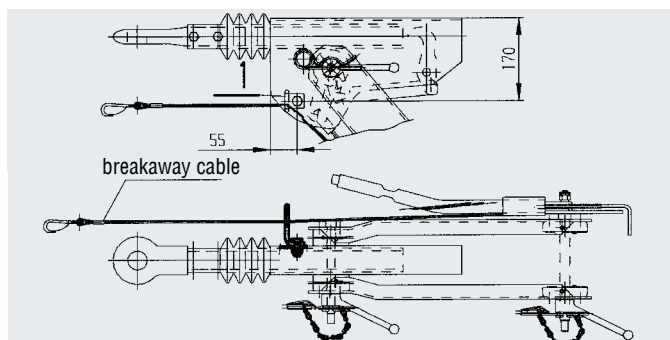


for round tube overrun devices	
Part No.	247 190
Type	131 R
Part No.	247 191
Type	161 R, 251 R

5. On height adjustable overrun devices

A drill hole 13 mm dia (see sketch) is provided on the support skid for the overrun device. The surface must be

treated with a rust-preventing agent. The breakaway cable guide is then fixed on to the bar with a torque setting of 80 +/- 5 Nm (see sketch). Insert the breakaway cable, this ensures optimum guiding of the cable.



for height adjustable overrun devices	
Part No.	614 721
Type	101 VB, 161 VB, 251 VB, 351 VB

The Adaptable Profi Delta Cast Iron Overrun Device

One Product – Maximum Flexibility

The AL-KO Profi V Cast Iron overrun device features a modular, robust design to suit all commercial applications and provides exceptional service life for trailers ranking in weight from 1600 to 3000 kg and 2000 to 3500 kg.

The overrun device can be fitted either above or below the trailer drawbar to optimise the use of the trailer at different heights to suit different towing vehicles.

A selection of coupling heads and rings are also available to provide maximum flexibility for use with different towbar options. Other accessories include manoeuvring handles, skid brackets and jockey wheel clamps.



Cast ball coupling
AK 301/351



Safety ball coupling
AKS 3004/3504



Manoeuvring handle



Centre flange

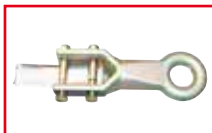


Skid bracket

JOCKEY WHEEL
„Options”



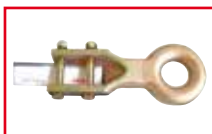
Ø 30 eye coupling UK



Ø 40 eye coupling UK



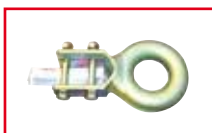
Ø 40 DIN eye coupling



Ø 45 eye coupling Italian



Ø 2" eye coupling UK



Ø 68 eye coupling French



Ø 76 Nato eye coupling



Ø 57,5 eye coupling
Sweden

COUPLING COMPONENTS
„Options”



ACCESSORIES „Options”



Jockey wheel rigid
Premium



Jockey wheel with fixed
Ø 60 shaft



Jockey wheel rigid
with anti-slip device



Jockey wheel
fully automatic

The Heavy Duty Overrun Device Robust Design for demanding applications

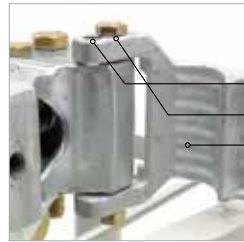
✓ Your Advantage

The AL-KO Profi overrun devices are made from high quality cast material.

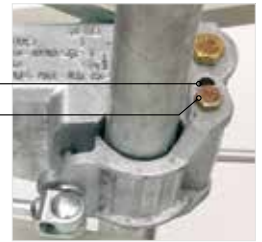
The heavy duty modular design maximises service life even in the most demanding commercial applications. With the option of fitting to either the top or bottom of the drawbar along with a range of accessories, the overrun device provides unparalleled flexibility.

! The adjustable jockey wheel clamp can be used with 48 mm and 60 mm diameter stems, and allows easy fitting of the jockey wheel without threading from below. The clamp also features recesses for use with anti-slip, grooved jockey wheels.

! The Breakaway cable is standard so that the emergency brake activates in an emergency.



Ø 60 mm
Ø 48 mm
anti slip safety clamp



Telescopic handbrake lever Length adjustable (AL-KO Patent)

✓ Your Advantage

! **The adjustable handbrake lever increases in length by 140 mm to reduce the force required to apply the brake**

! **When released the lever retracts to provide greater clearance between towing vehicle and trailer to assist with manoeuvring**

! **Ergonomically favourable hand lever setting**

! The handbrake lever folds down flat when released, ensuring that vehicle tail-gates can open without obstruction.

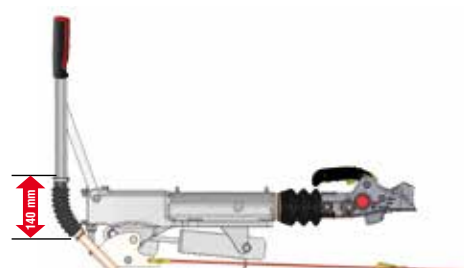
! Buttonless handbrake lever provides smoother function and controls the movement of the trailer on slopes more effectively.



Handbrake lever off
(Driving)



Handbrake lever applied
(Position with trailer on down-slope)



Handbrake lever fully applied
(Position with trailer on up-slope)

Overrun devices Profi Delta

Range Overview

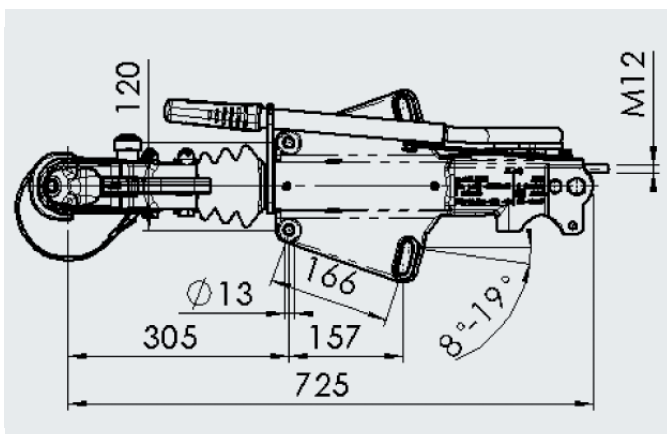
AE Profi V 3.000 kg with ball-type coupling										
Part No.	Type	Gross weight in kg	Nose load in kg	Fitting	Overrun reverse lever	Compatible with AL-KO wheel brake	Coupling mounting			
1 224 121	AE 3000	1.600 - 3.000	150	top bottom	no	1637/2051	AK 301	22,5	25	2
1 224 122	AE 3000	1.600 - 3.000	150	top bottom	no	2361	AK 301	22,5	25	20
1 224 123	AE 3000	1.600 - 3.000	150	top bottom	no	3062/3081	AK 301	22,5	25	20


Contents

- I Overrun device (See illustr.)
- I Plug holder (loose)
- I Operating instructions (loose)

EC-Test Number e1

Towing device	Overrun device
00-1648	EC 361-051-06



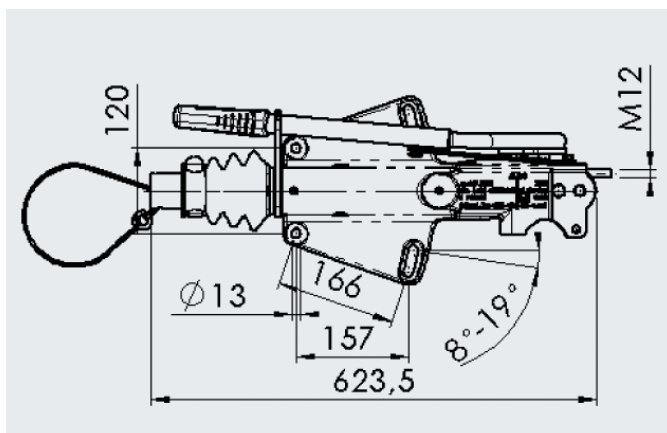
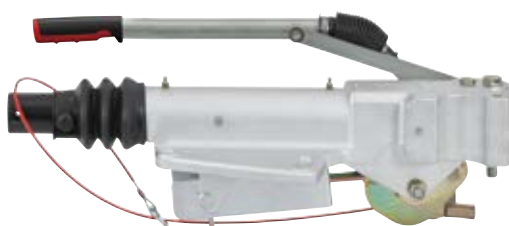
AE Profi V 3.000 kg without ball-type coupling										
Part No.	Type	Gross weight in kg	Nose load in kg	Fitting	Overrun reverse lever	Compatible with AL-KO wheel brake	Coupling mounting			
1 224 124	AE 3000	1.600 - 3.000	150	top bottom	no	1637/2051	without	19,5	25	2
1 224 125	AE 3000	1.600 - 3.000	150	top bottom	no	2361	without	19,5	25	20
1 224 126	AE 3000	1.600 - 3.000	150	top bottom	no	3062/3081	without	19,5	25	20




Contents

- I Overrun device (See illustr.)
- I Plug holder (loose)
- I Operating instructions (loose)

EC-Test Number e1

Towing device	Overrun device
00-1648	EC 361-051-06

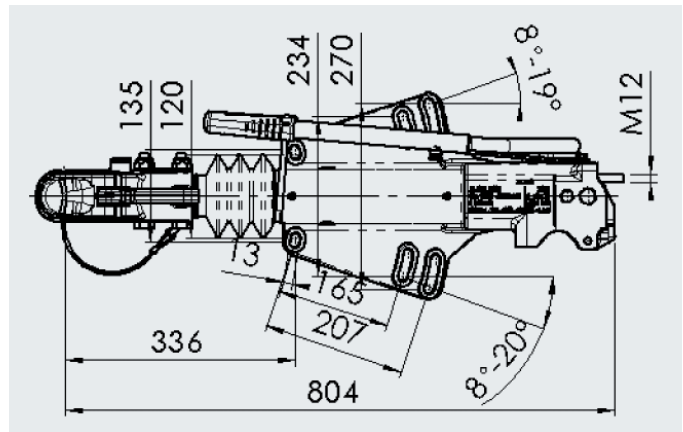





AE Profi V 3.500 kg with ball-type coupling										
Part No.	Type	Gross weight in kg	Nose load in kg	Fitting	Overrun reverse lever	Compatible with AL-KO wheel brake	Coupling mounting			
1 224 136	AE 3500	2.000 - 3.500	150	top bottom	no	1637/2051	AK 351	28,5	15	20
1 224 137	AE 3500	2.000 - 3.500	150	top bottom	no	2361	AK 351	28,5	15	2
1 224 138	AE 3500	2.000 - 3.500	150	top bottom	no	3062/3081	AK 351	28,5	15	20

Contents

- I Overrun device (See illustr.)
- I Plug holder (loose)
- I Operating instructions (loose)

EC-Test Number e1	
Towing device	Overrun device
00-1649	EC 361-052-06

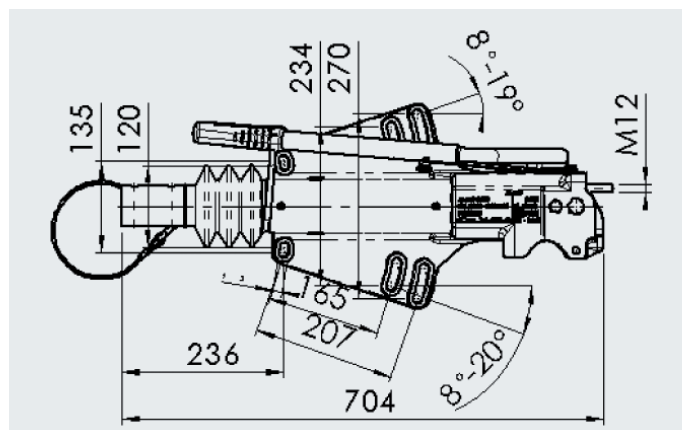


AE Profi V 3.500 kg without front part										
Part No.	Type	Gross weight in kg	Nose load in kg	Fitting	Overrun reverse lever	Compatible with AL-KO wheel brake	Coupling mounting			
1 224 139	AE 3500	2.000 - 3.500	150	top bottom	no	1637/2051	without	25,5	15	20
1 224 140	AE 3500	2.000 - 3.500	150	top bottom	no	2361	without	25,5	15	2
1 224 141	AE 3500	2.000 - 3.500	150	top bottom	no	3062/3081	without	25,5	15	20

Contents

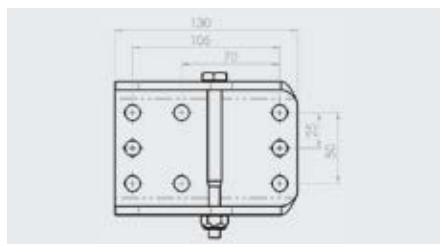
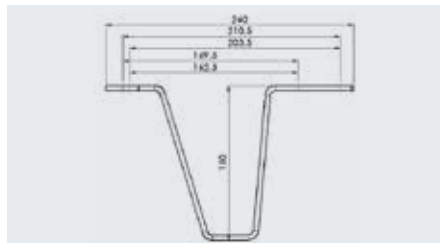
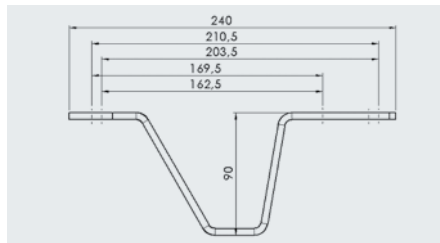
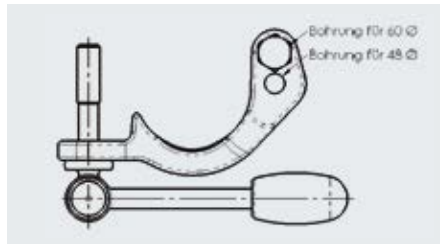
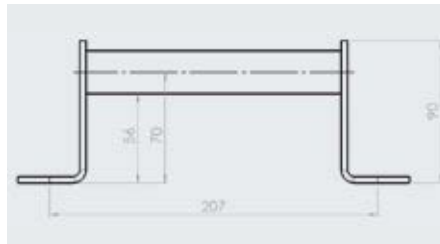
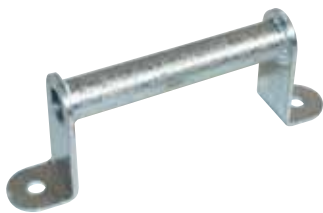
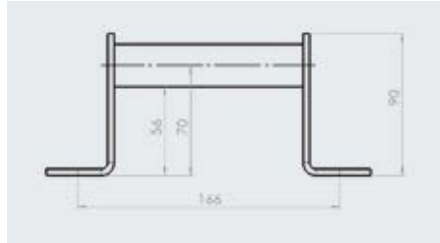
- I Overrun device (See illustr.)
- I Plug holder (loose)
- I Operating instructions (loose)

EC-Test Number e1	
Towing device	Overrun device
00-1649	EC 361-052-06



Range Overview

Accessories for overrun devices Delta



Range Overview

Manoeuvring handle for AE Profi at 3 to	
Part No.	1 224 147
kg	0,45 kg
	200 pcs

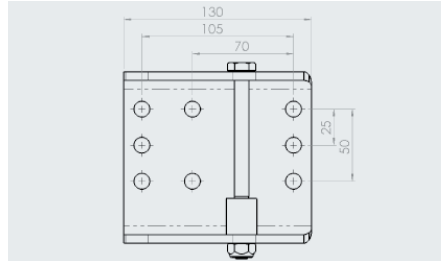
Manoeuvring handle for AE Profi at 3,5 to	
Part No.	1 224 195
kg	0,50 kg
	200 pcs

Clamp 48 Ø / 60 Ø for overrun device Profi side mounting	
Part No.	1 224 196
kg	1,00 kg
	200 pcs

Skid bracket for overrun device top mounting Profi 3 and 3,5 to	
Part No.	1 224 151
kg	0,40 kg
	200 pcs

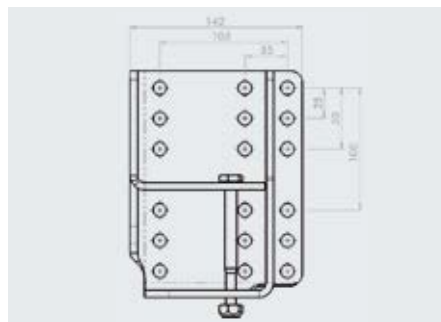
Skid bracket for overrun device bottom mounting Profi 3 and 3,5 to	
Part No.	1 224 537
kg	0,50 kg
	200 pcs

Centre flange for AE Profi at 3 to	
Part No.	1 224 152
kg	1,00 kg
	200 pcs



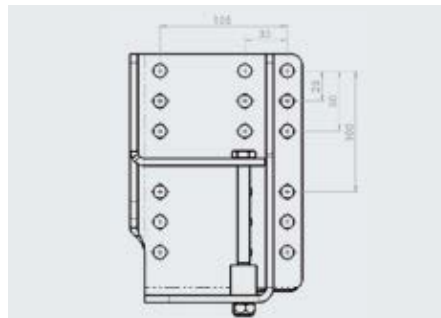
Centre flange for overrun device at 3,5 to

Part No.	1 224 146
Weight	1,00 kg
Quantity	200 pcs



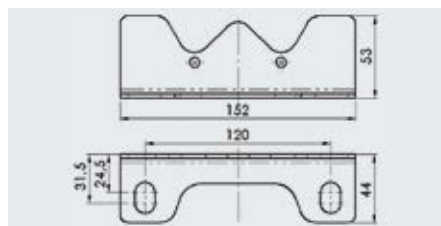
Centre flange raised for overrun device Profi 3 to

Part No.	1 224 534
Weight	2,50 kg
Quantity	200 pcs



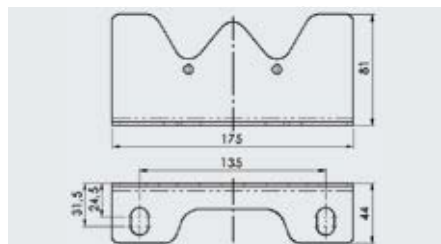
Centre flange raised for overrun device Profi 3,5 to

Part No.	1 224 535
Weight	2,50 kg
Quantity	200 pcs



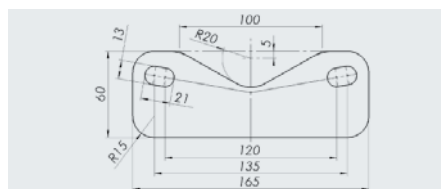
Cover bracket for overrun device Profi 3 to

Part No.	1 363 501
Weight	0,25 kg
Quantity	200 pcs



Cover bracket for overrun device Profi 3,5 to

Part No.	1 363 502
Weight	0,35 kg
Quantity	200 pcs

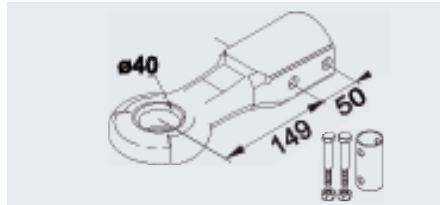


Support bracket for overrun device 3 to 3,5 to

Part No.	1 366 102
Weight	0,5 kg
Quantity	200 pcs

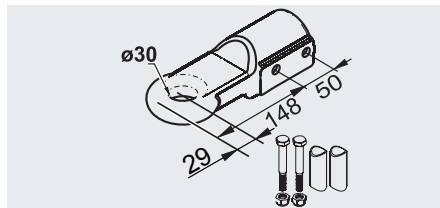
Range Overview

Eye ends for overrun device 101 VB

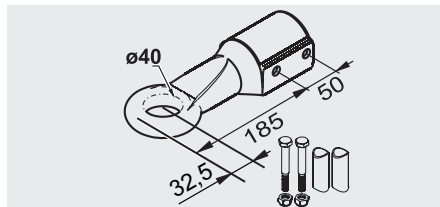


Range Overview

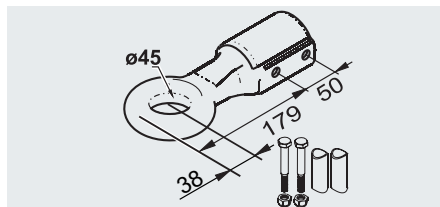
Eye end DIN D40/F	
Part No.	1 224 660
fitting to	101VB
overrun type	
	3,8 kg



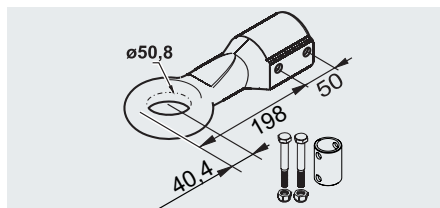
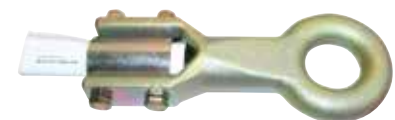
Eye end England E30/A	
Part No.	1 224 661
fitting to	101VB
overrun type	
	3,8 kg



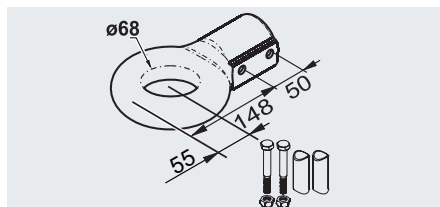
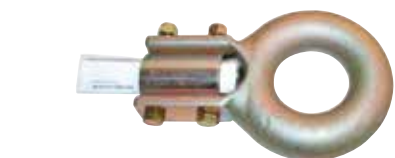
Eye end England E40/A	
Part No.	1 224 662
fitting to	101VB
overrun type	
	3,8 kg



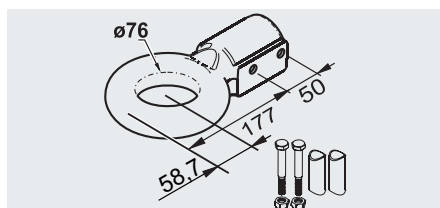
Eye end Italien 145/F	
Part No.	1 224 663
fitting to	101VB
overrun type	
	3,8 kg



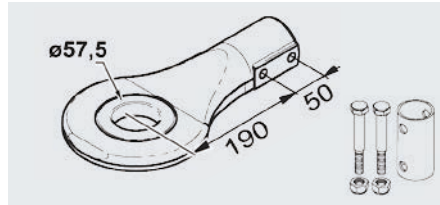
Eye end England E50/A	
Part No.	1 224 664
fitting to	101VB
overrun type	
	3,8 kg



Eye end Frankreich F68/E 1	
Part No.	1 224 665
fitting to	101VB
overrun type	
	3,8 kg



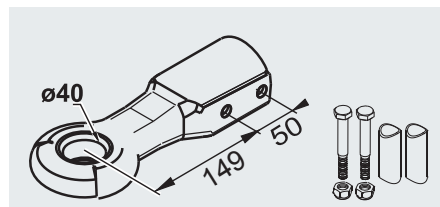
Eye end NATO N76/E	
Part No.	1 224 666
fitting to	101VB
overrun type	
	3,8 kg



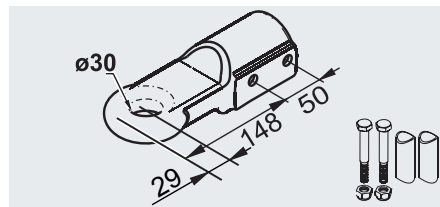
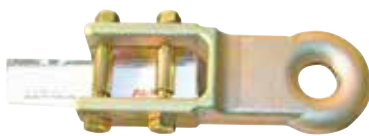
Eye end Schweden VBG 57,5	
Part No.	1 225 125
fitting to overrun type	101VB
	6,9 kg

Eye ends for overrun device 161VB, 251VB, AE Profi V3000

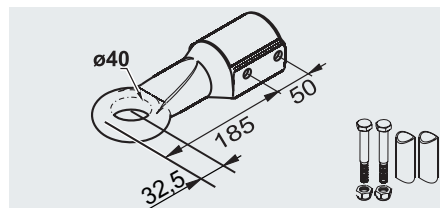
Range Overview



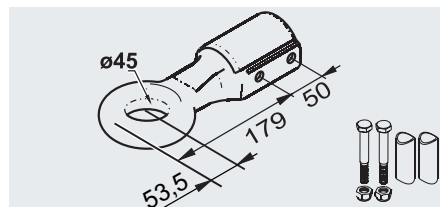
Eye end DIN D40/F	
Part No.	1 213 350
fitting to overrun type	161VB, 251VB, AE Profi V3000
	3,8 kg



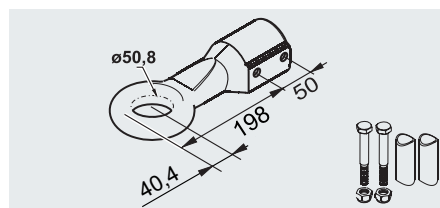
Eye end England E30/A	
Part No.	1 224 106
fitting to overrun type	161VB, 251VB, AE Profi V3000
	3,5 kg



Eye end England E40/A	
Part No.	1 224 107
fitting to overrun type	161VB, 251VB, AE Profi V3000
	3,7 kg



Eye end Italien 145/F	
Part No.	1 224 108
fitting to overrun type	161VB, 251VB, AE Profi V3000
	3,8 kg

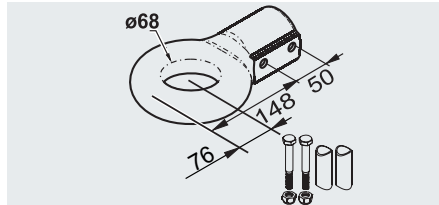


Eye end England E50/A	
Part No.	1 224 109
fitting to overrun type	161VB, 251VB, AE Profi V3000
	4,3 kg

The approval and release of the eye ends only valid for the overrun devices listed above.
For any other application liability is excluded.

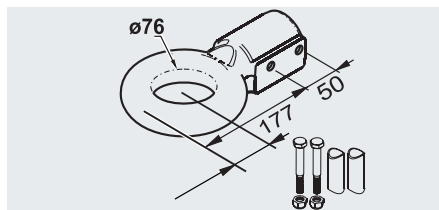
Range Overview

Eye ends for overrun device 161VB, 251VB, AE Profi V3000

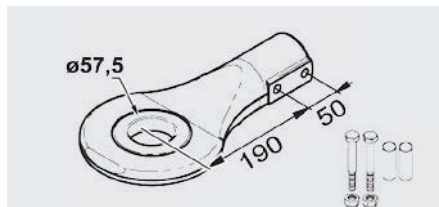
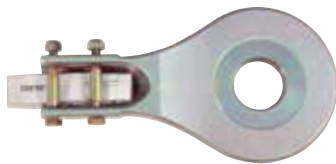


Range Overview

Eye end Frankreich F68/E	
Part No.	1 224 110
fitting to	161VB, 251VB,
overrun type	AE Profi V3000
	5,6 kg



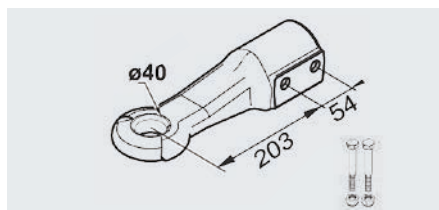
Eye end Nato N76/E	
Part No.	1 224 111
fitting to	161VB, 251VB,
overrun type	AE Profi V3000
	6,0 kg



Eye end Schweden VBG 57,5	
Part No.	1 225 076
fitting to	161VB, 251VB,
overrun type	AE Profi V3000
	6,6 kg

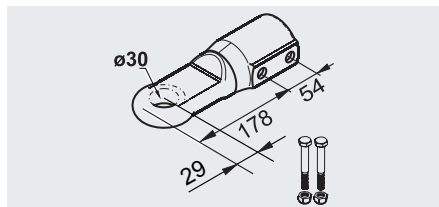
Eye ends for overrun device

351VB, AE Profi V3500, AE Steel 2,8 VB/1 V + square

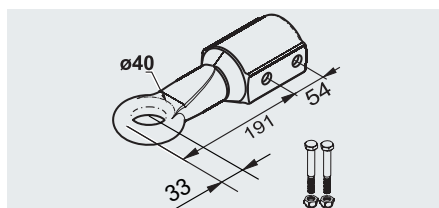


Range Overview

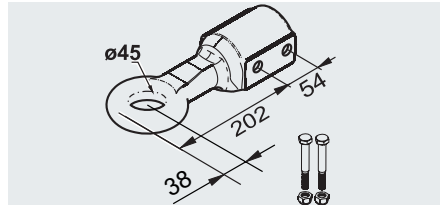
Eye end DIN D40/G	
Part No.	1 224 114
fitting to	351VB, AE Profi V3500,
overrun type	AE Steel 2,8 VB/1 V + square
	4,2 kg



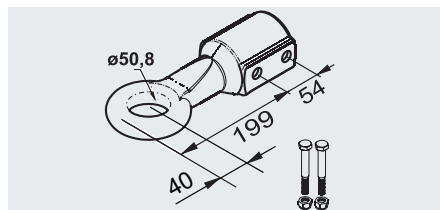
Eye end England E30/B	
Part No.	1 224 112
fitting to	351VB, AE Profi V3500, AE
overrun type	Steel 2,8 VB/1 V + square
	3,9 kg



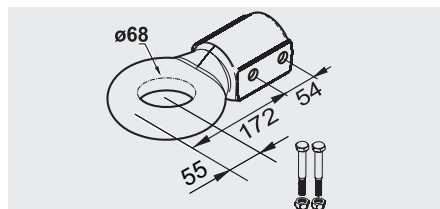
Eye end England E40/B	
Part No.	1 224 113
fitting to	351VB, AE Profi V3500, AE
overrun type	Steel 2,8 VB/1 V + square
	4,1 kg



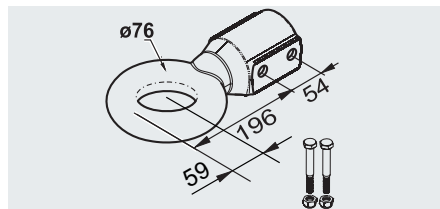
Eye end Italien 145/G	
Part No.	1 224 115
fitting to	351VB, AE Profi V3500,
overrun type	AE Steel 2,8VB/1 V + square
	4,2 kg



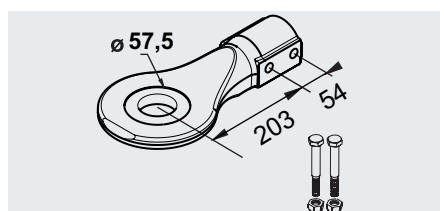
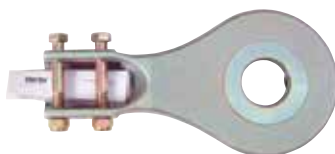
Eye end England E50/B	
Part No.	1 224 116
fitting to	351VB, AE Profi V3500,
overrun type	AE Steel 2,8VB/1 V + square
	4,7 kg



Eye end Frankreich F68/F	
Part No.	1 224 117
fitting to	351VB, AE Profi V3500,
overrun type	AE Steel 2,8VB/1 V + square
	6,0 kg



Eye end Nato N76/F	
Part No.	1 224 118
fitting to	351VB, AE Profi V3500,
overrun type	AE Steel 2,8VB/1 V + square
	6,4 kg



Eye end Schweden VBG 57,5	
Part No.	1 225 077
fitting to	351VB, AE Profi V3500
overrun type	AE 2,8 VB/1-C
	7,7 kg

The approval and release of the eye ends only valid for the overrun devices listed above.
For any other application liability is excluded.

A Frames

1.000 – 3500 kg

✔ Your Advantage

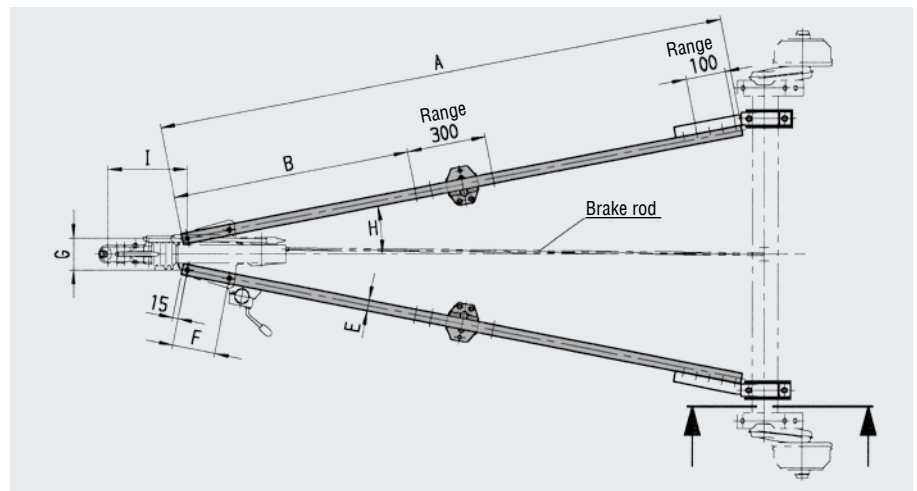
V-type chassis available ex stock

Your choice: drawbars with jockey wheel fitting, corresponding brake rod, connection piece drawbar to axle, overrun device and axle. All components ex stock.

Attention: customised measurements are possible. Ask for it !

🔪 Surface Treatment

! Hot dip galvanised

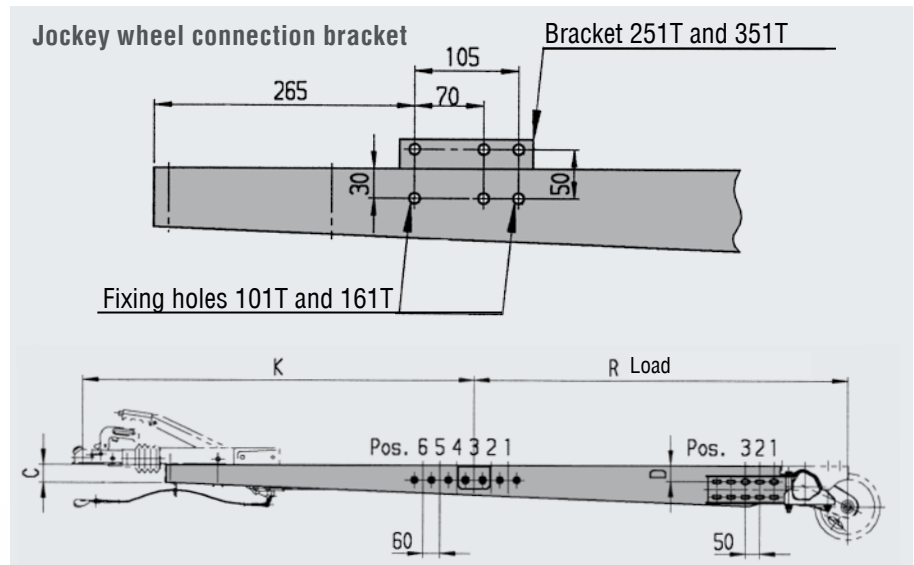


Range Overview

Towbar Members																
Part No. per Pair	Type	Test No. e1* 94/20*	Gross- trailer weight kg	Nose load kg	Dimensions mm Length							Overrun Device				
					A	B	C	D	E	F	G	H top mount	H bottom mount	I	K at	
249 377	101 T	00-0538	1000	100	1850	900	60	53	40	130	100	11° to 13,5°	11° to 13,5°	302	H 11° 1170 to 1465	
249 378					2000	to										
249 379					2150	1200										
249 380					2300											
249 381	161T	00-0540	1600	100	1800	900	60	53	40	166	120	8° to 15°	12° to 15°	303	H 11° 1170 to 1465	
249 382					2000	to										
249 383					2500	1200										
249 384	251T	00-0535	2800	100	1800	900	60	53	50	166	120	8° to 15°	13,5° to 15°	303	H 11° 1170 to 1465	
249 385					2000	to										
249 386					2500	1200										
249 387	351T	00-0539	3000	150	2000	1100	80	53	50	166	120	12° to 15°	13,5° to 15°	308	H 12° 1180 to 1475	
249 388					2300	to										
249 389					2500	1400										
249 390	351T	00-0539	3500	150	2000	900 to 1200	80	40	50	186	135	13° to 17°	16° to 17°	330	H 14° 1190-1485	
249 392					2300	1100 to 1400										
244 100					2500											
1 224 330	351T	00-0539	3500	150	2000	900 to 1100	80	40	50	208	135	8° to 20°	8° to 20°	330	H 14° 1385-1680	
1 224 331					2300	1100 to 1400										
1 224 332					2500											

Contents

- A) Towbars (Pair) inclusive:
 - ! Fixing materials
 - ! Jockey wheel connection bracket
- B) Bar connection (Pair) (please order separately):
 - ! Installation instructions
- C) Towbar (please order separately):
 - ! Fixing materials



R	K max. permissible	Matching Overrun device	Type	Draw-bar (Pair)	Brake rod with fixings		Towbar to axle brackets with fixings	
					Part No.	Ø mm x length mm x thread length	Part No. (Pair)	for COMPACT and PLUS axle
885-1175	1820	60S/2 und 90S/3	50	13	249 434	9x1650x230/90 M10	249 079	97 Ø; 25°
1030-1425				14	249 436	9x1800x230/90 M10	1 225 292	97 Ø; 5°
1175-1570				16	249 437	9x1925x230/90 M10	249 998	80 Ø; 25°
1325-1720				17	249 439	9x2075x230/90 M10	1 225 293	80 Ø; 5°
835-1225	1820	161 S	40	15	249 433	9x1550x230/90 M10	249 079	97 Ø; 25°
1030-1425				17	249 435	9x1725x230/90 M10	1 225 292	97 Ø; 5°
1520-1915				21	249 440	9x2250x230/90 M10	249 998	80 Ø; 25°
835-1225	1800	251S und 251G Steel	30	20	249 433	9x1550x230/90 M10	1 225 293	80 Ø; 5°
1030-1425				23	249 435	9x1725x230/90 M10	249 079	97 Ø; 25°
1520-1915				30	249 440	9x2225x230/90 M10	1 225 292	97 Ø; 5°
830-1220	1945	AE 3000 251G Steel	20	31	267 364	12x1725x170	249 079	97 Ø; 25°
1125-1515				34	267 365	12x2025x170	1 225 292	97 Ø; 5°
1320-1710				36	267 366	12x2225x170	267 022	110 Ø; 25°
	1945	2,8VB/1-C	20	31	267 367	12x1650x170	1 223 528	110 Ø; 5°
				34	267 368	12x1950x170	267 022	110 Ø; 25°
				36	267 369	12x2150x170	1 223 528	110 Ø; 5°
	1945	AE 3500	20	31	267 367	12x1650x170	267 022	110 Ø; 25°
				34	267 368	12x1950x170	1 223 528	110 Ø; 5°
				36	267 369	12x2150x170		

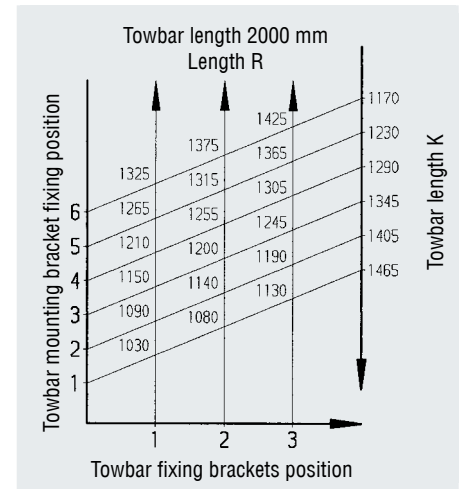
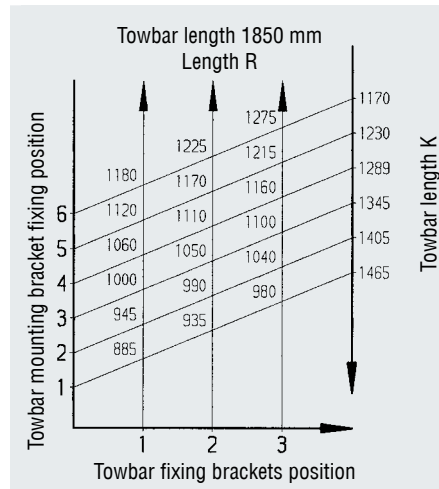
Towbar Members

Calculations and setting value diagrams

Forked drawbar

Type 101 T

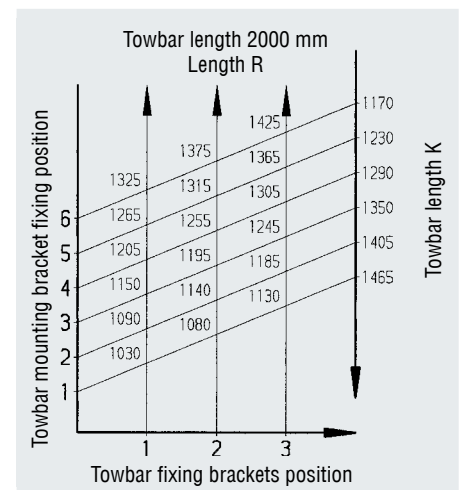
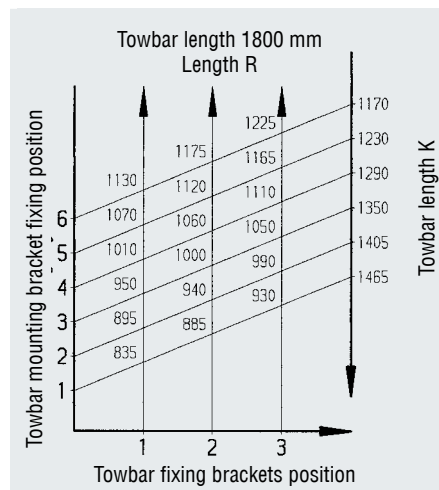
(Diagram values at H=11° Towbar angle)



Forked drawbar

Type 161 T / 251 T

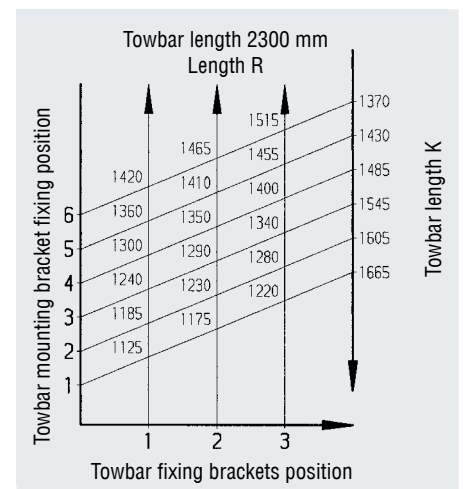
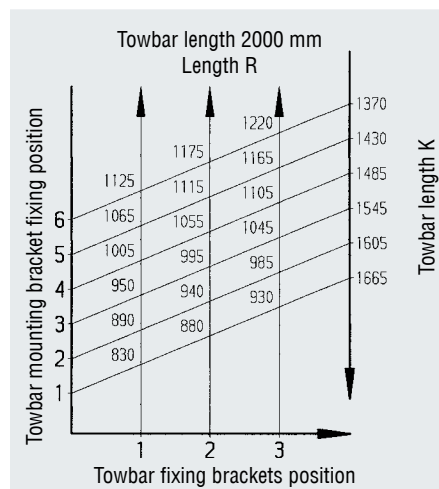
(Diagram values at H=11° Towbar angle)

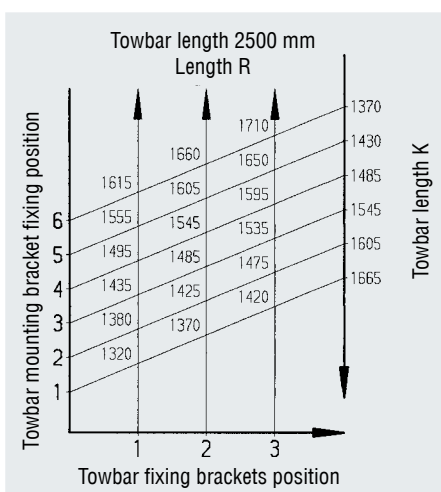
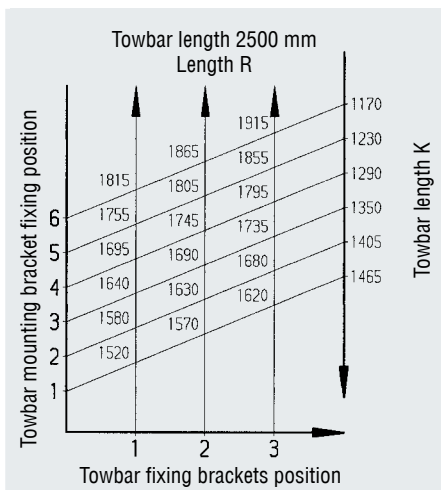
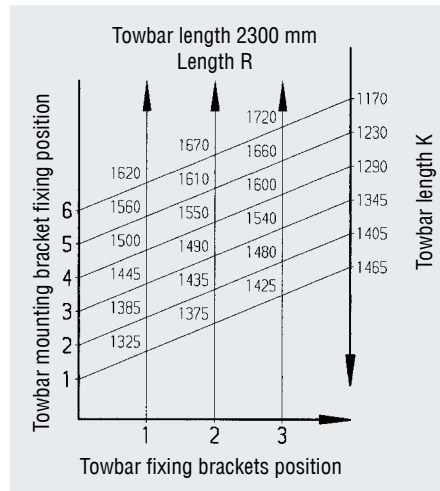
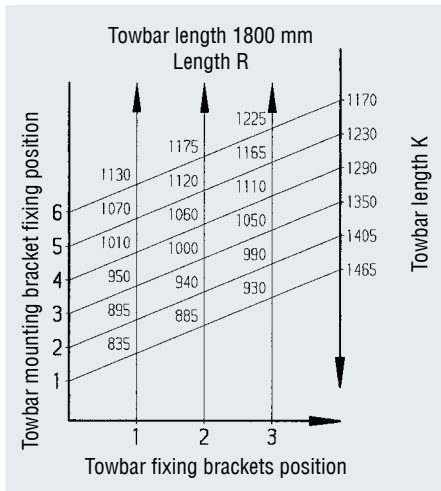


Forked drawbar

Type 351 T

(Diagram values at H=11° Towbar angle)



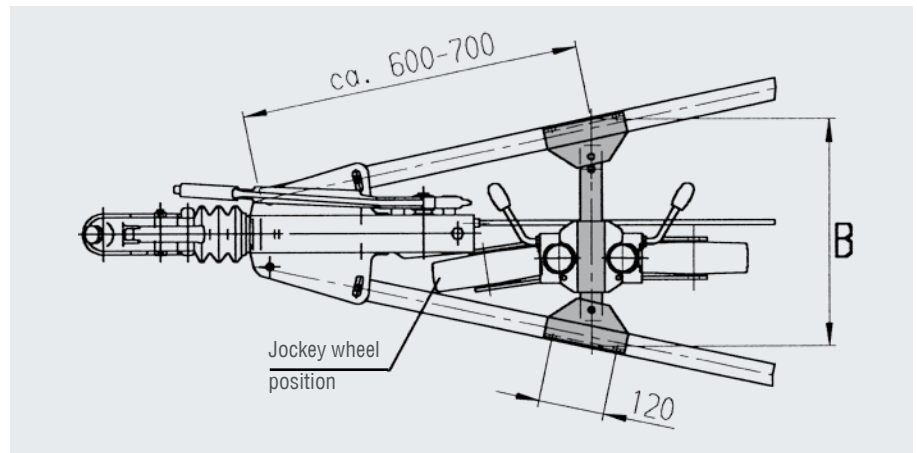


Overrun Devices

Traverse jockey wheel clamp for A-frames up to 3.500 kg

✔ Your Advantage

- | The chassis frame will not distort if static load is exceeded
- | Positioning the jockey wheel between the chassis frame enables secure, one-handed operation
- | The moveable fixing angle ensures that the traverse jockey wheel clamp, adjusts to the A-frame angle
- | The traverse jockey wheel clamp is supplied pre-assembled ensuring simple, fast fitment
- | Three standard lengths allow different fixing positions
- | Each individual variant can be altered by 22 mm using additional fixing holes



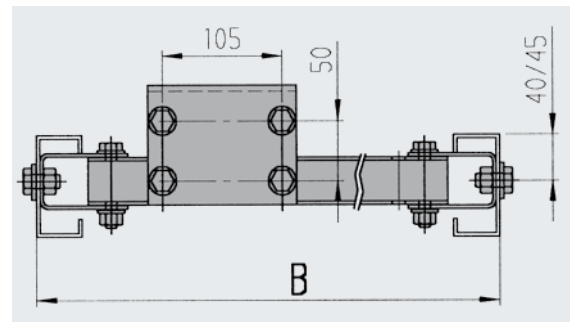
Application

- | A-Frame chassis

✔ Assembly

- | The traverse jockey wheel clamp can be fitted onto AL-KO A-frame drawbars (see sketch for fitting positions). Drill 2 holes (12.5 or 13 mm) in the neutral area of the chassis (TUV Approved - see operating instructions).

Caution! the traverse jockey wheel clamp must lie against the upper edge of the chassis frame drawbar. The jockey wheel can either be fitted in the direction of travel or on the reverse side of the traverse clamp.



✔ Surface Treatment

- | Traverse clamp is hot dip galvanised. Bolts are zinc plated with yellow chrome plate

Range Overview

Part No.	Length B mm	Max. static jockey wheel load			
1212991	390/410	300 kg	4,71	50	10
1212992	440/460	300 kg	4,91	50	10
1212993	515/535	300 kg	5,38	50	10

✔ Contents

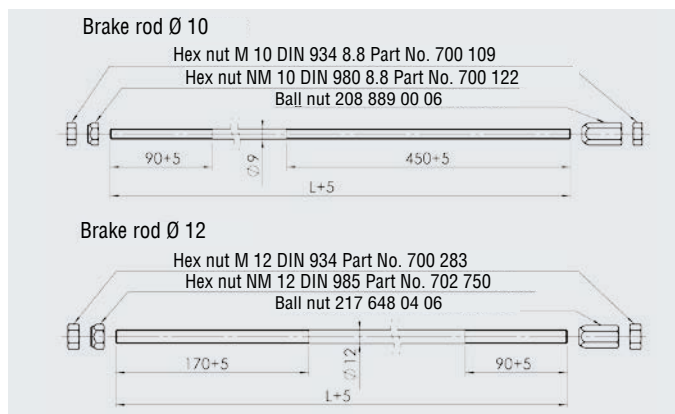
- | Traverse jockey wheel clamp with pre-assembled swivel fixing angles and pre-assembled mating flange to suit 48 or 60 mm dia. jockey wheels (unpacked)

Brake rods

Rod connector / rod holder

Surface Treatment
galvanised

Contents
(see technical drawing)
complete with fixing material



Range Overview

Part No.		Rod assy thread	Length mm	
1 224 887	Ø 9	M10	1550	0,85
1 224 888	Ø 9	M10	1900	1,05
1 224 889	Ø 9	M10	2250	1,3
1 224 890	Ø 9	M10	2600	1,4
1 224 891	Ø 9	M10	2950	1,6
1 224 892	Ø 9	M10	3300	1,8
1 224 893	Ø 9	M10	3650	2,0
1 224 894	Ø 9	M10	4000	2,2
240 126	Ø 12	M12	1975	1,8
240 127	Ø 12	M12	2450	2,4
240 128	Ø 12	M12	2950	3,0
240 129	Ø 12	M12	4000	4,0

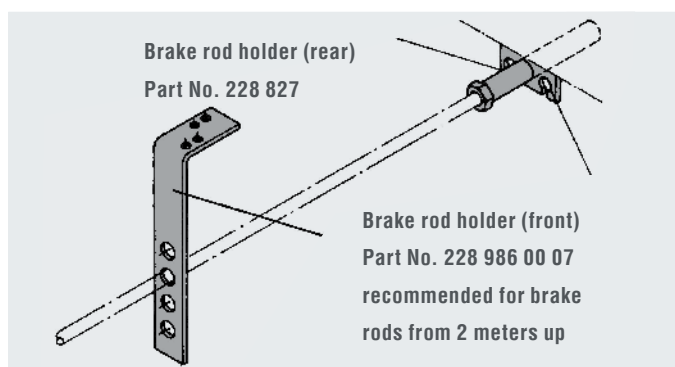


Range Overview

Part No.	Rod connector	total trailer weight	fitting for
1 224 412	M 12 to M 10	to 2700 kg	AL-KO overrun devices with M 12 brake rod connection

Surface Treatment
galvanised (front)
plastic (rear)

Contents
(see technical drawing)



Range Overview

Part No.	Rod holder front rear	Rod assy Ø mm	
228 986 00 07	X	Ø 10 und Ø 12	0,2
228 827		Ø 10	0,1

Height Adjustable Overrun Device COMPACT

500 – 1.000 kg

✔ Your Advantage

The height adjustable overrun device provides user flexibility as well as a quick change facility to suit different towing vehicle height between Cars and HGV's. Additional toothed lock wheels with double the teeth offers a greater advantage compared with conventional fittings. The tight connection provides more stability and extends long service life.

- | Complete fixing unit (without coupling part)
- | Hot dip galvanised
- | Retrofit accessories
- | Universal overrun lever for certain models (see the following product pages)

🔧 Technology

- | Coupling parts must be replaced by specialist workshops.
- | The maximum free drawbar length can be taken from the following table. All mounts can be clamped. Should the mounts be welded, the max. free drawbar length reduces (see table)

🏠 Surface Treatment

- | Hot dip galvanised
- | Couplings and various hardware, galvanised

📦 Contents

- | Please order:
Coupling part separately
- | **Overrun device complete (without coupling parts):**
- | Overrun device
- | Adapter
- | Transmission device (cable)
- | Handbrake lever (gas strut supported)
- | Breakaway cable
- | Drawbar profile
- | Transmission unit (rod assembly)
- | Jockey wheel clamp bracket with integrated plug holder
- | Mount for clamping
- | Spacer tubes
- | Operating instructions

Accessories

Security Device



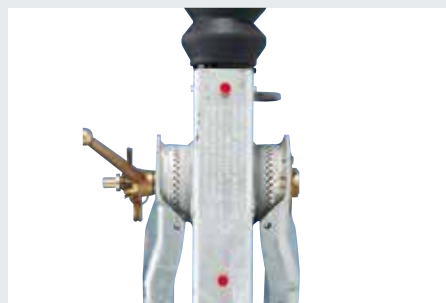
Soft-Dock



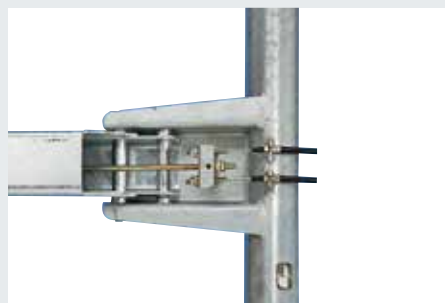
Shackle Lock



Safety-Ball



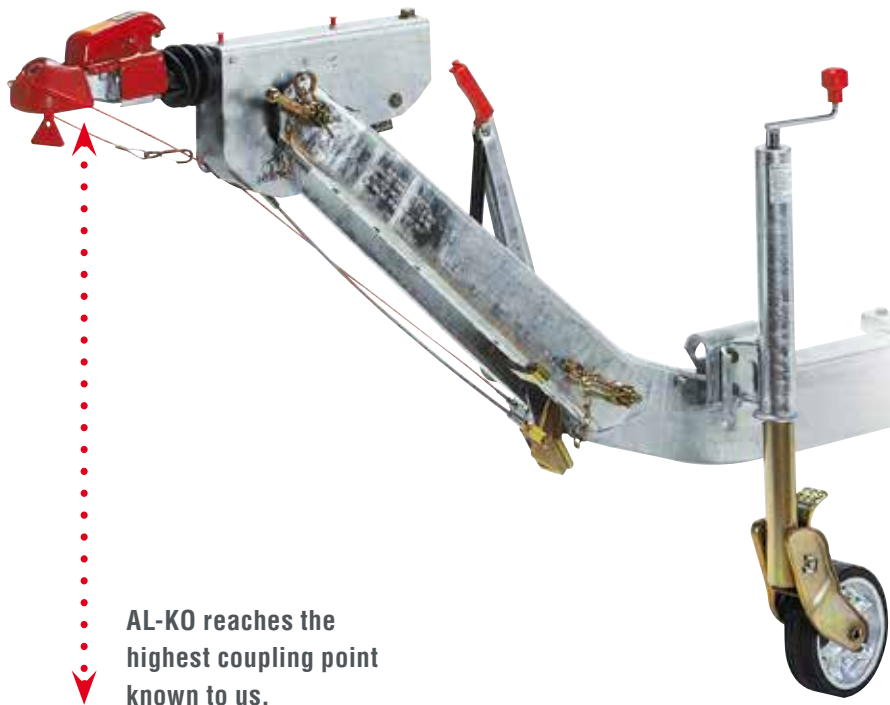
Toothed lock wheels in the joints that are often under stress - double the teeth offers a great advantage compared with conventional wheels. This positive connection gives our overrun devices their stability and a long service life.



AL-KO guarantees functioning brakes even in the most difficult areas of use: The brake rod assembly runs inside the drawbar profile and is able to withstand harsh manoeuvring on construction sites without risk of bending.



A high degree of ground clearance with low suspension due to the angled drawbar profile and the low overall height of the overrun device



AL-KO reaches the highest coupling point known to us.

| Combination of AL-KO overrun devices to AL-KO wheelbrakes

AL-KO overrun devices conform to the latest EC-regulations. They are only allowed to be combined with the referring AL-KO wheelbrakes. Please pay attention to the fact that with other combination the brake system cannot function.

Exceeded nose loads result to increased friction of the bearings and moving parts. Following that, the braking performance will decrease. Please pay attention to the recommended nose loads.

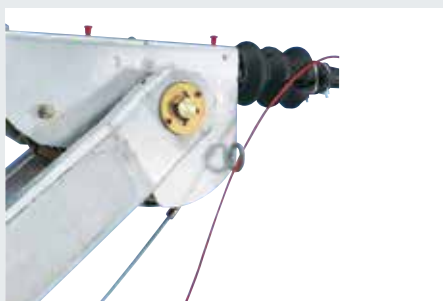
| Type labels

Type labels may not be covered by priming, paint or covers.

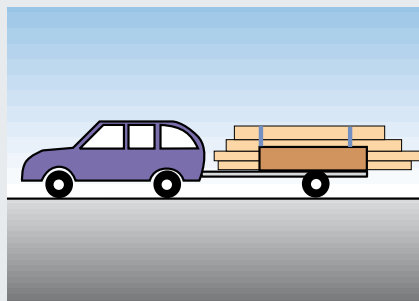
| Strengthened overrun devices

For lorries, busses or towing vehicles with hard damping the overrun devices, drawbars and couplings must be stronger versions. Please ask for it.

Maximum free drawbar length a) 0° = extended state b) +50° = max. raised state	102 VB mm
0° clamped mount	3198
0° welded mount	2208
50° clamped mount	2930
50° welded mount	1940



Power transmission takes place via cable and rod assembly, in comparison with the conventional Bowden cable, this achieves a friction free power transmission. Thus, this increases the braking force and shortens the stopping distance



A special lightweight box profile enables free drawbar lengths up to 2300 mm. The special box profile ensures a high degree of stability at the lowest weight possible

Height Adjustable Overrun Device

500 – 1.000 kg

Technology

Type: Overrun device 101VB

Adapter with drawbar profile 102 VB

Optional: Adapter 400 mm / 600 mm

Max. nose load 100 kg

EC-Test No.

Overrun device 361 003 86

EC-Construction Approval No. of

the towing device e1 00-211

Universal overrun lever:




Yes

Non


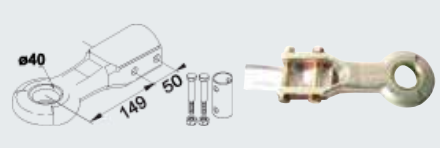
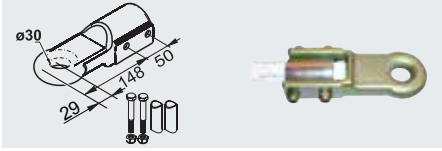
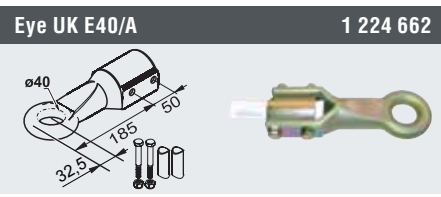
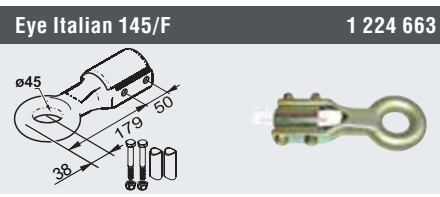
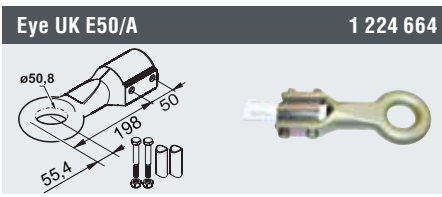
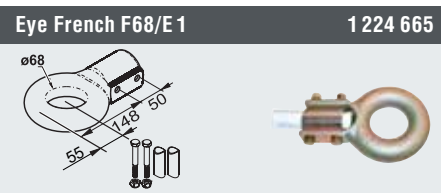
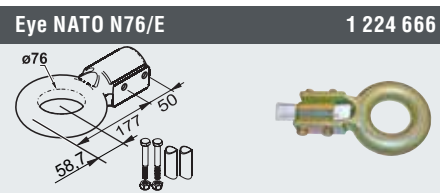
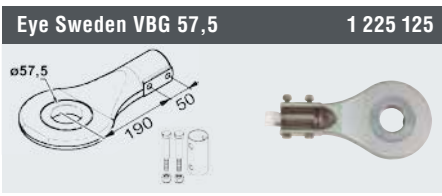
Coupling range	Part No.			
Coupling Ø 50 AK 160	1 224 772	1,6	10	2
DIN-Eye Ø 40	1 224 660	3,8	10	2
UK-Eye Ø 30	1 224 661	3,5	10	2
UK-Eye Ø 40	1 224 662	3,7	10	2
Italian-Eye Ø 45	1 224 663	3,8	10	2
UK-Eye Ø 50,8	1 224 664	4,3	10	2
French-Eye Ø 68	1 224 665	5,6	10	2
Nato-Eye Ø 76	1 224 666	6,0	10	2
Sweden-Eye VBG 57,5	1 225 125	6,6	10	2



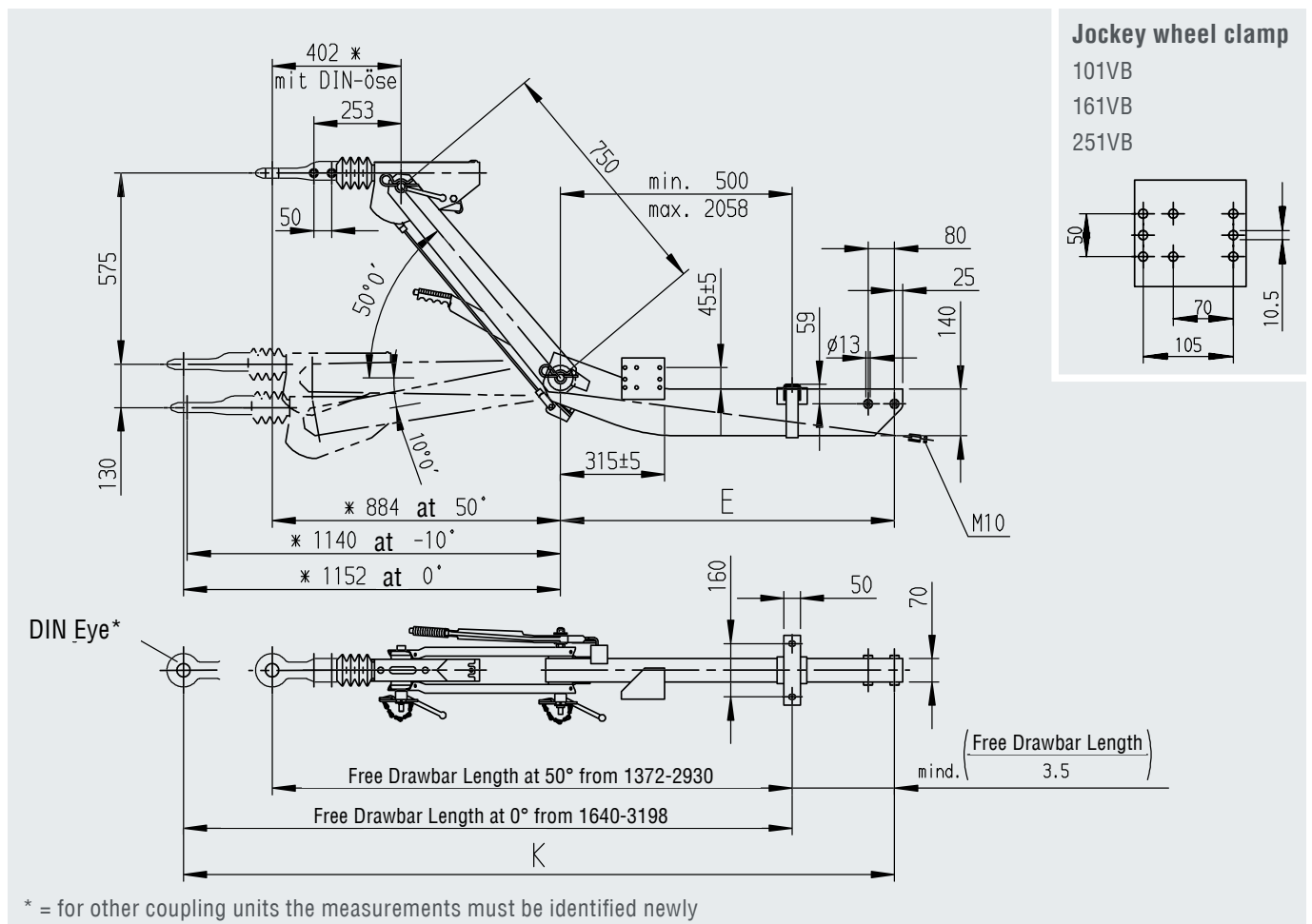
Range Overview

Overrun device complete with drawbar profile (without coupling)						
Drawbar length	Overall length		Overrun device complete with drawbar profile			
E mm	K at 0°	DIN-Eye	Part No. for wheel brake 1637/2051			
1010	2150		200 566 01	44,0	9	10
1090	2230		200 566 02	44,7	9	10
1170	2310		200 566 03	45,4	9	10
1250	2390		200 566 04	46,1	9	10
1330	2470		200 566 05	46,8	9	10
1410	2550		200 566 06	47,5	9	10
1490	2630		200 566 07	48,2	9	10
1570	2710		200 566 08	48,9	9	10
1650	2790		200 566 09	49,6	9	10
1730	2870		200 566 10	50,3	9	10
1810	2950		200 566 11	51,0	9	10
1890	3030		200 566 12	51,7	9	10
1970	3110		200 566 13	52,4	9	10
2050	3190		200 566 14	53,1	9	10
2130	3270		200 566 15	53,8	9	10
2210	3350		200 566 16	54,5	9	10
2290	3430		200 566 17	55,2	9	10
2370	3510		200 566 18	55,9	9	10
2450	3590		200 566 19	56,6	9	10
2530	3670		200 566 20	57,3	9	10
2610	3750		200 566 21	58,0	9	10
2690	3830		200 566 22	58,7	9	10
2770	3910		200 566 23	59,4	9	10
2850	3990		200 566 24	60,1	9	10

Coupling parts slideable: eye end connection D40 / 101VB

Coupling 	1 224 772	Eye DIN D40/F 	1 224 660	Eye UK E30/A 	1 224 661
Eye UK E40/A 	1 224 662	Eye Italian 145/F 	1 224 663	Eye UK E50/A 	1 224 664
Eye French F68/E 1 	1 224 665	Eye NATO N76/E 	1 224 666	Eye Sweden VBG 57,5 	1 225 125

Overrun device cpl. fitted with drawbar profile (without coupling parts)



Height Adjustable Overrun Device PLUS

850 – 3.500 kg

✔ Your Advantage

- | Easier to operate
- | Increased service life
- | User friendly & easy to service
- | Increased specifications

1 One-Handed Operation

The internally mounted gas spring inside the drawbar profile, supports the net weight of the overrun device. This ensures simple one-handed height adjustments by the operator.

2 Parallel Adjustment

Adjustment takes place via the bottom pivot point only, using the parallelogram as an adjusting mechanism. The overrun device on the upper pivot point automatically adjusts to the respective position via the adjusting rod, ie it is always horizontal.

3 Height adjustment is also possible whilst the handbrake is engaged

4 Park/Transportation setting (90°)

The spacer bars can be set vertically (90°) when parked or during transportation, if the upper bolt 2 is slaked and dismantled.

Note: Must be re-tightened for driving.

Tightening torques

161/251 VB-2=M16=250 Nm

351 VB-2=M20=300 Nm

5 Ground Clearance Reverse Lever

The drawbar profile has been set at a right angle to ensure the reverse lever & bottom pivot/height adjustment point do not come into contact with the ground.

6 Optimal Ground Clearance

even in the lowest setting. The overrun device can be adjusted 10° below the horizontal drawbar profile. This low construction height of the overrun device ensures an adequate ground clearance of - 10° is achievable, even in the lowest setting.

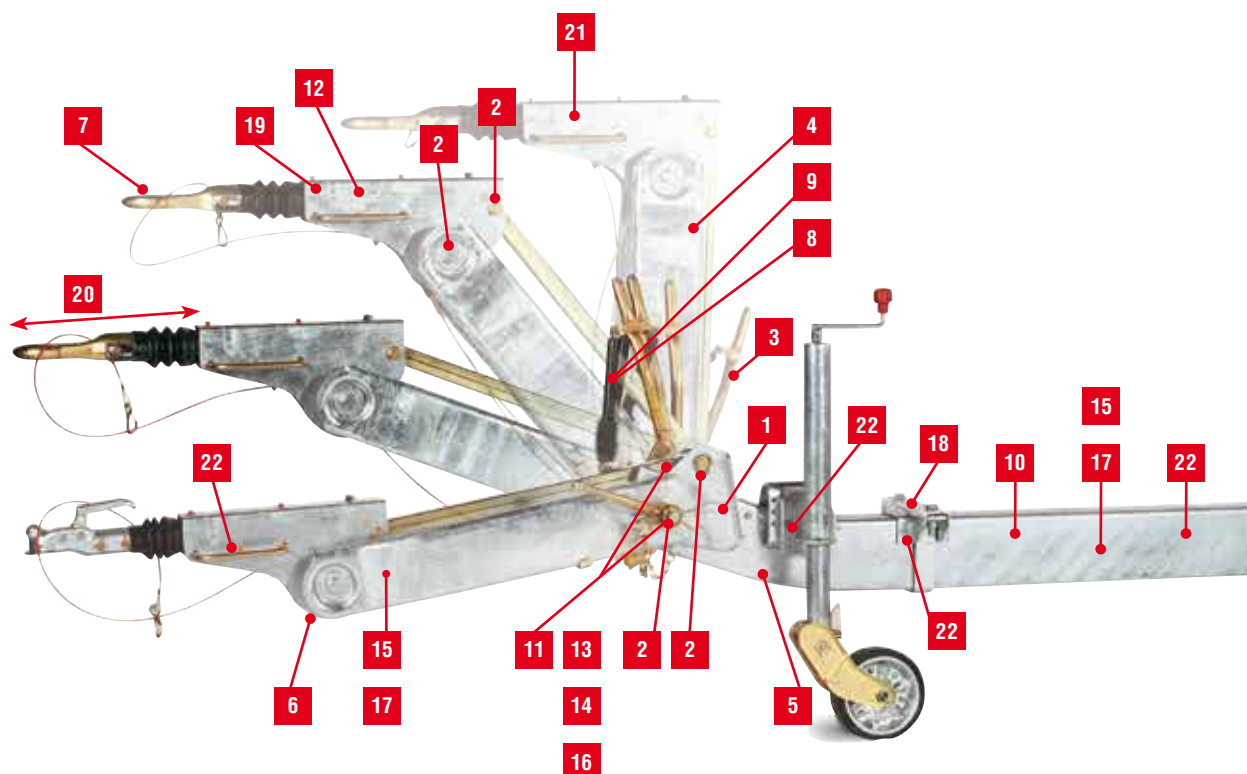


7 Quick Change Coupling Parts

The gas spring stays in a fixed position ensuring easy removal of the eye/ball coupling. The new eye or ball coupling can be quickly assembled onto the drawbar and secured using two bolts.

8 Automatic Handbrake Re-Tensioner

The gas spring actuated handbrake lever automatically re-tensions itself if the handbrake has been applied incorrectly.





8

9

9 Ergonomic Handbrake Design

Ample clearance between the handbrake lever and adapter ensure hand injuries are avoided.

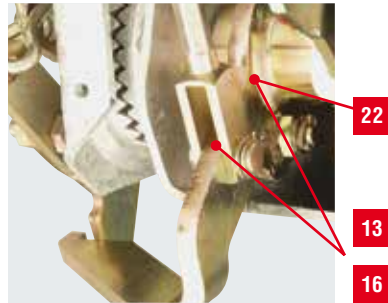
10 Galvanised Components

11 Low Wear Adjustment Mechanism

The fixed point adjusting mechanism on the bottom drawbar profile is free from play, ensuring that this area (normally subjected to extreme stress) is not susceptible to wear.

12 Low Wear Cast Iron Bearing

The drawbar runs inside a robust, cast iron cartridge which is not subjected to wear or play. The casting cartridge can be replaced if required.



22

13

16

13 Simple Overrun Lever Replacement

By loosening the T-handle/bolts and by pulling out the handbrake lever, the overrun lever can easily be removed.

14 Reverse lever and brake rod are protected by the drawbar profile

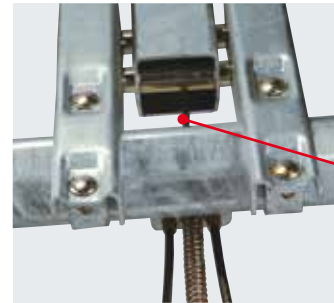
15 The overrun device bracket & drawbar are supplied pre-assembled and are function tested

16 Interchangeable Reverse Lever

Ensures that the same overrun device can be utilised for different AL-KO axles, without having to exchange the overrun lever.

17 High Stability: weight optimised construction

Example: 251 VB-2 with tube profile, 1890 mm long, net weight 88,8 kg.



14

18 Minimal free drawbar length in extended state

19 Extended overrun device ensuring compatibility with towing vehicles with rear load overhangs

20 Overrun and Towing Damping

The fitted overrun damper affects towing and pressure ie, the overrun stroke and towing stroke are damped.

21 Ideal weight classifications

Typ 161 VB-2 850 to 1600 kg

Typ 251 VB-2 1425 to 2700 kg

Typ 351 VB-2 2500 to 3500 kg

22 Complete supply solutions

| Assembled overrun and drawbar

| Loose coupling parts

| Integrated plug holder

| Standard manoeuvring handle

| Welded jockey wheel clamp bracket

| Universal overrun lever as standard

| Breakaway cable guide

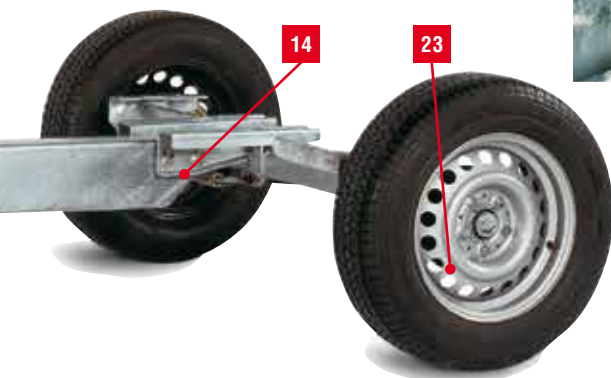
| Complete with support clamp



12

22

23 Superior Braking Performance



14

23

Situation	Legal Requirements	AL-KO Performs
Handbrake downward gradient	Greater than 18 % of GA	Ca. 62 % of GA
Handbrake upward gradient	Greater than 18 % of GA	Ca. 37 % of GA
Emergency brake (breakaway cable)	Greater than 18 % of GA	Ca. 28 % of GA
Perm. residual reverse braking force	Max. 8 % of GA	Ca. 1 % of GA

Height Adjustable Overrun Device

850 – 1.600 kg

Technology

Type: Overrun device 161 VB-2

Adapter with drawbar profile 162 VB-2

Max. nose load with DIN-Eye 100 kg

with Coupling 100 kg

EC-Test-No. for

Overrun device 361 0002 01 FBKV

EC-Construction Approval No.

for towing device e1 00-1157

Universal overrun lever:

Yes

Non

Coupling range	Part No.			
Coupling Ø 50 AK 160	249 277	1,6	10	2
DIN-Eye Ø 40	1 213 350	3,7	10	2
UK-Eye Ø 30	1 224 106	3,4	10	2
UK-Eye Ø 40	1 224 107	3,6	10	2
Italian-Eye Ø 45	1 224 108	3,7	10	2
UK-Eye Ø 50,8	1 224 109	4,2	10	2
French-Eye Ø 68	1 224 110	5,5	10	2
Nato-Eye Ø 76	1 224 111	5,9	10	2
Sweden-Eye VBG 57,5	1 225 076	6,6	10	2



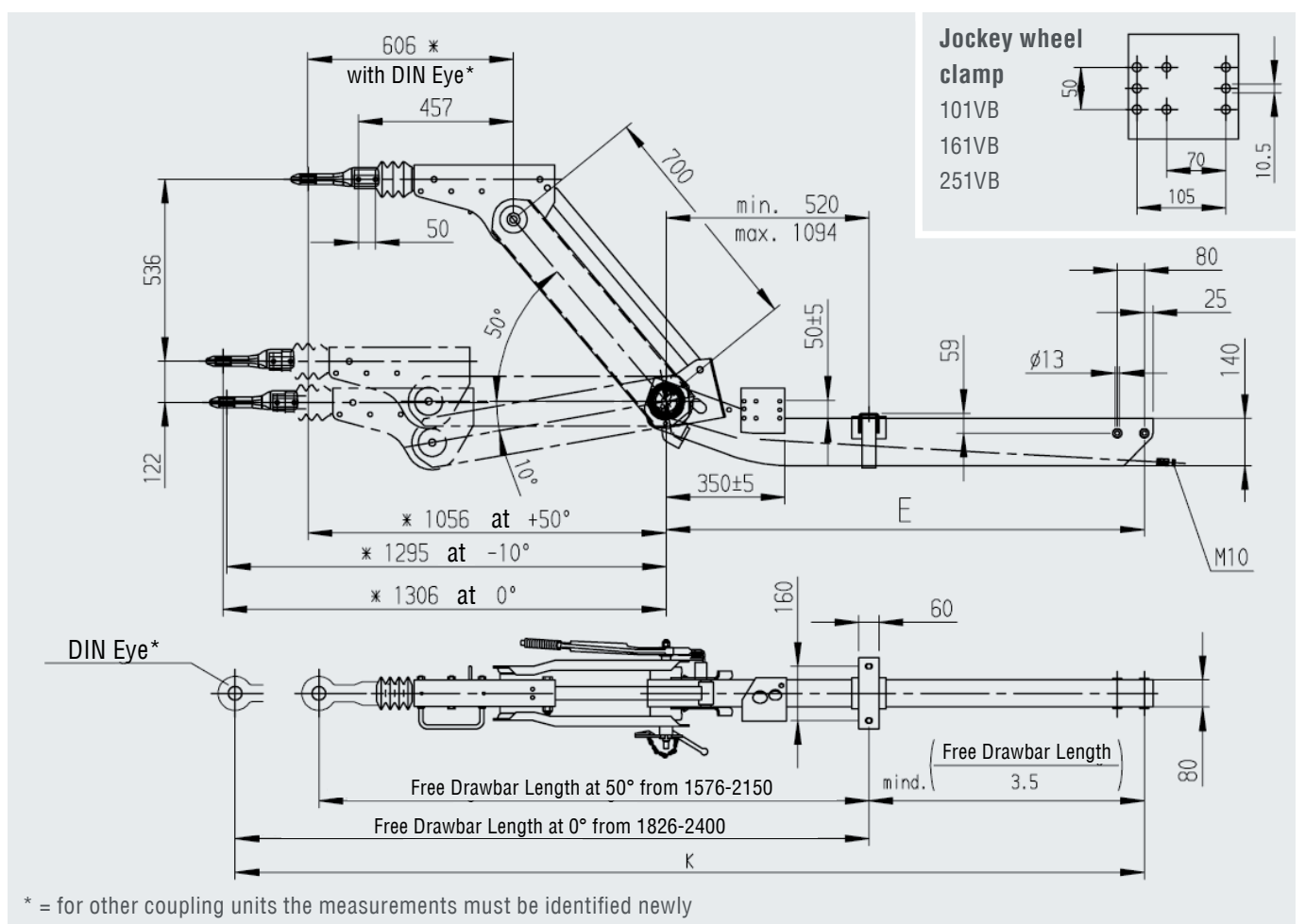
Range Overview

Overrun device complete with drawbar profile (without coupling)						
Drawbar length E mm	Overall length K at 0° DIN-Eye	Overrun device complete with drawbar profile				
		for wheel brake 1637/2051	for wheel brake 2361			
1250	2556	1 212 782	200 538 01	72,0	3	10
1330	2636	1 213 148	200 538 02	73,0	3	10
1410	2716	1 212 783	200 538 03	74,0	3	10
1490	2796	1 213 149	200 538 04	75,0	3	10
1570	2876	1 213 150	200 538 05	76,0	3	10
1650	2956	1 213 151	200 538 06	77,0	3	10
1730	3036	1 213 152	200 538 07	78,0	3	10
1810	3116	1 213 153	200 538 08	79,0	3	10
1890	3196	1 213 051	200 538 09	80,0	3	10
1970	3276	1 213 154	200 538 10	81,0	3	10
2050	3356	1 213 155	200 538 11	82,0	3	10
2130	3436	1 213 156	200 538 12	83,0	3	10
2210	3516	1 213 157	200 538 13	84,0	3	10
2290	3596	1 213 158	200 538 14	85,0	3	10
2370	3676	1 213 159	200 538 15	86,0	3	10
2450	3756	1 213 160	200 538 16	87,0	3	10
2530	3836	1 213 161	200 538 17	88,0	3	10
2610	3916	1 213 162	200 538 18	89,0	3	10
2690	3996	1 213 163	200 538 19	90,0	3	10
2770	4076	1 213 164	200 538 20	91,0	3	10
2850	4156	1 212 831	200 538 21	92,0	3	10

Coupling parts slideable: eye end connection D50 / 161VB



Overrun device cpl. fitted with drawbar profile (without coupling parts)



Height Adjustable Overrun Device

1.425 – 2.700 kg

Technology

Type: Overrun device 251 VB-2

Adapter with drawbar profile 252 VB-2

Max. nose load with DIN-Eye 120 kg

with Coupling 100 kg

EC-Test-No. for

Overrun device 361 0003 01 FBKV

EC-Construction Approval No.

for towing device e1 00-1158

Universal overrun lever:

Yes

Non

Coupling range	Part No.			
Coupling Ø 50 AK 300	249 278	1,6	10	2
DIN-Eye Ø 40	1 213 350	3,7	10	2
UK-Eye Ø 30	1 224 106	3,4	10	2
UK-Eye Ø 40	1 224 107	3,6	10	2
Italian-Eye Ø 45	1 224 108	3,7	10	2
UK-Eye Ø 50,8	1 224 109	4,2	10	2
French-Eye Ø 68	1 224 110	5,5	10	2
Nato-Eye Ø 76	1 224 111	5,9	10	2
Sweden-Eye VBG 57,5	1 225 076	6,6	10	2



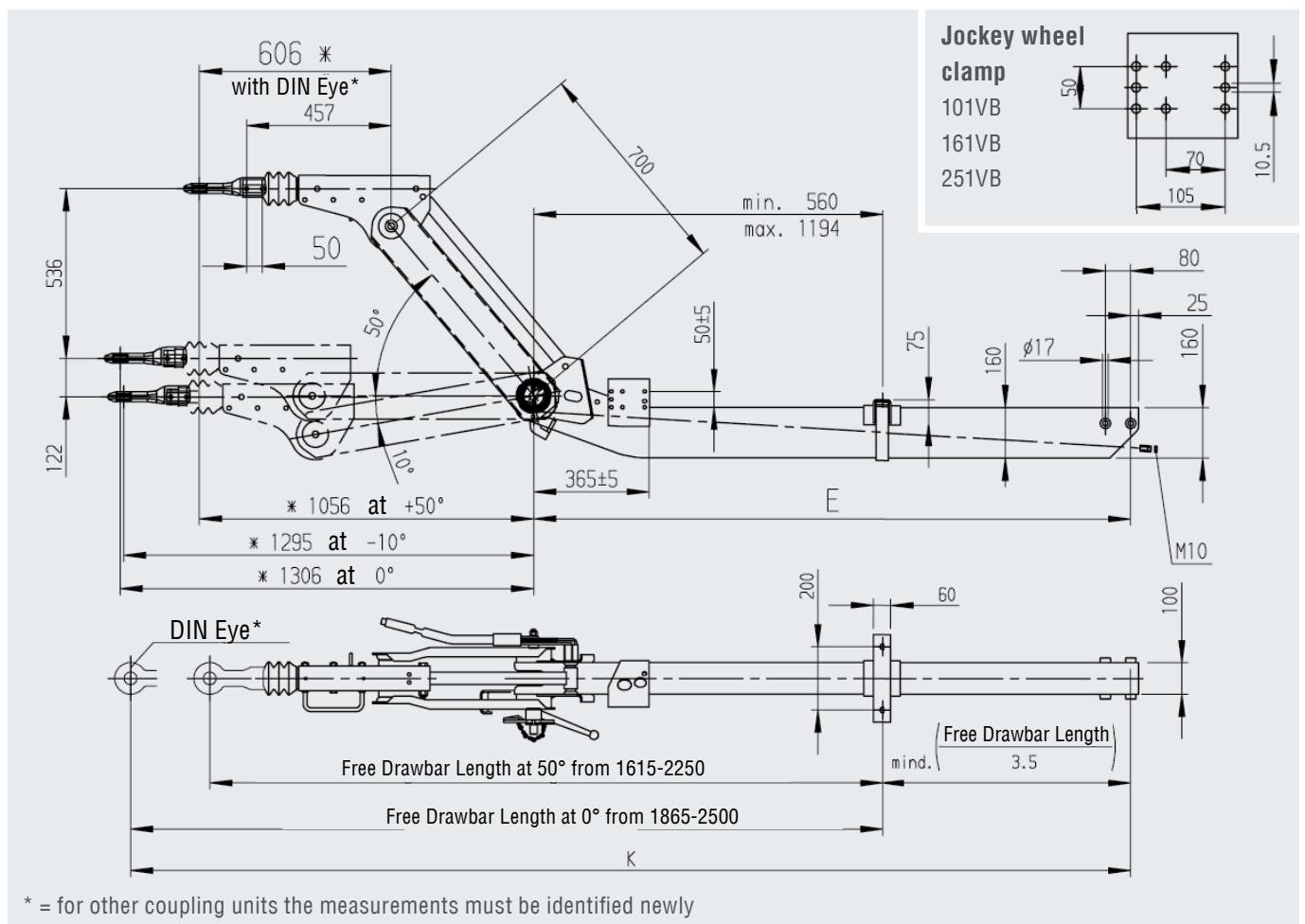
Range Overview

Overrun device complete with drawbar profile (without coupling)							
Drawbar length E mm	Overall length K at 0° DIN-Eye	Overrun device complete with drawbar profile					
		for wheel brake 1637/2051	for wheel brake 2361	for wheel brake 3081			
1250	2556	1 213 165	200 539 01	200 539 22	80,0	3	10
1330	2636	1 213 166	200 539 02	200 539 23	81,1	3	10
1410	2716	1 212 787	200 539 03	200 539 24	82,2	3	10
1490	2796	1 213 167	200 539 04	200 539 25	83,3	3	10
1570	2876	1 213 168	200 539 05	200 539 26	84,4	3	10
1650	2956	1 213 169	200 539 06	200 539 27	85,5	3	10
1730	3036	1 213 170	200 539 07	200 539 28	86,6	3	10
1810	3116	1 213 171	200 539 08	200 539 29	87,7	3	10
1890	3196	1 212 788	200 539 09	200 539 30	88,8	3	10
1970	3276	1 213 172	200 538 10	200 539 31	89,9	3	10
2050	3356	1 213 173	200 538 11	200 539 32	91,0	3	10
2130	3436	1 213 174	200 539 12	200 539 33	92,1	3	10
2210	3516	1 213 175	200 539 13	200 539 34	93,2	3	10
2290	3596	1 213 176	200 539 14	200 539 35	94,3	3	10
2370	3676	1 213 126	200 538 15	200 539 36	95,4	3	10
2450	3756	1 213 177	200 539 16	200 539 37	96,5	3	10
2530	3836	1 213 178	200 539 17	200 539 38	97,6	3	10
2610	3916	1 213 179	200 539 18	200 539 39	98,7	3	10
2690	3996	1 213 180	200 539 19	200 539 40	99,8	3	10
2770	4076	1 213 181	200 539 20	200 539 41	100,9	3	10
2850	4156	1 212 742	200 539 21	200 539 42	102,0	3	10

Coupling parts slideable: eye end connection D50 / 251VB



Overrun device cpl. fitted with drawbar profile (without coupling parts)



Height Adjustable Overrun Device

2.500 – 3.500 kg

Technology

Type: Overrun device 351 VB-2

Adapter with drawbar profile 352 VB-2

Max. nose load with DIN-Eye 150 kg

with Coupling 200 kg

EC-Test-No. for

Overrun device 361 0017 01 FBKV

EC-Construction Approval No.

for towing device e1 00-1233

Universal overrun lever:




Yes

Non

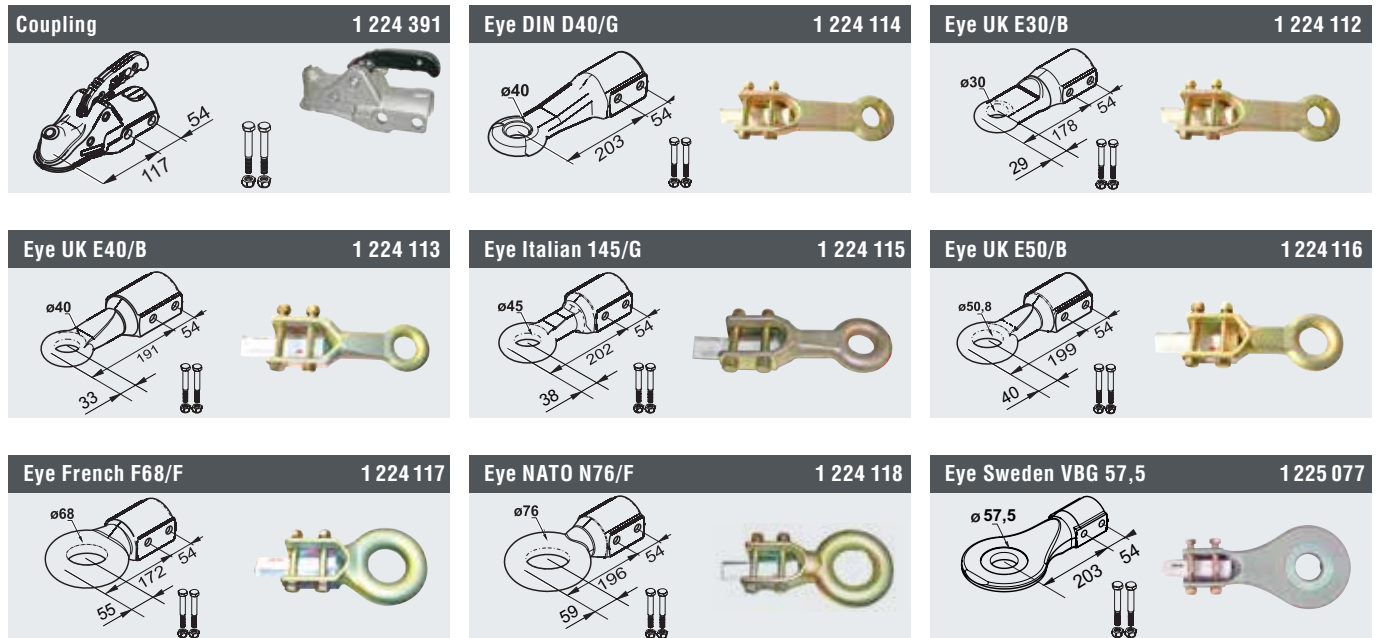
Coupling range	Part No.			
Coupling Ø 50 AK 351	1 224 391	2,9	10	2
DIN-Eye Ø 40	1 224 114	4,0	10	2
UK-Eye Ø 30	1 224 112	3,8	10	2
UK-Eye Ø 40	1 224 113	4,0	10	2
Italian-Eye Ø 45	1 224 115	4,1	10	2
UK-Eye Ø 50,8	1 224 116	4,6	10	2
French-Eye Ø 68	1 224 117	5,9	10	2
Nato-Eye Ø 76	1 224 118	6,3	10	2
Sweden-Eye VBG 57,5	1 225 077	6,6	10	2



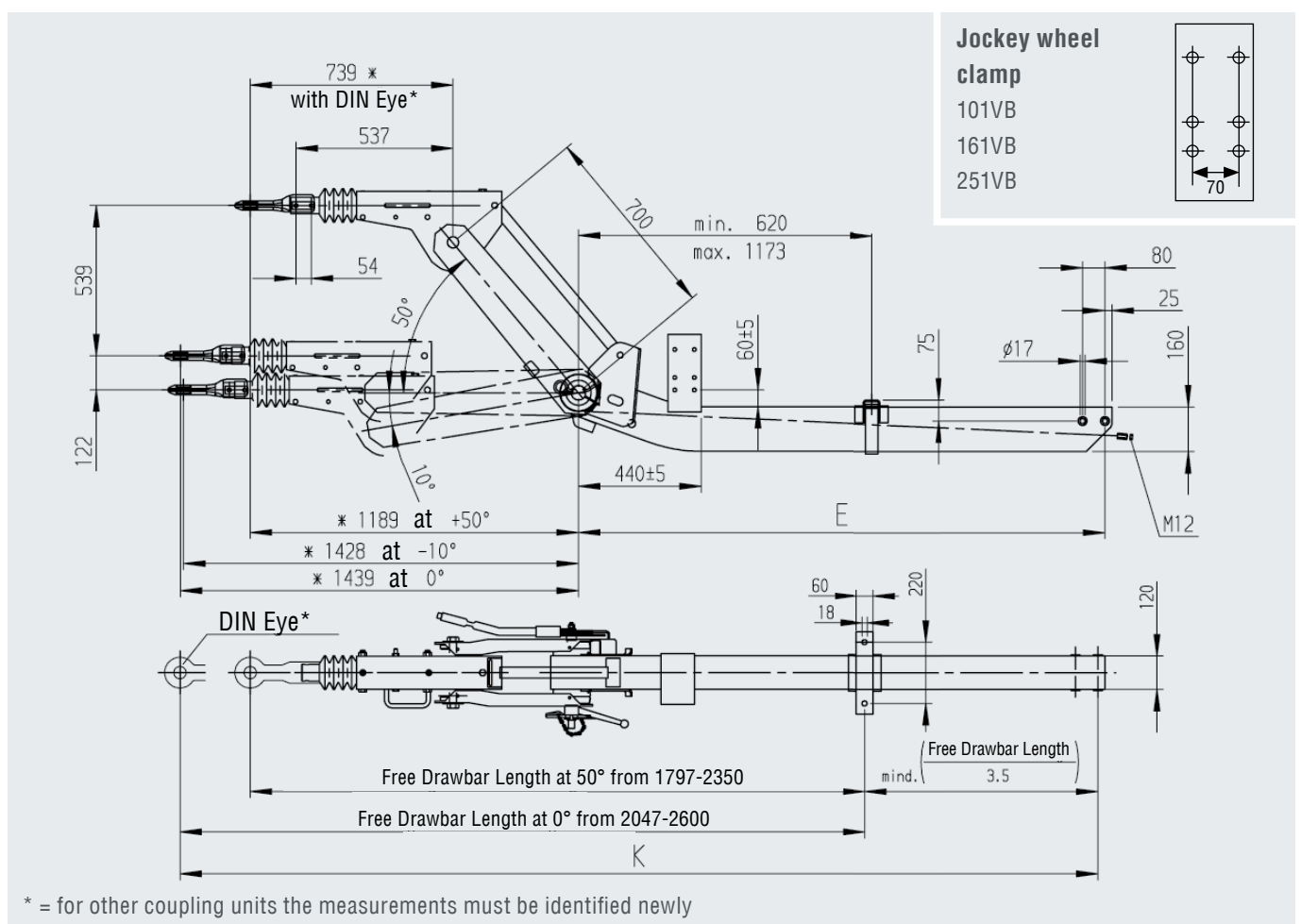
Range Overview

Overrun device complete with drawbar profile (without coupling)						
Drawbar length E mm	Overall length K at 0° DIN-Eye	Overrun device complete with drawbar profile				
		for wheel brake 2051/2361	for wheel brake 3081			
1410	2837	200 540 01	200 540 19	122,0	3	10
1490	2917	200 540 02	200 540 20	123,9	3	10
1570	2997	200 540 03	200 540 21	125,8	3	10
1650	3077	200 540 04	200 540 22	127,7	3	10
1730	3157	200 540 05	200 540 23	129,6	3	10
1810	3237	200 540 06	200 540 24	131,5	3	10
1890	3317	1 213 116	200 540 25	133,4	3	10
1970	3397	200 540 07	200 540 26	135,3	3	10
2050	3477	200 540 08	200 540 27	137,2	3	10
2130	3557	200 540 09	200 540 28	139,1	3	10
2210	3637	200 540 10	200 540 29	141,0	3	10
2290	3717	200 540 11	200 540 30	142,9	3	10
2370	3797	200 540 12	200 540 31	144,8	3	10
2450	3877	200 540 13	200 540 32	146,7	3	10
2530	3957	200 540 14	200 540 33	148,6	3	10
2610	4037	200 540 15	200 540 34	150,5	3	10
2690	4117	200 540 16	200 540 35	152,4	3	10
2770	4197	200 540 17	200 540 36	154,3	3	10
2850	4277	200 540 18	200 540 37	156,2	3	10

Coupling parts slideable: eye end connection D60 / 351VB



Overrun device cpl. fitted with drawbar profile (without coupling parts)

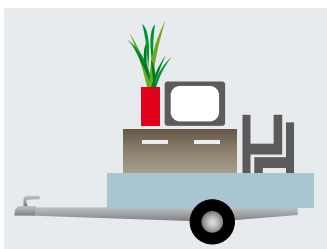
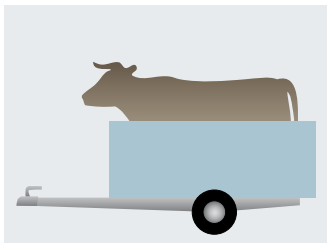


Hexagonal Rubber Suspension with independent suspension

✓ Your Advantage For protective and safe transportation

The AL-KO hexagonal rubber suspension has been developed to provide:

- | Improved driving comfort and driving safety for the car/trailer
- | Protective transportation of certain fragile goods such as furniture, electronic parts, animals or hazardous substances
- | Stress free driving



Special AL-KO axle profile characteristics

| More driving comfort due to greater spring deflection

AL-KO achieves the greatest spring deflections in comparison with all rubber suspension axles. We do not squeeze the rubber in the deflection process but rather give it room to work.

| More driving comfort thanks to softer suspension

The special AL-KO hexagon rubber suspension also gives us the opportunity to design the suspension softer than other rubber suspension systems. The rule of thumb here is the soft spring settings for the automotive industry, to which we are the closes of all rubber suspension systems (Source: Test University Ravensburg).

| More driving safety thanks to high self-damping

A decisive criterion in respect of the suspension of an axle is the self-damping, ie the suspension must stabilise again as soon as possible. Here we also achieve the best self-damping of all rubber suspension axles.

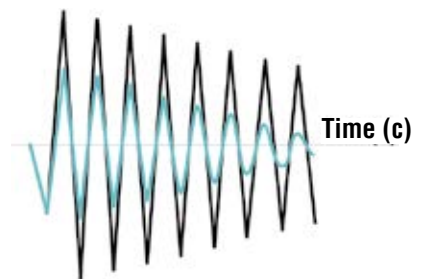
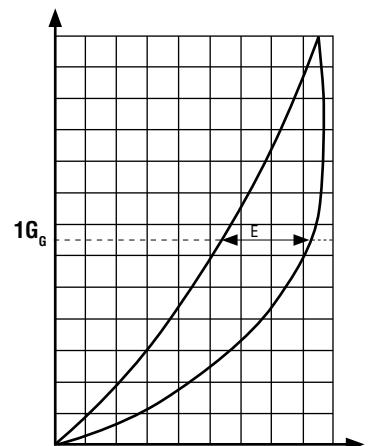


| The independent suspension means that each road wheel has its own suspension

Road unevenness thus only affects the side where it occurs.

| The suspension is maintenance free and thus saves the consumer service and maintenance costs.

| No possible damage to the wheel box housing due to the design of the swing arm.



AL-KO Axles

Bodywork regulation

Wheel housing dimensions:

Technology

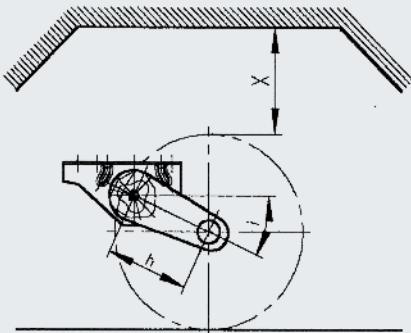
- | Trailing link axle (rubber and steel)
- | Swing arm length:
from 130 mm - 200 mm (Dim. h)
- | Swing arm setting: 0° - 35° (Dim. i)

Technical Information

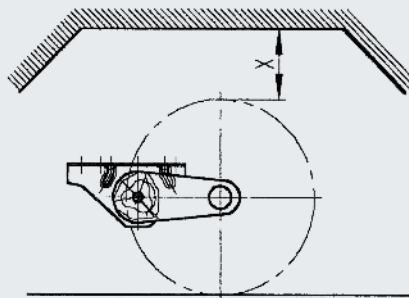
For Delta axle wheel housing dimensions, please contact AL-KO.

Wheel Housing Clearance = Measurement X mm

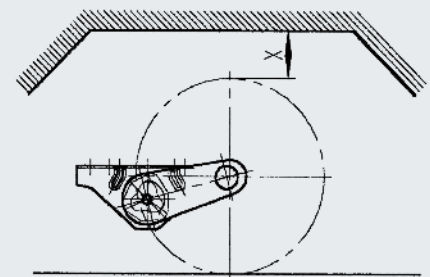
Swing arm length h	Minimum Measurement ~ X	Permissible Weight ~ X	Maximum Compression ~ X
130	110	60	20
145	120	70	20
160	130	80	20
175	140	85	20
200	150	90	20



Position 1 - Unloaded position
i.e. Axle not deflected



Position 2 - Loaded position
i.e. Axle inserted and fully loaded
(= gross trailer weight)



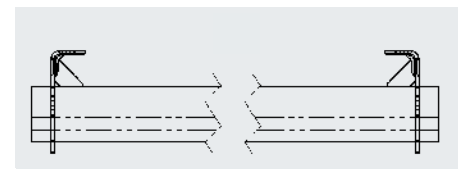
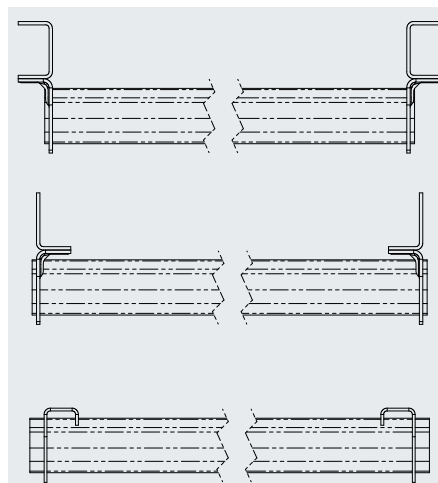
Position 3 - Maximum deflection

Bodywork regulation for frame:

AL-KO axles are equipped with different axle bracket versions. Please consider that the vertical crosspiece of your main-frame has to be positioned directly on the vertical crosspiece of the axle bracket (see graphics).

In case of non-observance damage may cause accident.

Axle bracket versions



For axles with higher axle bracket we recommend to weld support brackets additionally.

AL-KO axles

essential details



Improved heat discharge

Dimensions designed for a bearing lifetime of up to 250 000 km.



Deep drawn and formed brake back plate

Extremely stable steel sheet.
Example: For an axle load of 1300 kg, the wall thickness of back plate would be 3.5 mm.



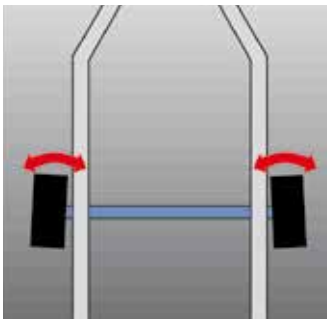
Plug-in shock absorber holder

This makes retrofitting easy and eliminates the need for welding.



Screwable wheel brake

The entire wheel brake can be removed after loosening the screws.
In addition, our specialised swingarm allows us to adjust the initial Bowden cable outlet position of brake to meet our customers' wishes.



Minimal tyre wear

For AL-KO's Delta and Plus axle models, the toe-in is fixed at the factory. We no longer accept large welding tolerances. Toe-in tolerances caused by warping when welding components are greatly reduced with AL-KO.



Optimal corrosion protection

Hot dip galvanised axle body. Brake back plates and various small parts galvanised and yellow chromated.
Extremely corrosion resistant, asbestos-free brake linings (without steel wool).



Double radial inclined ball bearing

Standard for the automobile industry
Dimensions designed for a bearing lifetime of up to 250 000 km.
Maintenance-free
Lubricated for a long life with special grease containing hydrophobic additives
Dirt and water resistant
An external baffle plate (double seal) prevents dirt from getting in
Standardised tightening torque makes fitting easy

Optimal corrosion protection

Procedure	Parts	Coating	Coating thickness structureper	Theoretical corrosion protection inyears (reference values)
Hot dip galvanising	Axle bodies, frames, drawbars, housings for overrun devices	70 µm	2-5 µm	> 10 years, coating damage up to 2 mm – self-healing process
Sendzimir galvanising	Sheet metal parts requiring a high level of accuracy which can be processed from the coil	25 µm	2-5 µm	> 5 years, cut edge self-healing process up to 2 mm
Galvanising + yellow chromating	Parts requiring a high level of accuracy, such as small wheel break parts and overrun device	12 µm	2-5 µm	> 4 years, (but no continuous corrosion protection)
Artificial resin immersion prime coating	Axle swing arms, inner tubes, brake drums	–	–	Outdoor storage resistance of approx. 6 months
special after-treatment procedure (thinner, improved grip, film fixed in all pores; water-resistant, with long-term effect)	Brake drums (special pitch and brake surface)	–	–	Outdoor storage resistance of approx. 6 – 12 months

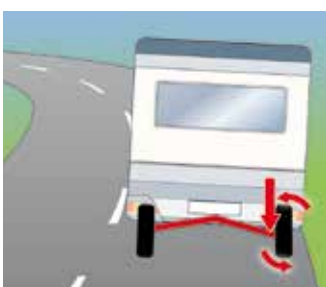
Semi-trailing arms and individual wheel suspension systems counteract



When moving in a curve or pivoting, centrifugal forces put more of a load on the wheel on the outside of the curve. The wheel on the inside of the curve tends to lift off the road.

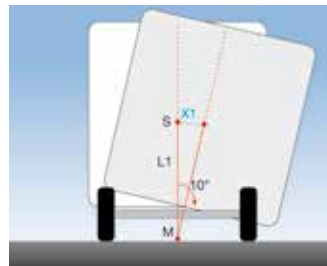


The AL-KO Delta semi-trailing arm axle counteracts the centrifugal force: The wheels are suspended separately on steerers (swing arms) and move around the inclined axle when the suspension is compressed or rebounds.



The forces affecting the wheel on the outside of the curve are transferred to the axle stub of the wheel through the swing arm increasing its toe-in and negative camber (inwards). The wheel resists the centrifugal force and pushes the vehicle inwards.

Additional roll resistance with the AL-KO Euro Delta semi-trailing arm axle



Conventional axle



Delta semi-trailing arm axle

Moving the centre of momentum upwards towards the centre of gravity reduces roll (see illustration (X1, X2)). The smaller roll lever arm of the semi-trailing arm axle (distance from trailer's centre of gravity and centre of momentum) only allows small roll movements when force is applied equally, e.g. side winds, on bridges or when overtaking.

AL-KO Axles

Product classification

Classification	Wheelbrake to swingarm fixing	Track and toe-in setting	Delta axle technology	Comment
COMPACT Axles	welded	no	no	
PLUS Axles	screwed	yes	no	
PREMIUM Axles	screwed	yes	yes	Only for Caravans

Total view axles COMPACT and PLUS

Total trailer weight	Axle body Ø mm	Product group axle	Wheel brake fixing	Wheelbrake size
750 kg	71 hexagonal	Compact	welded	1636 G
900 kg	80 hexagonal	PLUS	screwed	1637
1000 kg	80 hexagonal	PLUS	screwed	2051
1300 kg	97 hexagonal	PLUS	screwed	2051
1300 kg	97 hexagonal	PLUS	screwed	2051
1500 kg	97 hexagonal	PLUS	screwed	2051
1600 kg	97 hexagonal	PLUS	screwed	2361
1800 kg	110 hexagonal	PLUS	screwed	2361
2500 kg	120 hexagonal	COMPACT	welded	3062
3000 kg	120 hexagonal	COMPACT	welded	3062
3000 kg	114 Ø Steel	COMPACT	welded	3062
3500 kg	114 Ø Steel	COMPACT	welded	3081 B
4000 kg	114 Ø Steel	COMPACT	welded	3081 B

Total view axels PREMIUM (Delta axles)

Total trailer weight	Axle body Ø mm	Product group axle	Wheel brake fixing	Wheelbrake size
900 kg	80 hexagonal	PREMIUM	screwed	1637
1000 kg	97 hexagonal	PREMIUM	screwed	2051
1300 kg	97 hexagonal	PREMIUM	screwed	2051
1500 kg	97 hexagonal	PREMIUM	screwed	2051
1600 kg	97 hexagonal	PREMIUM	screwed	2361
1700 kg	97 hexagonal	PREMIUM	screwed	2361
1800 kg	110 hexagonal	PREMIUM	screwed	2361



COMPACT Axles



PLUS Axles



PREMIUM Axles

Brake drum with cooling ribs	Bearing type C=Compact bearing K=Taper roller bearing	Swingarm design	Swingarm length	Shock absorber bracket fixing
no	K Ø 17,46/39,87-13,84 K Ø 29/50,29-14,22	forging	145 mm	bolted
yes	C Ø 30/60-37	stableform	160 mm	plugged
yes	C Ø 34/64-37	stableform	158 mm	plugged
yes	C Ø 34/64-37	stableform	161,5 mm	plugged
yes	C Ø 39/72-37	stableform	175 mm	plugged
yes	C Ø 39/72-37	stableform	161,5 mm	plugged
yes	C Ø 42/80-42	forging	160 mm	welded
yes	C Ø 42/80-42	forging	175 mm	welded
no	K Ø 40/68-19 K Ø 55/100-22,75	forging	200 mm	welded
no	K Ø 40/68-19 K Ø 55/100-22,75	forging	175 mm	welded
no	K Ø 40/68-19 K Ø 55/100-22,75	forging	200 mm	welded
no	K Ø 40/80-19,75 K Ø 55/100-22,75	forging	200 mm	welded
no	K Ø 40/80-19,75 K Ø 55/100-22,75	forging	200 mm	welded

Brake drum with cooling ribs	Bearing type C=Compact bearing K=Taper roller bearing	Swingarm design	Swingarm length	Shock absorber bracket fixing
yes	C Ø 30/60-37	stableform	160 mm	plugged
yes	C Ø 34/64-37	stableform	185 mm	plugged
yes	C Ø 34/64-37	stableform	185 mm	plugged
yes	C Ø 39/72-37	stableform	185 mm	plugged
yes	C Ø 42/80-42	forging	185 mm	welded
yes	C Ø 42/80-42	forging	185 mm	welded
yes	C Ø 42/80-42	forging	185 mm	welded

Axle COMPACT unbraked

750 kg, 100x4

Technology

Model: UBR 700
Axle type: 700-5
Load per axle: SA 750 kg
Suspension: Hexagonal rubber suspension
Swing arm: 145 mm
PCD: 100x4
Wheel bearing: **Roller bearing**
Center hole: min. 57 mm

Contents

! Wheel bolts (loose)
 ! Operating instructions


Surface Treatment

! Axle body hot dip galvanised

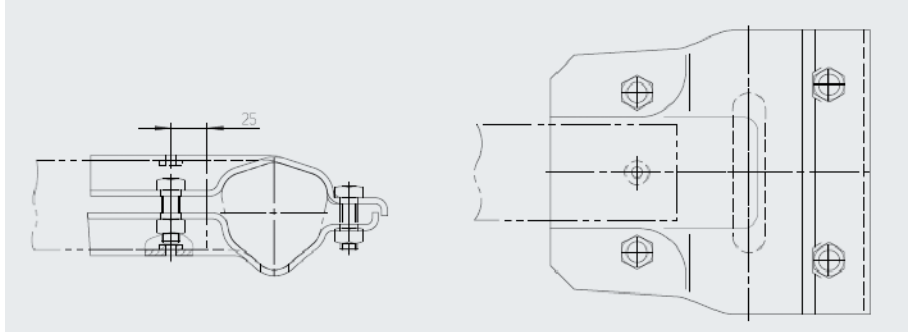


Range Overview

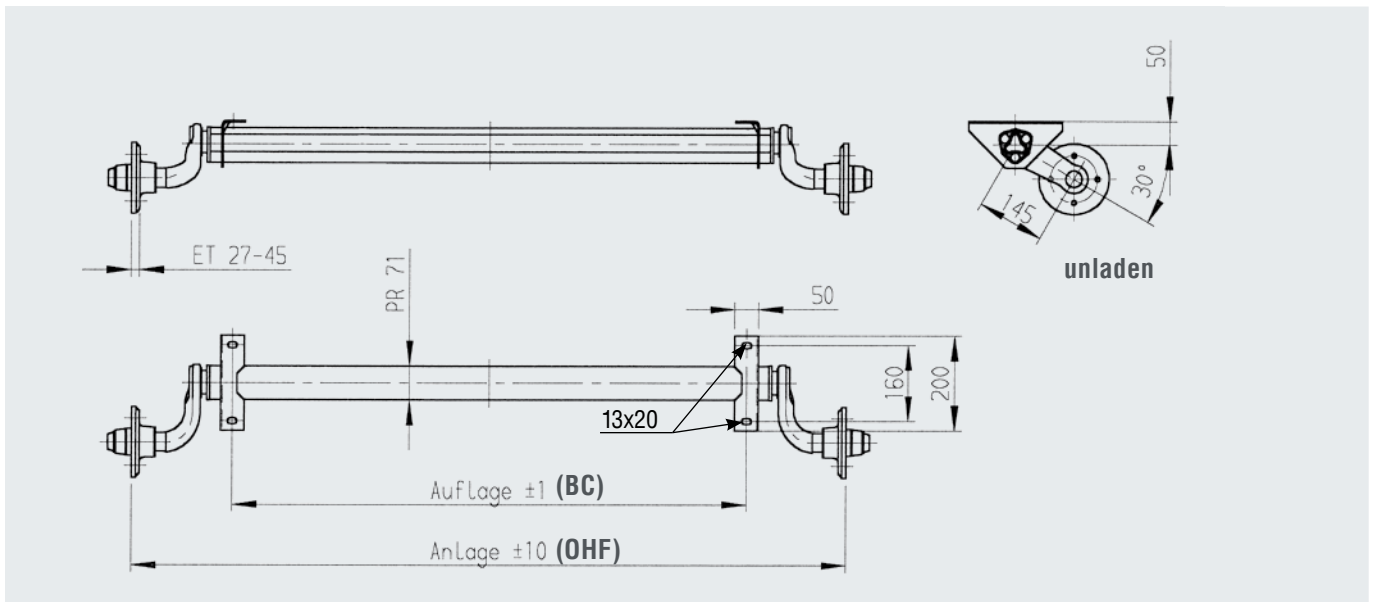
OHF in mm	BC in mm	Single Axle			Single Axle with shackle and high axle bracket				
		Wheel bolts Conical M 12x1,5	kg	mm	kg	mm	mm		
		Axle complete			Axle complete				
1130	700	200 392 01	25	50	10	200 392 22	27	50	10
1180	750	200 392 02	25	50	10	200 392 23	27	50	10
1230	800	200 392 03	25	50	10	200 392 24	27	50	10
1280	850	200 392 04	25	50	10	200 392 25	27	50	10
1330	900	200 392 05	26	50	10	200 392 26	28	50	10
1380	950	200 392 06	26	50	10	200 392 27	28	50	10
1430	1000	244 110	26	50	2	249 298	28	50	2
1480	1050	200 392 07	26	50	10	200 392 28	28	50	10
1530	1100	240 186	27	50	10	249 299	29	50	10
1580	1150	200 392 08	27	50	10	200 392 29	29	50	10
1630	1200	244 111	28	50	2	249 300	30	50	2
1680	1250	200 392 09	28	50	10	200 392 30	30	50	10
1730	1300	200 392 10	28	50	10	200 392 31	30	50	10
1780	1350	200 392 11	28	50	10	200 392 32	31	50	10
1830	1400	200 392 12	28	50	10	200 392 33	31	50	10
1880	1450	200 392 13	29	50	10	200 392 34	31	50	10
1930	1500	200 392 14	29	50	10	200 392 35	31	50	10
1980	1550	200 392 15	29	50	10	200 392 36	32	50	10
2030	1600	200 392 16	29	50	10	200 392 37	32	50	10
2080	1650	200 392 17	29	50	10	200 392 38	32	50	10
2130	1700	200 392 18	29	50	10	200 392 39	32	50	10
2180	1750	200 392 19	29	50	10	200 392 40	32	50	10
2230	1800	200 392 20	30	50	10	200 392 41	32	50	10
2280	1850	200 392 21	30	50	10	200 392 42	32	50	10

Clamp for drawbar tube 60 

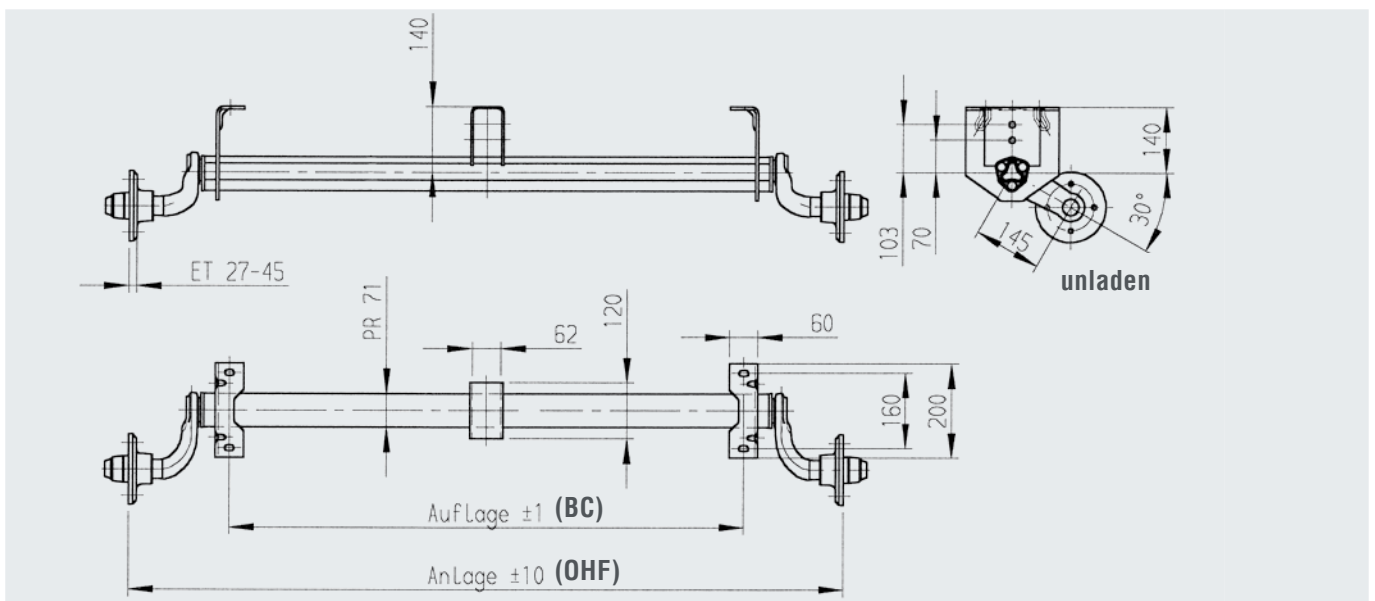
Part No. 267 395



Single axle



Single axle with shackle and high axle bracket



Axle COMPACT unbraked

750 kg, 100x4

Technology

Model: UBR 700
Axle type: 700-5
Load per axle: SA 750 kg
Suspension: Hexagonal rubber suspension
Swing arm length: 145 mm
PCD: 100x4
Wheel bearing: Compact bearing
Center hole: min. 57 mm

Contents

! Wheel bolts (loose)
 ! Operating instructions

Surface Treatment

! Axle body hot dip galvanised

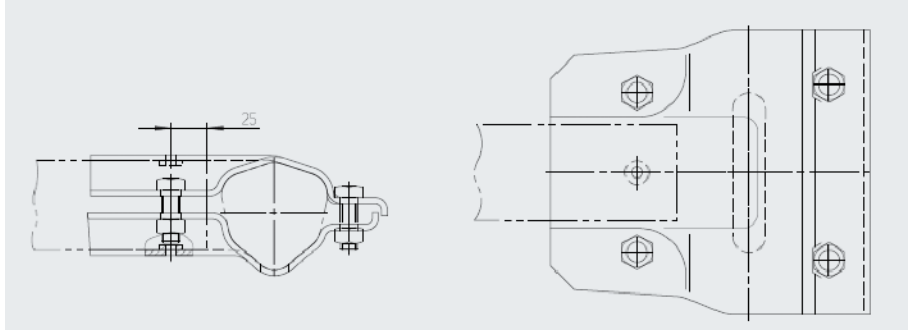


Range Overview

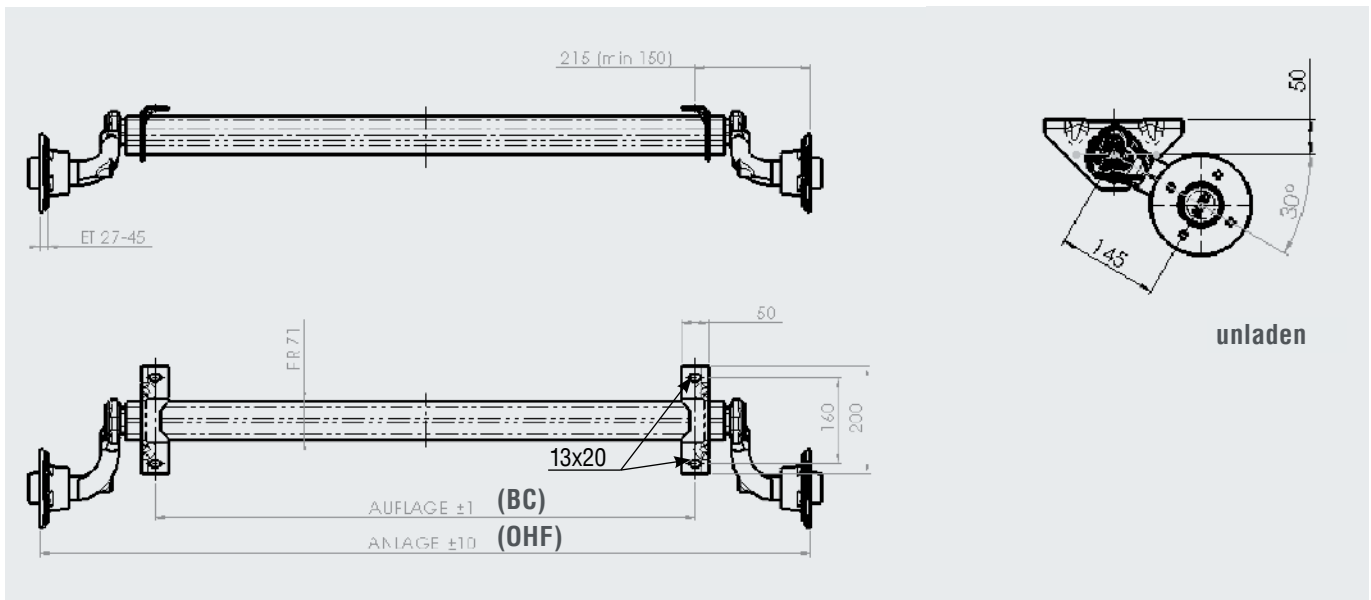
OHF in mm	BC in mm	Single axle			Single Axle with shackle and high axle bracket				
		Wheel bolts Conical M 12x1,5	kg	mm	kg	mm	mm		
		Axle complete			Axle complete				
1130	700	200 567 01	25	50	10	200 567 25	27	50	10
1180	750	200 567 02	25	50	10	200 567 26	27	50	10
1230	800	200 567 03	25	50	10	200 567 27	27	50	10
1280	850	200 567 04	25	50	10	200 567 28	27	50	10
1330	900	200 567 05	26	50	10	200 567 29	28	50	10
1380	950	200 567 06	26	50	10	200 567 30	28	50	10
1430	1000	200 567 07	26	50	10	200 567 31	28	50	10
1480	1050	200 567 08	26	50	10	200 567 32	28	50	10
1530	1100	200 567 09	27	50	10	200 567 33	29	50	10
1580	1150	200 567 10	27	50	10	200 567 34	29	50	10
1630	1200	200 567 11	28	50	10	200 567 35	30	50	10
1680	1250	200 567 12	28	50	10	200 567 36	30	50	10
1730	1300	200 567 13	28	50	10	200 567 37	30	50	10
1780	1350	200 567 14	28	50	10	200 567 38	31	50	10
1830	1400	200 567 15	29	50	10	200 567 39	31	50	10
1880	1450	200 567 16	29	50	10	200 567 40	31	50	10
1930	1500	200 567 17	29	50	10	200 567 41	31	50	10
1980	1550	200 567 18	29	50	10	200 567 42	32	50	10
2030	1600	200 567 19	29	50	10	200 567 43	32	50	10
2080	1650	200 567 20	29	50	10	200 567 44	32	50	10
2130	1700	200 567 21	29	50	10	200 567 45	32	50	10
2180	1750	200 567 22	29	50	10	200 567 46	32	50	10
2230	1800	200 567 23	30	50	10	200 567 47	32	50	10
2280	1850	200 567 24	30	50	10	200 567 48	32	50	10

Clamp for drawbar tube $\varnothing 60$

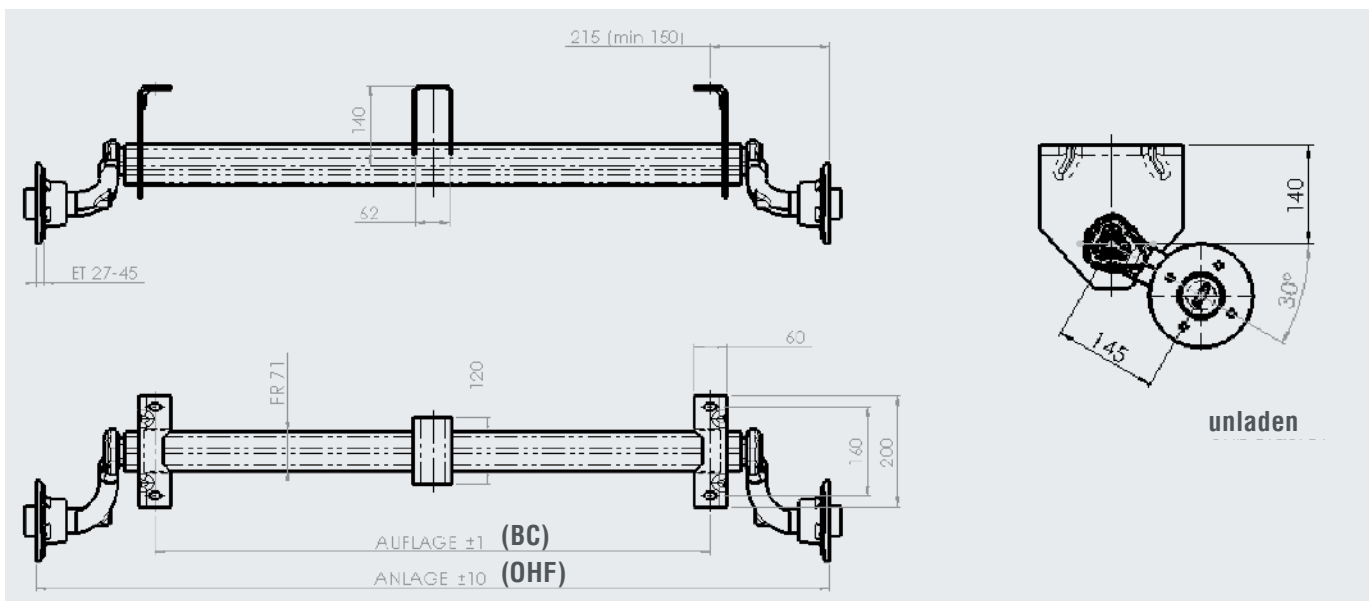
Part No. 267 395



Single axle



Single axle with shackle and high axle bracket



Axle COMPACT unbraked

750 kg, 112x5

Technology

Model: UBR 700
Axle type: 700-5
Load per axle: SA 750 kg
Suspension: Hexagonal rubber suspension
Swing arm: 145 mm
PCD: 112x5
Wheel bearing: **Roller bearing**
Center hole: min. 57 mm

Contents

! Wheel bolts (loose)
 ! Operating instructions

Surface Treatment

! Axle body hot dip galvanised

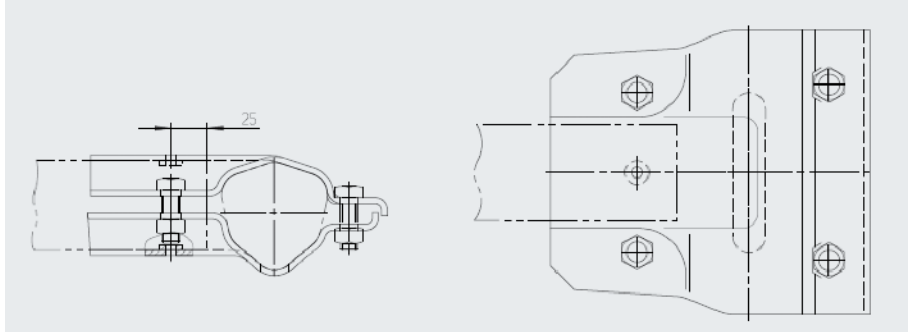


Range Overview

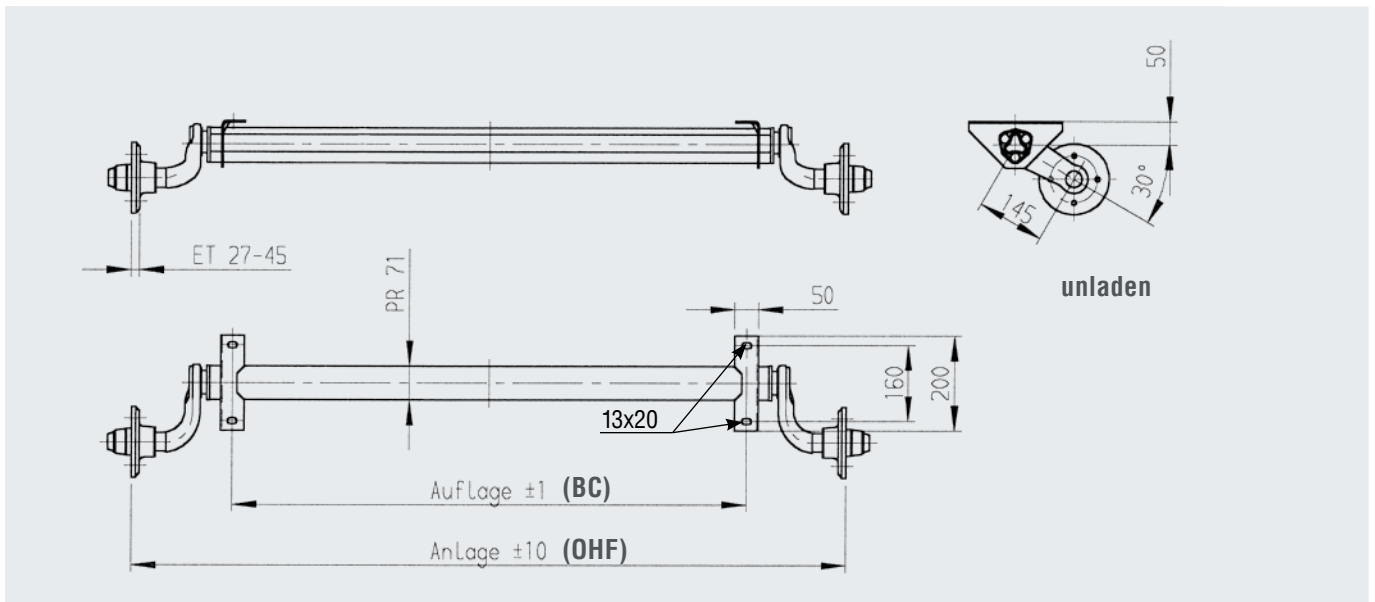
OHF in mm	BC in mm	Single axle			Single Axle with shackle and high axle bracket				
		Wheel bolts Spherical M 12x1,5	kg	kg	kg	Wheel bolts Spherical 12x1,5	kg	kg	kg
		Axle complete				Axle complete			
1130	700	200 393 01	25	50	10	200 393 22	27	50	10
1180	750	200 393 02	25	50	10	200 393 23	27	50	10
1230	800	200 393 03	25	50	10	200 393 24	27	50	10
1280	850	200 393 04	25	50	10	200 393 25	27	50	10
1330	900	200 393 05	26	50	10	200 393 26	28	50	10
1380	950	200 393 06	26	50	10	200 393 27	28	50	10
1430	1000	244 112	26	50	2	249 301	28	50	10
1480	1050	200 393 07	26	50	10	200 393 28	29	50	10
1530	1100	273 167	27	50	10	249 302	29	50	10
1580	1150	200 393 08	27	50	10	200 393 29	29	50	10
1630	1200	244 113	28	50	2	249 303	30	50	10
1680	1250	200 393 09	28	50	10	200 393 30	30	50	10
1730	1300	200 393 10	28	50	10	200 393 31	30	50	10
1780	1350	200 393 11	28	50	10	200 393 32	30	50	10
1830	1400	200 393 12	28	50	10	200 393 33	30	50	10
1880	1450	200 393 13	28	50	10	200 393 34	30	50	10
1930	1500	200 393 14	29	50	10	200 393 35	31	50	10
1980	1550	200 393 15	29	50	10	200 393 36	31	50	10
2030	1600	200 393 16	29	50	10	200 393 37	31	50	10
2080	1650	200 393 17	29	50	10	200 393 38	31	50	10
2130	1700	200 393 18	29	50	10	200 393 39	31	50	10
2180	1750	200 393 19	29	50	10	200 393 40	31	50	10
2230	1800	200 393 20	30	50	10	200 393 41	32	50	10
2280	1850	200 393 21	30	50	10	200 393 42	32	50	10

Clamp for drawbar tube 60 □

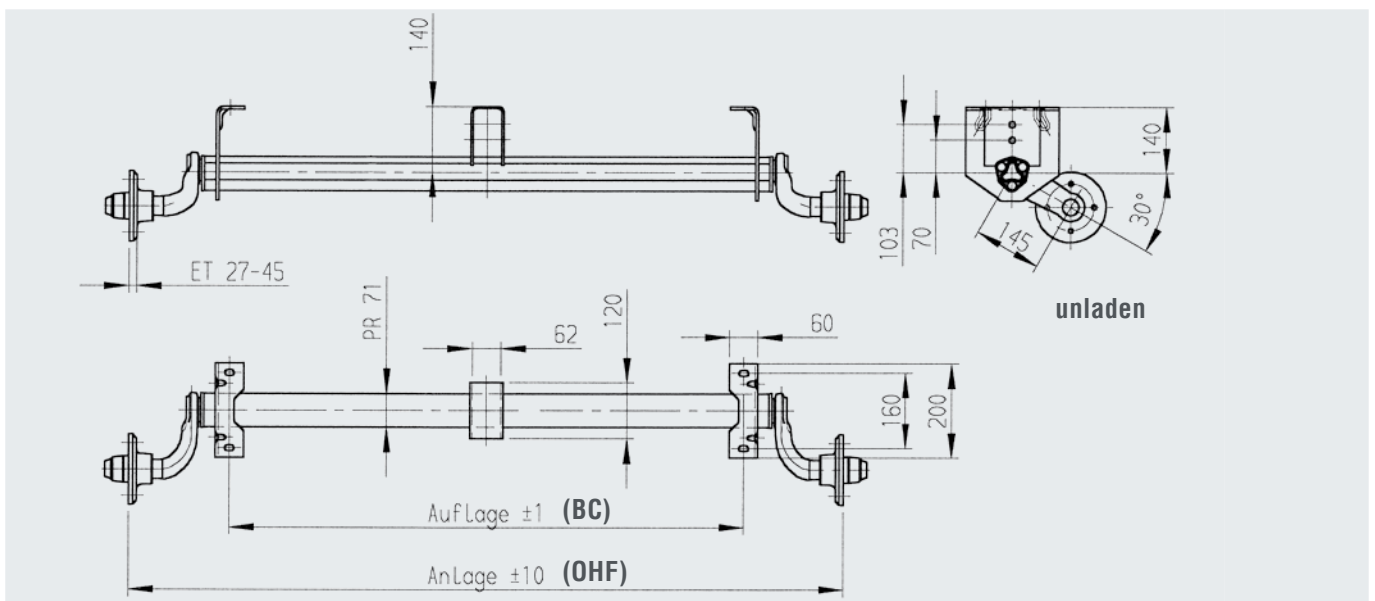
Part No. 267 395



Single axle



Single axle with shackle and high axle bracket



Axle PLUS unbraked

1.000 kg, 100x4, 112x5

Technology

Model: UBR
Axle type: UBR 850-10
Load per axle: SA 1.000 kg
Suspension: Hexagonal rubber suspension
Swing arm: 158 mm
PCD: 100x4
Wheel bearing: Compact bearing
Center hole: min. 57 mm

Contents

Wheel bolts (loose)
 Operating instructions

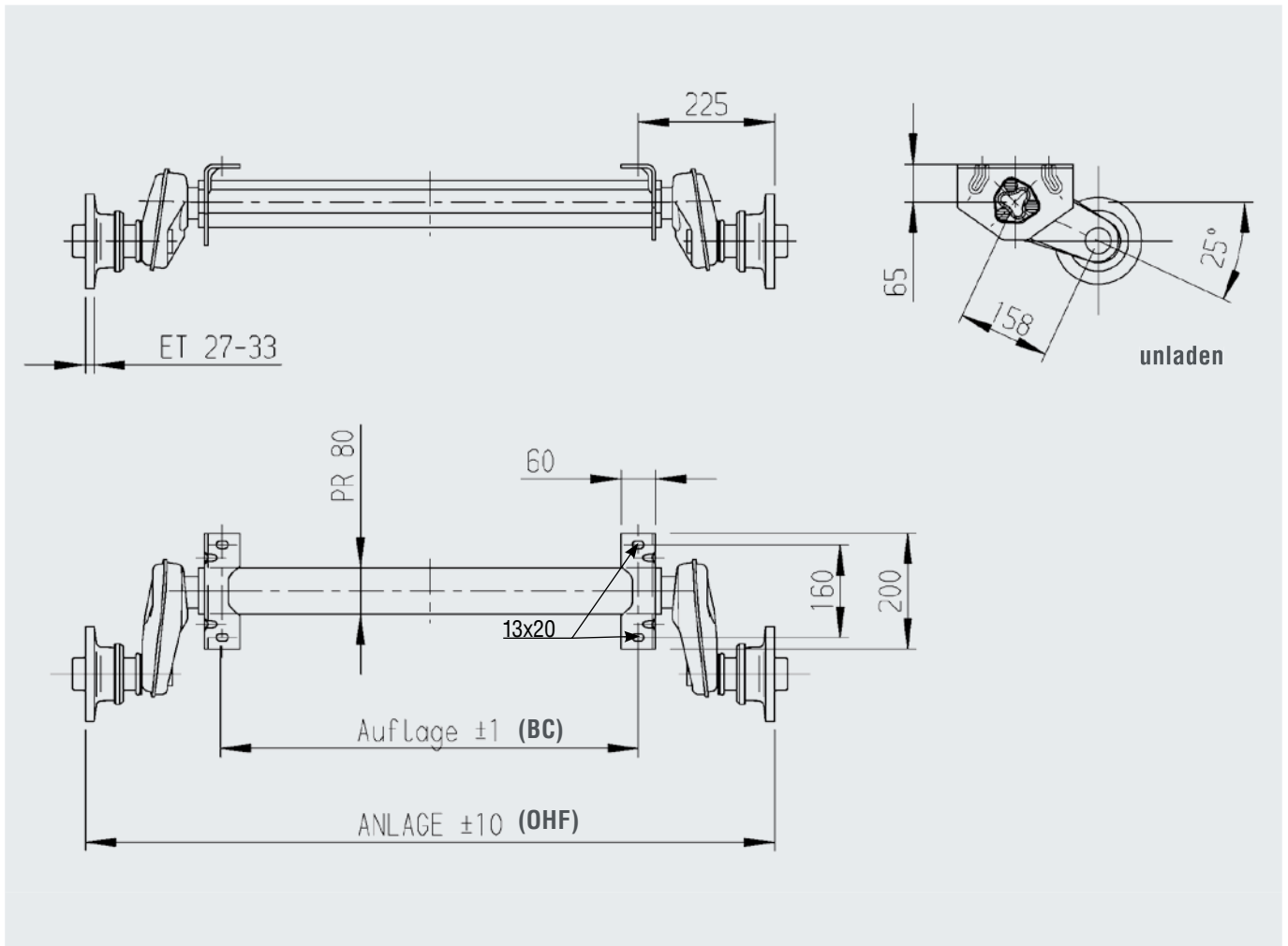
Surface Treatment

Axle body hot dip galvanised



Range Overview

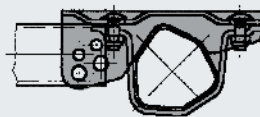
OHF in mm	BC in mm	Single axle 100x4			Single axle 112x5				
		Wheel bolts Conical M 12x1,5	Icon 1	Icon 2	Icon 3	Wheel bolts Spherical 12x1,5	Icon 4	Icon 5	Icon 6
		Axle complete				Axle complete			
1200	750	200 562 01	29	30	10	200 560 01	29	30	10
1250	800	200 562 02	29	30	10	200 560 02	29	30	10
1300	850	200 562 03	29	30	10	200 560 03	29	30	10
1350	900	200 562 04	30	30	10	200 560 04	30	30	10
1400	950	200 562 05	30	30	10	200 560 05	30	30	10
1450	1000	200 562 06	30	30	10	200 560 06	30	30	10
1490	1040	200 562 07	30	30	10	200 560 07	30	30	10
1520	1070	200 562 08	31	30	10	200 560 08	31	30	10
1550	1100	200 562 09	31	30	10	200 560 09	31	30	10
1600	1150	200 562 10	31	30	10	200 560 10	31	30	10
1650	1200	200 562 11	31	30	10	1 222 783	31	30	10
1670	1220	200 562 12	32	30	10	200 560 11	32	30	10
1700	1250	200 562 13	32	30	10	200 560 12	32	30	10
1760	1310	200 562 14	32	30	10	200 560 13	32	30	10
1800	1350	200 562 15	32	30	10	200 560 14	32	30	10
1850	1400	200 562 16	32	30	10	200 560 15	32	30	10
1900	1450	200 562 17	33	30	10	200 560 16	33	30	10
1950	1500	200 562 18	33	30	10	200 560 17	33	30	10
1980	1530	200 562 19	33	30	10	200 560 18	33	30	10
2000	1550	200 562 20	33	30	10	200 560 19	33	30	10
2030	1580	200 562 21	33	30	10	200 560 20	33	30	10
2075	1625	200 562 22	34	30	10	200 560 21	34	30	10
2120	1670	200 562 23	34	30	10	200 560 22	34	30	10
2150	1700	200 562 24	34	30	10	200 560 23	34	30	10
2200	1750	200 562 25	34	30	10	200 560 24	34	30	10
2250	1800	200 562 26	34	30	10	200 560 25	34	30	10
2300	1850	200 562 27	34	30	10	200 560 26	34	30	10
2350	1900	200 562 28	34	30	10	200 560 27	34	30	10



Towbar-to-axle fixing bracket screwable

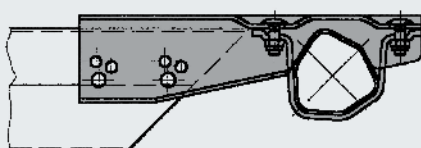
∅ 60

Part No. 247 853



70,1 VO / 75 VU / 102 VB

Part No. 249 116



Axle PLUS unbraked

1.300 kg, 112x5

Technology

Model: UBR
Axle type: UBR 1200-5
Load per axle: SA 1.300 kg
Suspension: Hexagonal rubber suspension
Swing arm: 161,5 mm
PCD: 112x5
Wheel bearing: Compact bearing
Center hole: min. 57 mm

Contents

Wheel bolts (loose)
 Operating instructions

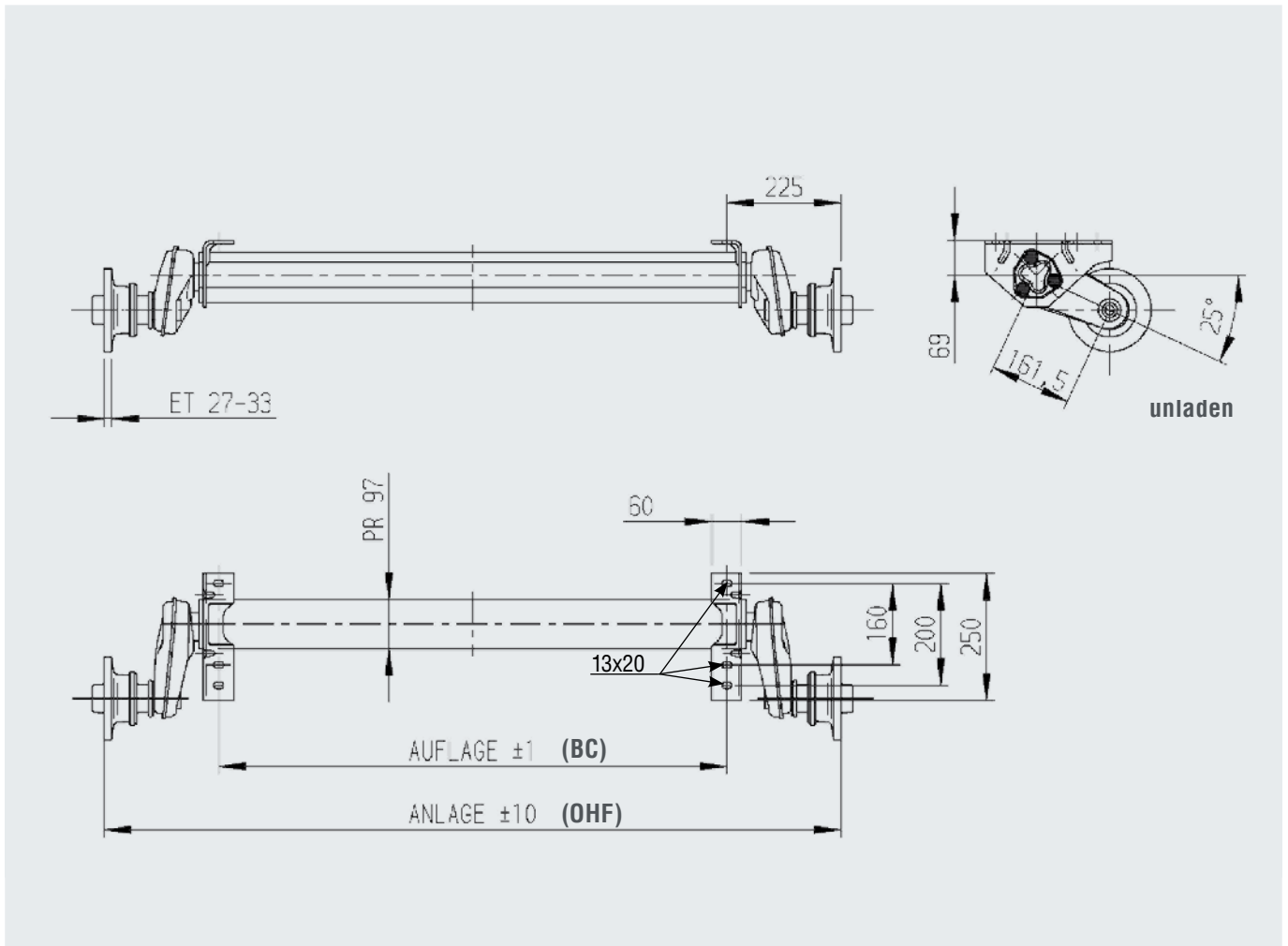
Surface Treatment

Axle body hot dip galvanised



Range Overview

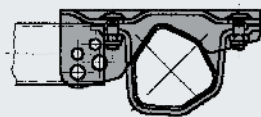
OHF in mm	BC in mm	Single axle Wheel bolts Spherical M 12x1,5 Axle complete			
			Wheel bolts (loose)	Operating instructions	Surface Treatment
1200	750	200 561 01	33	30	10
1250	800	200 561 02	33	30	10
1300	850	200 561 03	33	30	10
1350	900	200 561 04	34	30	10
1400	950	200 561 05	34	30	10
1450	1000	1 222 364	34	30	10
1490	1040	200 561 06	34	30	10
1520	1070	200 561 07	35	30	10
1550	1100	200 561 08	35	30	10
1600	1150	200 561 09	35	30	10
1650	1200	200 561 10	35	30	10
1670	1220	200 561 11	36	30	10
1700	1250	200 561 12	36	30	10
1760	1310	200 561 13	36	30	10
1800	1350	200 561 14	36	30	10
1850	1400	200 561 15	36	30	10
1900	1450	200 561 16	37	30	10
1950	1500	200 561 17	37	30	10
1980	1530	200 561 18	37	30	10
2000	1550	200 561 19	37	30	10
2030	1580	200 561 20	37	30	10
2075	1625	200 561 21	38	30	10
2120	1670	200 561 22	38	30	10
2150	1700	200 561 23	38	30	10
2200	1750	200 561 24	38	30	10
2250	1800	200 561 25	38	30	10
2300	1850	200 561 26	38	30	10
2350	1900	200 561 27	38	30	10



Towbar-to-axle fixing bracket screwable

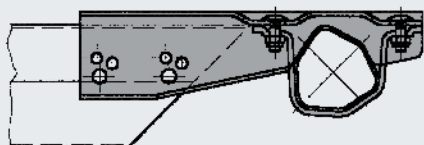
Ø 70 / Ø 88,9 / □ 60 / □ 70 / □ 100

Part No. 247 684



for rectangular tubes 80x140

Part No. 249 117



Axle PLUS unbraked

1.500 kg, 112x5

Technology

Model: UBR
Axle type: UBR 1600-3
Load per axle: SA 1.500 kg
Suspension: Hexagonal rubber suspension
Swing arm: 161,5 mm
PCD: 112x5
Wheel bearing: Compact bearing
Center hole: min. 57 mm

Contents

Wheel bolts (loose)
 Operating instructions

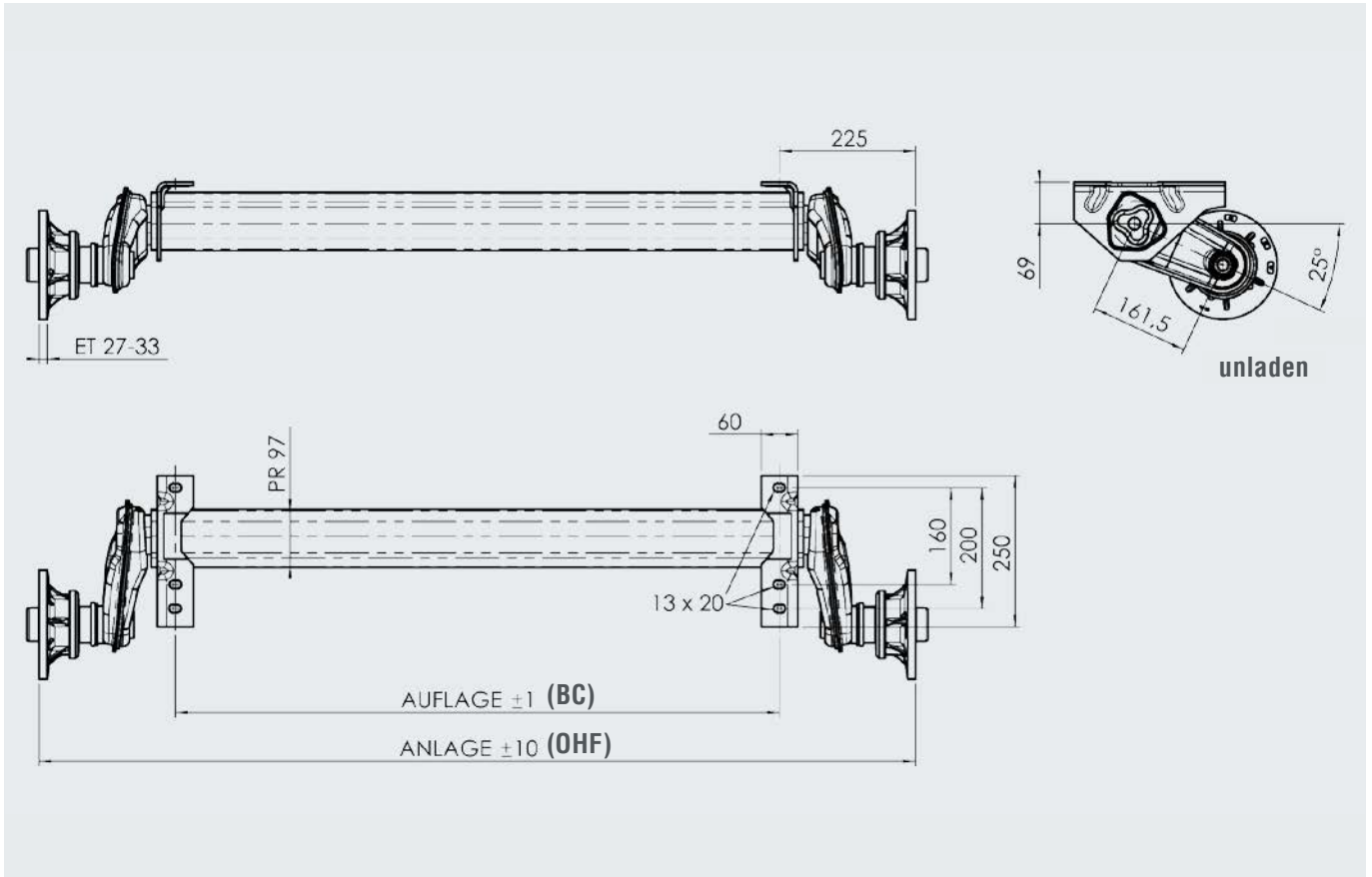
Surface Treatment

Axle body hot dip galvanised



Range Overview

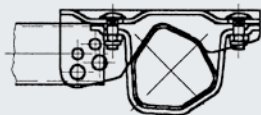
OHF in mm	BC in mm	Single axle Wheel bolts Spherical M 12x1,5 Axle complete	Icons		
			🔧	🏠 🏠	🔧
1200	750	200 569 01	33	- 30	10
1250	800	200 569 02	33	- 30	10
1300	850	200 569 03	33	- 30	10
1350	900	200 569 04	34	- 30	10
1400	950	200 569 05	34	- 30	10
1450	1000	1 421 519	34	- 30	10
1490	1040	200 569 06	34	- 30	10
1520	1070	200 569 07	35	- 30	10
1550	1100	200 569 08	35	- 30	10
1600	1150	200 569 09	35	- 30	10
1650	1200	200 569 10	35	- 30	10
1670	1220	200 569 11	36	- 30	10
1700	1250	200 569 12	36	- 30	10
1760	1310	200 569 13	36	- 30	10
1800	1350	200 569 14	36	- 30	10
1850	1400	200 569 15	36	- 30	10
1900	1450	200 569 16	37	- 30	10
1950	1500	200 569 17	37	- 30	10
1980	1530	200 569 18	37	- 30	10
2000	1550	200 569 19	37	- 30	10
2030	1580	200 569 20	37	- 30	10
2075	1625	200 569 21	38	- 30	10
2120	1670	200 569 22	38	- 30	10
2150	1700	200 569 23	38	- 30	10
2200	1750	200 569 24	38	- 30	10
2250	1800	200 569 25	38	- 30	10
2300	1850	200 569 26	38	- 30	10
2350	1900	200 569 27	38	- 30	10



Towbar-to-axle fixing bracket screwable

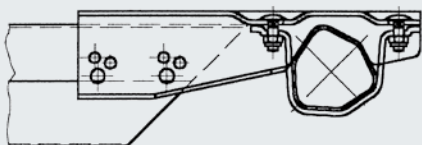
Ø 70 / Ø 88,9 / □ 60 / □ 70 / □ 100

Part No. 247 684



for rectangular tubes 80x140

Part No. 249 117



Axle PLUS unbraked

1.800 kg, 112x5

Technology

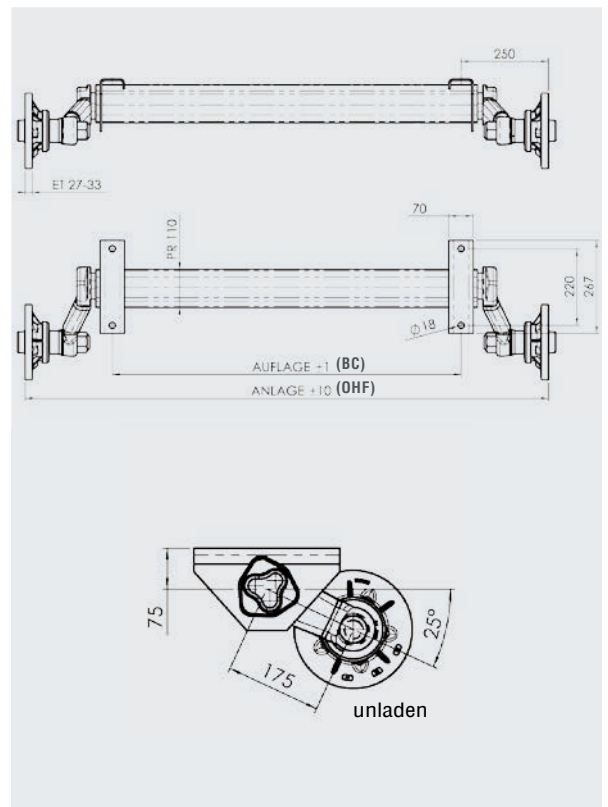
Model: UBR
Axle type: UBR 1800-9
Load per axle: SA 1.800 kg
Suspension: Hexagonal rubber suspension
Swing arm: 175 mm
PCD: 112x5
Wheel bearing: Compact bearing
Center hole: min. 66,5 mm

Contents

Wheel bolts (loose)
 Operating instructions

Surface Treatment

Axle body hot dip galvanised



Range Overview

OHF in mm	BC in mm	Single axle			
		Wheel bolts Spherical M 12x1,5	Icon 1	Icon 2	Icon 3
		Axle complete	Icon 4	Icon 5	Icon 6
1400	900	200 570 01	58	- 30	10
1450	950	200 570 02	58	- 30	10
1500	1000	1 421 520	58	- 30	10
1540	1040	200 570 03	59	- 30	10
1570	1070	200 570 04	59	- 30	10
1600	1100	200 570 05	59	- 30	10
1650	1150	200 570 06	59	- 30	10
1700	1200	200 570 07	60	- 30	10
1720	1220	200 570 08	60	- 30	10
1750	1250	200 570 09	60	- 30	10
1810	1310	200 570 10	60	- 30	10
1850	1350	200 570 11	60	- 30	10
1900	1400	200 570 12	61	- 30	10
1950	1450	200 570 13	61	- 30	10
2000	1500	200 570 14	61	- 30	10
2030	1530	200 570 15	61	- 30	10
2050	1550	200 570 16	62	- 30	10
2080	1580	200 570 17	62	- 30	10
2100	1600	200 570 18	62	- 30	10
2125	1625	200 570 19	62	- 30	10
2170	1670	200 570 20	62	- 30	10
2200	1700	200 570 21	63	- 30	10
2250	1750	200 570 22	63	- 30	10
2300	1800	200 570 23	63	- 30	10
2350	1850	200 570 24	63	- 30	10

Rigid axles unbraked PLUS

750 kg, 98x4 and 100x4

Technic

Model: STARR UBR PLUS
Axle type: LS 750
Total weight: EA 750 kg
PCD: 98x4 / 100x4

Scope of supply

Wheelbolts loose

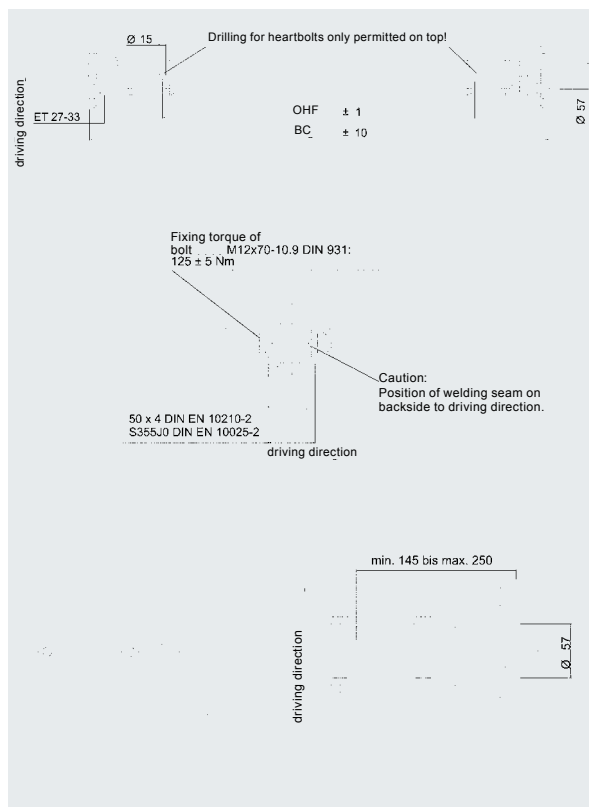
Accessoires

See following pages

Surface treatment

Axle body hot dip galvanized

Take notice of installation guideline!



Range overview

OHF in mm	BC in mm	Single axle with PCD 98x4 RIGID UBR PLUS LS 750	Single axle with PCD 100x4 RIGID UBR PLUS LS 750	15,0	-	50	10
		Wheelbolts Spherical M 12x1,5 Axle complete	Wheelbolts Conical M 12x1,5 Axle complete				
1130	700	200 571 01	200 571 49	15,0	-	50	10
1180	750	200 571 02	200 571 50	15,5	-	50	10
1230	800	200 571 03	200 571 51	15,5	-	50	10
1280	850	200 571 04	200 571 52	16,0	-	50	10
1330	900	200 571 05	200 571 53	16,0	-	50	10
1380	950	200 571 06	200 571 54	16,5	-	50	10
1430	1000	142 155 9	142 152 1	17,0	-	50	10
1480	1050	200 571 07	200 571 55	17,0	-	50	10
1530	1100	200 571 08	200 571 56	17,5	-	50	10
1580	1150	200 571 09	200 571 57	17,5	-	50	10
1630	1200	200 571 10	200 571 58	18,0	-	50	10
1680	1250	200 571 11	200 571 59	18,0	-	50	10
1730	1300	200 571 12	200 571 60	18,5	-	50	10
1780	1350	200 571 13	200 571 61	19,0	-	50	10
1830	1400	200 571 14	200 571 62	19,0	-	50	10
1880	1450	200 571 15	200 571 63	19,5	-	50	10
1930	1500	200 571 16	200 571 64	20,0	-	50	10
1980	1550	200 571 17	200 571 65	20,0	-	50	10
2030	1600	200 571 18	200 571 66	20,5	-	50	10
2080	1650	200 571 19	200 571 67	20,5	-	50	10
2130	1700	200 571 20	200 571 68	21,0	-	50	10
2180	1750	200 571 21	200 571 69	21,0	-	50	10
2230	1800	200 571 22	200 571 70	21,5	-	50	10
2280	1850	200 571 23	200 571 71	22,0	-	50	10
2330	1900	200 571 24	201 571 72	22,0	-	50	10

Rigid axles unbraked PLUS

1500 kg, 112x5

Technic

Model: RIGID UBR PLUS
Axle type: LS 1500
Total weight: EA 1500 kg
PCD: 112x5 - M12x1.5

Scope of supply

Wheelbolts loose

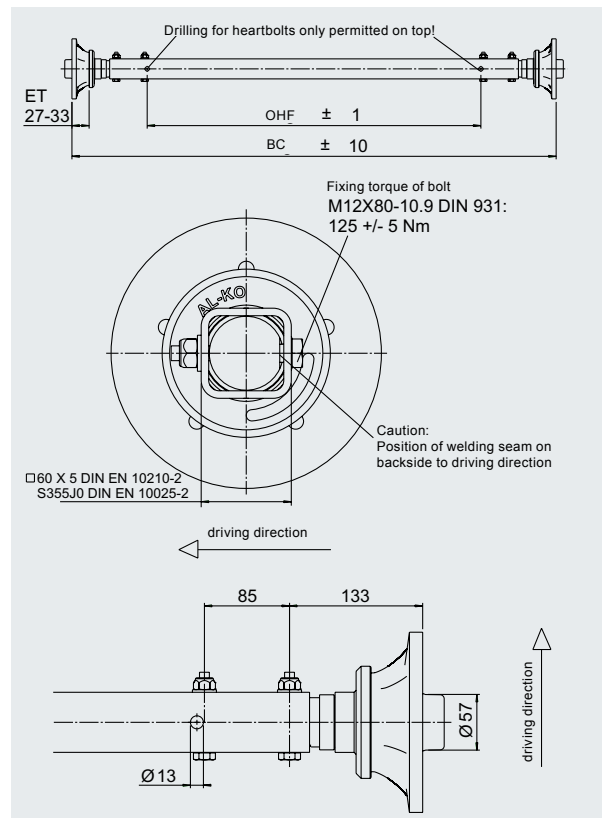
Accessoires

See following pages

Surface treatment

Axle body hot dip galvanized

Take notice of installation guideline!



Range overview

OHF in mm	BC in mm	Single axle with PCD 112x5 RIGID UBR PLUS LS 1500	Single axle with PCD 112x5 waterproof RIGID UBR PLUS LS 1500 WD	Waterproof	Welding seam	Welding seam	Welding seam
		Wheelbolts Spherical M 12x1,5 Axle complete	Wheelbolts Conical M 12x1,5 Axle complete				
1150	700	200 578 01	200 579 01	24	-	50	10
1200	750	200 578 02	200 579 02	24,5	-	50	10
1250	800	200 578 03	200 579 03	24,9	-	50	10
1300	850	200 578 04	200 579 04	25,3	-	50	10
1350	900	200 578 05	200 579 05	25,7	-	50	10
1400	950	200 578 06	200 579 06	26,2	-	50	10
1450	1000	1 422 441	200 579 07	26,6	-	50	10
1500	1050	200 578 07	200 579 08	27	-	50	10
1550	1100	200 578 08	200 579 09	27,5	-	50	10
1600	1150	200 578 09	200 579 10	27,9	-	50	10
1650	1200	200 578 10	200 579 11	28,3	-	50	10
1700	1250	200 578 11	200 579 12	28,7	-	50	10
1750	1300	200 578 12	200 579 13	29,2	-	50	10
1800	1350	200 578 13	200 579 14	29,6	-	50	10
1850	1400	200 578 14	200 579 15	30	-	50	10
1900	1450	200 578 15	200 579 16	30,4	-	50	10
1950	1500	200 578 16	200 579 17	30,9	-	50	10
2000	1550	200 578 17	200 579 18	31,3	-	50	10
2050	1600	200 578 18	200 579 19	31,7	-	50	10
2100	1650	200 578 19	200 579 20	32,2	-	50	10
2150	1700	200 578 20	200 579 21	32,6	-	50	10
2200	1750	200 578 21	200 579 22	33	-	50	10
2250	1800	200 578 22	200 579 23	33,4	-	50	10
2300	1850	200 578 23	200 579 24	33,9	-	50	10
2350	1900	200 578 24	200 579 25	34,3	-	50	10

Rigid axles unbraked PLUS

1800 kg, 112x5

Technic

Model: RIGID UBR PLUS
Axle type: BS 1800
Total weight: EA 1800 kg
PCD: 112x5 - M12x1.5

Scope of supply

Wheelbolts loose

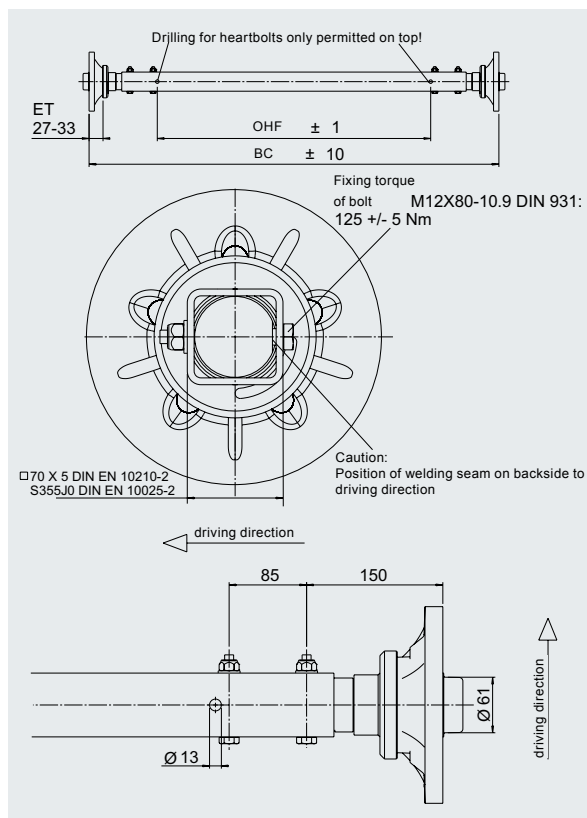
Accessoires

See following pages

Surface treatment

Axle body hot dip galvanized

Take notice of installation guideline!



Range overview

OHF in mm	BC in mm	Single axle with PCD 112x5 RIGID UBR PLUS BS 1800				
		Wheel bolts Spherical M 12x1,5				
		Axle complete				
1200	700	200 580 01	34,3	-	50	10
1250	750	200 580 02	34,8	-	50	10
1300	800	200 580 03	35,3	-	50	10
1350	850	200 580 04	35,8	-	50	10
1400	900	200 580 05	36,4	-	50	10
1450	950	200 580 06	36,9	-	50	10
1500	1000	1 422 437	37,4	-	50	10
1550	1050	200 580 07	37,9	-	50	10
1600	1100	200 580 08	38,4	-	50	10
1650	1150	200 580 09	39	-	50	10
1700	1200	200 580 10	39,5	-	50	10
1750	1250	200 580 11	40	-	50	10
1800	1300	200 580 12	40,5	-	50	10
1850	1350	200 580 13	41	-	50	10
1900	1400	200 580 14	41,6	-	50	10
1950	1450	200 580 15	42,1	-	50	10
2000	1500	200 580 16	42,6	-	50	10
2050	1550	200 580 17	43,1	-	50	10
2100	1600	200 580 18	43,6	-	50	10
2150	1650	200 580 19	44,1	-	50	10
2200	1700	200 580 20	44,7	-	50	10
2250	1750	200 580 21	45,2	-	50	10
2300	1800	200 580 22	45,7	-	50	10
2350	1850	200 580 23	46,2	-	50	10
2400	1900	200 580 24	46,7	-	50	10

Rigid axle braked PLUS

1500 kg, 112x5

Technic

Model: RIGID GBR PLUS
Axle type: BS 1500
total weight: EA 1500 kg
PCD: 112x5 - M12x1.5

Scope of supply

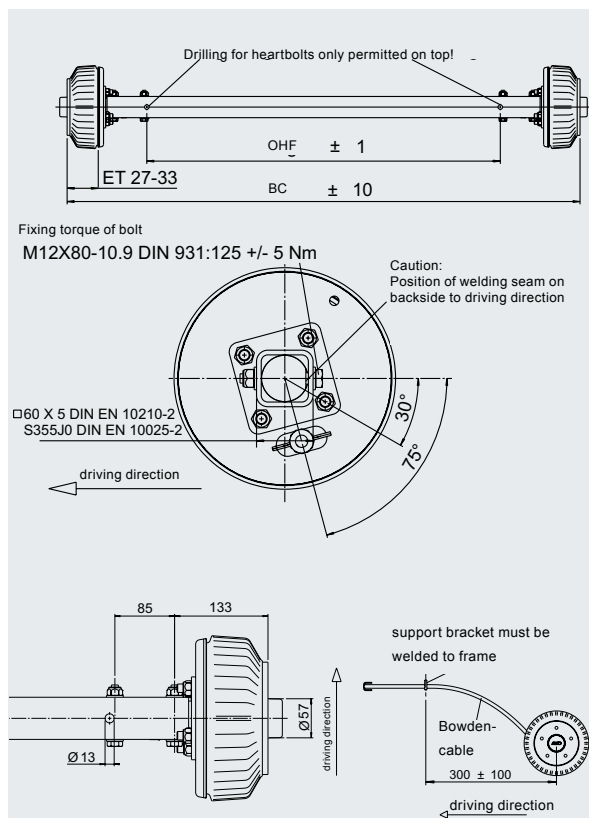
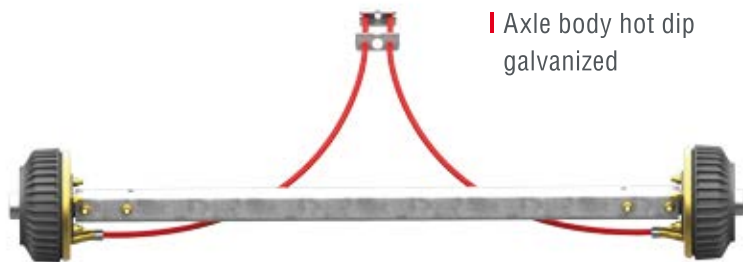
- | Wheelbolts loose
- | Support bracket loose
- | Balancer bracket loose
- | Bowdencable loose

Accessoires

- | See following pages

Surface treatment

- | Axle body hot dip galvanized



Range overview

Single axle with PCD 112x5 RIGID GBR PLUS BS 1500			Tandem axle		Single axle with PCD 112x5 waterproof RIGID GBR PLUS BS 1500 WD				
OHF in mm	BC in mm	Wheelbolts Conical M 12x1,5	Front	Rear	Wheelbolts Conical M 12x1,5	Wheelbolts Conical M 12x1,5	Wheelbolts Conical M 12x1,5	Wheelbolts Conical M 12x1,5	Wheelbolts Conical M 12x1,5
			Wheelbolts Conical M 12x1,5	Wheelbolts Conical M 12x1,5					
		Axle complete	Axle complete	Axle complete	Axle complete	Axle complete	Axle complete	Axle complete	Axle complete
1150	700	200 581 01	200 581 25	200 581 50	200 582 01	38	-	50	10
1200	750	200 581 02	200 581 26	200 581 51	200 582 02	38,5	-	50	10
1250	800	200 581 03	200 581 27	200 581 52	200 582 03	38,9	-	50	10
1300	850	200 581 04	200 581 28	200 581 53	200 582 04	39,3	-	50	10
1350	900	200 581 05	200 581 29	200 581 54	200 582 05	39,7	-	50	10
1400	950	200 581 06	200 581 30	200 581 55	200 582 06	40,2	-	50	10
1450	1000	1 421 796	200 581 31	200 581 56	200 582 07	40,6	-	50	10
1500	1050	200 581 07	200 581 32	200 581 57	200 582 08	41	-	50	10
1550	1100	200 581 08	200 581 33	200 581 58	200 582 09	41,5	-	50	10
1600	1150	200 581 09	200 581 34	200 581 59	200 582 10	41,9	-	50	10
1650	1200	200 581 10	200 581 35	200 581 60	200 582 11	42,3	-	50	10
1700	1250	200 581 11	200 581 36	200 581 61	200 582 12	42,7	-	50	10
1750	1300	200 581 12	200 581 37	200 581 62	200 582 13	43,2	-	50	10
1800	1350	200 581 13	200 581 38	200 581 63	200 582 14	43,6	-	50	10
1850	1400	200 581 14	200 581 39	200 581 64	200 582 15	44	-	50	10
1900	1450	200 581 15	200 581 40	200 581 65	200 582 16	44,4	-	50	10
1950	1500	200 581 16	200 581 41	200 581 66	200 582 17	44,9	-	50	10
2000	1550	200 581 17	200 581 42	200 581 67	200 582 18	45,3	-	50	10
2050	1600	200 581 18	200 581 43	200 581 68	200 582 19	45,7	-	50	10
2100	1650	200 581 19	200 581 44	200 581 69	200 582 20	46,2	-	50	10
2150	1700	200 581 20	200 581 45	200 581 70	200 582 21	46,6	-	50	10
2200	1750	200 581 21	200 581 46	200 581 71	200 582 22	47	-	50	10
2250	1800	200 581 22	200 581 47	200 581 72	200 582 23	47,4	-	50	10
2300	1850	200 581 23	200 581 48	200 581 73	200 582 24	47,9	-	50	10
2350	1900	200 581 24	200 581 49	200 581 74	200 582 25	48,3	-	50	10

Rigid axle braked PLUS

1800 kg, 112x5

Technic

Model: RIGID GBR PLUS
Axle type: BS 1800
total weight: EA 1800 kg
PCD: 112x5 - M12x1.5

Scope of supply

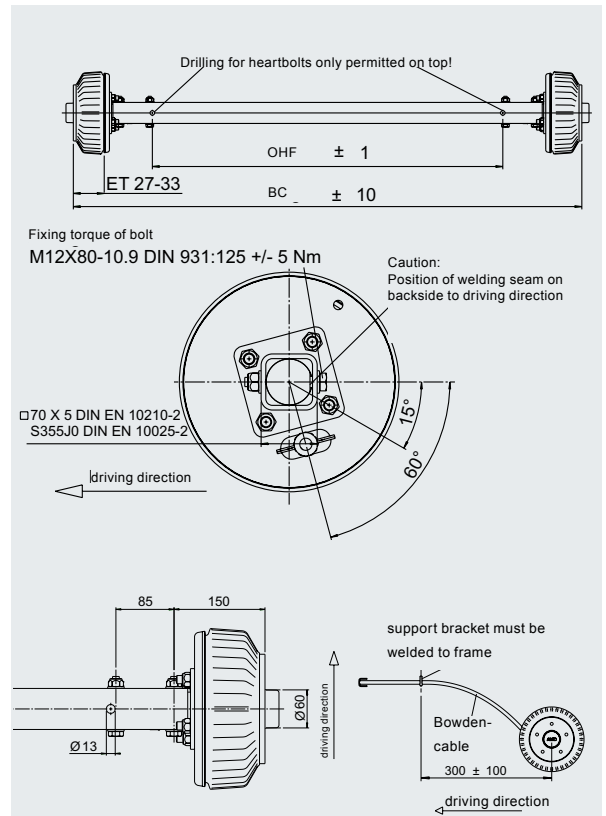
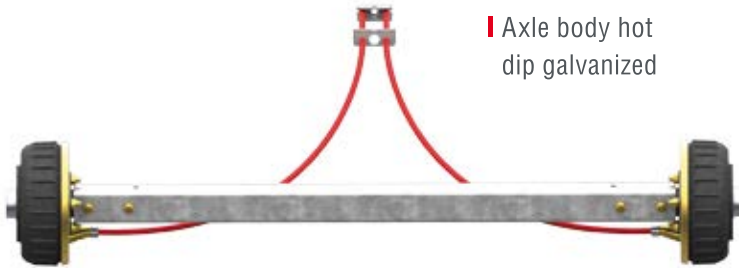
- | Wheelbolts loose
- | Support bracket loose
- | Balancer bracket loose
- | Bowdencable loose

Accessoires

- | See following pages

Surface treatment

- | Axle body hot dip galvanized



Range overview

Single axle with PCD 112x5 RIGID GBR PLUS BS 1800			Tandem axle		Single axle with PCD 112x5 waterproof RIGID GBR PLUS BS 1800 WD				
OHF in mm	BC in mm	Wheelbolts Conical M 12x1,5 Axle complete	Front	Rear	Wheelbolts Conical M 12x1,5 Axle complete	Wheelbolts Conical M 12x1,5 Axle complete	Wheelbolts Conical M 12x1,5 Axle complete	Wheelbolts Conical M 12x1,5 Axle complete	Wheelbolts Conical M 12x1,5 Axle complete
			Wheelbolts Conical M 12x1,5 Axle complete	Wheelbolts Conical M 12x1,5 Axle complete					
1200	700	200 583 01	200 583 25	200 583 50	200 584 01	56,7	-	50	10
1250	750	200 583 02	200 583 26	200 583 51	200 584 02	57,2	-	50	10
1300	800	200 583 03	200 583 27	200 583 52	200 584 03	57,7	-	50	10
1350	850	200 583 04	200 583 28	200 583 53	200 584 04	58,2	-	50	10
1400	900	200 583 05	200 583 29	200 583 54	200 584 05	58,8	-	50	10
1450	950	200 583 06	200 583 30	200 583 55	200 584 06	59,3	-	50	10
1500	1000	1 421 881	200 583 31	200 583 56	200 584 07	59,8	-	50	10
1550	1050	200 583 07	200 583 32	200 583 57	200 584 08	60,3	-	50	10
1600	1100	200 583 08	200 583 33	200 583 58	200 584 09	60,8	-	50	10
1650	1150	200 583 09	200 583 34	200 583 59	200 584 10	61,4	-	50	10
1700	1200	200 583 10	200 583 35	200 583 60	200 584 11	61,9	-	50	10
1750	1250	200 583 11	200 583 36	200 583 61	200 584 12	62,4	-	50	10
1800	1300	200 583 12	200 583 37	200 583 62	200 584 13	62,9	-	50	10
1850	1350	200 583 13	200 583 38	200 583 63	200 584 14	63,4	-	50	10
1900	1400	200 583 14	200 583 39	200 583 64	200 584 15	64	-	50	10
1950	1450	200 583 15	200 583 40	200 583 65	200 584 16	64,5	-	50	10
2000	1500	200 583 16	200 583 41	200 583 66	200 584 17	65	-	50	10
2050	1550	200 583 17	200 583 42	200 583 67	200 584 18	65,5	-	50	10
2100	1600	200 583 18	200 583 43	200 583 68	200 584 19	66	-	50	10
2150	1650	200 583 19	200 583 44	200 583 69	200 584 20	66,5	-	50	10
2200	1700	200 583 20	200 583 45	200 583 70	200 584 21	67,1	-	50	10
2250	1750	200 583 21	200 583 46	200 583 71	200 584 22	67,6	-	50	10
2300	1800	200 583 22	200 583 47	200 583 72	200 584 23	68,1	-	50	10
2350	1850	200 583 23	200 583 48	200 583 73	200 584 24	68,6	-	50	10
2400	1900	200 583 24	200 583 49	200 583 74	200 584 25	69,1	-	50	10

Axles

Hub & Stub axle sets

for wheel load 250 kg to 1.100 kg with taper roller bearing. Welding version.

Attention

In accordance with EC-regulation 71/320/EEG only trailers up to 750 kg unbraked can be registered. (Specific regulations in any country must be considered).

Contents

Wheel bolts not included. Please order separately (view index of contents)

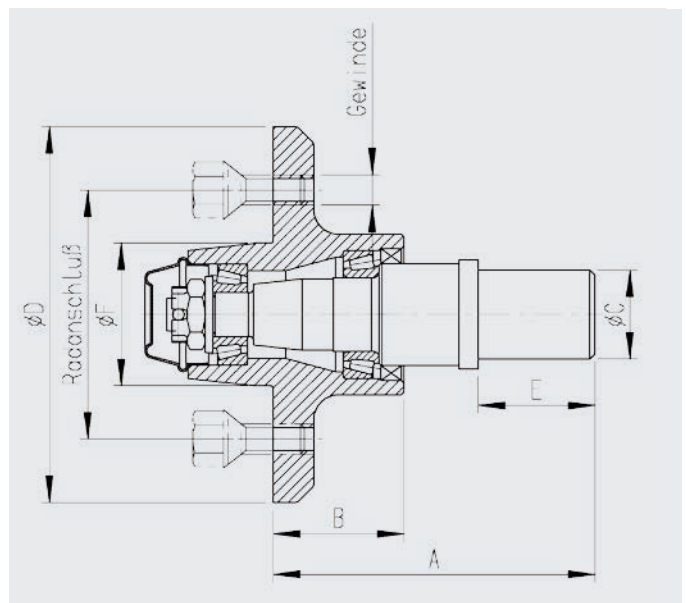
Surface Treatment

black painted

Possible PCD's

on request

Swingarms complete including hub (not available in this version)



Range Overview

Standard hub without inner tube, swingarm and stub													
Part No.	Wheel load per hub kg	PCD mm	Screw thread mm x mm	Offset mm	Dimension						Roller bearing		kg
					A mm	B mm	C mm	D mm	E mm	F mm	Part No.	Type of bearing	
273 156	250	100x4	M12 x 1,5	0	109	38	30	145	52	56,5	700 761	30203	2,8
											700 762	30205	
294 924	425	100x4	M12 x 1,5	27-45	127	51	35	150	46	56,5	701 512	11749/710	3,8
1 221 919	425	112x5	M12 x 1,5	27-45	127	51	35	162	46	65,5	701 513	45449/410	3,9
290 539	650	112x5	M12 x 1,5	26-40	151	74	35	163	52	56,5	700 711	67048/010	4,2
											700 764	11949/910	
258 125	800	112x5	M12 x 1,5	30	144	74	35	163	43	56,5	700 260	32005	4,5
											700 621	32007	
218 591	1100	205x6	M18 x 1,5	0	167	68	44,8	250	42	160	700 948	503349/310	11,5
											700 771	67048/010	

Hub Stub axle set

375 kg with compact bearing for screwing in



QUALITY FOR LIFE

Caution

According to EC-Guideline 71/320/EWG from 01/01/1991 in the EC only braked trailers allowed above a total weight of 750 kg. Country specific regulations have to be considered.

Scope of supply

- ! (See range overview)
- ! Wheelbolts not included to scope of supply! Please order separately!

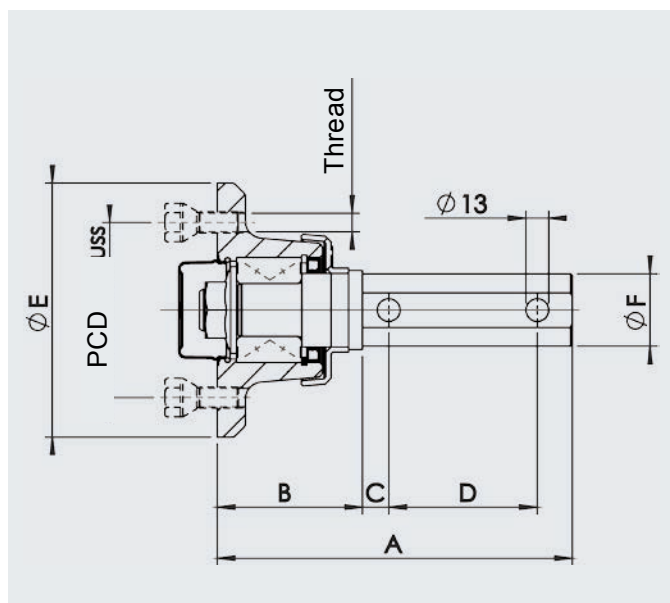
Surface treatment

- ! Black painted

PCD's available

- ! On inquiry
- ! Suitable for rims with center hole 57 mm

Hub PLUS for screwing in



Range overview

Hub PLUS waterproof with stub for screwing in															
Part No.	Wheel load per hub kg	PCD		Inset	Dimension						Type of bearing	Icon 1	Icon 2	Icon 3	Icon 4
		PCD	Thread		A	B	C	D	E	F					
1 225 331	375	100x4	M12 x 1,5	27-33	203	75	15	85	145	41,4	Compact	5,0	-	150	10
1 225 333	375	98x4	M12 x 1,5	27-33	203	75	15	85	145	41,4	Compact	5,0	-	150	10

Hub PLUS with stub for screwing in															
Part No.	Wheel load per hub kg	PCD		Inset	Dimension						Type of bearing	Icon 1	Icon 2	Icon 3	Icon 4
		PCD	Thread		A	B	C	D	E	F					
1 225 328	375	100x4	M12 x 1,5	27-33	200	72	15	85	145	41,4	Compact	4,9	-	150	10
1 225 332	375	98x4	M12 x 1,5	27-33	200	72	15	85	145	41,4	Compact	4,9	-	150	10

Axles

Hub stub axle set

750 / 900 kg with compact bearing for screwing in

Caution

According to EC-Guideline 71/320/EEG from 01/01/1991 in the EC only braked trailers are allowed above a total weight of 750 kg. Country specific regulations have to be considered.

Scope of supply

- | (See range overview)
- | Wheelbolts not included to scope of supply!
Please order separately!

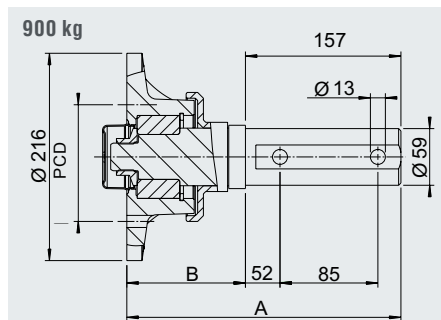
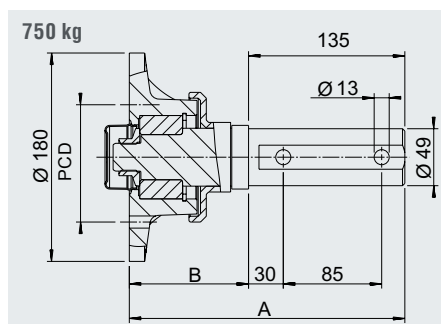
Surface treatment

- | Black painted

PCD's available

- | On inquiry
- | Suitable for rims with center hole 57 mm

Take notice of installation guideline!



Range overview

Hub PLUS with stub for screwing in											
Part No.	Wheel load per hub	PCD PCD	Thread	Inset	Dimension		Type of bearing	7,6	-	150	10
	kg				mm	mm x mm					
1 225 703	750	112x5	M12 x 1,5	27-33	238	103	Compact	7,6	-	150	10
1 225 702	900	112x5	M12 x 1,5	27-33	254,5	97,5	Compact	12	-	150	10

Hub PLUS waterproof with stub for screwing in											
Part No.	Wheel load per hub	PCD PCD	Thread	Inset	Dimension		Type of bearing	7,8	-	150	10
	kg				mm	mm x mm					
1 225 708	750	112x5	M12 x 1,5	27-33	241	106	Compact	7,8	-	150	10

Wheelbrake 2051 / 2361 AB pair

1500 / 1800 kg with stub

Technic

Any AL-KO wheelbrakes have EC-approval and can be combined with suitable overrun devices.

Wheelbrake must be installed in correct rotating direction! Brake pads installed to the wheelbrakes are asbestos-free.

Scope of supply

- | (See range overview)
- | Wheelbolts and bowdencables not included in scope of supply! Please order separately

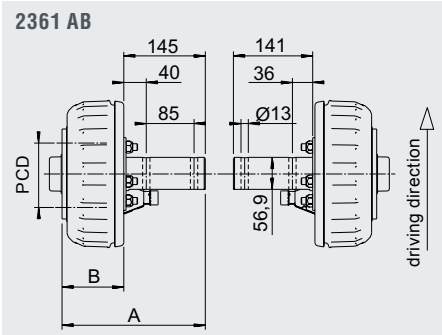
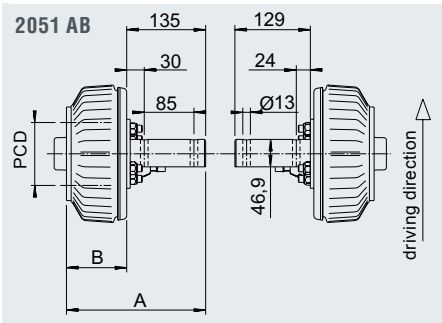
Surface treatment

- | Black painted

Available PCD's

- | On request
- | Suitable for rims with center hole 57 mm

Take notice of installation guideline!



Range overview

Wheelbrake 2051 / 2361 AB PLUS pair 1500 / 1800 kg with stub for screwing in												
Wheelbrake	Part No.	Wheel load per hub kg	PCD		Inset	Dimension		Type of bearing	Icon 1	Icon 2	Icon 3	Icon 4
			PCD	Thread		A	B					
2051 AB PLUS	1 225 472	750	112x5	M12 x 1,5	27-33	238	103	Compact	29,5	-	150	10
2361 AB PLUS	1 225 474	900	112x5	M12 x 1,5	27-33	255	114	Compact	43,7	-	150	10

Wheelbrake 2051 / 2361 AB PLUS pair 1500 / 1800 kg waterproof with stub for screwing in												
Wheelbrake	Part No.	Wheel load per hub kg	PCD		Inset	Dimension		Type of bearing	Icon 1	Icon 2	Icon 3	Icon 4
			PCD	Thread		A	B					
2051 AB PLUS	1 225 699	750	112x5	M12 x 1,5	27-33	238	103	Compact	29,7	-	150	10
2361 AB PLUS	1 225 700	900	112x5	M12 x 1,5	27-33	258	117	Compact	46,2	-	150	10

Axles

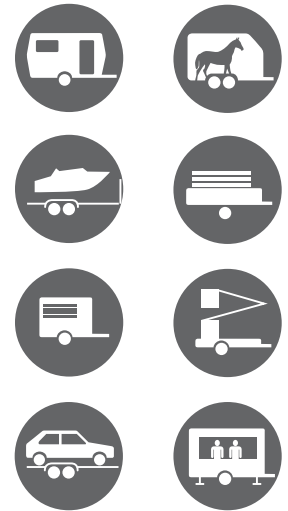
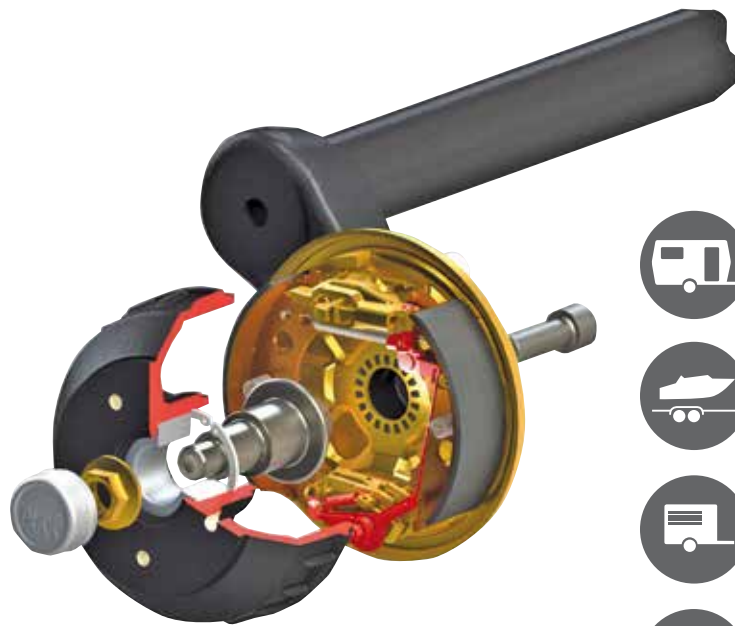
AL-KO AAA PREMIUM BRAKE

The High Performance Brake

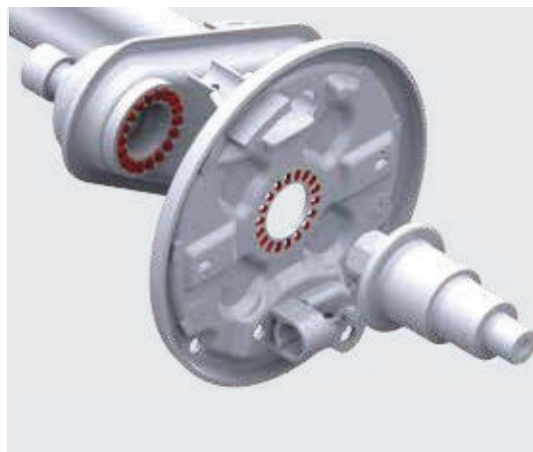


The Premium Brake that adjusts automatically.

- | Fitting to AL-KO Wheelbrakes and accordingly most Trailers with AL-KO Axles.
- | The well-proven AL-KO wheelbrake with higher-than-average brake force is complemented by automatic readjustment.
- | During backwards driving the automatic adjustment is disabled to avoid blocking of the brake.
- | Easy modification to new technic by pre-assembled components.



Scope of supply



Range overview

Retrofit kit for wheelbrake 2051 Version tooth system	
Part No.	1 730 026
Fitting at	wheelbrake 2051 from model year 1999, Version tooth fitting
	7,6 kg
	-
	36 pcs



Not fitting at wheelbrake 2051 Version 4-hole bolting	
Part No.	
Not fitting at	wheelbrake 2051 from model year 1999 Version tooth fitting



Not fitting at wheelbrake 2051 Version flushing system	
Part No.	
Not fitting at	wheelbrake 2051 from model year 1999 Version flushing system

Rigid axles unbraked PLUS

750 kg, 1500 kg und 1800 kg with leafspring

AL-KO

QUALITY FOR LIFE



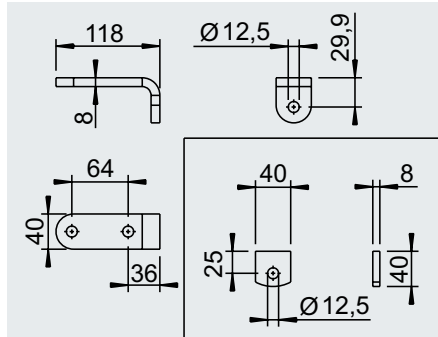
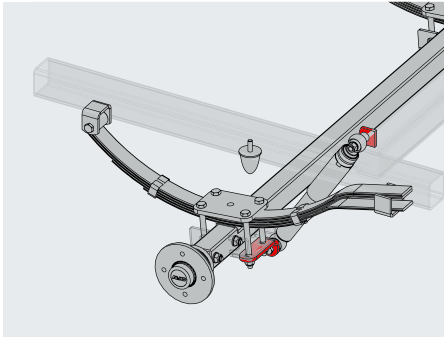
✓ Your advantage

- | Modular system, you can choose between:
 - A) Axle complete (delivery un-mounted)
 - B) Axle components
- | Leafspring and shock absorber are clamped to the axle body
- | Wheelbrake and stub optionally:
 - A) For screw in = AL-KO concept (simple replacement in case of service)
 - B) For welding = customer production
- | Axle body and mounting plates hot dip galvanized
- | Wheel hub with compact bearing
- | Wheelbrake optionally available in waterproof version

Accessories for braked and unbraked rigid axles

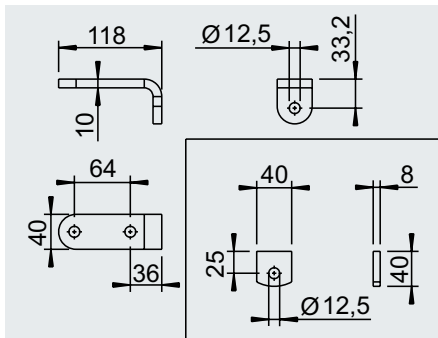
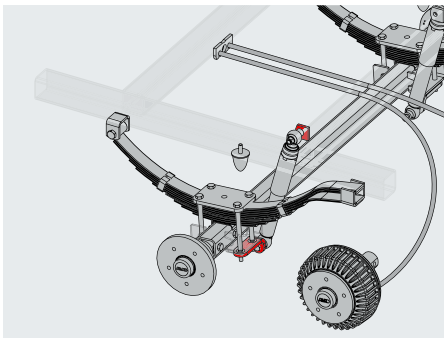
Single axle and Tandem set

Mounting material for shock absorbers 750 / 1500 / 1800 kg

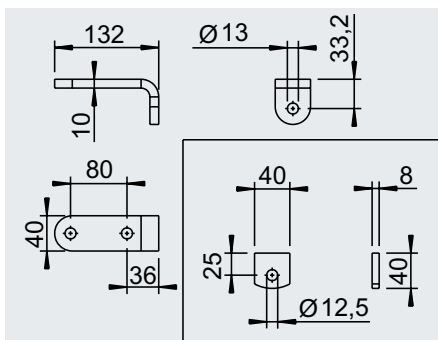
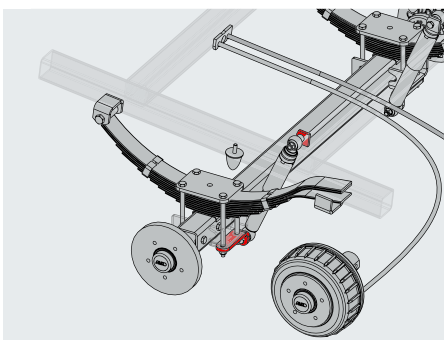


Range overview

Mounting material for shock absorbers 750 kg	
Part No.	1 225 210
Surface treatment	galvanised
	0,5 kg
	50 pcs
	135 pcs

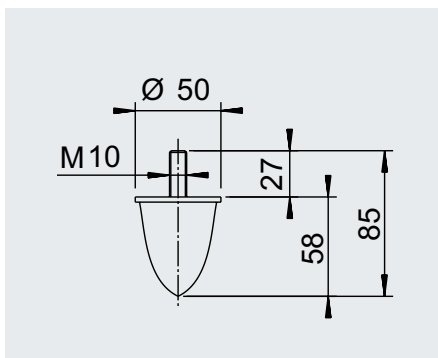
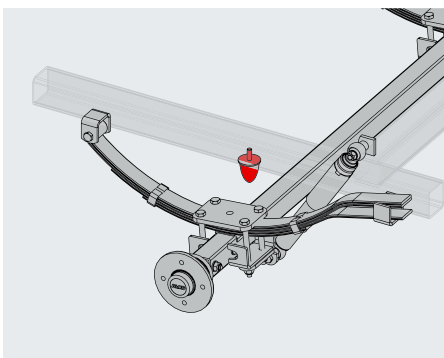


Mounting material for shock absorbers 1500 kg	
Part No.	1 225 244
Surface treatment	galvanised
	0,5 kg
	50 pcs
	-



Mounting material for shock absorbers 1800 kg	
Part No.	1 225 248
Surface treatment	galvanised
	0,6 kg
	50 pcs
	-

Rubber buffer for 750 / 1500 / 1800 kg and Tandem 3000 / 3500 kg









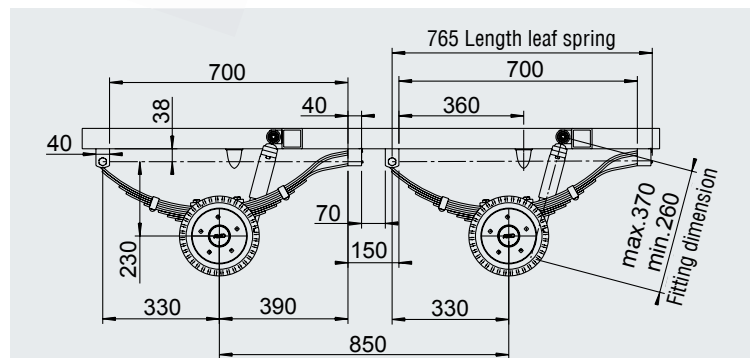
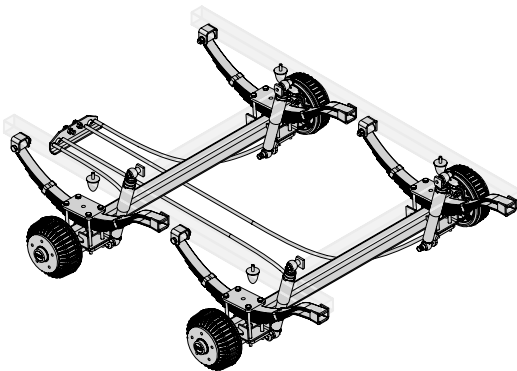
Rubber buffer for rigid axle 750 / 1500 / 1800 kg and Tandem 3000 / 3500 kg	
Part No.	691 393
Surface treatment	galvanised
	0,2 kg
	50 pcs
	-

Set Combinations

For Tandem axles and accessories

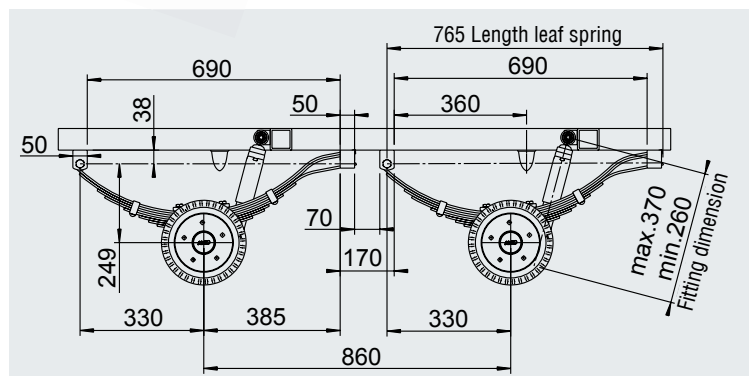
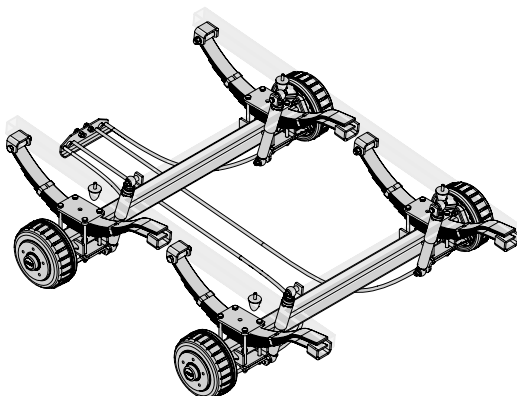
Range overview Tandem 3000 kg

	Part No.	Lot size	Image	Measurements
Leaf spring	1 368 110	4		See single axle
Mounting material leaf spring	1 225 243	4		See single axle
Shock absorber	283 722	4		See single axle
Mounting material shock absorber	1 225 244	4		See single axle
Rubber buffer	691 393	4		See single axle
Rigid axle braked	see rigid axle braked	1x axle front 1x axle rear		See rigid axle braked



Range overview Tandem 3500 kg

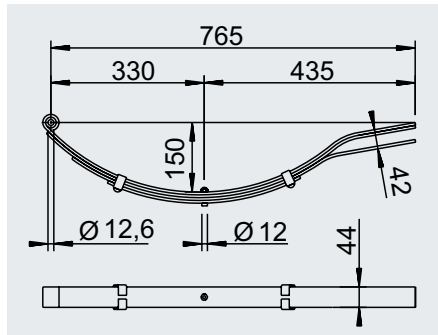
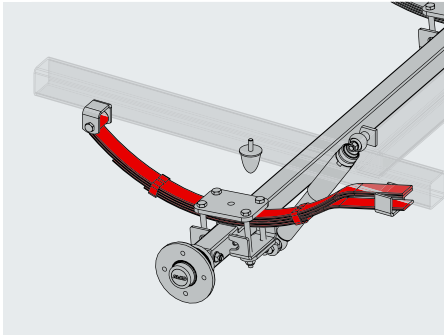
	Part No.	Lot size	Image	Measurements
Leaf spring	1 369 701	4		See single axle
Mounting material leaf spring	1 225 600	4		See single axle
Shock absorber	283 722	4		See single axle
Mounting material shock absorber	1 225 248	4		See single axle
Rubber buffer	691 393	4		See single axle
Rigid axle braked	see rigid axle braked	1x axle front 1x axle rear		See rigid axle braked



Accessories for rigid axles unbraked and braked

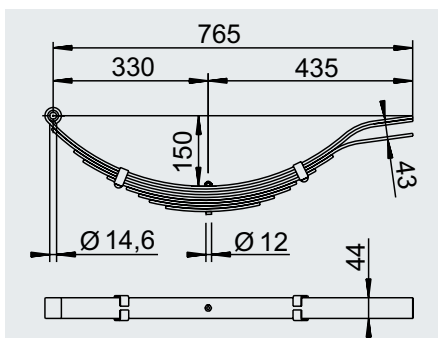
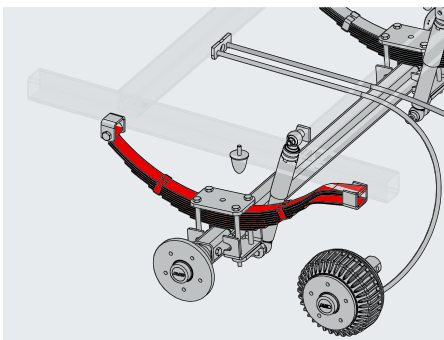
Single axel and tandem axle

Leafspring for 750 / 1500 / 1800 kg

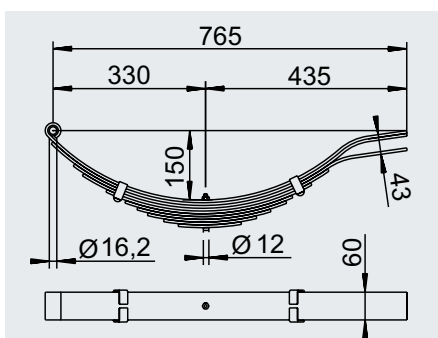
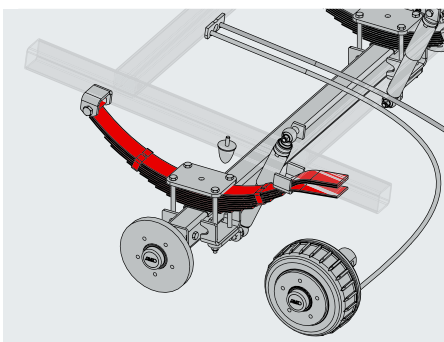


Range overview

Leaf spring for rigid axle 750 kg	
Part No.	1 368 092
Surface treatment	primed
	6,2 kg
	-
	135 pcs

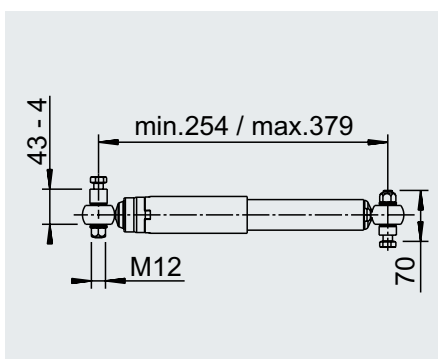
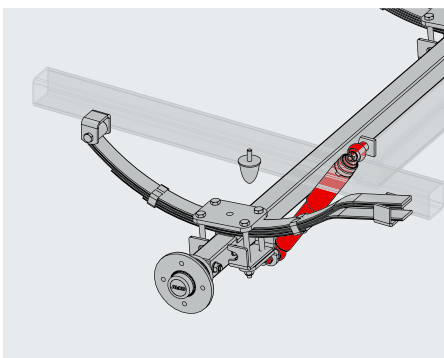


Leaf spring for rigid axle 1500 kg	
Part No.	1 368 110
Surface treatment	primed
	9,8 kg
	-
	135 pcs






Leaf spring for rigid axle 1800 kg	
Part No.	1 369 701
Surface treatment	primed
	13,8 kg
	-
	135 pcs




Shock absorber for 750 / 1500 / 1800 kg and Tandem 3000 / 3500 kg






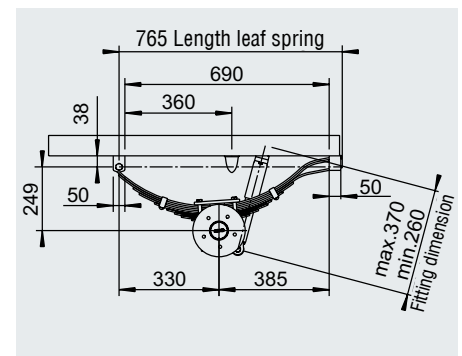
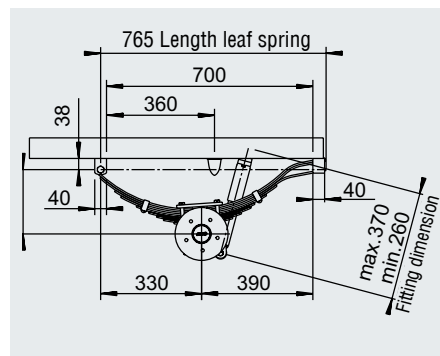
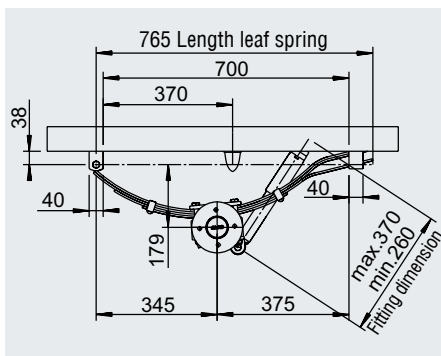
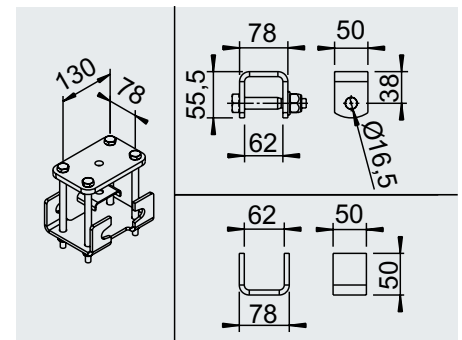
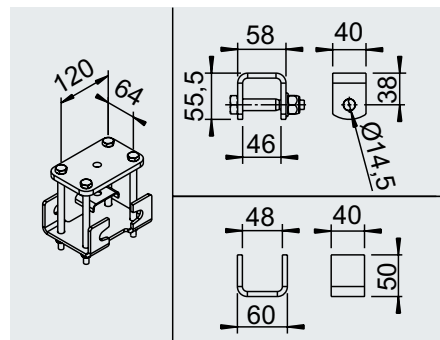
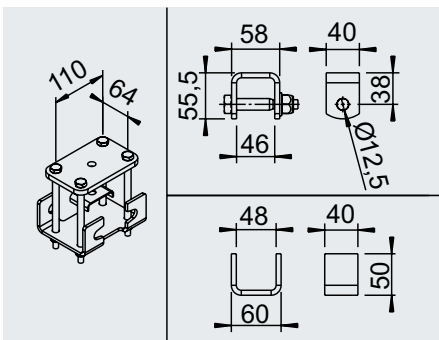
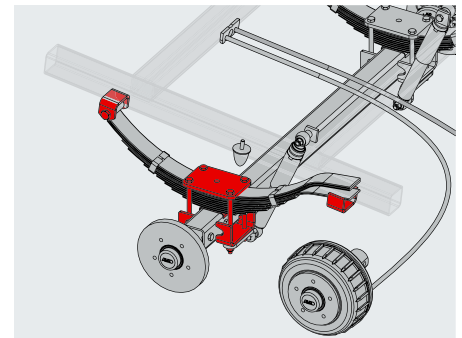
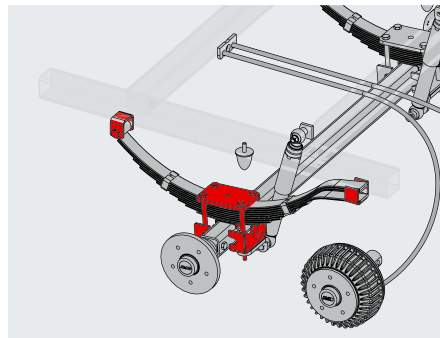
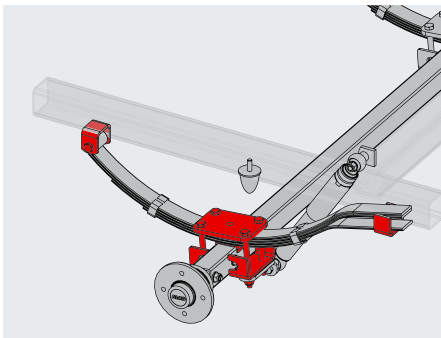
Shock absorber for rigid axle 750 / 1500 / 1800 kg and Tandem 3000 / 3500 kg	
Part No.	283 722
Surface treatment	primed
	1,3 kg
	-
	350 pcs

Range overview mounting materials for leafspring 750 / 1500 / 1800 kg

Mounting material for leaf spring 750 kg	
Part No.	1 225 345
Surface treatment	galvanised
	3,5 kg
	50 pcs
	-

Mounting material for leaf spring 1500 kg	
Part No.	1 225 243
Surface treatment	galvanised
	3,7 kg
	50 pcs
	-

Mounting material for leaf spring 1800 kg	
Part No.	1 225 600
Surface treatment	galvanised
	5,2 kg
	50 pcs
	-



Axle COMPACT braked

750 kg, 100x4

Technology

Model:	COMPACT
Axle type:	B 700-5
Load per axle:	SA 750 kg
Wheel brake:	1636 G
Suspension:	Hexagonal rubber suspension
Swing arm:	145 mm
PCD:	100x4
Wheel bearing:	Roller bearing
Center hole:	min. 57 mm



Range Overview

OHF in mm	BC in mm	Single axle			Single axle with top hat profile				
		Wheel bolts Conical M 12x1,5				Wheel bolts Conical 12x1,5			
		Axle complete				Axle complete			
1140	700	200 380 01	35	30	10	200 380 18	38	30	10
1190	750	200 380 02	36	30	10	200 380 19	39	30	10
1240	800	200 380 03	36	30	10	200 380 20	39	30	10
1290	850	200 380 04	36	30	10	200 380 21	39	30	10
1340	900	200 380 05	36	30	10	200 380 22	39	30	10
1390	950	200 380 06	37	30	10	200 380 23	40	30	10
1440	1000	294 711	37	30	10	200 380 24	40	30	10
1490	1050	200 380 07	37	30	10	200 380 25	40	30	10
1540	1100	240 031	37	30	10	200 380 26	40	30	10
1590	1150	200 380 08	38	30	10	200 380 27	41	30	10
1640	1200	240 032	38	30	10	200 380 28	41	30	10
1690	1250	240 033	38	30	10	200 380 29	41	30	10
1740	1300	200 380 09	38	30	10	200 380 30	41	30	10
1790	1350	200 380 10	39	30	10	200 380 31	42	30	10
1840	1400	240 034	39	30	10	200 380 32	42	30	10
1890	1450	200 380 11	39	30	10	200 380 33	42	30	10
1940	1500	240 035	39	30	10	200 380 34	42	30	10
1990	1550	240 036	40	30	10	200 380 35	43	30	10
2040	1600	200 380 12	40	30	10	200 380 36	43	30	10
2090	1650	200 380 13	40	30	10	200 380 37	43	30	10
2140	1700	200 380 14	40	30	10	200 380 38	43	30	10
2190	1750	200 380 15	41	30	10	200 380 39	44	30	10
2240	1800	200 380 16	41	30	10	200 380 40	44	30	10
2290	1850	200 380 17	41	30	10	200 380 41	44	30	10

📦 Contents

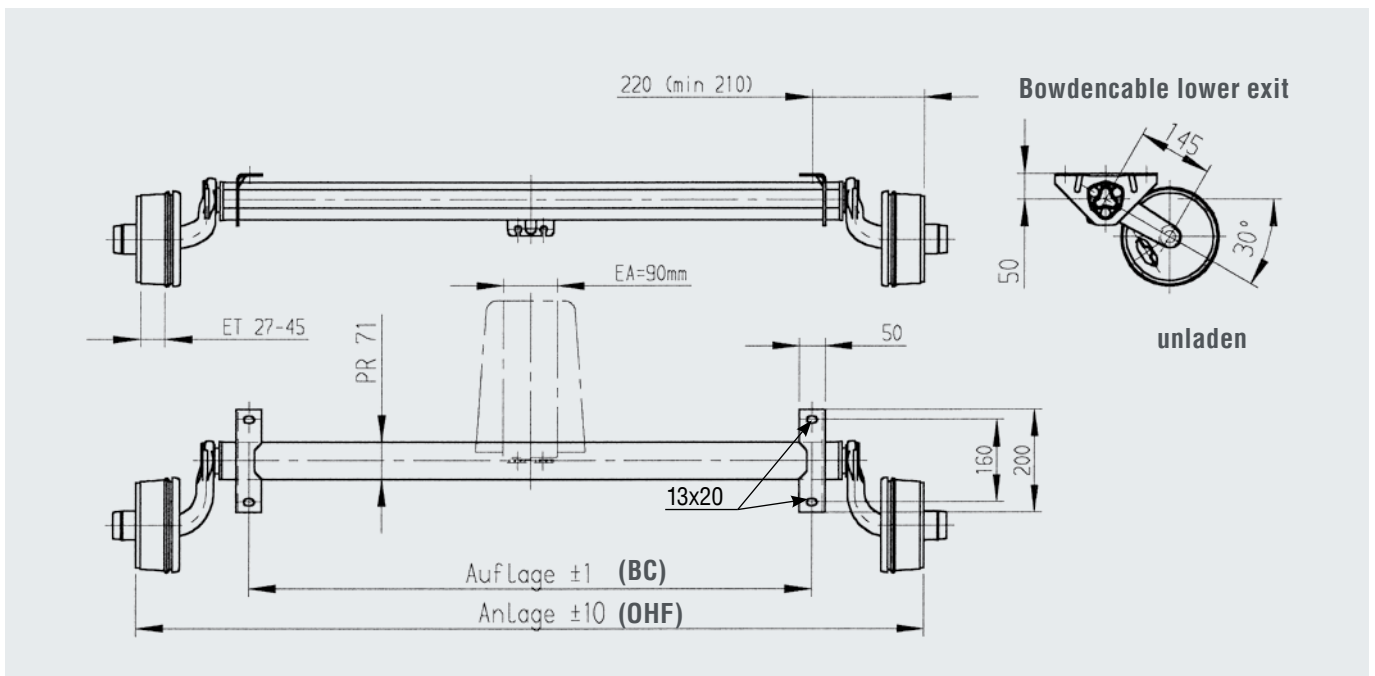
- | Bowdencable bracket single axle welded to axle body
- | Single axle balance bar
- | Bowdencables loose
- | Wheel bolts loose
- | Without shock absorber holder

🏠 Surface Treatment

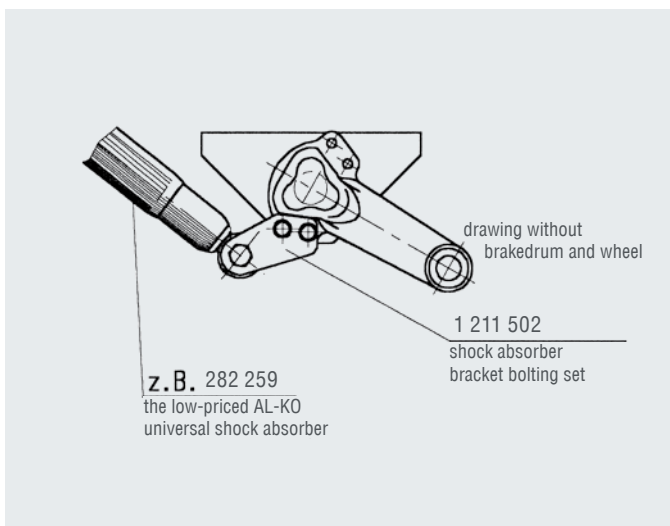
- | Axle body hot dip galvanised
- | Wheel brake black painted

🧰 Accessories

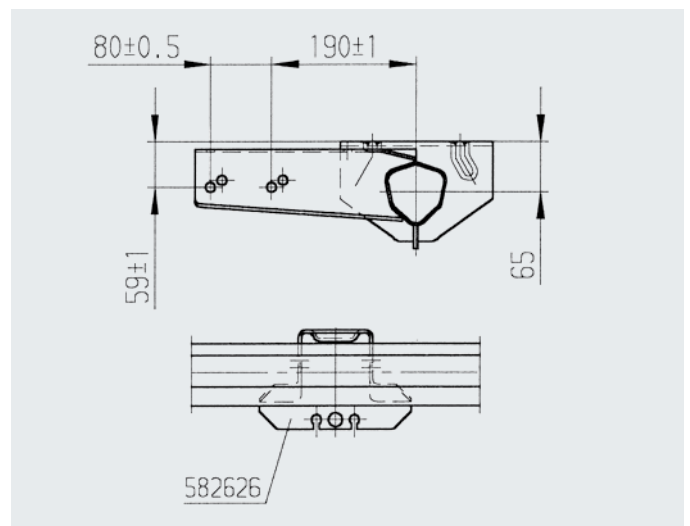
- | Axle damper (see index)



Axle damper fitting



Top hat profile incl. bowdencable bracket for single axle



Axle PLUS braked

900 kg, 100x4

Technology

Model:	PLUS	PCD:	100x4
Axle type:	B 850-5	Wheel bearing:	Compact bearing
Load per axle:	SA 900 kg TA 1.600 kg	Center hole:	min. 57 mm
Wheel brake:	1637		
Suspension:	Hexagonal rubber suspension		
Swing arm:	160 mm		



Range Overview

OHF in mm	BC in mm	Single Axle		Tandem axle						
		Wheel bolts Spherical M 12x1,5 Axle complete	Conical M 12x1,5 Axle complete	Front Axle Wheel bolts Spherical M 12x1,5 Axle complete	Conical M 12x1,5 Axle complete	Rear axle Wheel bolts Spherical M 12x1,5 Axle complete	Conical M 12x1,5 Axle complete			
1250	800	200 150 01	200 150 02	200 150 03	200 150 04	200 150 05	200 150 06	38	30	10
1300	850	200 151 01	200 151 02	200 151 03	200 151 04	200 151 05	200 151 06	38	30	10
1350	900	200 152 01	200 152 02	200 152 03	200 152 04	200 152 05	200 152 06	38	30	10
1400	950	200 153 01	200 153 02	200 153 03	200 153 04	200 153 05	200 153 06	38	30	10
1450	1000	244 009 01	244 009	244 009 03	244 009 04	244 009 05	244 009 06	39	30	10
1490	1040	200 155 01	200 155 02	200 155 03	200 155 04	200 155 05	200 155 06	39	30	10
1520	1070	200 156 01	200 156 02	200 156 03	200 156 04	200 156 05	200 156 06	39	30	10
1550	1100	244 010 01	244 010	244 010 03	244 010 04	244 010 05	244 010 06	39	30	10
1600	1150	200 158 01	200 158 02	200 158 03	200 158 04	200 158 05	200 158 06	39	30	10
1650	1200	244 011 01	244 011	244 011 03	244 011 04	244 011 05	244 011 06	40	30	10
1670	1220	200 160 01	200 160 02	200 160 03	200 160 04	200 160 05	200 160 06	40	30	10
1700	1250	244 012 01	244 012	244 012 03	244 012 04	244 012 05	244 012 06	40	30	10
1760	1310	200 162 01	200 162 02	200 162 03	200 162 04	200 162 05	200 162 06	40	30	10
1800	1350	200 163 01	200 163 02	200 163 03	200 163 04	200 163 05	200 163 06	40	30	10
1850	1400	244 013 01	244 013	244 013 03	244 013 04	244 013 05	244 013 06	41	30	10
1900	1450	200 165 01	200 165 02	200 165 03	200 165 04	200 165 05	200 165 06	41	30	10
1950	1500	244 014 01	244 014	244 014 03	244 014 04	244 014 05	244 014 06	41	30	10
1980	1530	200 167 01	200 167 02	200 167 03	200 167 04	200 167 05	200 167 06	41	30	10
2000	1550	244 015 01	244 015	244 015 03	244 015 04	244 015 05	244 015 06	42	30	10
2030	1580	200 169 01	200 169 02	200 169 03	200 169 04	200 169 05	200 169 06	42	30	10
2075	1625	200 170 01	200 170 02	200 170 03	200 170 04	200 170 05	200 170 06	42	30	10
2120	1670	200 171 01	200 171 02	200 171 03	200 171 04	200 171 05	200 171 06	42	30	10
2150	1700	200 172 01	200 172 02	200 172 03	200 172 04	200 172 05	200 172 06	43	30	10
2200	1750	200 173 01	200 173 02	200 173 03	200 173 04	200 173 05	200 173 06	43	30	10
2250	1800	200 174 01	200 174 02	200 174 03	200 174 04	200 174 05	200 174 06	43	30	10
2300	1850	200 175 01	200 175 02	200 175 03	200 175 04	200 175 05	200 175 06	43	30	10

Contents

- | Bowdencable bracket single axle welded to axle body
- | Single axle balance bar
- | Bowdencables loose
- | Wheel bolts loose

Separate order for Tandem

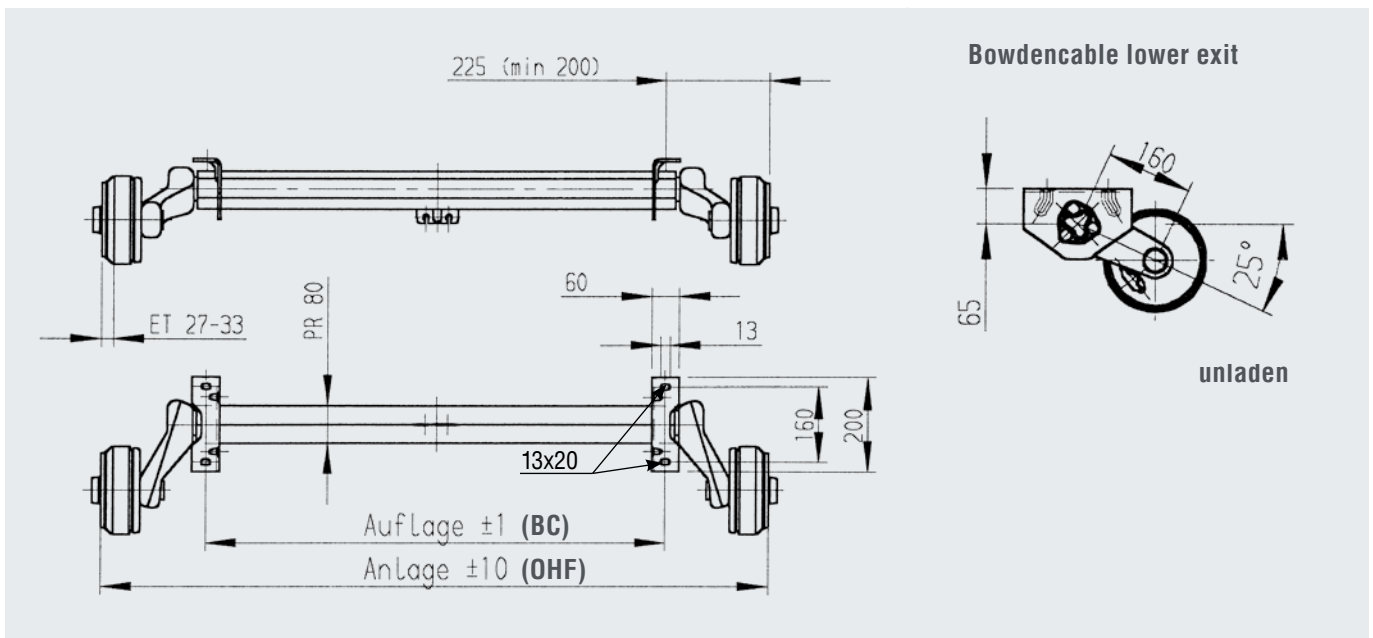
- | Bowdencable bracket tandem 249 236
- | Tandem axle balance bar 238 576

Surface Treatment

- | Axle body hot dip galvanised
- | Wheel brake galvanised and with yellow chromate

Accessories

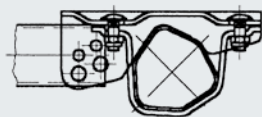
- | Axle damper (see index)



Towbar-to-axle fixing bracket

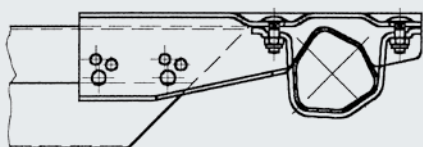
Ø 70 / Ø 88,9 / □ 60 / □ 70 / □ 100

Part No. 247 853



101 VB / 161 VB

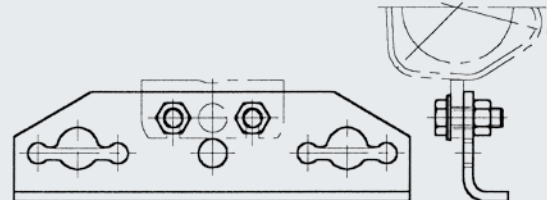
Part No. 249 116



Accessories for Tandem

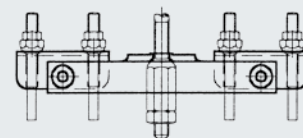
Support bracket tandem screwable

Part No. 249 236



Tandem axle balance bar

Part No. 238 576



Axle PLUS braked

900 kg, 112x5

Technology

Model:	PLUS	Swing arm:	160 mm
Axle type:	B 850-5	PCD:	112x5
Load per axle:	SA 900 kg TA 1.600 kg	Wheel bearing:	Compact bearing
Wheel brake:	1637	Center hole:	min. 57 mm
Suspension:	Hexagonal rubber suspension		



Range Overview

OHF in mm	BC in mm	Single axle		Tandem axle				T	B	C
		Wheel bolts Spherical M 12x1,5 Axle complete	Conical M 12x1,5 Axle complete	Front axle Wheel bolts Spherical M 12x1,5 Axle complete	Conical M 12x1,5 Axle complete	Rear axle Wheel bolts Spherical M 12x1,5 Axle complete	Conical M 12x1,5 Axle complete			
1250	800	200 068 01	200 068 02	200 068 03	200 068 04	200 068 05	200 068 06	38	30	10
1300	850	200 069 01	200 069 02	200 069 03	200 069 04	200 069 05	200 069 06	38	30	10
1350	900	200 070 01	200 070 02	200 070 03	200 070 04	200 070 05	200 070 06	38	30	10
1400	950	200 071 01	200 071 02	200 071 03	200 071 04	200 071 05	200 071 06	38	30	10
1450	1000	244 016	244 016 02	244 016 03	244 016 04	244 016 05	244 016 06	39	30	10
1490	1040	200 072 01	200 072 02	200 072 03	200 072 04	200 072 05	200 072 06	39	30	10
1520	1070	200 073 01	200 073 02	200 073 03	200 073 04	200 073 05	200 073 06	39	30	10
1550	1100	244 017	244 017 02	244 017 03	244 017 04	244 017 05	244 017 06	39	30	10
1600	1150	200 074 01	200 074 02	200 074 03	200 074 04	200 074 05	200 074 06	40	30	10
1650	1200	244 018	244 018 02	244 018 03	244 018 04	244 018 05	244 018 06	40	30	10
1670	1220	200 075 01	200 075 02	200 075 03	200 075 04	200 075 05	200 075 06	40	30	10
1700	1250	244 019	244 019 02	244 019 03	244 019 04	244 019 05	244 019 06	40	30	10
1760	1310	200 076 01	200 076 02	200 076 03	200 076 04	200 076 05	200 076 06	41	30	10
1800	1350	200 077 01	200 077 02	200 077 03	200 077 04	200 077 05	200 077 06	41	30	10
1850	1400	244 020	244 020 02	244 020 03	244 020 04	244 020 05	244 020 06	41	30	10
1900	1450	200 078 01	200 078 02	200 078 03	200 078 04	200 078 05	200 078 06	41	30	10
1950	1500	244 021	244 021 02	244 021 03	244 021 04	244 021 05	244 021 06	41	30	10
1980	1530	200 079 01	200 079 02	200 079 03	200 079 04	200 079 05	200 079 06	42	30	10
2000	1550	244 022	244 022 02	244 022 03	244 022 04	244 022 05	244 022 06	42	30	10
2030	1580	200 080 01	200 080 02	200 080 03	200 080 04	200 080 05	200 080 06	42	30	10
2075	1625	200 081 01	200 081 02	200 081 03	200 081 04	200 081 05	200 081 06	42	30	10
2120	1670	200 082 01	200 082 02	200 082 03	200 082 04	200 082 05	200 082 06	42	30	10
2150	1700	200 083 01	200 083 02	200 083 03	200 083 04	200 083 05	200 083 06	43	30	10
2200	1750	200 084 01	200 084 02	200 084 03	200 084 04	200 084 05	200 084 06	43	30	10
2250	1800	200 085 01	200 085 02	200 085 03	200 085 04	200 085 05	200 085 06	43	30	10
2300	1850	200 086 01	200 086 02	200 086 03	200 086 04	200 086 05	200 086 06	43	30	10

Contents

- | Bowdencable bracket single axle welded to axle body
- | Single axle balance bar
- | Bowdencables loose
- | Wheel bolts loose

Separate order for Tandem

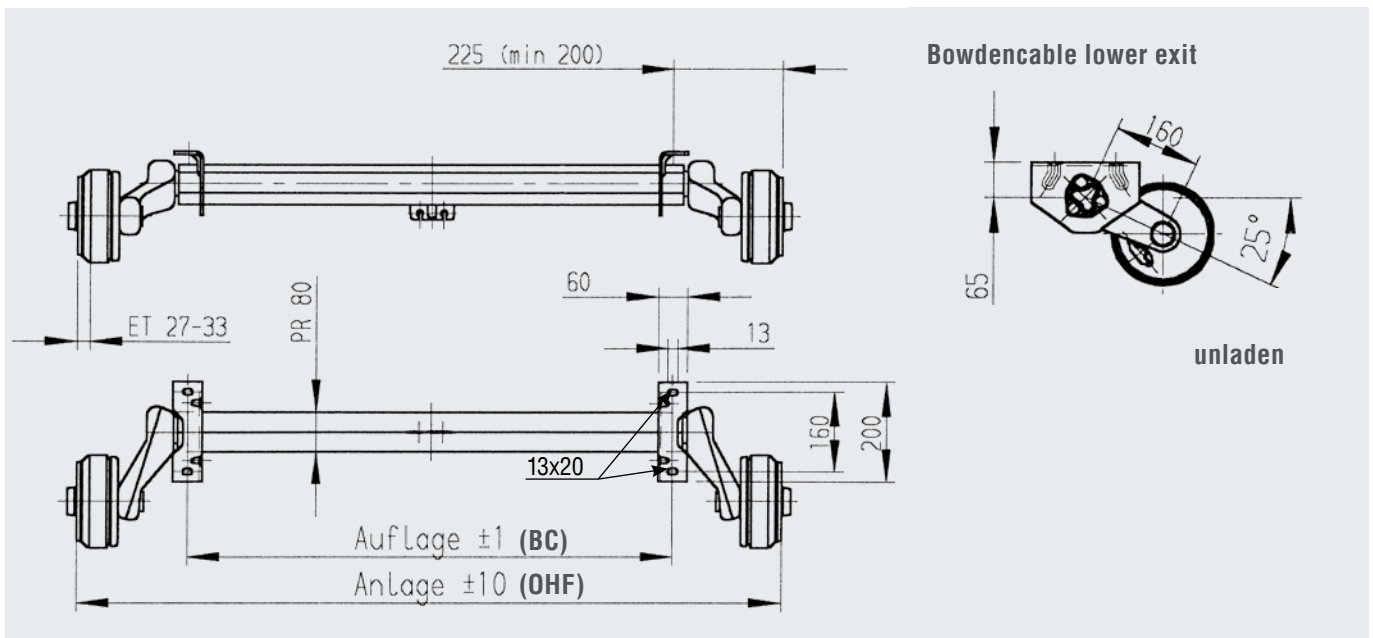
- | Bowdencable bracket tandem 249 236
- | Tandem axle balance bar 238 576

Surface Treatment

- | Axle body hot dip galvanised
- | Wheel brake galvanised and with yellow chromate

Accessories

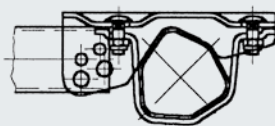
- | Axle damper (see index)



Towbar-to-axle fixing bracket

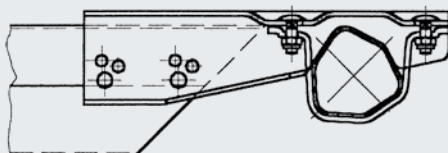
Ø 70 / Ø 88,9 / □ 60 / □ 70 / □ 100

Part No. 247 853



101 VB / 161 VB

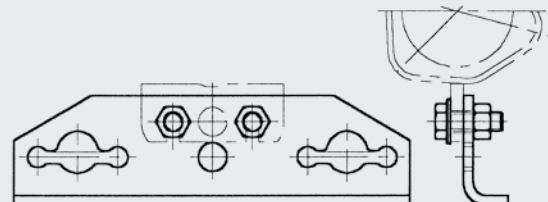
Part No. 249 116



Accessories for Tandem

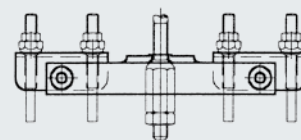
Support bracket tandem screwable

Part No. 249 236



Tandem axle balance bar

Part No. 238 576



Axle PLUS braked

1.000 kg, 100x4




Technology

Model:	PLUS	Wheel brake:	2051	PCD:	100x4
Axle type:	B 850-10	Suspension:	Hexagonal rubber suspension	Wheel bearing:	Compact bearing
Load per axle:	SA 1.000 kg TA 2.000 kg	Swing arm:	158 mm	Center hole:	min. 57 mm



AAA= AL-KO Automatic Adjustment
(automatic brake adjustment)

Range Overview

OHF in mm	BC in mm	Single axle Axle complete Wheel bolts Spherical M 12 x 1,5		Tandem front axle Axle complete Wheel bolts Spherical M 12 x 1,5		Tandem rear axle Axle complete Wheel bolts Spherical M 12 x 1,5					
		without AAA	with AAA	without AAA	with AAA	without AAA	with AAA				
1200	750	200 320 51	200 588 01	200 320 53	200 588 29	200 320 55	200 588 57	39	-	25	10
1250	800	200 321 51	200 588 02	200 321 53	200 588 30	200 321 55	200 588 58	39	-	25	10
1300	850	200 322 51	200 588 03	200 322 53	200 588 31	200 322 55	200 588 59	39	-	25	10
1350	900	200 323 51	200 588 04	200 323 53	200 588 32	200 323 55	200 588 60	40	-	25	10
1400	950	200 324 51	200 588 05	200 324 53	200 588 33	200 324 55	200 588 61	40	-	25	10
1450	1000	249 148	200 588 06	249 148 03	200 588 34	249 148 05	200 588 62	40	-	25	10
1490	1040	200 325 51	200 588 07	200 325 53	200 588 35	200 325 55	200 588 63	40	-	25	10
1520	1070	200 326 51	200 588 08	200 326 53	200 588 36	200 326 55	200 588 64	40	-	25	10
1550	1100	267 046	200 588 09	267 046 03	200 588 37	267 046 05	200 588 65	40	-	25	10
1600	1150	200 327 51	200 588 10	200 327 53	200 588 38	200 327 55	200 588 66	40	-	25	10
1650	1200	267 047	200 588 11	267 047 03	200 588 39	267 047 05	200 588 67	40	-	25	10
1670	1220	200 328 51	200 588 12	200 328 53	200 588 40	200 328 55	200 588 68	41	-	25	10
1700	1250	267 048	200 588 13	267 048 03	200 588 41	267 048 05	200 588 69	41	-	25	10
1760	1310	200 329 51	200 588 14	200 329 53	200 588 42	200 329 55	200 588 70	41	-	25	10
1800	1350	200 330 51	200 588 15	200 330 53	200 588 43	200 330 55	200 588 71	41	-	25	10
1850	1400	267 049	200 588 16	267 049 03	200 588 44	267 049 05	200 588 72	41	-	25	10
1900	1450	200 331 51	200 588 17	200 331 53	200 588 45	200 331 55	200 588 73	42	-	25	10
1950	1500	267 050	200 588 18	267 050 03	200 588 46	267 050 05	200 588 74	42	-	25	10
1980	1530	200 332 51	200 588 19	200 332 53	200 588 47	200 332 55	200 588 75	42	-	25	10
2000	1550	267 051	200 588 20	267 051 03	200 588 48	267 051 05	200 588 76	42	-	25	10
2030	1580	200 333 51	200 588 21	200 333 53	200 588 49	200 333 55	200 588 77	42	-	25	10
2075	1625	200 334 51	200 588 22	200 334 53	200 588 50	200 334 55	200 588 78	42	-	25	10
2120	1670	200 335 51	200 588 23	200 335 53	200 588 51	200 335 55	200 588 79	43	-	25	10
2150	1700	200 336 51	200 588 24	200 336 53	200 588 52	200 336 55	200 588 80	43	-	25	10
2200	1750	200 337 51	200 588 25	200 337 53	200 588 53	200 337 55	200 588 81	43	-	25	10
2250	1800	200 338 51	200 588 26	200 338 53	200 588 54	200 338 55	200 588 82	43	-	25	10
2300	1850	200 339 51	200 588 27	200 339 53	200 588 55	200 339 55	200 588 83	43	-	25	10
2350	1900	200 340 51	200 588 28	200 340 53	200 588 56	200 340 55	200 588 84	43	-	25	10

Contents

- | Bowdencable bracket single axle welded to axle body
- | Single axle balance bar
- | Bowdencables loose
- | Wheel bolts loose

Separate order for Tandem

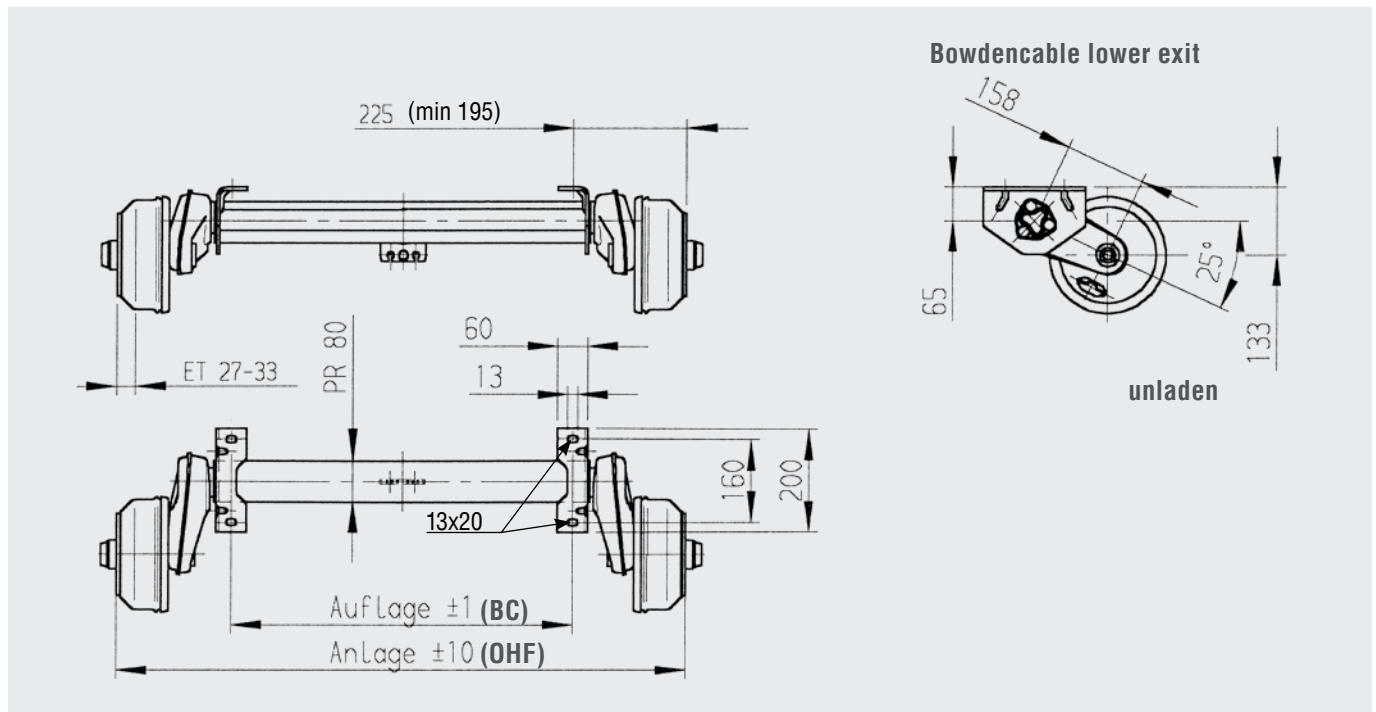
- | Bowdencable bracket tandem 249 236
- | Tandem axle balance bar 238 576

Surface Treatment

- | Axle body hot dip galvanised
- | Wheel brake galvanised and with yellow chromate

Accessories

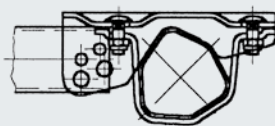
- | Axle damper (see index)



Towbar-to-axle fixing bracket

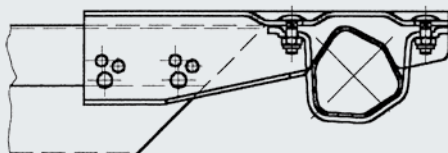
Ø 70 / Ø 88,9 / □ 60 / □ 70 / □ 100

Part No. 247 853



101 VB / 161 VB

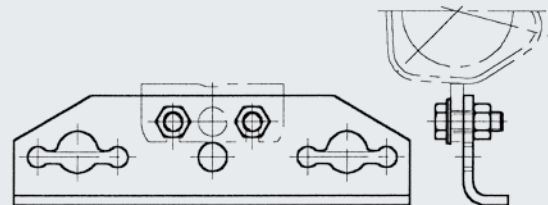
Part No. 249 116



Accessories for Tandem

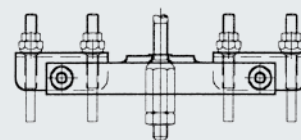
Support bracket tandem screwable

Part No. 249 236



Tandem axle balance bar

Part No. 238 576



Axle PLUS braked

1.000 kg, 112x5

Technology

Model:	PLUS	Wheel brake:	2051	PCD:	112x5
Axle type:	B 850-10	Suspension:	Hexagonal rubber suspension	Wheel bearing:	Compact bearing
Load per axle:	SA 1.000 kg TA 2.000 kg	Swing arm:	158 mm	Center hole:	min. 57 mm



AAA= AL-KO Automatic Adjustment
(automatic brake adjustment)

Range Overview

OHF in mm	BC in mm	Single axle Axle complete Wheel bolts Spherical M 12 x 1,5		Tandem front axle Axle complete Wheel bolts Spherical M 12 x 1,5		Tandem rear axle Axle complete Wheel bolts Spherical M 12 x 1,5		Icon 1	Icon 2	Icon 3
		without AAA	with AAA	without AAA	with AAA	without AAA	with AAA			
1200	750	200 150 51	200 585 01	200 150 53	200 585 29	200 150 55	200 585 57	39	-	25 10
1250	800	200 151 51	200 585 02	200 151 53	200 585 30	200 151 55	200 585 58	39	-	25 10
1300	850	200 152 51	200 585 03	200 152 53	200 585 31	200 152 55	200 585 59	39	-	25 10
1350	900	200 153 51	200 585 04	200 153 53	200 585 32	200 153 55	200 585 60	39	-	25 10
1400	950	200 154 51	200 585 05	200 154 53	200 585 33	200 154 55	200 585 61	39	-	25 10
1450	1000	249 149	200 585 06	249 149 03	200 585 34	249 149 05	200 585 62	40	-	25 2
1490	1040	200 155 51	200 585 07	200 155 53	200 585 35	200 155 55	200 585 63	40	-	25 10
1520	1070	200 156 51	200 585 08	200 156 53	200 585 36	200 156 55	200 585 64	40	-	25 10
1550	1100	249 470	200 585 09	249 470 03	200 585 37	249 470 05	200 585 65	40	-	25 2
1600	1150	200 157 51	200 585 10	200 157 53	200 585 38	200 157 55	200 585 66	40	-	25 10
1650	1200	249 471	200 585 11	249 471 03	200 585 39	249 471 05	200 585 67	40	-	25 2
1670	1220	200 158 51	200 585 12	200 158 53	200 585 40	200 158 55	200 585 68	41	-	25 10
1700	1250	249 472	200 585 13	249 472 03	200 585 41	249 472 05	200 585 69	41	-	25 2
1760	1310	200 159 51	200 585 14	200 159 53	200 585 42	200 159 55	200 585 70	41	-	25 10
1800	1350	200 160 51	200 585 15	200 160 53	200 585 43	200 160 55	200 585 71	41	-	25 10
1850	1400	249 473	200 585 16	249 473 03	200 585 44	249 473 05	200 585 72	41	-	25 2
1900	1450	200 161 51	200 585 17	200 161 53	200 585 45	200 161 55	200 585 73	41	-	25 10
1950	1500	249 474	200 585 18	249 474 03	200 585 46	249 474 05	200 585 74	42	-	25 2
1980	1530	200 162 51	200 585 19	200 162 53	200 585 47	200 162 55	200 585 75	42	-	25 10
2000	1550	249 475	200 585 20	249 475 03	200 585 48	249 475 05	200 585 76	42	-	25 2
2030	1580	200 163 51	200 585 21	200 163 53	200 585 49	200 163 55	200 585 77	42	-	25 10
2075	1625	200 164 51	200 585 22	200 164 53	200 585 50	200 164 55	200 585 78	42	-	25 10
2120	1670	200 165 51	200 585 23	200 165 53	200 585 51	200 165 55	200 585 79	42	-	25 10
2150	1700	200 166 51	200 585 24	200 166 53	200 585 52	200 166 55	200 585 80	43	-	25 10
2200	1750	200 167 51	200 585 25	200 167 53	200 585 53	200 167 55	200 585 81	43	-	25 10
2250	1800	200 168 51	200 585 26	200 168 53	200 585 54	200 168 55	200 585 82	43	-	25 10
2300	1850	200 169 51	200 585 27	200 169 53	200 585 55	200 169 55	200 585 83	43	-	25 10
2350	1900	200 170 51	200 585 28	200 170 53	200 585 56	200 170 55	200 585 84	43	-	25 10

Contents

- | Bowdencable bracket single axle welded to axle body
- | Single axle balance bar
- | Bowden cables loose
- | Wheel bolts loose

Separate order for Tandem

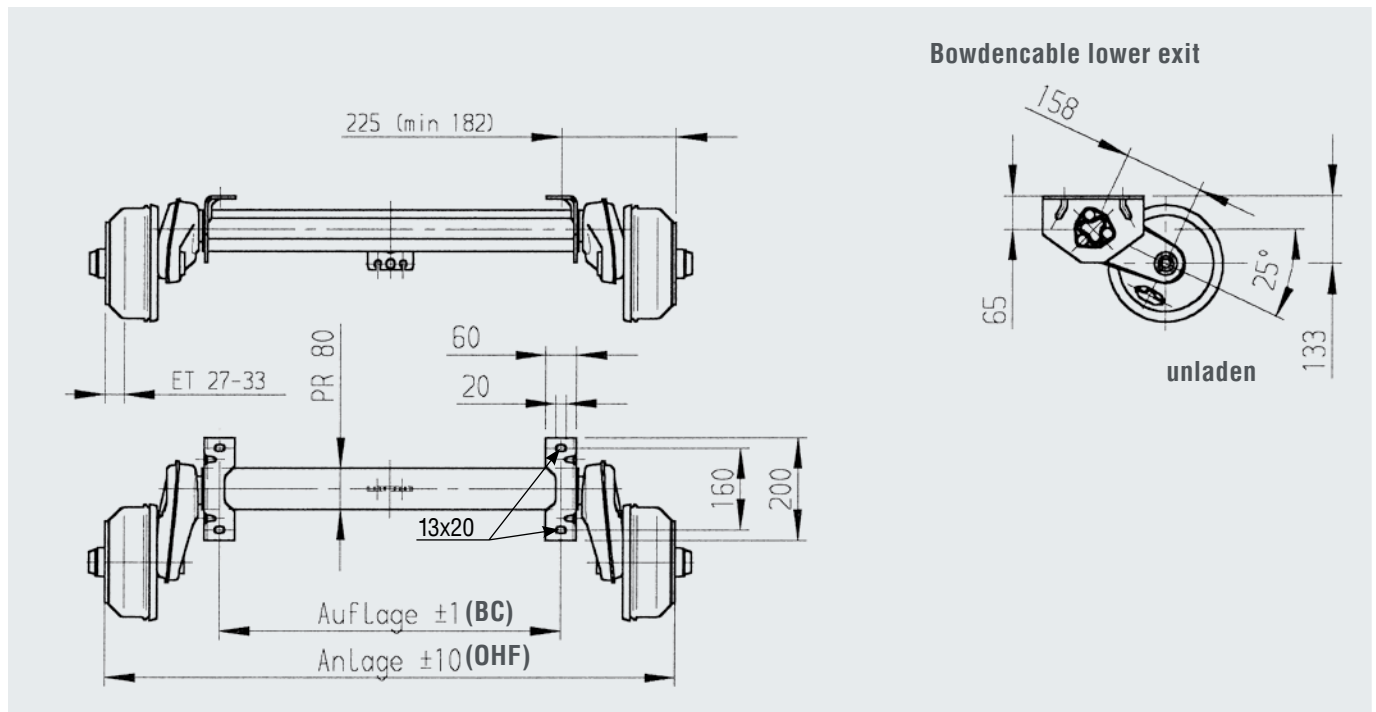
- | Bowden cable bracket tandem 249 236
- | Tandem axle balance bar 238 576

Surface Treatment

- | Axle body hot dip galvanised
- | Wheel brake galvanised and with yellow chromate

Accessories

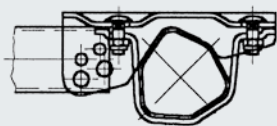
- | Axle damper (see index)



Towbar-to-axle fixing bracket

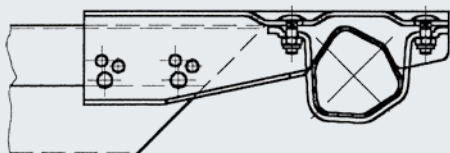
Ø 70 / Ø 88,9 / □ 60 / □ 70 / □ 100

Part No. 247 853



101 VB / 161 VB

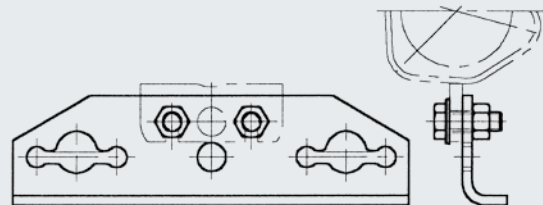
Part No. 249 116



Accessories for Tandem

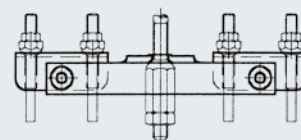
Support bracket tandem screwable

Part No. 249 236



Tandem axle balance bar

Part No. 238 576



Axle PLUS braked

1.350 kg, 112x5

Technology

Model:	PLUS	Wheel brake:	2051	PCD:	112x5
Axle type:	B 1200-6	Suspension:	Hexagonal rubber suspension	Wheel bearing:	Compact bearing
Load per axle:	SA 1.350 kg TA 2.700 kg	Swing arm:	161,5 mm	Center hole:	min. 57 mm



AAA= AL-KO Automatic Adjustment
(automatic brake adjustment)

Range Overview

OHF in mm	BC in mm	Single axle Axle complete Wheel bolts Spherical M 12 x 1,5		Tandem front axle Axle complete Wheel bolts Spherical M 12 x 1,5		Tandem rear axle Axle complete Wheel bolts Spherical M 12 x 1,5		Icons	Icons	Icons	
		without AAA	with AAA	without AAA	with AAA	without AAA	with AAA				
1200	750	200 001 51	200 586 01	200 001 53	200 586 30	200 001 55	200 586 60	44	-	25	10
1250	800	200 002 51	200 586 02	200 002 53	200 586 31	200 002 55	200 586 61	44	-	25	10
1300	850	200 003 51	200 586 03	200 003 53	200 586 32	200 003 55	200 586 62	44	-	25	10
1350	900	200 004 51	200 586 04	200 004 53	200 586 33	200 004 55	200 586 63	44	-	25	10
1400	950	200 005 51	200 586 05	200 005 53	200 586 34	200 005 55	200 586 64	44	-	25	10
1450	1000	247 547	1 225 996	247 547 03	200 586 35	247 547 05	200 586 65	45	-	25	2
1490	1040	200 006 51	200 586 06	200 006 53	200 586 36	200 006 55	200 586 66	45	-	25	10
1520	1070	200 007 51	200 586 07	200 007 53	200 586 37	200 007 55	200 586 67	45	-	25	10
1550	1100	247 548	200 586 08	247 548 03	200 586 38	247 548 05	200 586 68	45	-	25	2
1600	1150	200 008 51	200 586 09	200 008 53	200 586 39	200 008 55	200 586 69	45	-	25	10
1650	1200	247 549	200 586 10	247 549 03	200 586 40	247 549 05	200 586 70	45	-	25	2
1670	1220	200 009 51	200 586 11	200 009 53	200 586 41	200 009 55	200 586 71	46	-	25	10
1700	1250	247 550	200 586 12	247 550 03	200 586 42	247 550 05	200 586 72	46	-	25	2
1750	1300	200 020 51	200 586 13	200 020 53	200 586 43	200 020 55	200 586 73	46	-	25	2
1760	1310	200 010 51	200 586 14	200 010 53	200 586 44	200 010 55	200 586 74	46	-	25	10
1800	1350	200 011 51	200 586 15	200 011 53	200 586 45	200 011 55	200 586 75	46	-	25	10
1850	1400	247 551	200 586 16	247 551 03	200 586 46	247 551 05	200 586 76	47	-	25	2
1900	1450	200 012 51	200 586 17	200 012 53	200 586 47	200 012 55	200 586 77	47	-	25	10
1950	1500	247 552	200 586 18	247 552 03	200 586 48	247 552 05	200 586 78	47	-	25	2
1980	1530	200 013 51	200 586 19	200 013 53	200 586 49	200 013 55	200 586 79	47	-	25	10
2000	1550	247 553	200 586 20	247 553 03	200 586 50	247 553 05	200 586 80	49	-	25	2
2030	1580	200 014 51	200 586 21	200 014 53	200 586 51	200 014 55	200 586 81	49	-	25	10
2050	1600	200 021 51	200 586 22	200 021 53	200 586 52	200 021 55	200 586 82	49	-	25	2
2075	1625	200 015 51	200 586 23	200 015 53	200 586 53	200 015 55	200 586 83	49	-	25	10
2120	1670	200 016 51	200 586 24	200 016 53	200 586 54	200 016 55	200 586 84	49	-	25	10
2150	1700	247 554	200 586 25	247 554 03	200 586 55	247 554 05	200 586 85	50	-	25	2
2200	1750	200 017 51	200 586 26	200 017 53	200 586 56	200 017 55	200 586 86	50	-	25	10
2250	1800	247 555	200 586 27	247 555 03	200 586 57	247 555 05	200 586 87	51	-	25	2
2300	1850	200 018 51	200 586 28	200 018 53	200 586 58	200 018 55	200 586 88	51	-	25	10
2350	1900	200 019 51	200 586 29	200 019 53	200 586 59	200 019 55	200 586 89	51	-	25	10

Contents

- | Bowdencable bracket single axle welded to axle body
- | Single axle balance bar
- | Bowdencables loose
- | Wheel bolts loose

Separate order for Tandem

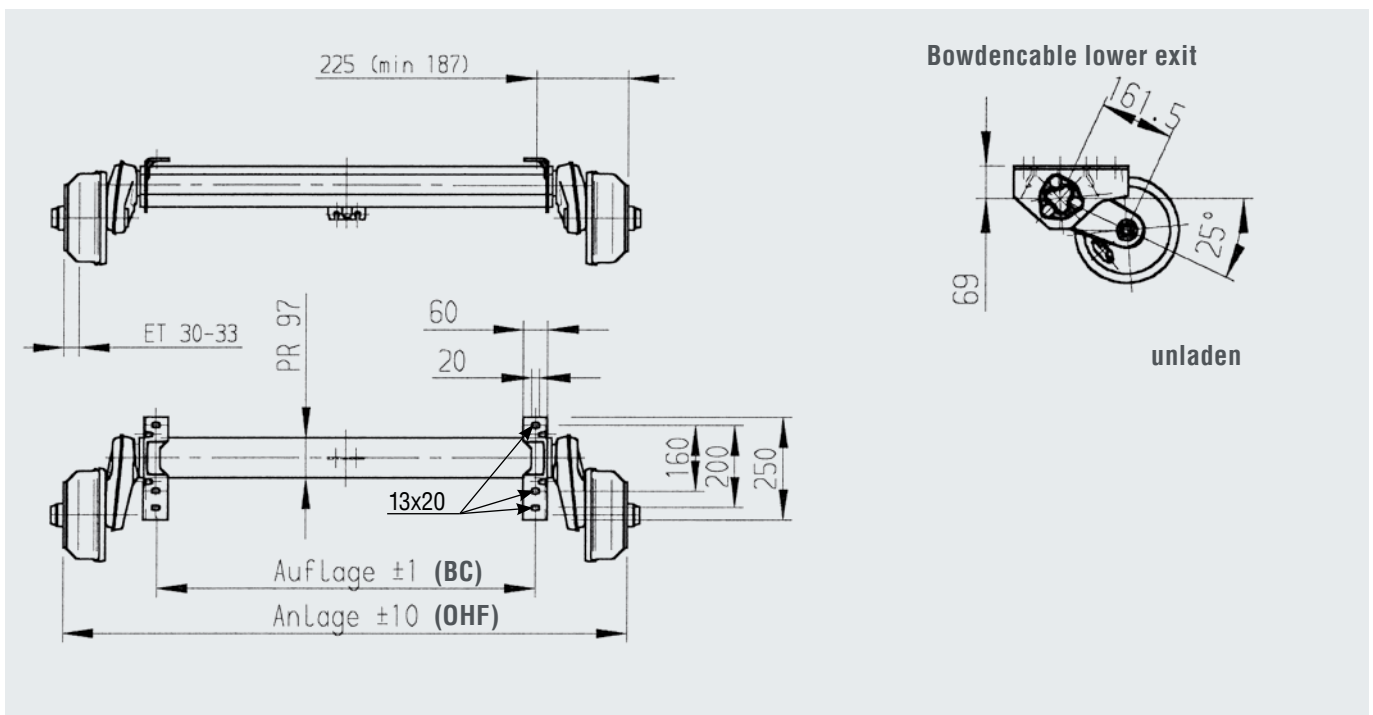
- | Bowdencable bracket tandem 249 236
- | Tandem axle balance bar 238 576

Surface Treatment

- | Axle body hot dip galvanised
- | Wheel brake galvanised and with yellow chromate

Accessories

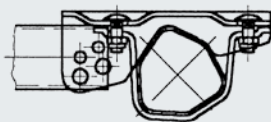
- | Axle damper (see index)



Towbar-to-axle fixing bracket

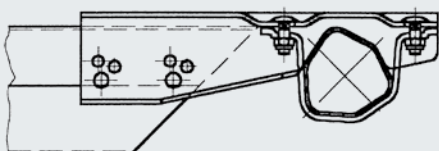
Ø 70 / Ø 88,9 / □ 70 / □ 100

Part No. 247 684



161 VB / 251 VB

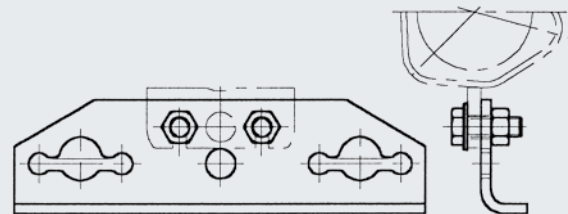
Part No. 249 117



Accessories for Tandem

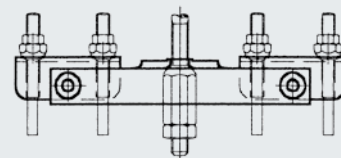
Support bracket tandem screwable

Part No. 249 236



Tandem axle balance bar

Part No. 238 576



Axle PLUS braked

1.500 kg, 112x5

Technology

Model:	PLUS	Wheel brake:	2051 Ab	PCD:	112x5
Axle type:	B 1600-3	Suspension:	Hexagonal rubber suspension	Wheel bearing:	Compact bearing
Load per axle:	SA 1.500 kg TA 3.000 kg	Swing arm:	161,5 mm	Center hole:	min. 57 mm



AAA= AL-KO Automatic Adjustment
(automatic brake adjustment)

Range Overview

OHF in mm	BC in mm	Single axle Single axle Axle complete Wheel bolts Spherical M 12 x 1,5		Tandem axle Tandem front axle Axle complete Wheel bolts Spherical M 12 x 1,5		Tandem rear axle Axle complete Wheel bolts Spherical M 12 x 1,5		50	-	25	10
		without AAA	with AAA	without AAA	with AAA	without AAA	with AAA				
1250	800	200 210 51	200 210 52	200 210 53	200 210 54	200 210 55	200 210 56				
1300	850	200 211 51	200 211 52	200 211 53	200 211 54	200 211 55	200 211 56				
1350	900	200 212 51	200 212 52	200 212 53	200 212 54	200 212 55	200 212 56				
1400	950	200 213 51	200 213 52	200 213 53	200 213 54	200 213 55	200 213 56				
1450	1000	247 556	247 556 02	247 556 03	247 556 04	247 556 05	247 556 06				2
1490	1040	200 214 51	200 214 52	200 214 53	200 214 54	200 214 55	200 214 56				10
1520	1070	200 215 51	200 215 52	200 215 53	200 215 54	200 215 55	200 215 56				10
1550	1100	247 557	247 557 02	247 557 03	247 557 04	247 557 05	247 557 06				2
1600	1150	200 216 51	200 216 52	200 216 53	200 216 54	200 216 55	200 216 56				10
1650	1200	247 558	247 558 02	247 558 03	247 558 04	247 558 05	247 558 06				2
1670	1220	200 217 51	200 217 52	200 217 53	200 217 54	200 217 55	200 217 56				10
1700	1250	247 559	247 559 02	247 559 03	247 559 04	247 559 05	247 559 06				2
1750	1300	200 208 51	200 208 52	200 208 53	200 208 54	200 208 55	200 208 56				2
1760	1310	200 218 51	200 218 52	200 218 53	200 218 54	200 218 55	200 218 56				10
1800	1350	200 219 51	200 219 52	200 219 53	200 219 54	200 219 55	200 219 56				10
1850	1400	247 560	247 560 02	247 560 03	247 560 04	247 560 05	247 560 06				2
1900	1450	200 220 51	200 220 52	200 220 53	200 220 54	200 220 55	200 220 56				10
1950	1500	247 561	247 561 02	247 561 03	247 561 04	247 561 05	247 561 06				2
1980	1530	200 221 51	200 221 52	200 221 53	200 221 54	200 221 55	200 221 56				10
2000	1550	247 562	247 562 02	247 562 03	247 562 04	247 562 05	247 562 06				2
2030	1580	200 222 51	200 222 52	200 222 53	200 222 54	200 222 55	200 222 56				10
2050	1600	200 209 51	200 209 52	200 209 53	200 209 54	200 209 55	200 209 56				2
2075	1625	200 223 51	200 223 52	200 223 53	200 223 54	200 223 55	200 223 56				10
2120	1670	200 224 51	200 224 52	200 224 53	200 224 54	200 224 55	200 224 56				10
2150	1700	247 563	247 563 02	247 563 03	247 563 04	247 563 05	247 563 06				2
2200	1750	200 225 51	200 225 52	200 225 53	200 225 54	200 225 55	200 225 56				10
2250	1800	200 226 51	200 226 52	200 226 53	200 226 54	200 226 55	200 226 56				10
2300	1850	200 227 51	200 227 52	200 227 53	200 227 54	200 227 55	200 227 56				10
2350	1900	200 228 51	200 228 52	200 228 53	200 228 54	200 228 55	200 228 56				10

Contents

- | Bowdencable bracket single axle welded to axle body
- | Single axle balance bar
- | Bowdencables loose
- | Wheel bolts loose

Separate order for Tandem

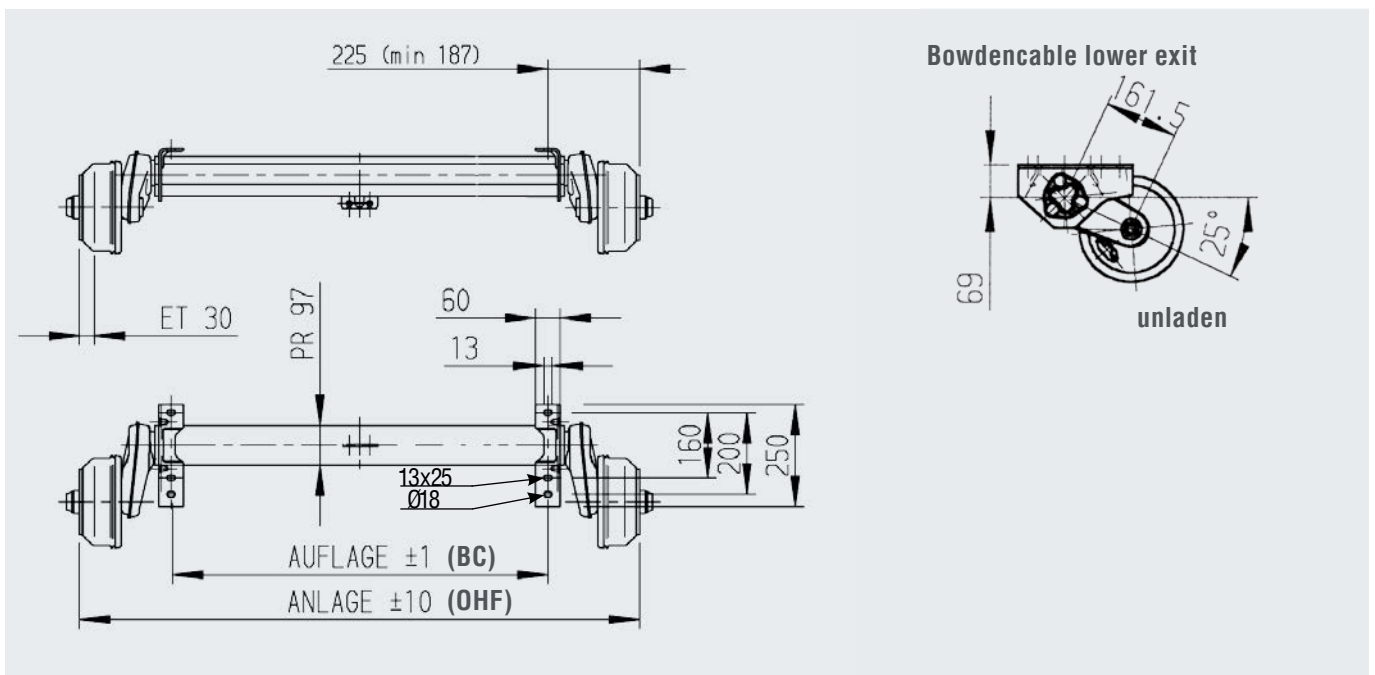
- | Bowdencable bracket tandem 249 236
- | Tandem axle balance bar 238 576

Surface Treatment

- | Axle body hot dip galvanised
- | Wheel brake galvanised and with yellow chromate

Accessories

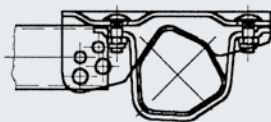
- | Axle damper (see index)



Towbar-to-axle fixing bracket

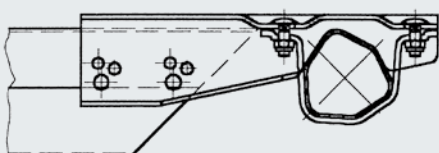
Ø 70 / Ø 88,9 / □ 70 / □ 100

Part No. 247 684



161 VB / 251 VB

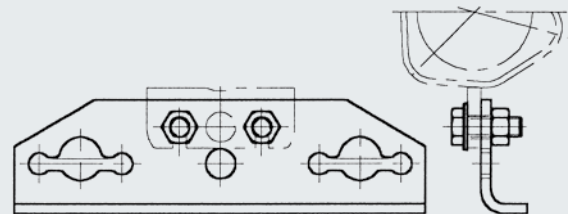
Part No. 249 117



Accessories for Tandem

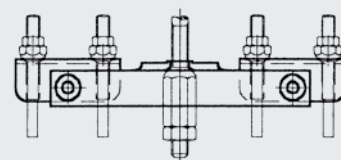
Support bracket tandem screwable

Part No. 249 236



Tandem axle balance bar

Part No. 238 576



Axle PLUS braked

1.600 kg, 112x5

Technology

Model:	PLUS
Axle type:	B 1600-1
Load per axle:	SA 1.600 kg TA 3.200 kg
Wheel brake:	2361
Suspension:	Hexagonal rubber suspension
Swing arm:	160 mm
PCD:	112x5
Wheel bearing:	Compact bearing
Center hole:	min. 63 mm



Range Overview

OHF in mm	BC in mm	Single axle		Tandem axle		Spherical M 12x1,5 Axle complete	Conical M 12x1,5 Axle complete	Spherical M 12x1,5 Axle complete	Conical M 12x1,5 Axle complete	Spherical M 12x1,5 Axle complete	Conical M 12x1,5 Axle complete	Spherical M 12x1,5 Axle complete	Conical M 12x1,5 Axle complete	Spherical M 12x1,5 Axle complete	Conical M 12x1,5 Axle complete	Spherical M 12x1,5 Axle complete	Conical M 12x1,5 Axle complete	Spherical M 12x1,5 Axle complete	Conical M 12x1,5 Axle complete	Spherical M 12x1,5 Axle complete	Conical M 12x1,5 Axle complete		
		Wheel bolts		Front axle																		Rear axle	
		Spherical M 12x1,5 Axle complete	Conical M 12x1,5 Axle complete	Spherical M 12x1,5 Axle complete	Conical M 12x1,5 Axle complete																	Spherical M 12x1,5 Axle complete	Conical M 12x1,5 Axle complete
1320	850	200 019 01	200 019 02	200 019 03	200 019 04	200 019 05	200 019 06	68	20	10													
1370	900	200 020 01	200 020 02	200 020 03	200 020 04	200 020 05	200 020 06	68	20	10													
1420	950	200 021 01	200 021 02	200 021 03	200 021 04	200 021 05	200 021 06	68	20	10													
1470	1000	244 049	244 049 02	244 049 03	244 049 04	244 049 05	244 049 06	69	20	2													
1510	1040	200 022 01	200 022 02	200 022 03	200 022 04	200 022 05	200 022 06	69	20	10													
1540	1070	200 023 01	200 023 02	200 023 03	200 023 04	200 023 05	200 023 06	69	20	10													
1570	1100	244 050	244 050 02	244 050 03	244 050 04	244 050 05	244 050 06	71	20	2													
1620	1150	200 024 01	200 024 02	200 024 03	200 024 04	200 024 05	200 024 06	71	20	10													
1670	1200	244 051	244 051 02	244 051 03	244 051 04	244 051 05	244 051 06	72	20	2													
1690	1220	200 025 01	200 025 02	200 025 03	200 025 04	200 025 05	200 025 06	72	20	10													
1720	1250	244 052	244 052 02	244 052 03	244 052 04	244 052 05	244 052 06	73	20	2													
1780	1310	200 026 01	200 026 02	200 026 03	200 026 04	200 026 05	200 026 06	73	20	10													
1820	1350	200 027 01	200 027 02	200 027 03	200 027 04	200 027 05	200 027 06	73	20	10													
1870	1400	244 053	244 053 02	244 053 03	244 053 04	244 053 05	244 053 06	74	20	2													
1920	1450	200 028 01	200 028 02	200 028 03	200 028 04	200 028 05	200 028 06	74	20	10													
1970	1500	244 054	244 054 02	244 054 03	244 054 04	244 054 05	244 054 06	75	20	2													
2000	1530	200 029 01	200 029 02	200 029 03	200 029 04	200 029 05	200 029 06	75	20	10													
2020	1550	244 055	244 055 02	244 055 03	244 055 04	244 055 05	244 055 06	75	20	2													
2050	1580	200 030 01	200 030 02	200 030 03	200 030 04	200 030 05	200 030 06	75	20	10													
2095	1625	200 031 01	200 031 02	200 031 03	200 031 04	200 031 05	200 031 06	75	20	10													
2140	1670	200 032 01	200 032 02	200 032 03	200 032 04	200 032 05	200 032 06	75	20	10													
2170	1700	244 056	244 056 02	244 056 03	244 056 04	244 056 05	244 056 06	76	20	2													
2220	1750	200 033 01	200 033 02	200 033 03	200 033 04	200 033 05	200 033 06	76	20	10													
2270	1800	200 034 01	200 034 02	200 034 03	200 034 04	200 034 05	200 034 06	76	20	10													
2320	1850	200 035 01	200 035 02	200 035 03	200 035 04	200 035 05	200 035 06	76	20	10													

Contents

- | Bowdencable bracket single axle welded to axle body
- | Single axle balance bar
- | Bowdencables loose
- | Wheel bolts loose

Separate order for Tandem

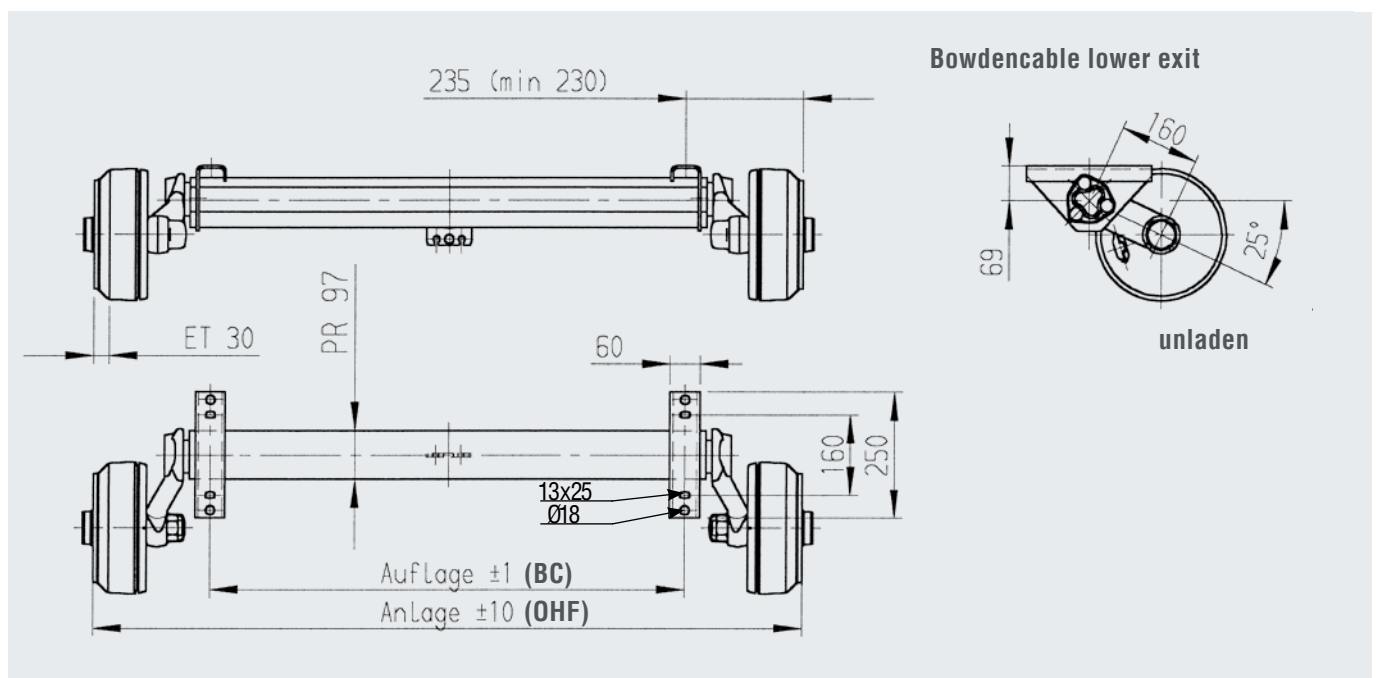
- | Bowdencable bracket tandem 249 236
- | Tandem axle balance bar 238 576

Surface Treatment

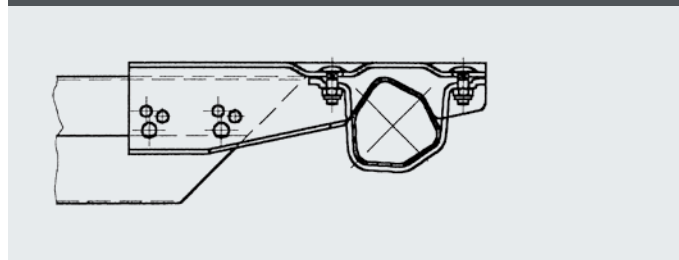
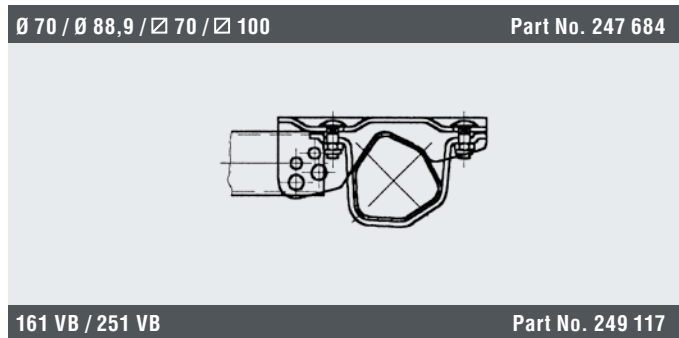
- | Axle body hot dip galvanised
- | Wheel brake galvanised and with yellow chromate

Accessories

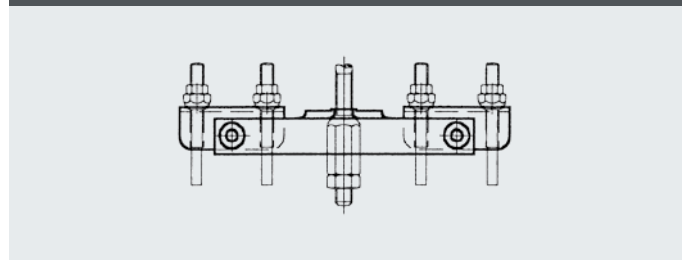
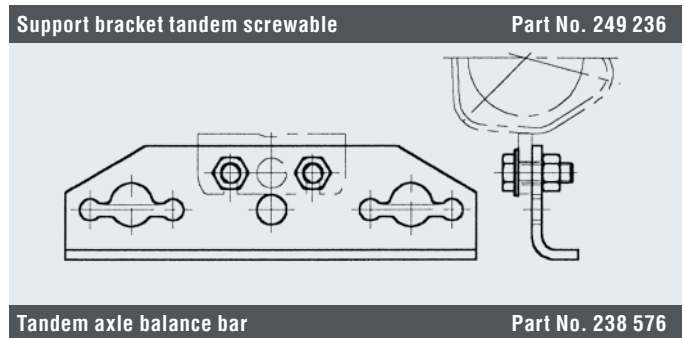
- | Axle damper (see index)



Towbar-to-axle fixing bracket



Accessories for Tandem



Axle PLUS braked




1.800 kg, 112x5, softer damping

Technology

Model:	PLUS	Swing arm:	175 mm	Wheel bearing:	Compact bearing
Axle type:	B 1800-9	PCD:	112x5	Center hole:	min. 66,5 mm
Load per axle:	SA 1.800 kg TA 3.500 kg				
Wheel brake:	2361				
Suspension:	Hexagonal rubber suspension				



Range Overview

OHF in mm	BC in mm	Single axle	Tandem axle		Single- and Tandem axle			
		Wheel bolts Spherical M 12x1,5 Axle complete	Front axle Wheel bolts Spherical M 12x1,5 Axle complete	Rear axle Wheel bolts Spherical M 12x1,5 Axle complete	Front axle with hat profile and mounting materials Wheel bolts Spherical M 12x1,5 Axle complete			
1400	900	200 050 01	200 050 03	200 050 05	200 050 07	73	20	10
1450	950	200 051 01	200 051 03	200 051 05	200 051 07	73	20	10
1500	1000	244 057	244 057 03	244 057 05	244 057 07	73	20	10
1540	1040	200 052 01	200 052 03	200 052 05	200 052 07	74	20	10
1560	1070	200 053 01	200 053 03	200 053 05	200 053 07	74	20	10
1600	1100	244 058	244 058 03	244 058 05	244 058 07	74	20	10
1650	1150	200 054 01	200 054 03	200 054 05	200 054 07	75	20	10
1700	1200	244 059	244 059 03	244 059 05	244 059 07	75	20	2
1720	1220	200 055 01	200 055 03	200 055 05	200 055 07	75	20	10
1750	1250	244 060	244 060 03	244 060 05	244 060 07	76	20	10
1810	1310	200 056 01	200 056 03	200 056 05	200 056 07	76	20	10
1850	1350	200 057 01	200 057 03	200 057 05	200 057 07	76	20	10
1900	1400	244 061	244 061 03	244 061 05	244 061 07	77	20	2
1950	1450	200 058 01	200 058 03	200 058 05	200 058 07	77	20	10
2000	1500	244 062	244 062 03	244 062 05	244 062 07	78	20	10
2030	1530	200 059 01	200 059 03	200 059 05	200 059 07	78	20	10
2050	1550	244 063	244 063 03	244 063 05	244 063 07	79	20	10
2080	1580	200 060 01	200 060 03	200 060 05	200 060 07	79	20	10
2100	1600	244 101	244 101 03	244 101 05	244 101 07	79	20	2
2125	1625	200 061 01	200 061 03	200 061 05	200 061 07	80	20	10
2170	1670	200 062 01	200 062 03	200 062 05	200 062 07	80	20	10
2200	1700	244 064	244 064 03	244 064 05	244 064 07	80	20	10
2250	1750	200 063 01	200 063 03	200 063 05	200 063 07	81	20	10
2300	1800	200 064 01	200 064 03	200 064 05	200 064 07	81	20	10
2350	1850	200 065 01	200 065 03	200 065 05	200 065 07	81	20	10

Contents

- | Bowdencable bracket single axle welded to axle body
- | Single axle balance bar
- | Bowdencables loose
- | Wheel bolts loose

Separate order for Tandem

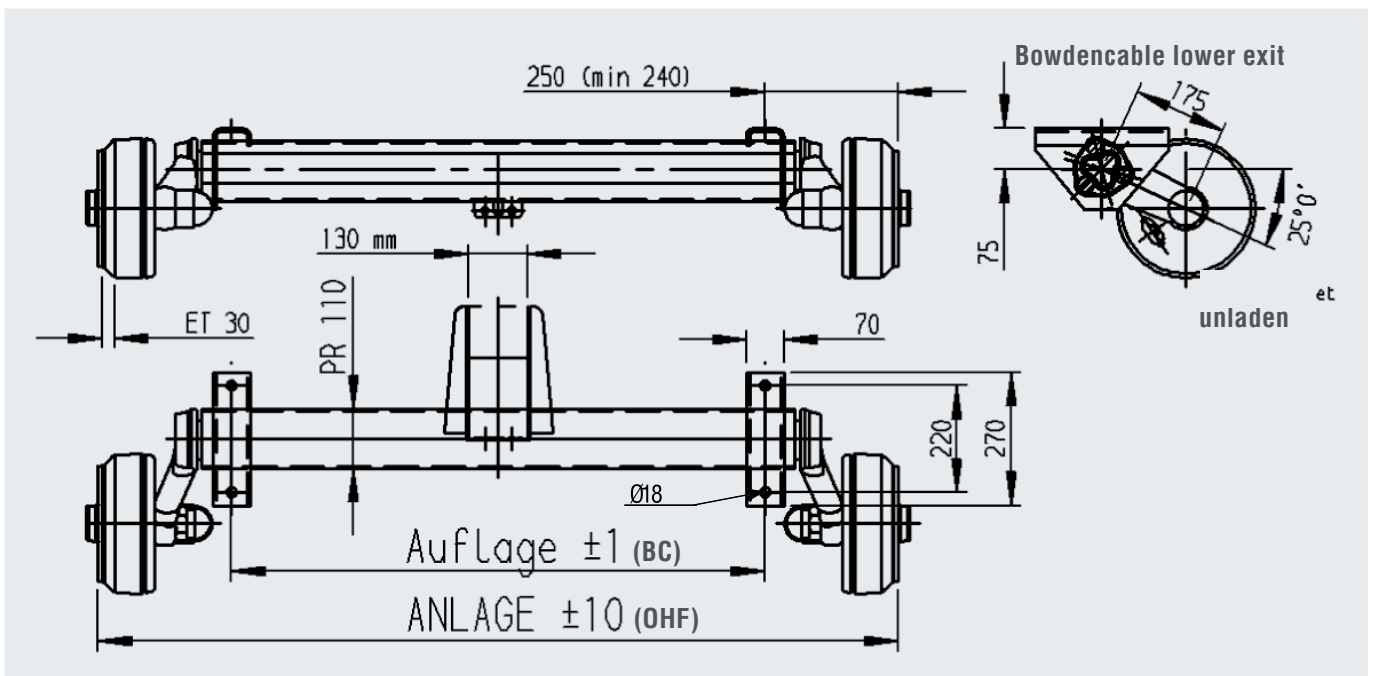
- | Bowdencable bracket tandem 249 236
- | Tandem axle balance bar 238 576

Surface Treatment

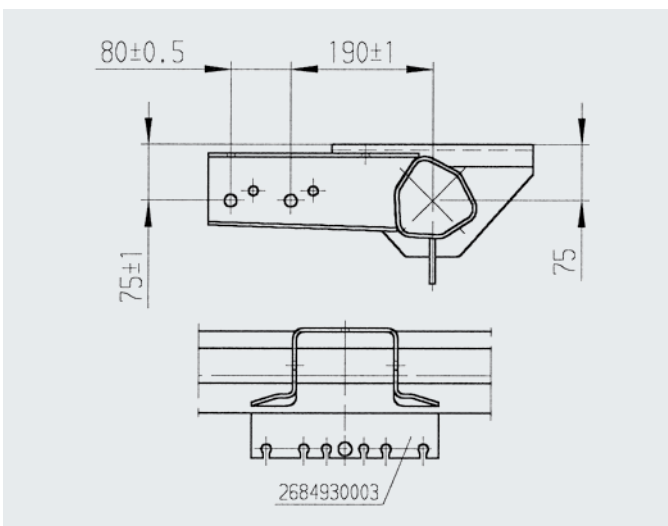
- | Axle body hot dip galvanised
- | Wheel brake galvanised and with yellow chromate

Accessories

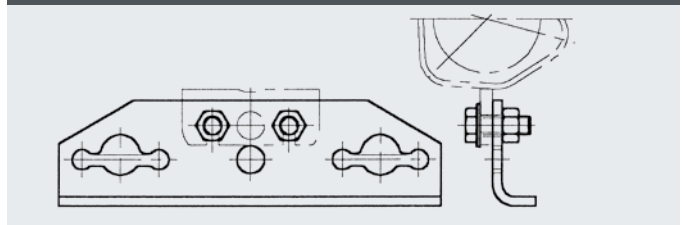
- | Axle damper (see index)



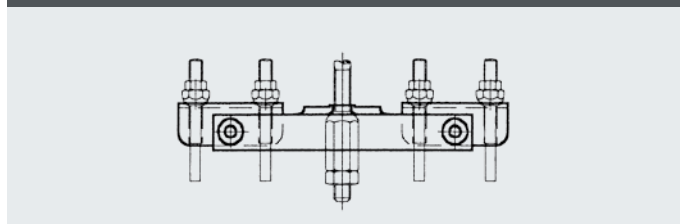
Hat profile including cable-bracket for single axle and tandem Accessories for Tandem



Support bracket tandem screwable Part No. 249 236



Tandem axle balance bar Part No. 238 576



Axle COMPACT braked

2.500 kg, 205x6

Technology

Model:	COMPACT
Axle type:	B 2500-8
Load per axle:	SA 2.500 kg
Wheel brake:	3081A or 3062 (see table)
Suspension:	Hexagonal rubber suspension
Swing arm:	200 mm
PCD:	205x6
Wheel bearing:	Roller bearing
Center hole:	min. 161 mm



Range Overview

OHF in mm	BC in mm	Single axle		Front axle		Single axle in kg		10
		Wheel nuts M 18x1,5 Spherical Wheel brake 3081 A Axle complete	3062 Axle complete	with hat profile and mounting materials Wheel brake 3081 A Axle complete	3062 Axle complete	3081 A	3062	
1430	900	200 390 00	200 542 00	200 390 68	200 542 75	129	121	10
1480	950	200 390 01	200 542 01	200 390 69	200 542 76	129	121	10
1530	1000	241 157	200 542 02	200 390 70	200 542 77	130	122	10
1570	1040	200 390 02	200 542 03	200 390 71	200 542 78	130	122	10
1590	1070	200 390 03	200 542 04	200 390 72	200 542 79	131	123	10
1630	1100	241 158	200 542 05	200 390 73	200 542 80	131	123	10
1680	1150	200 390 04	200 542 06	200 390 74	200 542 81	132	124	10
1730	1200	240 828	200 542 07	200 390 75	200 542 82	132	124	10
1750	1220	200 390 05	200 542 08	200 390 76	200 542 83	132	124	10
1780	1250	241 153	200 542 09	200 390 77	200 542 84	133	125	10
1840	1310	200 390 06	200 542 10	200 390 78	200 542 85	133	125	10
1880	1350	200 390 07	200 542 11	200 390 79	200 542 86	134	126	10
1930	1400	241 154	200 542 12	200 390 80	200 542 87	135	127	10
1980	1450	200 390 08	200 542 13	200 390 81	200 542 88	135	127	10
2030	1500	241 155	200 542 14	200 390 82	200 542 89	136	128	10
2060	1530	200 390 09	200 542 15	200 390 83	200 542 90	136	128	10
2080	1550	241 156	200 542 16	200 390 84	200 542 91	137	129	10
2110	1580	200 390 10	200 542 17	200 390 85	200 542 92	137	129	10
2130	1600	200 390 11	200 542 18	200 390 86	200 542 93	138	130	10
2155	1625	200 390 12	200 542 19	200 390 87	200 542 94	138	130	10
2200	1670	200 390 13	200 542 20	200 390 88	200 542 95	139	131	10
2230	1700	200 390 14	200 542 21	200 390 89	200 542 96	139	131	10
2280	1750	200 390 15	200 542 22	200 390 90	200 542 97	140	132	10

📦 Contents

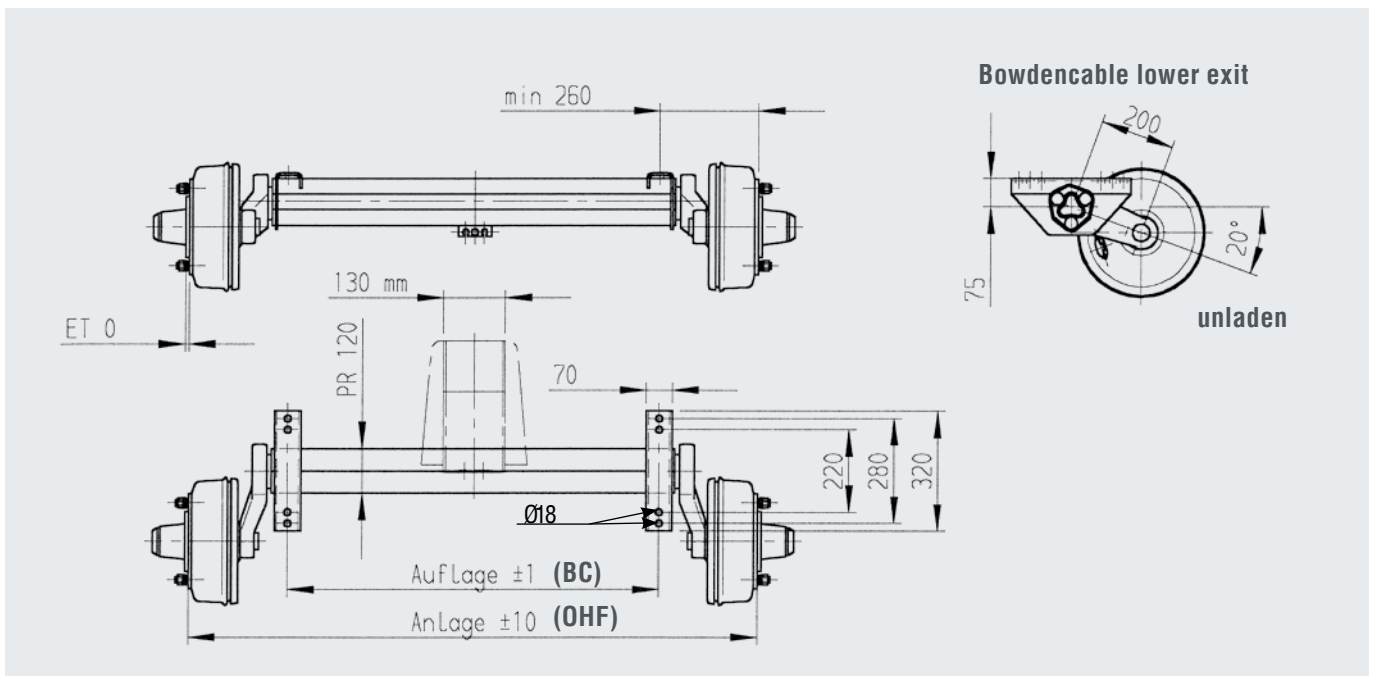
- | Bowdencable bracket single axle welded to axle body at hat profile
- | Bowdencable balancer
- | Bowdencables loose
- | Wheel bolts installed

🛡️ Surface Treatment

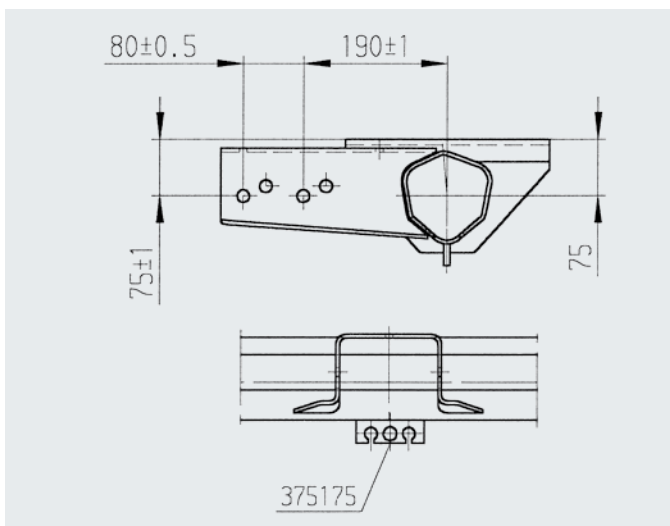
- | Axle body hot dip galvanised
- | Wheel brake black primed

🔧 Accessories

- | Axle damper (see index)



Hat profile including cable-bracket for single axle



Axle COMPACT braked

3.000 kg – 3.500 kg, 205x6

Technology

Model:	COMPACT
Axle type:	B 3000-2 B 3500-2
Load per axle:	SA 3.000 kg SA 3.500 kg
Wheel brake:	3081 B (see table) 3062 (see table)
Suspension:	Hexagonal rubber suspension
Swing arm:	3.000 kg 175 mm, 3.500 kg 150 mm
PCD:	205x6
Wheel bearing:	Roller bearing
Center hole:	3081 B min. 161 mm 3062 min. 161 mm



Range Overview

B 3000-2		Single axle		Front axle		Single axle in kg		20
OHF in mm	BC in mm	Wheel nuts M 18x1,5		with hat profile and mounting materials		3081 B 3062		
		Spherical		Wheel brake		Wheel brake		3081 B
		3081 B	3062	3081 B	3062			
		Axle complete	Axle complete	Axle complete	Axle complete			
1570	1100	1 212 403	1 213 663	1 212 404	1 213 664	130	120	20
1770	1300	1 223 400	1 223 402	1 223 404	1 223 406	133	123	20
1970	1500	1 223 401	1 223 403	1 223 405	1 223 407	136	126	20

B 3500-2		Single axle		Front axle		Single axle in kg		20
OHF in mm	BC in mm	Wheel nuts M 18x1,5		with hat profile and mounting materials		3081 B 3062		
		Spherical		Wheel brake		Wheel brake		
		3081 B		3081 B				
		Axle complete		Axle complete				
1780	1300	1 223 408		1 223 411		140		20
1980	1500	1 223 409		1 223 412		143		20
2180	1700	1 223 410		1 223 413		146		20

Contents

- | Bowdencable bracket single axle
- | Bowdencable balancer
- | Bowdencables loose
- | Wheel bolts installed

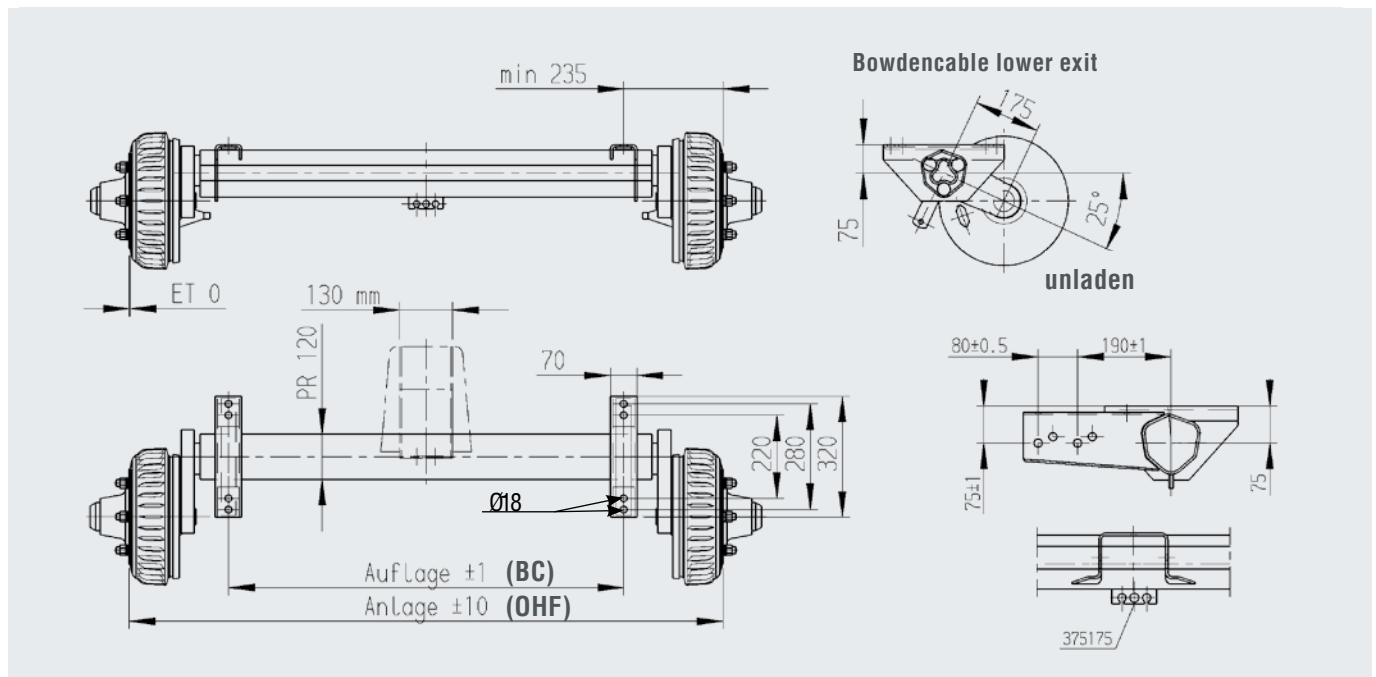
Surface Treatment

- | Axle body hot dip galvanised
- | Wheel brake black primed

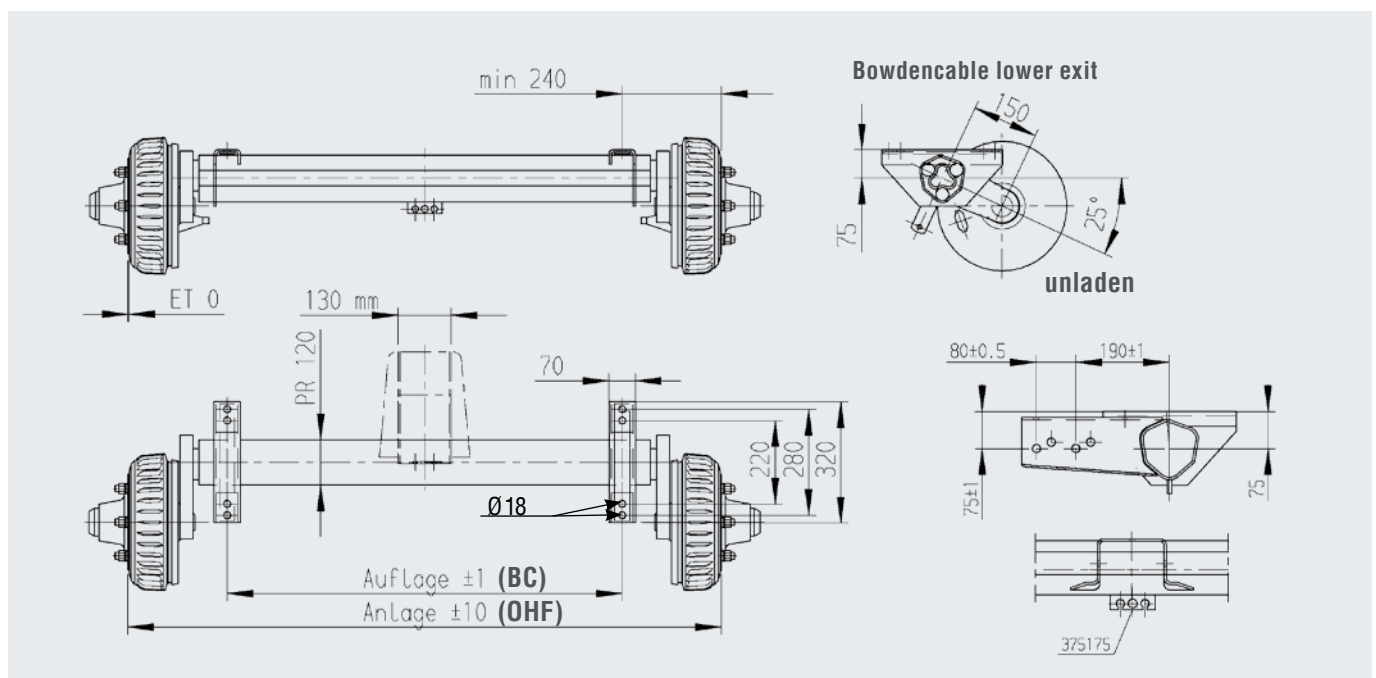
Accessories

- | Axle damper (see index)

B 3000-2



B 3500-2



Axle COMPACT braked

3.500 kg – 4.000 kg, 205x6

Technology

Model:	COMPACT
Axle type:	BT 3500 BT 4000
Load per axle:	SA 3.500 kg
Wheel brake:	3081 B
Suspension:	Steel torsion bar suspension
Swing arm:	200 mm
PCD:	205x6
Wheel bearing:	Roller bearing
Center hole:	min. 161 mm



Range Overview

BT 3500, 3.500 kg		Single axle	Front axle with hat profile and mounting materials	Single axle in kg	
OHF in mm	BC in mm	Wheel nuts M 18x1,5 Spherical Axle complete	Wheel nuts M 18x1,5 Spherical Axle complete		
1640	1100	274 165	200 396 03	182	20

BT 4000, 4.000 kg		Single axle	Front axle with hat profile and mounting materials	Single axle in kg	
OHF in mm	BC in mm	Wheel nuts M 18x1,5 Spherical Axle complete	Wheel nuts M 18x1,5 Spherical Axle complete		
1640	1100	274 166	200 397 03	182	20

📦 Contents

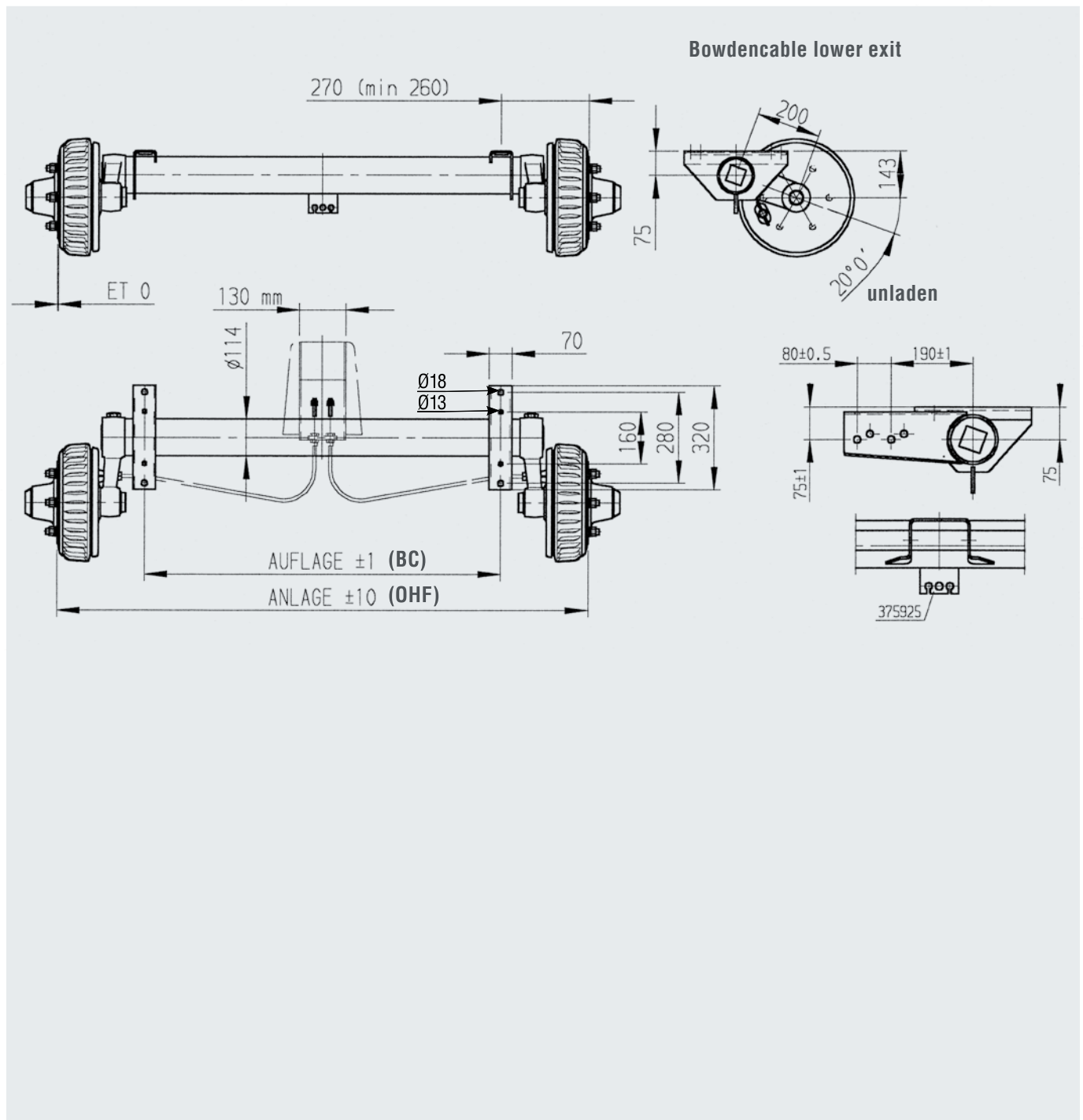
- | Bowdencable bracket single axle
- | Bowdencable balancer
- | Bowdencables loose
- | Wheel bolts installed

🏠 Surface Treatment

- | Axle body hot dip galvanised
- | Wheel brake black primed

🧰 Accessories

- | Axle damper (see index)

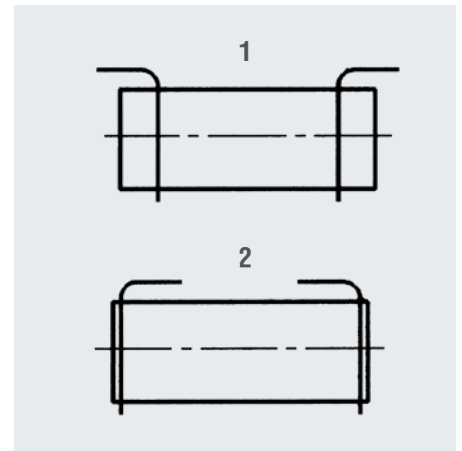


Axle PLUS braked tandem

1.600 kg – 3.500 kg

Technology

Model:	PLUS
Load per axle:	see table
Wheel brake:	see table
Suspension:	Hexagonal rubber suspension
Swing arm:	see table
PCD:	see table
Wheel bearing:	Compact bearing



Range Overview

Part No.	Type	Load per tandem kg	Axle dimensions			Rims and wheels					
			BC A mm	OHF C mm	Axle body Ø	Wheel brake	PCD	Wheel bolt	Offset from to mm	Recommended rims	Recommended wheels
244 076	2xB 850	1600	1550	2000	80	1637	100x4	M12x1,5	27 – 45	4½ Jx13	165 R 13
244 077	2xB1000	2000	1550	2000	97	2051	112x5	M12x1,5	26 – 40	5 Jx14	175 R 14
244 078	2xB1200	2500	1550	2000	97	2051	112x5	M12x1,5	26 – 30	5½ Jx14	185 R 14
244 079	2xB1600	3000	1550	2000	97	2051Ab	112x5	M12x1,5	26 – 30	5½ Jx14	185 R 14 C
245 532	2xB1800	3500	1550	2050	110	2361	112x5	M12x1,5	26 – 30	6 Jx14	185 R 14 C
249 159	2xB 850	2000	1550	2000	80	1637	100x4	M12x1,5	27 – 33	5½ Jx13	185/70 R 13 max. dyn.
249 160	2xB 850	2000	1550	2000	80	1637	112x5	M12x1,5	27 – 33	5½ Jx13	Ø 0,606 min. dyn. Ø 0,420
249 161	2xB 850	2000	1550	2000	80	2051	112x5	M12x1,5	27 – 33	5½ Jx14	185 R 14 max. dyn.
249 162	2xB1200	2600	1550	2000	97	2051	112x5	M12x1,5	30 – 33	5½ Jx14	Ø 0,640 min. dyn. Ø 0,540
249 163	2xB1600	3000	1550	2000	97	2051	112x5	M12x1,5	30	5½ Jx15	185 R 14 C

Contents

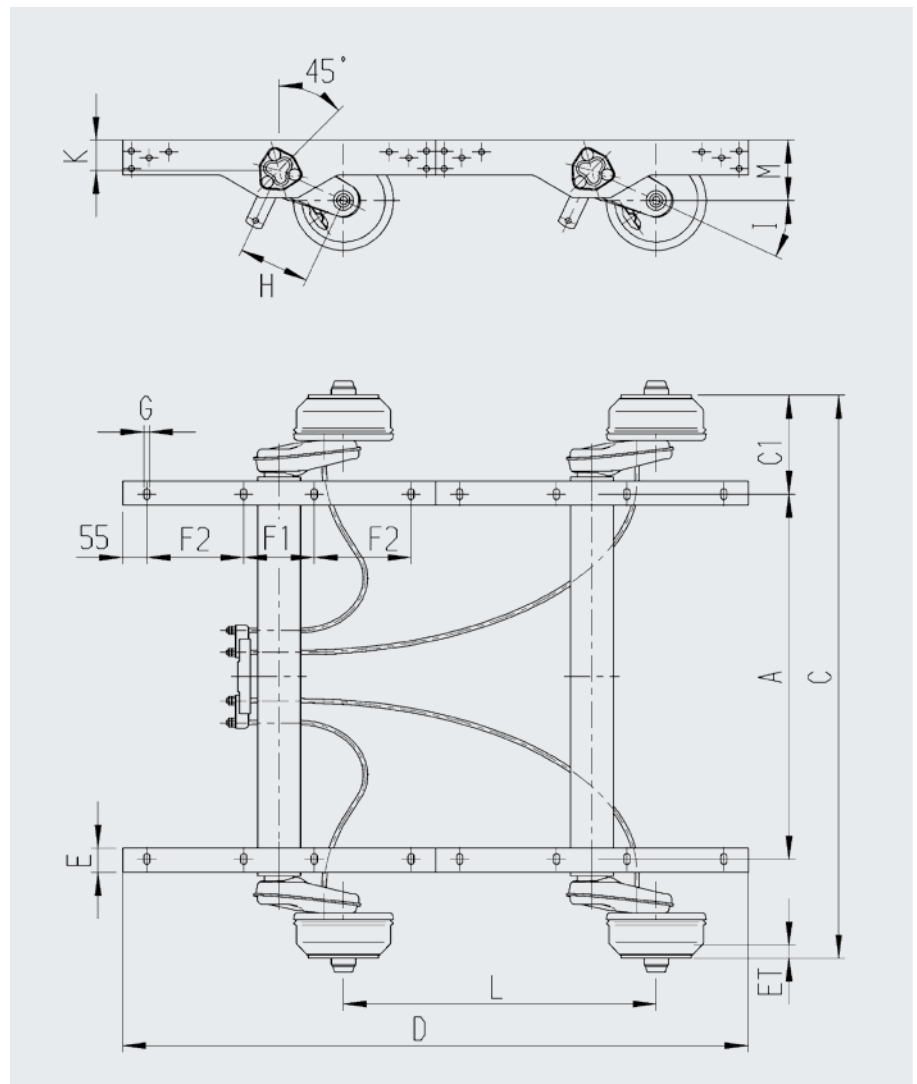
- | Bowdencable bracket single axle welded to axle body
- | Tandem bowdencable bracket loose
- | Tandem axle balance bar loose
- | Bowdencable loose
- | Wheel bolts loose
- | Shock absorber holder only welded type B1800

Surface Treatment

- | Axle body hot dip galvanised
- | Wheel brake galvanised and with yellow chromate

Accessories

- | Axle shock absorber (see index)



Version No.	Mount mm					Swing arm						Min. axle dimension		C min mm	C1 min. at mount version No. mm	90	10	20
	D	E	F1	F2	G	H	Standard I	Special I	K	L	M at 25°	C min mm	C1 min. at mount version No. mm					
1	1420	55	160	220	13	158	25°	–	65	710	133	1190	200/1	90	10	20		
1	1420	55	160	220	13	175	25°	–	65	710	140	1220	215/1	130	10	20		
1	1420	55	160	220	13	175	25°	–	65	710	140	1325	215/1	131	10	20		
1	1420	55	160	220	13	175	25°	–	65	710	133	1420	230/1	150	10	20		
2	1460	60	200	200	18	175	25°	–	75	730	150	1320	240/2	161	10	20		
2	1420	55	160	220	13	158	25°	–	65	710	133	1100	182/2	90	10	20		
2	1420	55	160	220	13	158	25°	–	65	710	133	1100	182/2	90	10	20		
2	1420	55	160	220	13	161,5	25°	–	69	710	133	1100	182/2	93	10	20		
2	1420	55	160	220	13	161,5	25°	–	69	710	133	1150	187/2	120	10	2		
2	1420	55	160	220	13	160	25°	–	69	710	133	1250	187/2	120	10	20		

Towbar to axle fixing brackets

✓ Your Advantage

- Combine your customised chassis out of stock equipment
- No more time consuming welding of hat profiles

🔥 Surface Treatment

hot dip galvanised

📦 Contents

(see techn. drawing) incl.

- Bolting material for connection to axle
- No bolting material for connection to drawbar included (please purchase locally). See recommended bolts in chart
- Installation manual included to carton

🔧 Fitting

1. bolting drawbar to fixing bracket

- Choose correct holes for fitting drawbar diameter
- Position fixing bracket laterally to drawbar and fix with bolts (M12/M16)

2. mounting of fixing bracket to ax

- Apply fixing bracket to axle, mount clamp bracket and bolts (M12x35)
- Straighten towbar to axle and fix tight

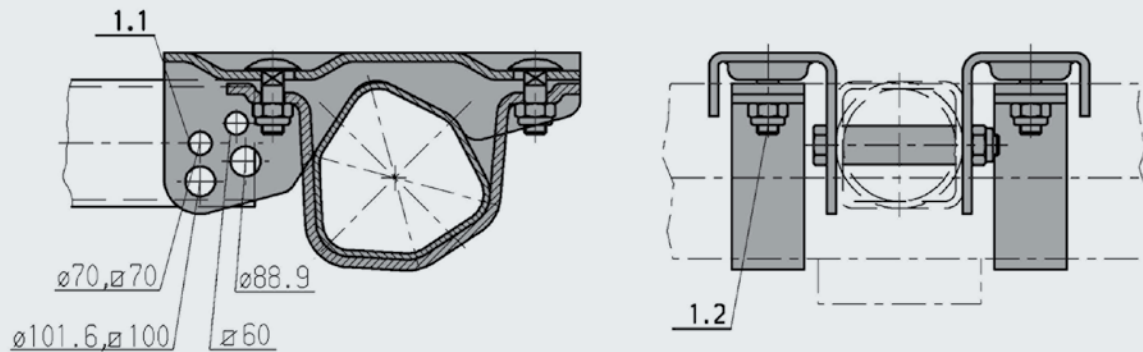
Remark: distance tube must be impressed or inserted to towbar



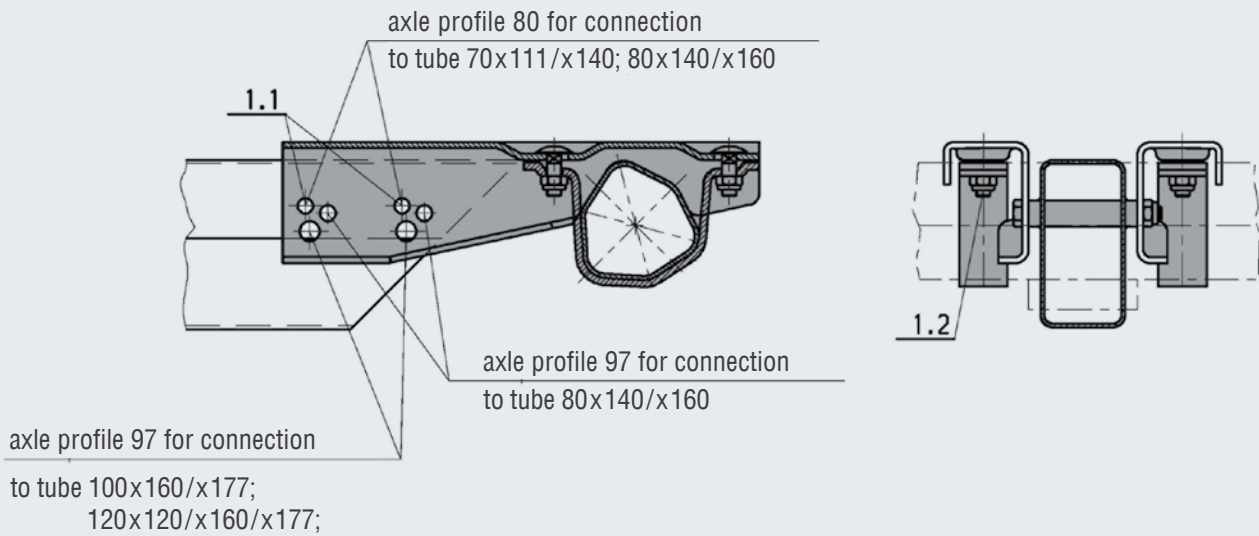
Range Overview

Part No.	Version	for hexagonal rubber suspension axle Compact, Plus (from 1999 on)		Axle body	Ø round	square	kg	pcs	
		Single axle	Tandem						
247 853	A	B 850/ B 1000	2000	80	70 88,9	60x60 70x60 100x100	4	100	2
247 684	A	B 1200/ B 1600	2600	97	70 88,9	70x70 100x100	4	100	2
249 116	B	B 850/ B 1000	1600	80		70x110 70x140 80x140	7	100	2
249 117	B	B 1200/ B 1600	3200	97		80x140 80x160 100x160 100x177 120x120 120x160 120x177	7	100	2

Model A – for overrun devices center tube



Model B – for overrun devices height adjustable as well as center tube Typ R35 (120x120)



Recommended screws for mounting of tow-bar and torque settings

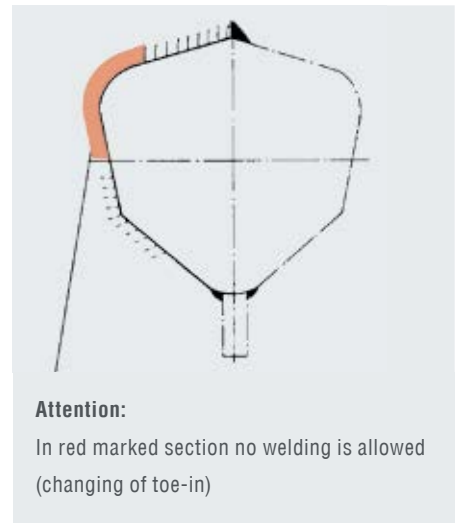
for towbar profile	recommended screw	torque setting
Square 60x60 mm	M 12 x 100 8.8	85 Nm
Square 70x70 mm and round tube \varnothing 70 mm	M 12 x 110 8.8	85 Nm
Round tube \varnothing 88,9 mm	M 16 x 120 8.8	220 Nm
Square tube 100x100 mm	M 16 x 130 8.8	220 Nm
Square tube 70x110, 70x140 mm	M 12 x 120 8.8	85 Nm
Square tube 80x140, 80x160 mm	M 12 x 120 8.8	85 Nm
Square tube 100x160, 100x170 mm	M 16 x 160 8.8	220 Nm
Square tube 120x120, 120x160, 120x177	M 16 x 160 8.8	220 Nm

Center drawbar connector brackets for axles

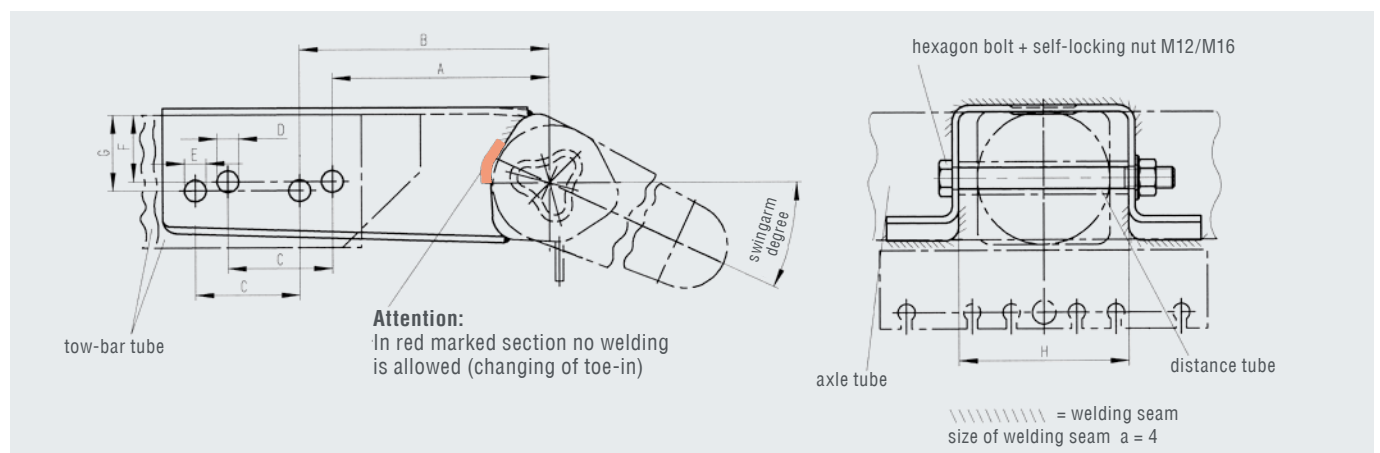
Technology

Fitting:

1. Brackets can be welded to axle in house AL-KO.
 2. Cutting the drawbar if necessary.
 3. Drill two holes to towbar. Serial towbars of AL-KO already have 2 holes and spacer tube installed.
 4. Welding of spacer tubes centralised.
 5. Mounting with screws with self-locking nut
- When welded brackets are used, an additional hole with spacer tube must be added in drawbar.
- For round drawbars drill a central hole and add distance tubes 365 472 (22 mm) or 372 879 (25,5 mm).
- Torque setting 86 Nm for M 12;
Torque setting 210 Nm for M 16



Version hexagonal rubber suspension



Range Overview

Part No.	Weight range		Axle body	Swing arm		Towbar profile	
	Single axle kg	Tandem kg		Standard degree	Special degree	Round Ø	Square ☒
AL-KO hexagonal rubber suspensions							
242 725	750		71	30°		70 u. 88,9	70 u. 80
243 108	750		71		5°	70 u. 88,9	70 u. 80
121 160 0	1600	2500	97		5°	70 u. 88,9	70 u. 80
121 160 1		3000	97		5°		100 u. 120
243 105	1800	3500	110	25°		88,9	100 u. 120
243 107	1800	3500	110		5°	88,9	100 u. 120
240 133	2500	3500	120	20°		88,9	100 u. 120
242 724	2500	3500	120		5°	88,9	100 u. 120
Steel torsion bar axle							
240 134	3500		Ø 114	20°			100 u. 120



Contents

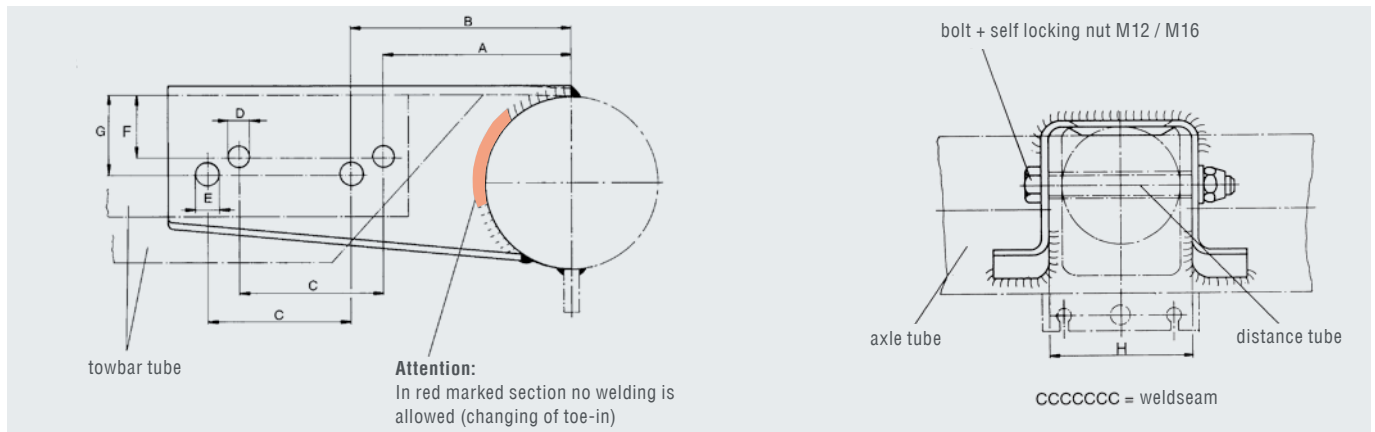
(see techn. drawing) inclusiv:

- | screwing material
- | with towbars (height adjustable)
distance tubes are included
- | welding instruction Part No. 604038

Surface Treatment

- | synthetic resin paint priming black

Version steel torsion bar axle



Dimensions (mm)								Part No.*		
A	B	C	D	E	F	G	H			
175	190	80	12,5	12,5	36	45	90	365 472	1,8	70
175	190	80	12,5	12,5	36	45	90	365 472	1,8	70
175	190	80	12,5	12,5	36	45	90	365 472	2,6	50
-	190	80	-	16,5	-	58	130	-	2,8	50
160	190	80	16,5	16,5	45	58	130	372 879	2,8	40
160	190	80	16,5	16,5	45	58	130	372 879	2,8	40
160	190	80	16,5	16,5	45	58	130	372 879	2,8	40
160	190	80	16,5	16,5	45	58	130	372 879	2,8	40
-	190	80	-	16,5	-	58	130	-	3,5	40

*Remark: When using Ø-tow-bars 2 pc. distance tubes are necessary (order seperately)

Standard axle clamps

Single axle up to 750 kg

Technology

Assembly clamp connection:
Fit drawbar tube and axle with clamp connection, tighten 4 M12 hex. screws.

Torque setting

86 Nm for 267 396

60 Nm for 267 395

Surface Treatment

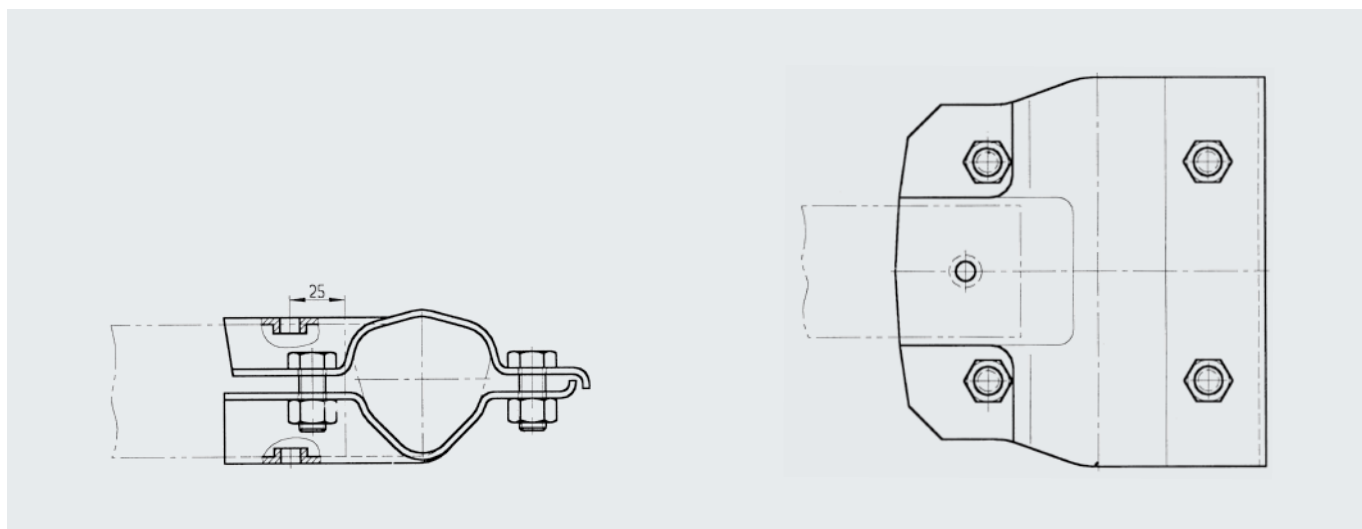
Clamps hot galvanised

Contents

(see techn. drawing)
includes fixing screws



Model B



Range Overview

Part No.	Model	Hexagon rubber suspension			Drawbar size	Slotted for brake cable bracket		
		Single axle	Axle body Ø	tube form				
267 396	B	500	62		60	nein	1,5	200
267 395	B	750	71		60	ja	1,5	200

Wheels – technical information:



QUALITY FOR LIFE

For trailers and caravans – speed limit 100 km/h

Belted tyres Wheel type	Regular version		Tyre radius	
	max. carrying capacity kg	Pressure bar	R stat. mm	R dyn. mm
135 R 12 Radial	320	2,4	238	253
145 R 12 Radial	400	2,5	246	263
155 R 12 Radial	455	2,5	249	267
145 R 13 Radial	425	2,5	256	275
155 R 13 Radial	480	2,5	263	281
165 R 13 Radial	525	2,5	270	290
175 R 13 Radial	585	2,5	275	295
175/70 R 13 Radial	525	2,7	264	282
185/70 R 13 Radial	585	2,7	271	290
195/70 R 13 Radial	660	2,7	275	295
175/70 R 14 Radial	550	2,7	277	294
185/70 R 14 Radial	615	2,7	284	303
195/70 R 14 Radial	675	2,7	289	309
205/70 R 14 Radial	760	2,7	295	317
215/70 R 14 Radial	805	2,7	300	323
165 R 14 Radial	550	2,5	283	302
175 R 14 Radial	615	2,5	288	308
185 R 14 Radial	660	2,5	294	316
195 R 14 Radial	715	2,5	300	323
205 R 14 Radial	780	2,5	308	333
175/65 R 14 Radial	525	2,7	268	283
185/65 R 14 Radial	585	2,7	273	290
195/65 R 14 Radial	660	2,7	278	296
195/65 R 15 Radial	675	2,7	291	308
205/65 R 15 Radial	735	2,7	296	314
175 R 14C Radial	815	4,5	289	306
185 R 14C Radial	895	4,5	296	314
195 R 14C Radial	1000	4,5	302	321
205 R 14C Radial	1080	4,5	310	331
215 R 14 C	1250	4,5	316	337

Above mentioned technical data is taken from specific technical tyre documentation.

Please contact your local wheel and tyre wholesaler for more informations.

Remark: AL-KO does not trade wheels and rims.

Octagon Shock Absorbers

✓ Your Advantage

The conventional standard axle shock absorbers on the market are designed for too high a weight range (e.g 0 to 4.0 t).

Optimum damping only exists for medium trailer weights (2.0 t).

Overdamping occurs in the lower weight range. The effect is jumping and staggering of the trailer. Under damping occurs in the upper weight range. The result is a missing improvement in driving safety.

AL-KO Octagon Shock Absorbers are designed for a specific weight range (see curve C)

and thus improves the trailer driving characteristics.



Colour	Single axle	Tandem axle
green	900 kg	1 600 kg
blue	1 350 kg	2 700 kg
red	1 900 kg	3 500 kg
black	4 000 kg	7 500 kg

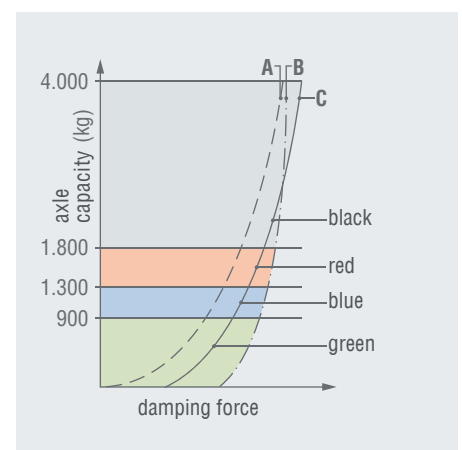
The different weight ranges are identified with a coloured outer sleeve.



A Damping curve AL-KO Hexagonal rubber suspension axle

B Damping curve of other dampers

C Optional curve of AL-KO Octagon damper



Optimum Damping

Feared by every driver of car and trailer combinations:

The trailer body swaying on uneven roads. AL-KO Octagon shock absorbers immediately reduce hazards.

This means:

- | More driving stability
- | More braking stability
- | Optimum ground contact

Simple fitment

| The rubber joint eye enables a low wear, tension free fitting to positions up to 5° inclined positions.

| Contrary to conventional axle shock absorbers, the fixing bolts for the AL-KO shock absorbers are an integrated into the damper eye. The fixing nuts are also included as standard.

Long Life

| An overloaded protection device prevents over stressing of the material

| AL-KO only uses quality seals

| The valve is made from chromium-plated stainless steel

| The surface finish on the piston rod is only 0.1 Ra

| Dust protection between the external and internal tube

| AL-KO only uses special oil



Axle Damper – Universal COMPACT

Easier fitting

The rubber cushioned connection eyes enable a low wear, tension free inclined setting of up to 5°. Contrary to conventional axle shock absorbers, the fixing bolts for the AL-KO shock absorbers are integrated into the connection eyes. The fixing nuts are also included as standard.



The cost effective
AL-KO Universal
Axle Damper

Colour	Single axle	Tandem axle
black	to 1 500 kg	to 3 000 kg

Axle damper

Fitting

AL-KO axle shock absorbers can be used for almost all trailer axles. The table on page 148 informs you which fitting criteria are to be followed.

Fastening on the swing-arm for AL-KO axles.

There are three fastening possibilities for the shock absorber mount on the axle swing-arm:

1. Shock absorber mount screw-in

In the case of certain forged rocker arms the mount holes are provided. These enable a shock absorber mount to be fitted mechanically (see table).

2. Shock absorber mount plug-in

Hollow swing-arms are provided with rectangular slots which makes it possible to easily retrofit the mounting bracket. The act of securing the shock absorber renders the mounting bracket rigid.

3. Shock absorber mount for welding in position

In the case of axles with forged swing-arms and all axles with a 5° swing-arm angle, shock absorber mounts are welded in place in accordance with special guidelines (see table).

Counter mounting on the trailer frame.

Fastening the shock absorber to the trailer frame must be carried out by the trailer manufacturer. Dependent on the fitting situation, mounting brackets may be sourced from AL-KO (see table).

Surface Treatment

| Axle damper epoxy coating (powder coated)

Contents

| Axle damper

per axle please order:
2-off shock absorber loose incl. screw material (details see table below).

| Shock absorber mounting brackets for AL-KO axle swing-arms

per axle please order:
2-off shock absorber loose incl. screw material (details see table below).

| Mounting brackets for trailer

per axle please order:
2 off shock absorber mounting brackets (see table).



1 211 502



244 088



1 211 257
(2 pieces included)



208 631 02 02



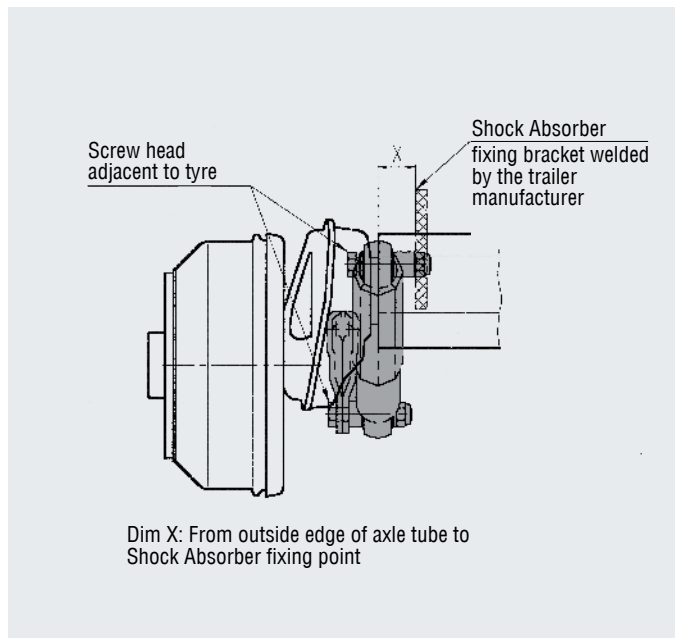
1 312 110

Range Overview

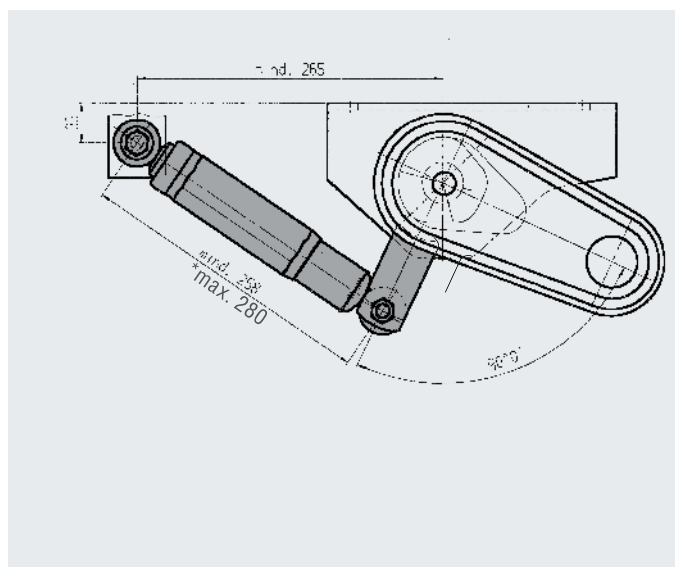
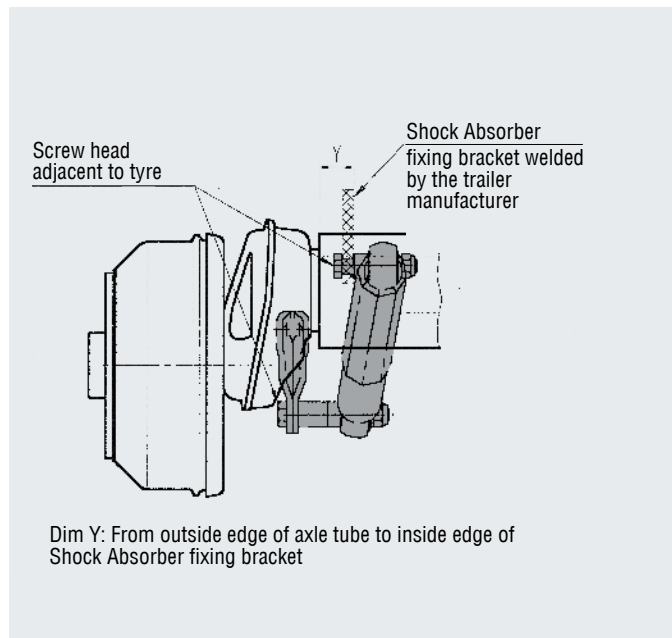
Shock absorber									
	Design Part No.	for AL-KO axles trailing link tilted shaft	Single axle up to	Twin axle up to	Colour	with joint connection eyes	with screw material		
	Octagon PLUS 244 084	Tailing link and tilted shaft	900 kg	1600 kg	green	yes	yes	1,3	350
	Octagon PLUS 244 085	Tailing link and tilted shaft	1350 kg	2700 kg	blue	yes	yes	1,3	350
	Octagon PLUS 244 086	Tailing link and tilted shaft	1900 kg	3500 kg	red	yes	yes	1,3	350
	Octagon COMPACT 244 087	Tailing link and tilted shaft	4000 kg	7500 kg	black	no	no	1,5	350
	Universal COMPACT 282 259	Tailing link	1500 kg	3000 kg	black	yes	yes	1,0	400

Recommended values for AL-KO Shock absorber fitting (only for swing arm settings 25° or 20°)

Shock absorber external fitting



Shock absorber internal fitting



Important:

Always fit the screw head on the tyre side!
Distance between screw head and tyre must be at least 16 mm! Failure to follow these instructions may lead to an accident!

Shock absorber mount for
 AL-KO axle shock absorber *25° swing arm only!

Range Overview

Shock Absorber mounting brackets for axle swing arms (with 25° / 20° angles) and steel-framed trailers							
Axle type	Possible swing-arm designs	Type of retrofitting (mounting bracket to swing-arm)	External fitting dimension X	Part No. External swing-arm mounting bracket	Internal fitting dimension Y	Part No. Internal swing-arm mounting bracket	Part No. Mounting bracket for weld to trailer
B 700	Solid swing-arm	Mechanical	20–50 mm	per Set = 2 pc 211 502 (straight)	–	–	per piece 1 312 110
B 850	Hollow swing-arm rectangular cut-out	Plug-in	40–70 mm	per piece 244 088 (straight)	0–50 mm	per Set = 2 pc 1 211 257 (with distance bushing)	per piece 1 312 110
B 1000 B 1200	Hollow swing-arm rectangular cut-out	Plug-in	40–70 mm	per piece 244 088 (straight)	0–50 mm	per Set = 2 pc 1 211 257 (with distance bushing)	per piece 1 312 110
B 1600	Hollow swing-arm rectangular cut-out	Plug-in	40–70 mm	per piece 244 088 (straight)	0–50 mm	per Set = 2 pc 1 211 257 (with distance bushing)	per piece 1 312 110
B 1000 B 1200	Solid swing-arm	Weld	50–80 mm	per piece 208 631 02 02 (straight)	20–60 mm	per piece 228 468 02 02 (cranked)	per piece 1 312 110
B 1600 B 1800	Solid swing-arm	Weld	50–80 mm	per piece 208 631 02 02 (straight)	20–60 mm	per piece 228 468 02 02 (cranked)	per piece 1 312 110
B 2500	Solid swing-arm	Weld	40–70 mm	per piece 208 631 02 02 (straight)	10–50 mm	per piece 228 468 02 02 (cranked)	per piece 1 312 110

Wheel brake range (Auto reverse)

Mechanical brakes for trailers over 25 km/h

Technology

All AL-KO wheel brakes are EC-tested (official characteristic value) and can be connected with the suitable AL-KO overrun devices.

The wheel brakes specified in the table are designed especially for use with AL-KO overrun devices. The AL-KO wheel brakes comply with the EC-Directive 71/320/EEC and the requirements as per 2002/78/EC. Please note that in the case of other combinations the function must be checked by means. Please contact AL-KO under such circumstances, of a calculation.

Wheel brakes are fitted in the direction of rotation (see arrow in technical drawing).

The brake linings are asbestos free.



Range Overview

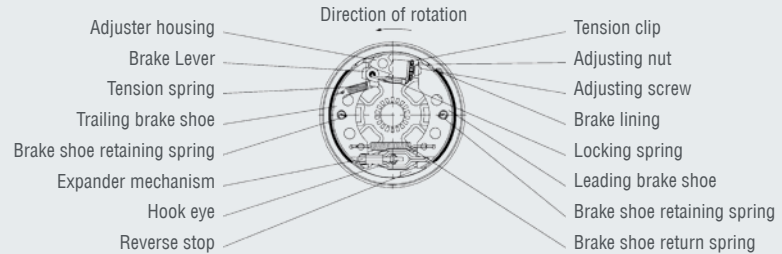
Type	Model	Permitted braking load per wheel brake kg	EC Test Report No.	Possible wheel connections	Offset depth mm
1636 G	a	375	361-054-92	1, 2, 3, 4, 11, 12	27 – 45
1636 G	b	375	361-054-92	1, 2, 3, 4, 11, 12	0
1637	a	500	361-060-86	1, 2, 3, 11	27 – 45
1637	b	500	361-060-86	1, 2, 3, 11	0
2051	Aa	650	361-056-86	1, 2, 3, 4, 5, 6, 7, 8, 11	26 – 40
2051	Ab	750	361-056-86	2, 7, 8, 9	26 – 30
2051	Ac	650	361-056-86	1, 2, 3, 4, 5, 6, 7, 8, 11	0
2051	Ad	750	361-056-86	2	0
2361		900	361-057-86	2, 4, 6, 7, 8, 9	20 – 30
3062		1500	361-0380-01	10	0 – -5
3081	A	1250	361-058-86	10	0 – -5
3081	B	2000	361-058-86	10	0 – -5
*2361 AR		900	361-086-93	2	30
*3062 AR		1500	361-0379-01	10	0 – -5
*3081 AR	A	1250	361-055-91	10	0 – -5
*3081 AR	B	2000	361-055-91	10	0 – -5

* For Compressed Air Braked trailers

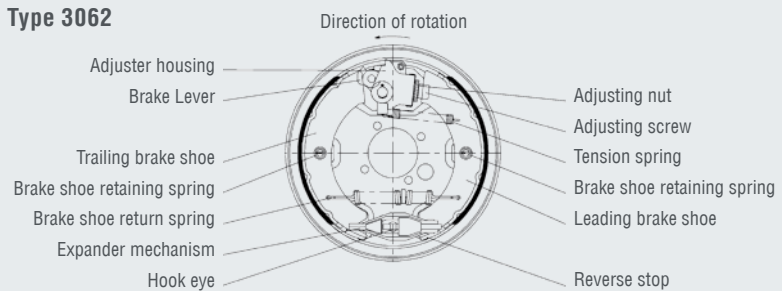
Possible Wheel Connections (PCD)

1	100 x 4
2	112 x 5
3	98 x 4
4	130 x 4
5	108 x 4/5
6	120 x 5
7	130 x 5
8	140 x 5
9	139,7 x 4
10	205 x 6
11	101,6 x 4
12	115 x 4

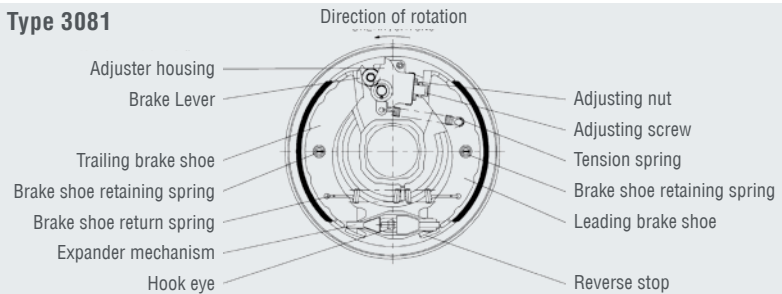
Types 1636G, 1637, 2051, 2361



Type 3062



Type 3081



Technical data for the wheel brakes

External transmissions	Path transmission	Brake application stroke	Parameter	Application force	Correct tyres-Ø (m)	Max. permitted braking moment
ia	ig	SB	kB (m)	(N) Po	D _{min} / D _{max}	(Nm)
3,80	15,85	1,520	0,540	-70	0,260 - 0,300	750
3,80	15,85	1,520	0,520	-50	0,210 - 0,255	750
4,00	15,85	1,520	0,530	-80	0,260 - 0,303	1150
4,00	15,85	1,520	0,480	20	0,210 - 0,259	1100
4,00	15,55	1,600	0,839	20	0,270 - 0,321	1460
4,00	15,55	1,600	0,720	0	0,280 - 0,321	1700
4,00	15,55	1,600	0,824	15	0,210 - 0,269	1300
4,00	15,55	1,600	0,746	20	0,215 - 0,280	1460
4,00	16,40	1,660	0,800	0	0,253 - 0,360	2200
4,00	17,44	1,800	0,966	25	0,310 - 0,389	4200
4,00	17,44	1,800	0,936	135	0,310 - 0,400	3500
4,00	17,44	1,800	1,165	54	0,360 - 0,400	6700
4,00	16,40	1,660			0,253 - 0,321	
3,62	15,80	1,800			0,389 examined	
4,00	17,44	1,800			0,371 examined	
4,00	17,44	1,800			0,371 examined	

Profi Longlife Bowden Cables

for wheel brakes 3062 / 3081 / 1636 G / 1637 / 2051 / 2361

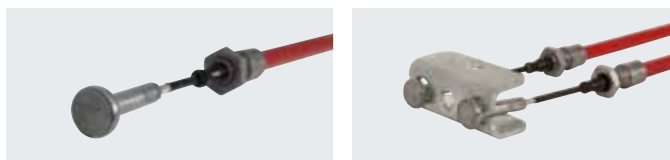
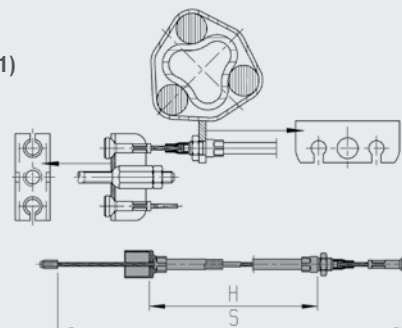


✔ Your Advantage

Perfect protection

- ▮ The metal-reinforced inner coil is protected by a **plastic coating of PA12** (Polyamid 12). This basic material is considered extremely resistant against saltwater and other environmental influence. Even at offshore oil pipelines this material is used as protective shell.
- ▮ The end fitting of this new Bowden cable additionally is **zinc-nickel coated** for maximum corrosion protection.
- ▮ The transition between the coated steel cable and the outer mantle is a custom **fitted elastomer nozzle**. This solution effectively hinders water, salt or other fluids from entering into the bowdencable.

Quick assembly (1636G, 1637, 2051, 2361)



Up to 5 % improved degree of efficiency

- ▮ The PA12-coated steel wire runs in a PVC-wire also. This means that the surface slip is optimized up to a margin of 5 % over the complete temperature range.

Range overview – version Profi Longlife

Quick assembly 1636G, 1637, 2051, 2361				
Mount mm	without fixing material	Sheath H mm	Cable S mm	
Dim. C from to				
Single				
bis 940	247 281	350	546	20
940 – 1260	247 282	530	726	20
1260 – 1680	247 283	770	966	20
1680 – 1880	247 284	890	1086	20
1880 – 2100	247 285	1020	1216	20
2100 – 2340	247 286	1130	1326	20
Tandem axle front				
bis 1110	247 281	350	546	20
1110 – 1430	247 282	530	726	20
1430 – 1850	247 283	770	966	20
1850 – 2050	247 284	890	1086	20
2050 – 2270	247 285	1020	1216	20
2270 – 2510	247 286	1130	1326	20
Tandem axle rear centre-to-centre up to 700 mm				
bis 1620	247 286	1130	1326	20
1620 – 2020	247 287	1320	1516	20
2020 – 2360	247 288	1430	1626	20
2360 – 2720	247 289	1620	1816	20
2720 – X	247 290	1790	1986	20

Normal fitting 3062, 3081				
Mount mm	with fixing material	without fixing material	Sheath H mm	Cable S mm
Dim. C from to				
Single				
bis 1310	246 489	241 106	500	760
1310 – 1710	246 490	241 107	800	1060
1710 – 1910	246 491	241 108	900	1160
1910 – 2110	246 492	241 109	1000	1260
2110 – 2310	246 493	241 110	1100	1360
2310 – 2610	246 494	241 111	1300	1560
2610 – 2810	246 495	241 112	1400	1660
Tandem axle front				
bis 1470	246 489	241 106	500	760
1470 – 1870	246 490	241 107	800	1060
1870 – 2070	246 491	241 108	900	1160
2070 – 2270	246 492	241 109	1000	1260
2270 – 2470	246 493	241 110	1100	1360
2470 – 2770	246 494	241 111	1300	1560
2770 – 2970	246 495	241 112	1400	1660
Tandem axle rear centre-to-centre up to 700 mm				
bis 1470	246 493	241 110	1100	1360
1470 – 1910	246 494	241 111	1300	1560
1910 – 2110	246 495	241 112	1400	1660
2110 – 2810	246 496	241 113	1600	1860

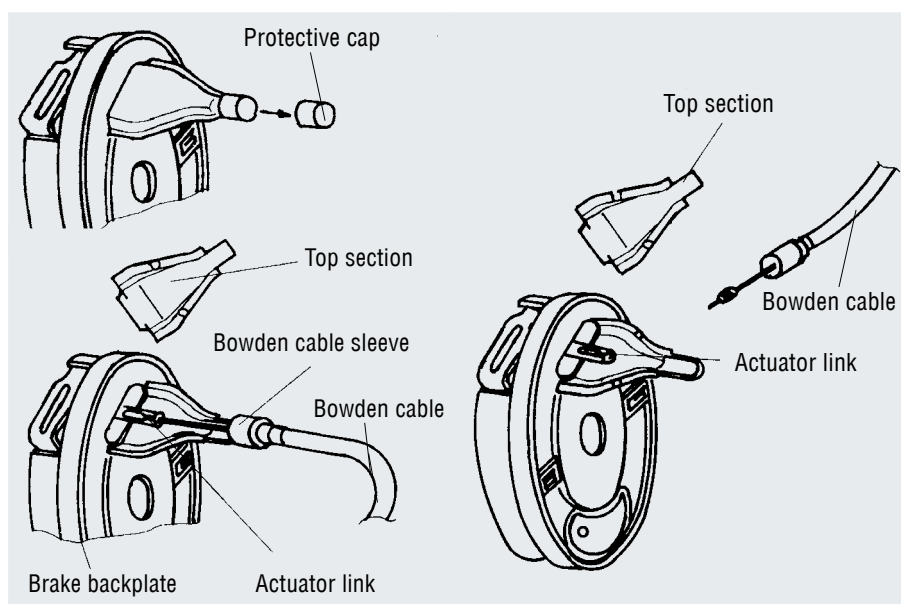
Bowden Cable – Assembly Instructions

AL-KO

QUALITY FOR LIFE

Inserting the Bowden Cables into the wheel brake (1636 G, 1637, 2051, 2361, 3062, 3081)

1. Remove protective cap.
2. Remove the Bowden cable top section
3. Insert the bowden cable into the actuator link. For wheel brakes 1636 G / 1637 / 2051 / 2361 from the side, for wheel brakes 3062/3081 from the top.
4. Insert top section into brake back plate.
5. Push the Bowden cable sleeve over the top and tighten Bowden cable.



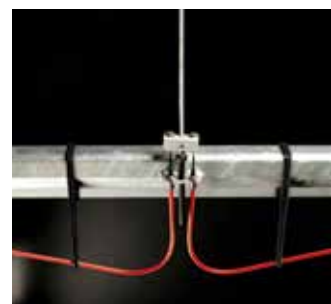
Insert bowden cable into the housing



Adjusting the wheel brakes



Quick and easy assembling safes time and money.



AL-KO bowdencable hangers protect the cables from entering of humidity and freezing.

Wheel brake 1636 G, 1637, 2051, 2361

	Normal fitting	Quick fitting
Bowden cable nut M14 x 1,5	702 203	702 203
Ball nut M10	208 889 00 05	not applicable
Hex. nut M8	700 108	not applicable

Wheel brake 3062, 3081

	Normal fitting	Quick fitting
Bowden cable nut M14 x 1,5	701 459	not inc. with delivery
Ball nut M10	207 485 05 03	not inc. with delivery
Hex. nut M10	700 109	not inc. with delivery

Surface Treatment

- Sleeve PVC- wrapped
- Galvanised connecting parts

Contents

Option of supply with or without fixing material. No fixings are required for the quick fit Bowden cables.

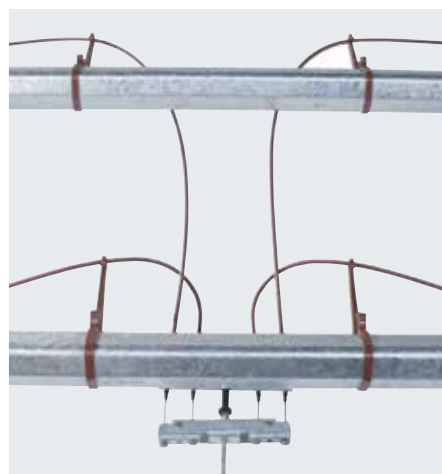
Range Overview

Description	1636 G, 1637, 2051, 2361	3062, 3081
Protective cap	371 389	582 077
Top section	371 387	372 890
Actuator link	371 388	372 891








Bowden Cable Hangers

✓ Your Advantage

- | Liquid entry can easily escape.
- | Freezing cables are avoided.
- | The function of the braking system is maintained when PROFI longlife Bowden cable hangers are used.



Range Overview

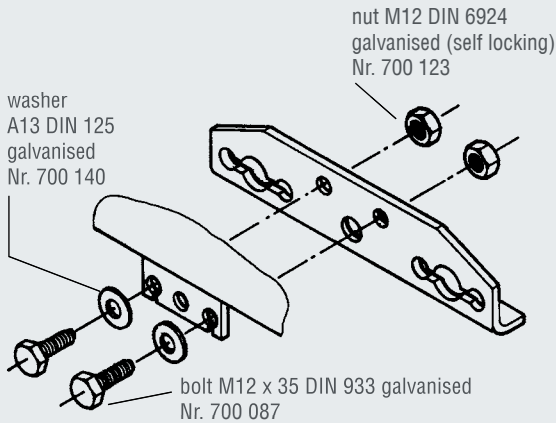
Part No. pcs	Part No. 10 pcs packed	für Achsen	Suspension	Axle profile Ø mm	Model & year of manufacture	Colour		
–	1 222 503	AL-KO	Hexagon rubber suspension	97 mm 	Compact up to 1994 model year Plus up to 1998 model year	black	0,6	10
691 853	1 222 113	AL-KO	Hexagon rubber suspension	97 mm 	Compact from 1995 model year Plus from 1999 model year	black	0,6	100/10
692 045	1 222 114	AL-KO	Hexagon rubber suspension	80 mm 	Compact from 1995 model year Plus from 1999 model year	black	0,6	100/10
692 047	1 222 115	AL-KO	Hexagon rubber suspension	110 mm 	Plus from 1999 model year	black	0,6	100/10
691 892	1 222 116	Other	Square tube	80 mm 		black	0,6	100/10

Tandem Adapter Bracket



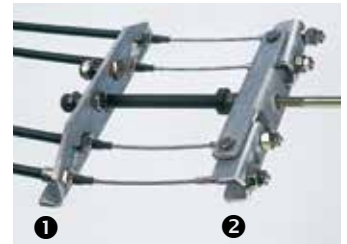
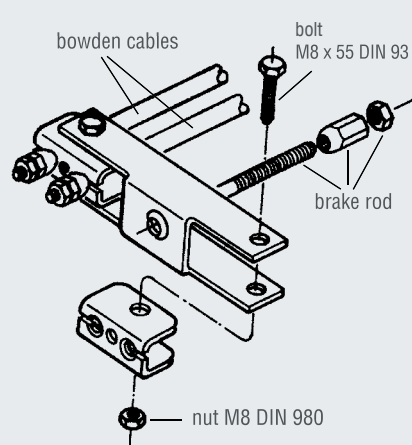
QUALITY FOR LIFE

A previously supplied single axle can be converted to a tandem axle by using the Tandem Adapter Bracket Part No. 249236



Tandem balancer bar

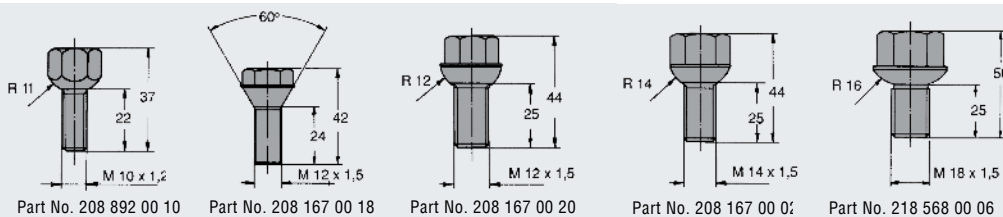
No. 238 576
up to 3500 kg, hot dip galvanised



1 Tandem Adapter Bracket
Part No. 249 236

2 Tandem Balance Bracket
Part No. 238 576

Wheel bolts / nuts



Range Overview

	Part No.	Type Wheel nut	Thread Ø in mm	Pitch at a rotation in mm	Wrench size	Torque setting when used with steel rims in Nm
	208 892 00 10	Spherical seat	M10	x 1,25	SW 17	52
	208 167 00 18	Conical seat	M12	x 1,5	SW 19	90
	208 167 00 20	Spherical seat	M12	x 1,5	SW 19	90
	208 167 00 02	Spherical seat	M14	x 1,5	SW 19	150
	218 568 00 06	Spherical seat	M18	x 1,5	SW 24	325
	701 202	Wheel nut	M18	x 1,5	SW 24	325

Technology

Wheel mounting: The dimensional compatibility of hubs and wheels, as well as the use of the correct fixings at the prescribed torque settings is decisive for operational reliability.

It is vital that you conform with the axle data, i.e. wheel connection and offset depth, as well as the wheel seating data from your wheel rim and tyre supplier.

Contents

see technical drawing

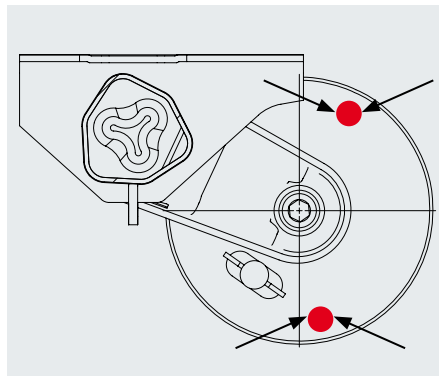
Surface Treatment

Galvanised

Wheel brake flushing system for Boat trailers

✓ Your Advantage

The AL-KO wheel brake flushing system for boat trailers is used to remove salt deposits, that can cause long term corrosion and failure of the wheel brake components. Using the hose connector, fresh water can be flushed around the interior of the wheel brakes immediately after the trailer has been immersed, to remove the salt.



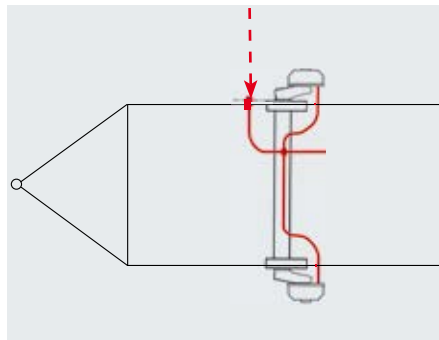
🔧 OEM Equipment

Suitable for AL-KO wheel brake models 1637/2051/2361/3062.



AL-KO will provide the backing plate with a relevant threaded drill hole for the threaded joint.

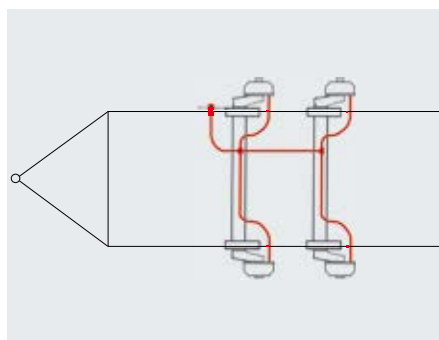
🔧 Operation

Connect the fresh water hose on to the coupling piece and flush with fresh water for approx. 5 minutes.





Range Overview

Single axle wheel brake flushing system	
Part No.	1 362 447
Can be used for AL-KO Wheel brakes	1637/2051/ 2361/3062
	0,9 kg
	unit 10 off



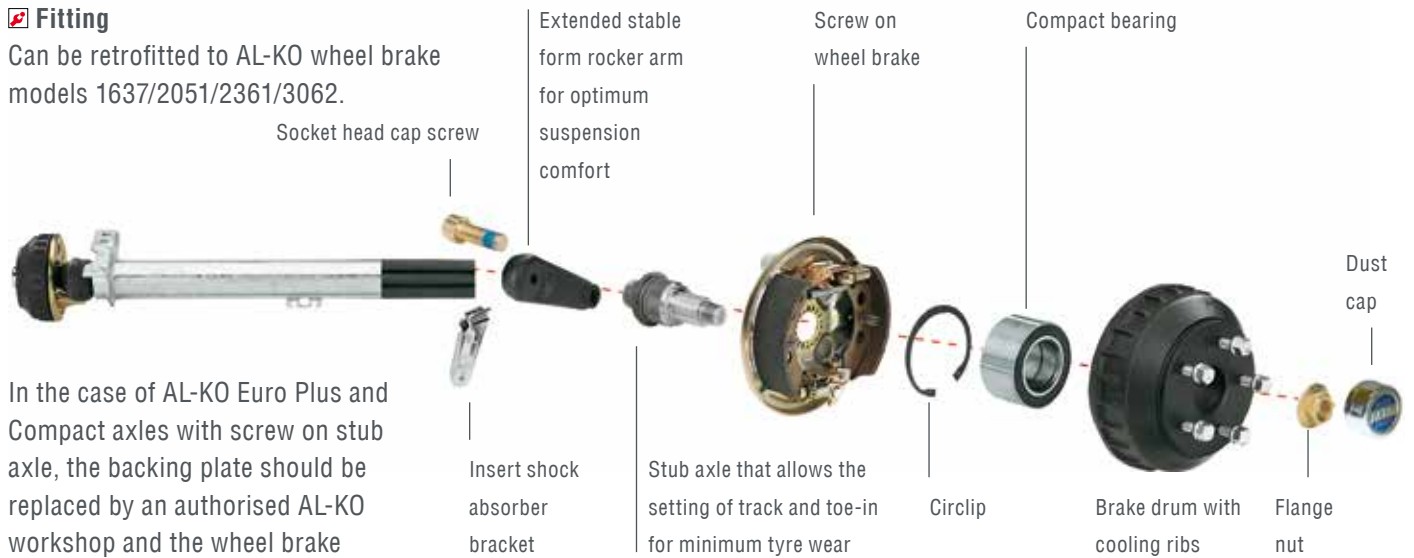
Range Overview

Tandem axle wheel brake flushing system	
Part No.	1 362 448
Can be used for AL-KO Wheel brakes	1637/2051/ 2361/3062
	1,0 kg
	unit 10 off


Fitting


Can be retrofitted to AL-KO wheel brake models 1637/2051/2361/3062.


In the case of AL-KO Euro Plus and Compact axes with screw on stub axle, the backing plate should be replaced by an authorised AL-KO workshop and the wheel brake flushing system can be retrofitted.




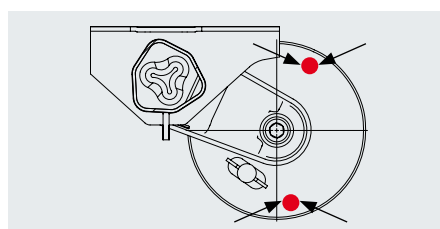
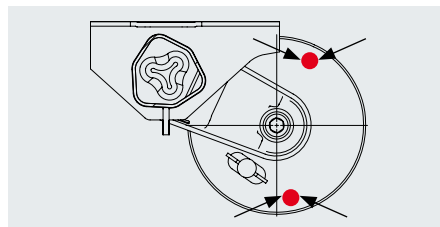
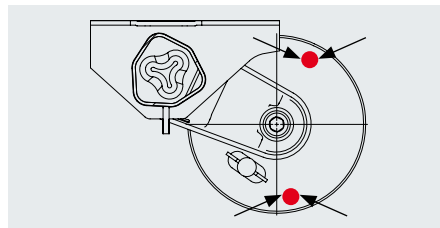
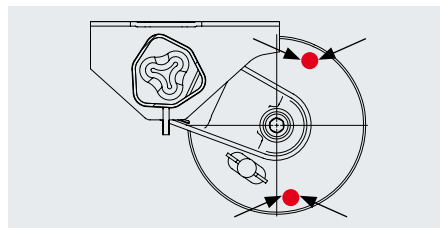
Range Overview

Brake back plate size 1637	
Part No.	1 224 142
 kg	4,1 kg

Brake back plate size 2051	
Part No.	1 224 143
 kg	5,9 kg

Brake back plate size 2361	
Part No.	1 224 144
 kg	8,1 kg

Brake back plate size 3062	
Part No.	1 224 145
 kg	15,8 kg



Couplings AK 7 PLUS

for unbraked trailers from 750 kg

Powerful connection

Your personal safety is our mission and important to us. Therefore the AK 7 PLUS complies with any quality requirements that a coupling for unbraked trailers 750 kg can ask for.

Place your trust in AL-KO and its components proven Quality - engineered in Germany!



Simple and safe – operation of coupling AK 7 PLUS



Opened coupling

The handle of the coupling points slantwise up and shows to the user by a red marking: I'm not yet closed!



Closed coupling

The towball of the towing vehicle is covered by the couplings calotte completely. The handle engages visible and hearable in horizontal position. The user can see: Connection between trailer and towing vehicle is perfect now!

Foolproof maintenance



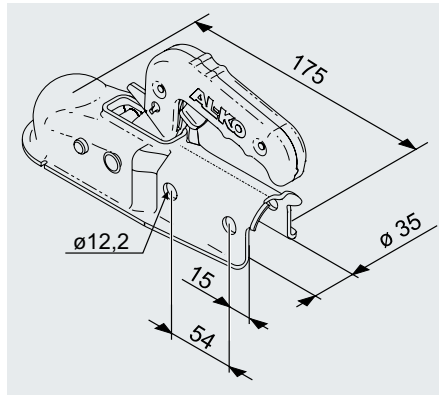
Wear limit not yet reached

If the red sign at the bottom of the handle is visible you are sure that the wear limit is not yet reached.

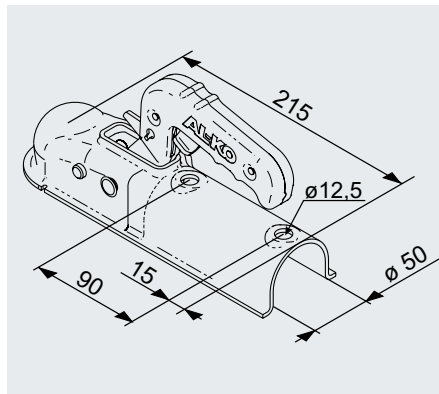


Wear limit exceeded

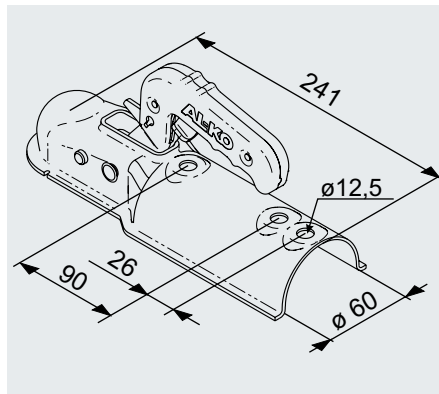
The red sign at the bottom of the handle is no more visible. This means the wear limit is exceeded and immediate maintenance of the coupling must be done at your local AL-KO partner.



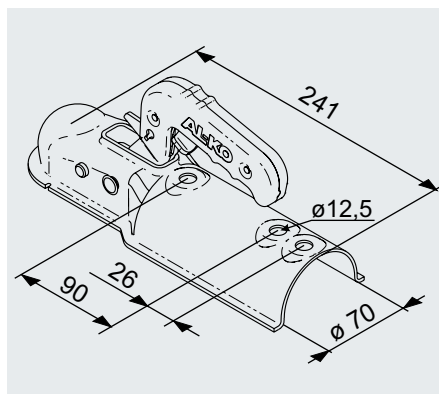
Coupling AK 7 PLUS – 35 round Version A	
Part No.	1 367 022
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
EC-Test No.	00-0164
Bolt torque setting	86 Nm
Weight	1,3 kg
	- 400 pcs



Coupling AK 7 PLUS – 50 round Version F	
Part No.	1 367 023
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
EC-Test No.	00-0164
Bolt torque setting	86 Nm
Weight	1,3 kg
	- 400 pcs



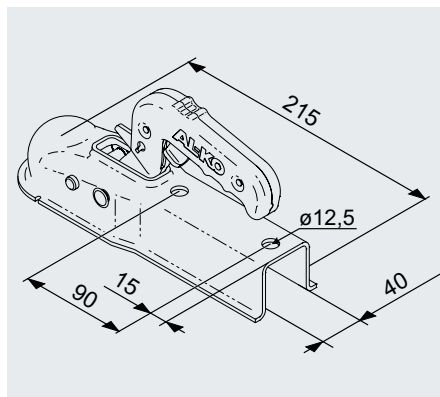
Coupling AK 7 PLUS – 60 round Version B	
Part No.	1 367 024
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
EC-Test No.	00-0164
Bolt torque setting	86 Nm
Weight	1,3 kg
	- 400 pcs



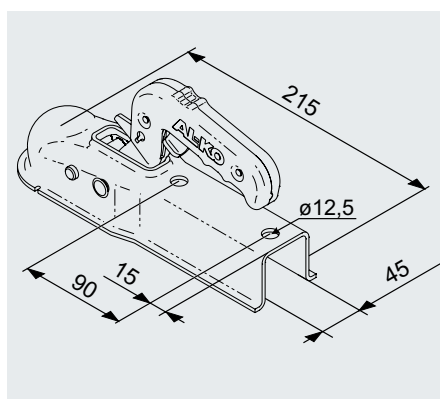
Coupling AK 7 PLUS – 70 round Version C	
Part No.	1 367 025
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
EC-Test No.	00-0164
Bolt torque setting	86 Nm
Weight	1,3 kg
	- 400 pcs

Couplings AK 7 PLUS

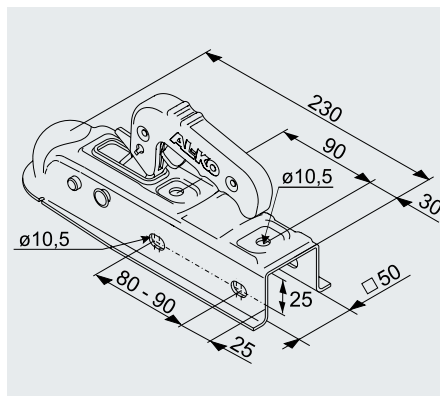
for unbraked trailers from 750 kg



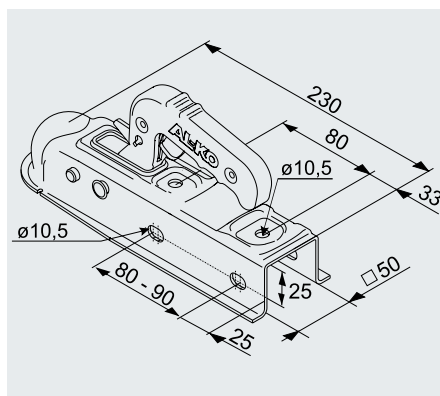
Coupling AK 7 V PLUS – 40 square Version I	
Part No.	1 367 026
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
EC-Test No.	00-0232
Bolt torque setting	86 Nm
Weight	1,3 kg
	- 400 pcs



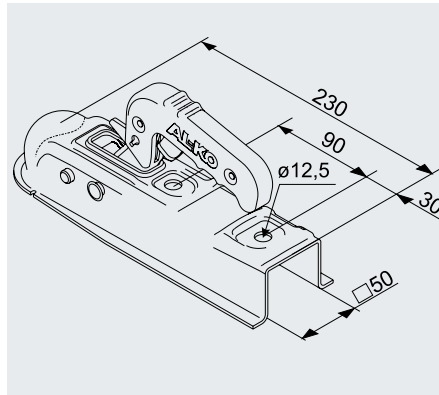
Coupling AK 7 V PLUS – 45 square Version G	
Part No.	1 367 027
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
EC-Test No.	00-0232
Bolt torque setting	86 Nm
Weight	1,3 kg
	- 400 pcs



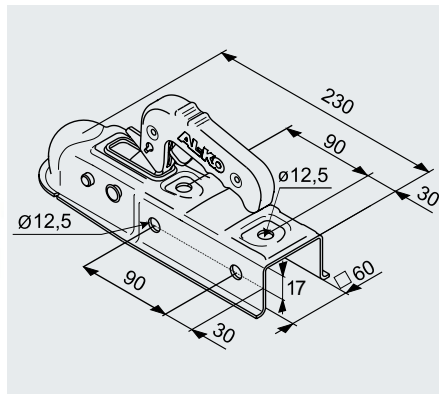
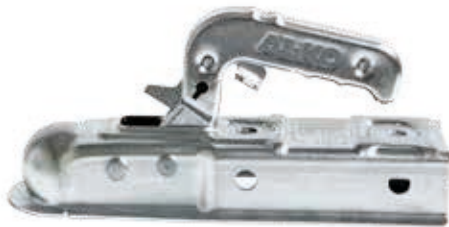
Coupling AK 7 V PLUS – 50 square Version D	
Part No.	1 224 339
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
EC-Test No.	00-0232
Bolt torque setting	49 Nm
Weight	1,3 kg
	- 400 pcs



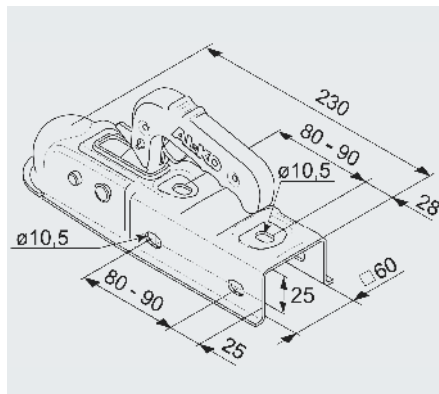
Coupling AK 7 V PLUS – 50 square Version D	
Part No.	1 225 004
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
EC-Test No.	00-0232
Bolt torque setting	49 Nm
Weight	1,3 kg
	- 400 pcs



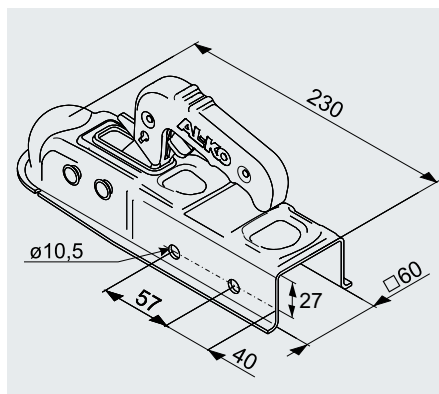
Coupling AK 7 V PLUS – 50 square Version D	
Part No.	1 224 334
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
EC-Test No.	00-0232
Bolt torque setting	86 Nm
Weight	1,3 kg
	- 400 pcs



Coupling AK 7 V PLUS – 60 square Version E	
Part No.	1 224 743
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
EC-Test No.	00-0232
Bolt torque setting	86 Nm
Weight	1,3 kg
	- 400 pcs



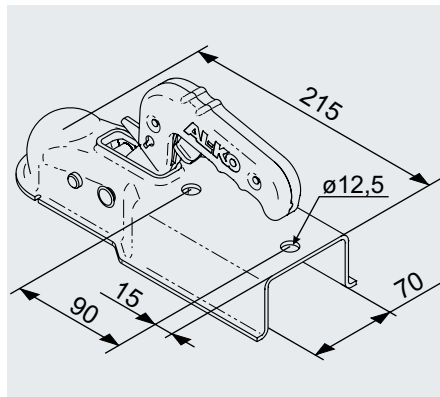
Coupling AK 7 V PLUS – 60 square Version E	
Part No.	1 224 343
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
EC-Test No.	00-0232
Bolt torque setting	49 Nm
Weight	1,3 kg
	- 400 pcs



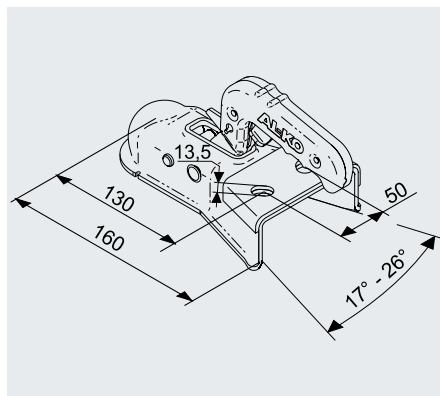
Coupling AK 7 V PLUS – 60 square Version E	
Part No.	1 224 342
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
EC-Test No.	00-0232
Bolt torque setting	49 Nm
Weight	1,3 kg
	- 400 pcs

Couplings AK 7 V PLUS

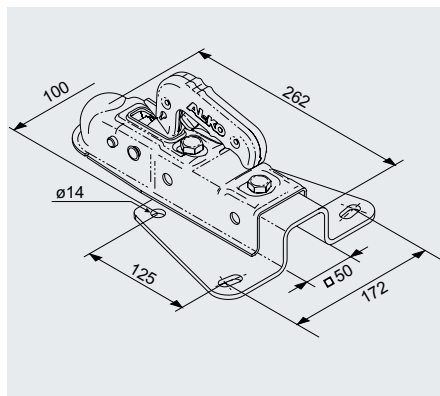
for unbraked trailers from 750 kg



Coupling AK 7 V PLUS – 70 square Version H	
Part No.	1 367 028
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
EC-Test No.	00-0232
Bolt torque setting	86 Nm
Weight	1,3 kg
	- 400 pcs



Coupling AK 750 PLUS Version A	
Part No.	1 367 021
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
EC-Test No.	00-0385
Bolt torque setting	86 Nm
Weight	1,3 kg
	- 300 pcs



Coupling AK 7 – V 75 PLUS Version A	
Part No.	202 602
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
EC-Test No.	00-0848
Bolt torque setting	86 Nm
Weight	3,0 kg
	- 100 pcs



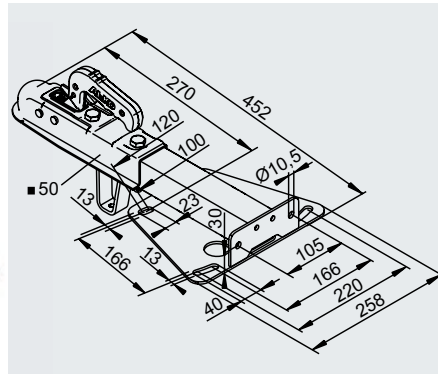
Soft-Dock	
Part No. pieces	693 552
fitting for coupling	Type AK 7 PLUS, new version only. Including fitting grooves
Material	rubber
Weight	0,07 kg

Towing device 75 VR

For unbraked trailers up to 750 kg

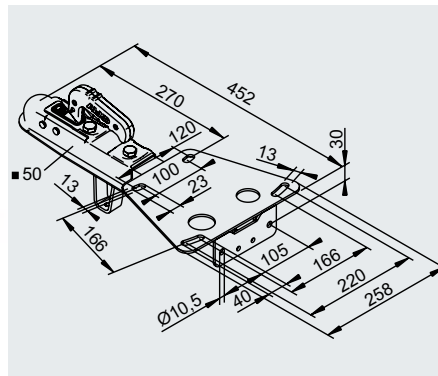
AL-KO

QUALITY FOR LIFE



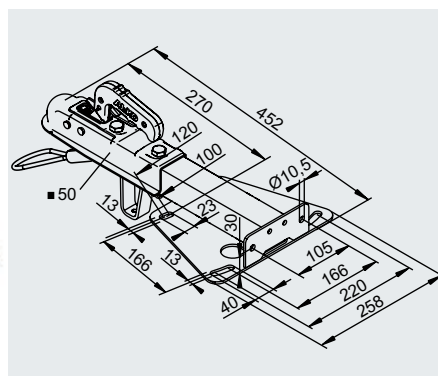
**Towing device 75 VR
with coupling AK 7 PLUS □ 50 –
top mounting without safety cable**

Part No.	1 225 712
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
ECE type approval	
Towing device	E1 55R-01 2358
Coupling	E1 55R-01 0232
Bolt torque setting	86 Nm
	5,1 kg
	- 40 pcs



**Towing device 75 VR
with coupling AK 7 PLUS □ 50 –
bottom mounting without safety cable**

Part No.	1 225 713
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
ECE type approval	
Towing device	E1 55R-01 2358
Coupling	E1 55R-01 0232
Bolt torque setting	86 Nm
	5,1 kg
	- 40 pcs

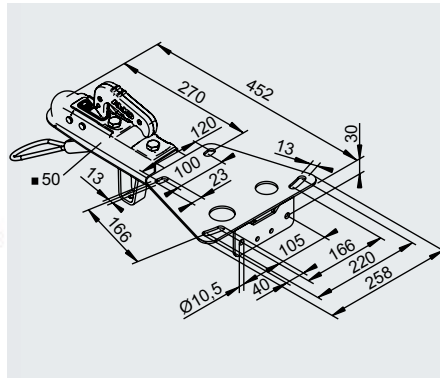


**Towing device 75 VR
with coupling AK 7 PLUS □ 50 –
top mounting plus safety cable**

Part No.	1 225 801
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
ECE type approval	
Towing device	E1 55R-01 2358
Coupling	E1 55R-01 0232
Bolt torque setting	86 Nm
	5,4 kg
	- 40 pcs

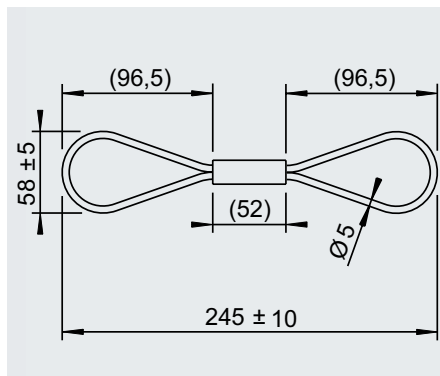
Towing device 75VR

For unbraked trailers up to 750 kg



Towing device 75 VR with coupling AK 7 PLUS □ 50 – bottom mounting plus safety cable

Part No.	1 225 723
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
ECE type approval	
Towing device	E1 55R-01 2358
Coupling	E1 55R-01 0232
Bolt torque setting	86 Nm
	5,4 kg
 	- 40 pcs



Safety cable

Part No.	1 236 099
Max. total weight	750 kg
Nose load	75 kg
Material	Steel
	0,3 kg
 	- 40 pcs

Couplings COMPACT for braked trailers

Technology

The safety advantage with our new generation of coupling heads!



Ergonomics

The handle complies with the latest directive and is very flat, so that the rear door can still be opened even on towing vehicles with a low loading edge.



Correctly coupled



Safety indicator

If the green indicator is visible when coupling up, then you know that the coupling is correctly connected to your tow vehicle.

Blocked ball cup



Double safety

When coupled and during travel, the coupling is held on the ball with double security by the safety mechanism.

Clear open position



Open setting for the handle

Should the coupling not be correctly positioned on the towball, the coupling handle will remain in an open position.

Wear in order



Wear indicator

An additional indicator on the coupling handle shows you whether the wear limit of:
- your towball or
- the coupling mechanism has been reached.

Contents

Couplings for unbraked trailers

! Loose without fixings or information for users.

Couplings for braked trailers

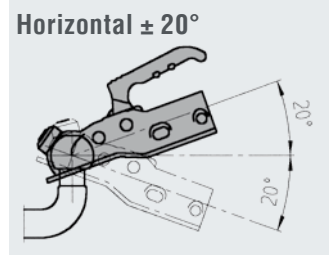
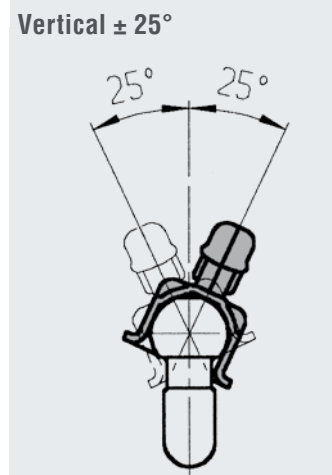
! Loose without fixings, but with information for users.

Surface Treatment

! Galvanised couplings

Permitted angle ranges

Note: components are overloaded when the degree of angle movements are exceeded; thus safe function cannot be guaranteed.



§ Assembly Approvals

All couplings are EC tested and therefore can be retro-fitted. The prerequisite for this is that the fitting position

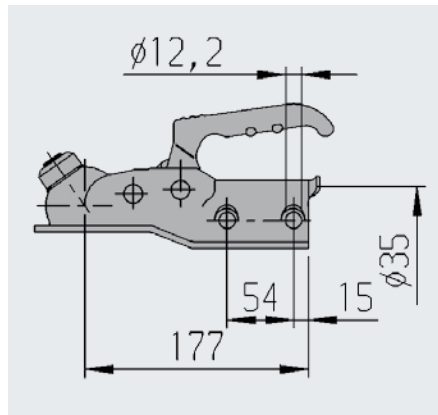
between the old and new coupling, together with the load bearing capacity agree with one another.



As a general rule, the coupling type is not stipulated in the vehicle log book, ie no entry is required for the new coupling.

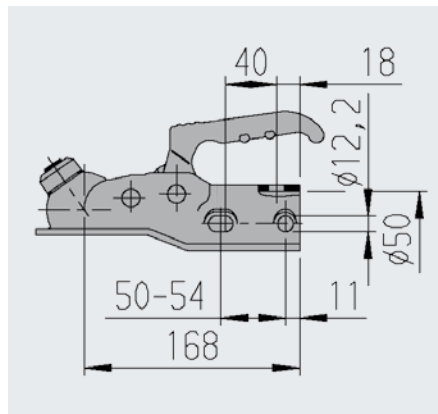
In some circumstances, the old coupling is documented - therefore fitment of a new one must be inspected (officially recognised expert) and entered into the documents.



Couplings and Accessories

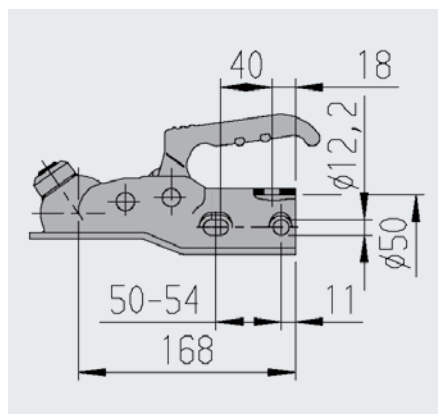
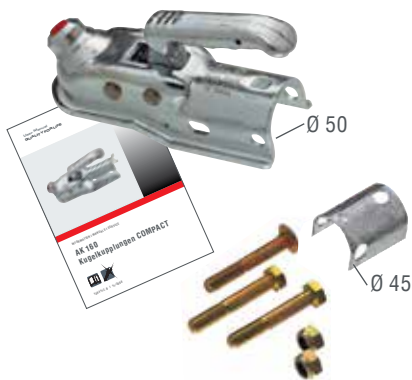
for braked trailers from 3500 kg over 25 km/h





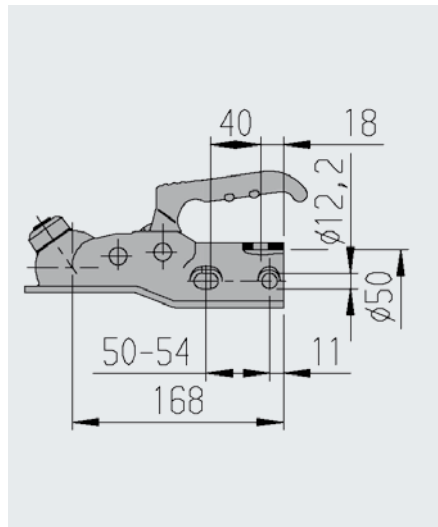
Coupling AK 160 Version A	
Part No.	267 311
Max. total weight	1.600 kg
Nose load	120 kg
Fixing holes	horizontal
Material	Steel
EC-Test No.	00-0159
Torque maximum	86 Nm
	1,4 kg
	300 pcs



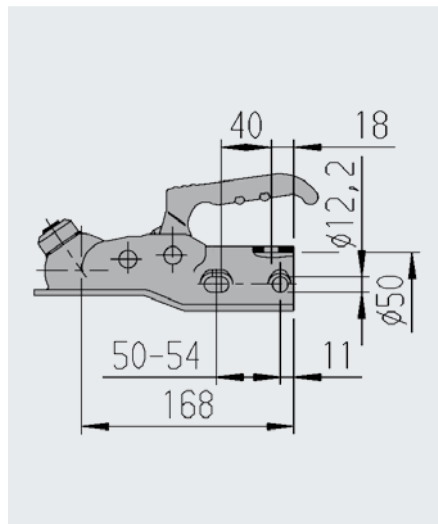
Coupling AK160 Version B	
Part No.	247 163
Max. total weight	1.600 kg
Nose load	120 kg
Fixing holes	horizontal + cross
Material	Steel
EC-Test No.	00-0159
Torque maximum	86 Nm
	1,6 kg
	250 pcs



Boxed AK 160 Version B	
Part No.	1 222 737
Max. total weight	1.600 kg
Nose load	120 kg
Fixing holes	horizontal + cross
Material	Steel
EC-Test No.	00-0159
Torque maximum	86 Nm
	1,7 kg
	125 pcs

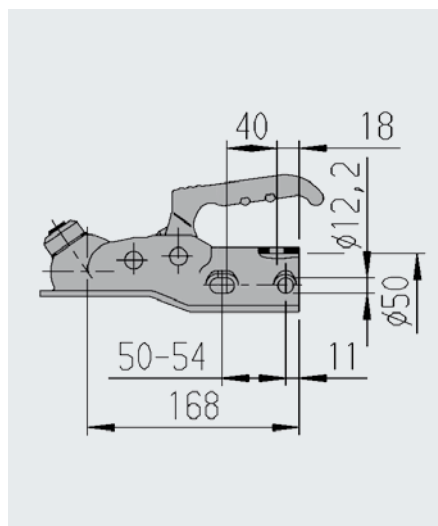


Coupling AK 300 Version A	
Part No.	267 312
Max. total weight horizontal	3.000 kg
Max. total weight cross	2.300 kg
Nose load	120 kg
Fixing holes	horizontal + cross
Material	Steel
EC-Test No.	00-0131
Torque maximum	86 Nm
	1,8 kg
	300 pcs



Boxed AK 300 Version A	
Part No.	246 960
Max. total weight horizontal	3.000 kg
Max. total weight cross	2.300 kg
Nose load	120 kg
Fixing holes	horizontal + cross
Material	Steel
EC-Test No.	00-0131
Torque maximum	86 Nm
	1,9 kg
	125 pcs

Contents:



Safety Kit AK 300	
Part No.	1 212 896
Max. total weight horizontal	3.000 kg
Max. total weight cross	2.300 kg
Nose load	120 kg
Fixing holes	horizontal + cross
Material	Steel
EC-Test No.	00-0131
Torque maximum	86 Nm
	3,65 kg
	50 pcs

Coupling PROFI

Safe function and practical accessories

Safety Coupling



Clear open position

The car trailer coupling has not yet released the locking lever. The hand lever is pointing straight upward and signals to the operator:

I haven't locked it yet!



Clear lock setting

The car trailer coupling has released the safety locking lever. Only now does the handle go into the horizontal position and signals to the user.

I've locked it!



Wear display

Gives information on the state of the trailer coupling as well as the car tow-ball.



Safety indicator

If the green indicator is visible when coupling up, then you know that the coupling is correctly connected to your tow vehicle.

More safety - more protection



Safety-Ball option

1. Simply insert the Safety-Ball in the coupling when uncoupling.
2. Then press the lock in. The Safety Ball can now no longer be taken out.

The trailer is secured against access by unauthorised persons!



Anti-theft devices option

When coupled or uncoupled, press lock in, ready. No complicated box locks that have to be stowed away.



Option Soft-Dock

(Ramming protection)
Protects your vehicle rear from damage.

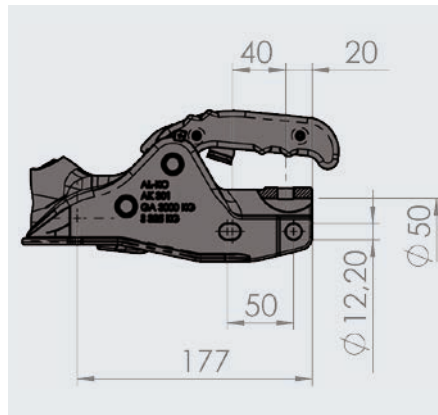
AL-KO Patent
DE 3915944 C 2

Cast Iron Coupling

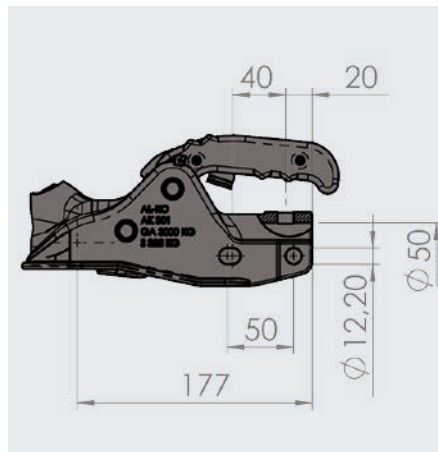
Components and accessories

AL-KO

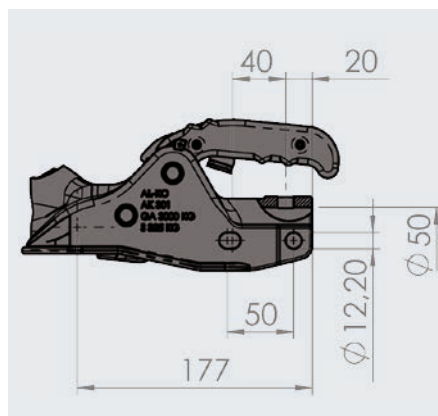
QUALITY FOR LIFE



Ball-type standard coupling Profi V AK 301	
Part No.	1 221 746
Max. total weight	3.000 kg
Nose load	325 kg
Fixing holes	horizontal + cross
Material	Cast Iron
EC-Test No.	e1 00-1594
Torque maximum	86 Nm
	2,85 kg
	200 pcs



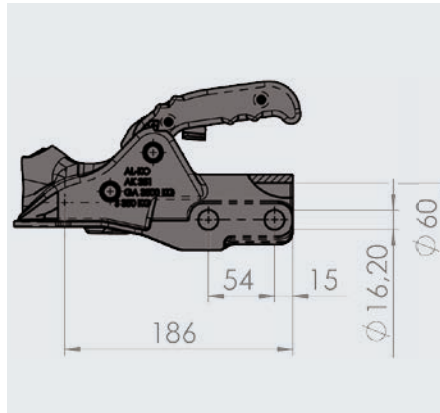
Ball-type standard coupling Profi V AK 301 with soft-dock	
Part No.	1 223 715
Max. total weight	3.000 kg
Nose load	325 kg
Fixing holes	horizontal + cross
Material	Cast Iron
EC-Test No.	e1 00-1594
Torque maximum	86 Nm
	3,25 kg
	125 pcs



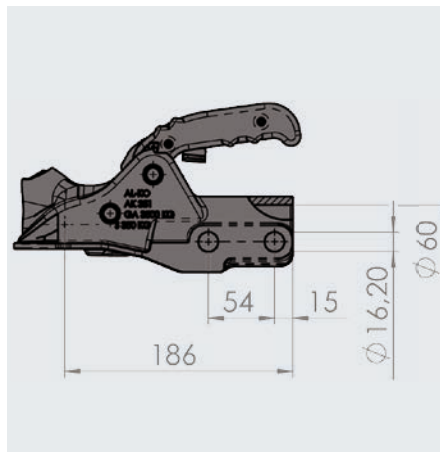
Safety Kit Profi V for AK 301	
Part No.	1 223 427
Max. total weight	3.000 kg
Nose load	325 kg
Fixing holes	horizontal + cross
Material	Cast Iron
EC-Test No.	e1 00-1594
Torque maximum	86 Nm
	3,45 kg
	125 pcs

Cast Iron Coupling

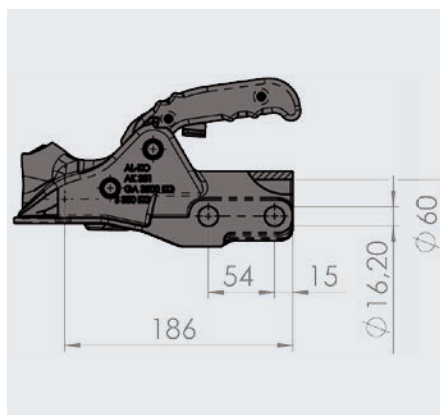
components and accessories



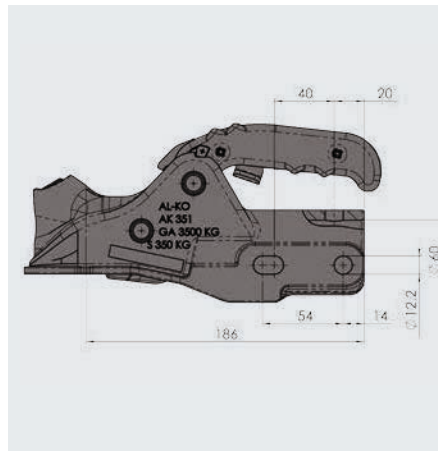
Ball-type standard coupling Profi V AK 351	
Part No.	1 222 636
Max. total weight	3.500 kg
Nose load	350 kg
Fixing Holes	horizontal
Material	Cast Iron
EC-Test No.	e1 00-1595
Torque maximum	210 Nm
	3,0 kg
	200 pcs



Ball-type standard coupling Profi V AK 351 with soft-dock	
Part No.	1 223 716
Max. total weight	3.500 kg
Nose load	350 kg
Fixing Holes	horizontal
Material	Cast Iron
EC-Test No.	e1 00-1595
Torque maximum	210 Nm
	3,4 kg
	125 pcs



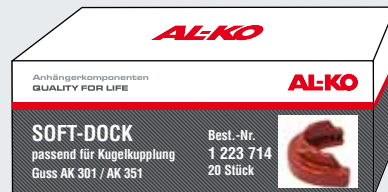
Safety Kit Profi V for AK 351	
Part No.	1 223 428
Max. total weight	3.500 kg
Nose load	350 kg
Fixing Holes	horizontal
Material	Cast Iron
EC-Test No.	e1 00-1595
Torque maximum	86 Nm
	3,6 kg
	125 pcs



Ball-type standard coupling Profi V AK 351-351 ZA	
Part No.	1 224 333
Max. total weight	3.500 kg
Nose load	350 kg
Fixing Holes	horizontal + cross
Material	Cast Iron
EC-Test No.	e1 00-1594
Torque maximum	86 Nm
	3 kg
	200 pcs



Packaging Unit
Soft-Dock



Soft-Dock suitable for cast iron balltype standard coupling	
Part No.	(691 937)
one pc	
Part No.	1 223 714
per 20 pcs	
Weight	1,4 kg
Packaging Unit	20 pcs



Packaging Unit
Closing cylinder with Safety-Ball



Closing cylinder with Safety Ball suitable for cast ball-type standard coupling Profi V Typ AK 301/AK 351	
Part No.	(1 222 692)
one pc	
Part No.	1 223 429
per 20 pcs	
Weight	3,8 kg
Packaging Unit	20 pcs

AKS 1300™ Stabiliser Coupling

✔ Your Advantage

| Movement

Any rolling or pitching movements of the trailer are effectively suppressed.

| Calm Driving

Relaxed and smooth driving increases safety.

| Speed

The AKS™ enables a higher theoretical maximum speed (but attention must be paid to the permissible speed limit). In addition the car and trailer combination can be controlled faster in an emergency situation. The AKS™ 1300 complies with ISO 11555-1 (100 km/h-speed limit).

| Function

By pushing the stabiliser handle, this presses two special friction pads onto the towball from the right and left. The contact pressure can be up to 300 Nm². Oscillations or pitching is effectively suppressed from the start.

| Operation

The coupling and stabilising handle are separate from one another and both can be operated using one hand.

Operation

Correct coupling procedure:



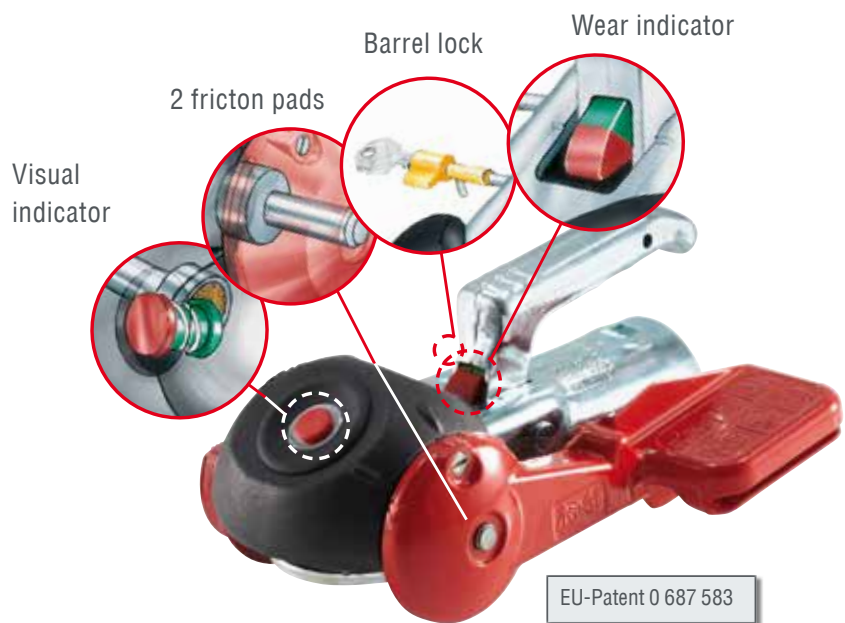
Using the coupling handle, put the AKS™ 1300 on to the towball. Push the silver handle down and check the green indicator button is visible.



Turn the handwheel in the direction of arrow until it starts to 'ratchet!'.



Press the red stabilising lever down. The AKS™ 1300 is now ready for the road.



EU-Patent 0 687 583

☑ Surface Treatment

| **Housing:** galvanised

| **Coupling handling:** galvanised

| **Stabiliser handle:** Aluminium, handle area red powder coated

| **Hand wheel:** red plastic

Assembly

First, remove the old coupling.

Take care that the overrun damper does not retract into the shaft.

Fit AKS™ 3004 with new fixings and any necessary compensating parts to the overrun - ensure that the damper is fitted correctly (see operating instructions for further details).

| Fitment approval

The fitting and assembly instructions are to be included with the trailer papers.

Country specific requirements (if applicable) are to be followed.

Inspection and Maintenance



| Open position

If the AKS™ 1300 has not yet been placed on the towball, the coupling handle remains open.



| Wear control Friction pads

In the open position you can inspect the friction pads constantly and obtain new pads from your AL-KO Service Centre.

If the distance (see green arrow) is greater than 0 mm, the friction pads are still adequate.



| Wear control Towball and coupling mechanism

Wear and tear of the towball and coupling mechanism can be continually monitored.

Couple the AKS™ 1300 to the towing vehicle but do not press down the stabilising handle. If the green indicator is now visible on the coupling handle, then the AKS™ 1300 and the towball are in order.



| Anti-theft device

The AKS™ 1300 can be retrofitted with a universal anti-theft device. Part No. 245737 (available separately).

This device gives protection against trailer being uncoupled or coupled and theft of the AKS.



| Safety Indicator

If the green indicator is visible then you know you have correctly coupled your AKS™ 1300 to your towing vehicle.

📦 Contents

1 box containing:

- | 1 AKS 1300
- | 1 Set fixing material
- | 1 Set compensating collars
- | 1 Operating Instructions

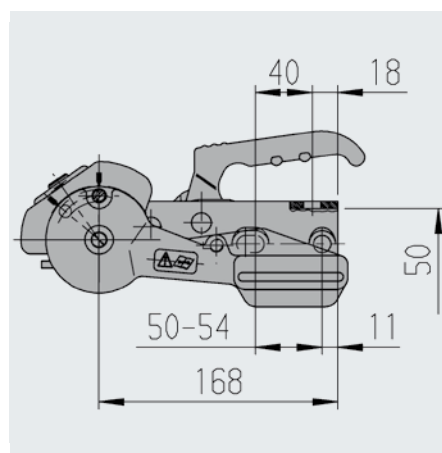
🔧 Fitting

Before fitting the AKS check if the prerequisites stated below are achievable.

Please note: The AKS should only be used on a clean, degreased towball, otherwise contamination of the friction pads could occur.



Can be fitted as standard equipment or retrofitted.



Range Overview

AKS™ 1300	
Part No.	1 225 288
Max. total weight	1.360 kg
Nose load	100 kg
Fixing Holes	horizontal + cross
Material	Steel
EC-Test No.	00-0030
Min. total weight	180 kg
Torque Maximum	86 Nm
	3,5 kg
	50 pcs

AKS™ 3004 / 3504 Stabiliser Coupling

200 kg – 3.500 kg

✓ Your Advantage

| Safe driving

Safe and relaxed driving with the AKS™.



Any snaking or pitching movements of the trailer are effectively suppressed by the stabiliser.

| Emergency situations

The car and trailer can be controlled faster using the AKS™.

Additionally the AKS enables a higher theoretical max. speed (but attention must be paid to the speed limit).

The AKS™ 3004 complies with ISO 11555-1 (100 km/h-speed limit).

| Function

Pushing the stabiliser handle down, presses four special friction pads onto the towball, from the right, left, rear and front. The contact pressure of the side pads can be up to 300 Nm². Oscillations or pitching are thus effectively suppressed from the start.

| Operation

The coupling and stabilising handle are separate from one another and both can be operated using one hand. Easier manoeuvring of the trailer can be achieved by opening the stabiliser handle.

Wear indicator for coupling mechanism and front/rear friction pads

Visual indicator

4 Friction pads

Integrated Soft-Dock

Integral brackets for Security Device



EU-Patent
EP 0 356 752 B1

Function and operation

Correct coupling procedure:



Place the AKS™ on the towball using the coupling handle (towball must be grease free and smooth). Push the coupling handle down.



Push the stabilising handle down. The AKS™ is now ready for the road.



reddot design award
honourable mention 2011

New AKS with improved design and even better ergonomics. Already the AKS was awarded with „reddot design award - honourable mention 2011” for its superior new design.

Can be fitted as standard equipment or retrofitted.

Inspection and Maintenance

| Safety indicator



If the green indicator is visible then you know you have correctly coupled your AKS™ 3004 to your towing vehicle.

| Wear control

Friction pads left/right



Friction pads are in good order.



Friction pads are worn out and need replacing.

| Wear control



Wear indicator for friction pads (front/rear) and coupling mechanism.

| Friction pad replacement



Remove the Soft-Dock and unscrew the two small screws using the torx tool provided.



Remove screw from back plate.



Remove friction pads and replace. For detailed instructions refer to AKS operating instructions.

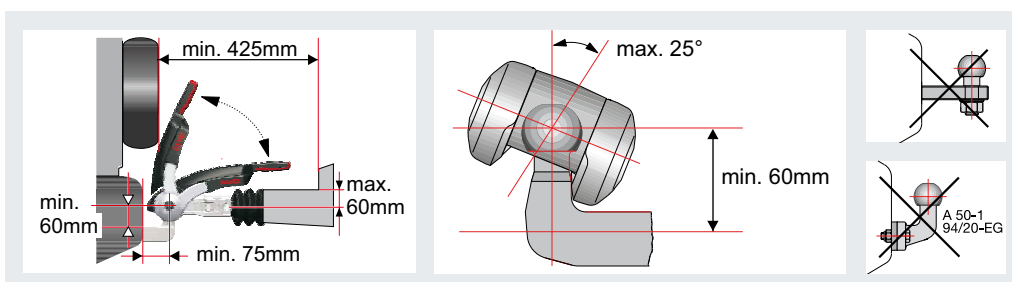
| Surface Treatment

Housing: Dacromet coated
Coupling handle: galvanised
Stabiliser handle: Aluminium and Dacromet coated, with black plastic operating handle
Soft-Dock: black rubber

| Fitting

Before fitting the AKS check if the prerequisites given below can be achieved.

Note: The AKS should only be used on clean, degreased towball, otherwise contamination of the friction pads could occur.

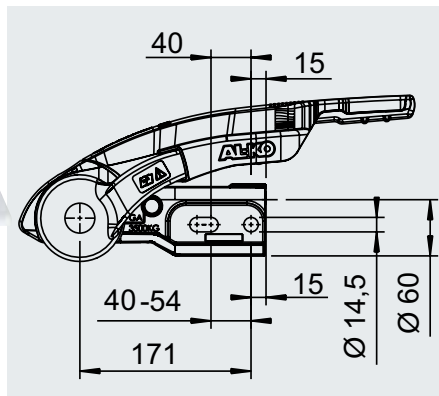
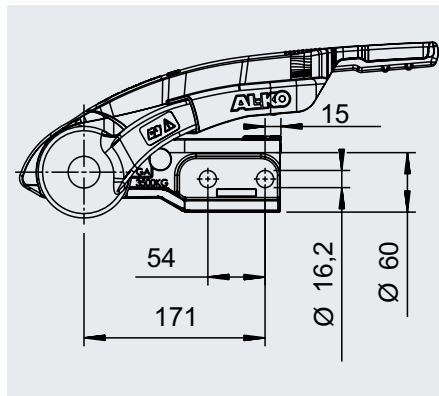
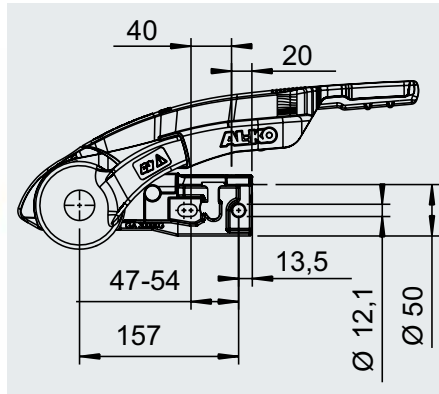


| Approval

The fitting and assembly instructions are to be included with the trailer papers. AKS™ in EC countries: Country specific requirements (if applicable) are to be followed.

AKS™ 3004 / 3504

Safety packages



Triple safety with an attractive price



Range Overview

AKS™ 3004	
Part No.	1 225 158
Max. total weight	3.000 kg
Nose load	150 kg
EC-Test No.	e1 00-1594
Min. total weight	200 kg
Torque Maximum strength category 8.8	M12 86 Nm
	4,2 kg
	22 pcs

AKS™ 3504	
Part No.	1 225 160
Max. total weight	3.500 kg
Nose load	350 kg
EC-Test No.	e1 00-1796
Min. total weight	200 kg
Torque Maximum strength category 8.8	M16 210 Nm
	4,9 kg
	22 pcs

AKS™ 3504 – cross drilling	
Part No.	1 225 226
Max. total weight	3.500 kg
Nose load	350 kg
EC-Test No.	e1 00-1796
Min. total weight	200 kg
Torque Maximum strength category 10,9	M14 190 Nm
	4,9 kg
	22 pcs

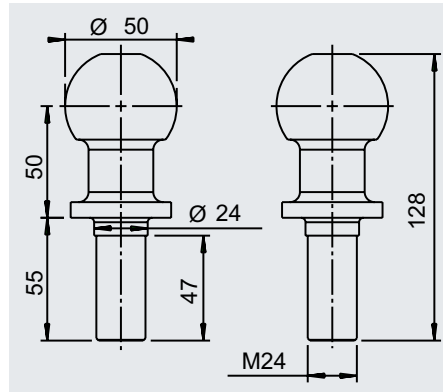
Safety Triple Pack AKS™ 3004	
Part No.	1 225 155
Max. total weight	3.000 kg
Nose load	150 kg
EC-Test No.	e1 00-1594
Min. total weight	200 kg
Torque Maximum strength category 8.8	M12 86 Nm
	5,4 kg
	22 pcs

Tow balls ISO Ø 50 mm

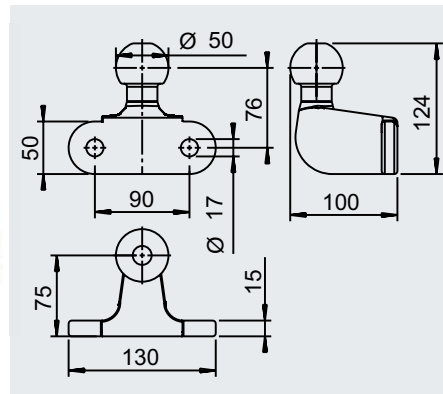


QUALITY FOR LIFE

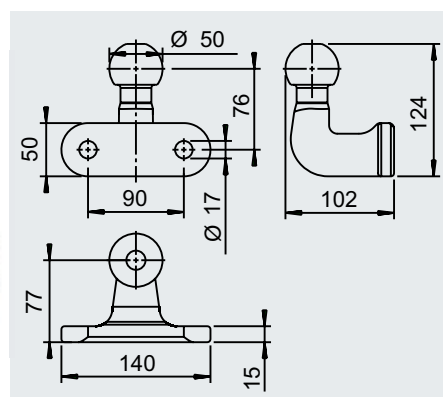
Range Overview



Tow ball Ø 50-35 CD4	
Part No.	1 275 100
Max. towed load	3.500 kg
Nose load	120 kg
EC-Test No.	e2*94/20 *1763*00
Sector of application	Tractors Caution: not suitable in connection with AL-KO AKS
	1,0 kg
	- - pcs



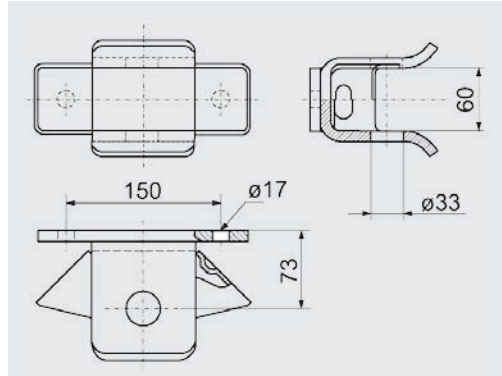
Tow ball 7148 2T17 EA 90	
Part No.	1 275 101
Max. towed load	2.000 kg
Nose load	120 kg
EC-Test No.	e2*94/20 *1763*00
Sector of application	All-terrain vehicle, Pick up trucks Caution: not suitable in connection with AL-KO AKS
	2,0 kg
	- - pcs



Tow ball 7148 2T17 EA 90	
Part No.	1 202 305
Max. towed load	2.000 kg
Nose load	120 kg
EC-Test No.	e2*94/20 *1763*00
Sector of application	All-terrain vehicle, Pick up trucks Caution: suitable with AL-KO AKS
	2,0 kg
	- - pcs

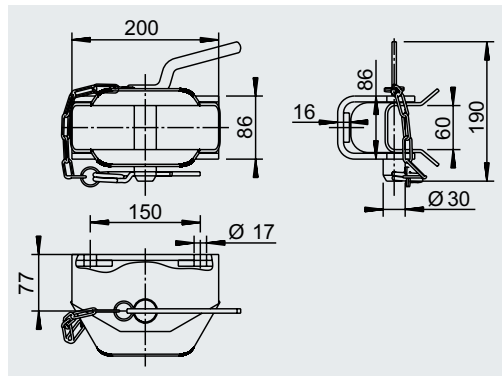
Trailer couplers

for agricultural trailers and tractors

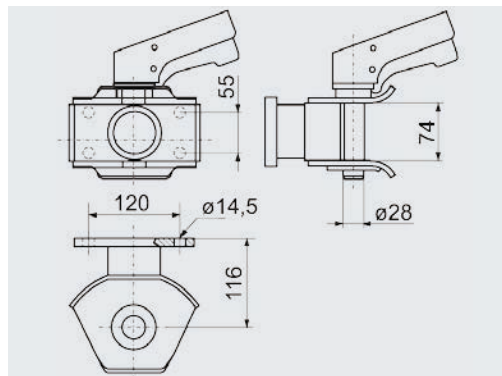


Range Overview

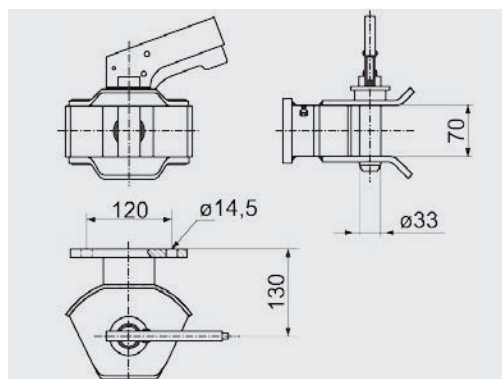
Trailer coupler rigid without hitch pin for trailers	
Part No.	203 004 01
Type	AK 40/1-C
Approval	BRD M 643 to 25 km/h
Max. allowed towing load	4400 kg
Max. allowed nose load	No nose load allowed
	ca. 4,1 kg
	- 200 pcs



Trailer coupler rigid with hitch pin for trailers	
Part No.	203 308
Type	AK 80/2
Approval	BRD M 648 to 25 km/h
Max. allowed towing load	8000 kg
Max. allowed nose load	No nose load allowed
	ca. 6,0 kg
	- 100 pcs






Trailer coupler rigid with hitch pin for tractors	
Part No.	203 262
Type	AK 53/B
Approval	Italian DGM-GA 806-B
Max. allowed towing load	6000 kg
Max. allowed nose load	500 kg
	ca. 6,6 kg
	- 96 pcs




Trailer coupler rotatable with hitch pin for tractors	
Part No.	242 079
Type	AK 61/1 A
Approval	CE 89/173 to 25 km/h
Max. allowed towing load	6600 kg
Max. allowed nose load	1000 kg
	ca. 7,0 kg
	- 96 pcs

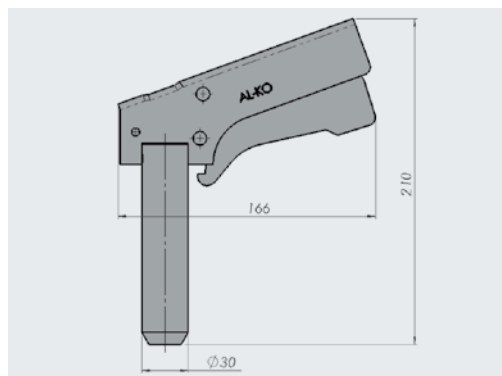
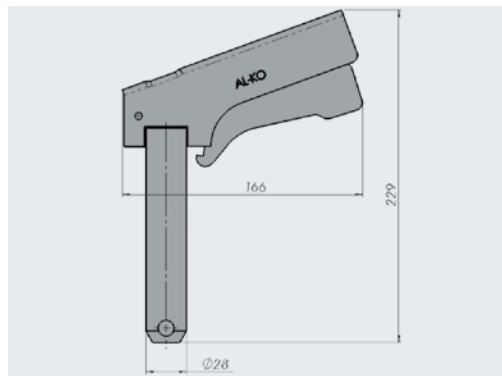
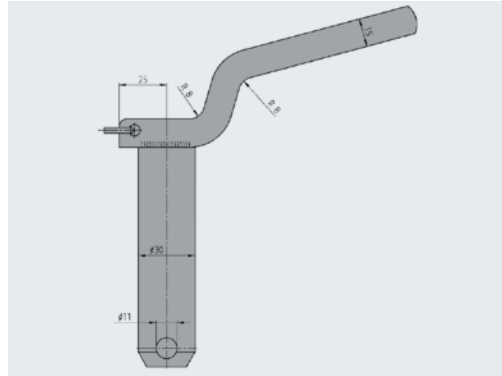
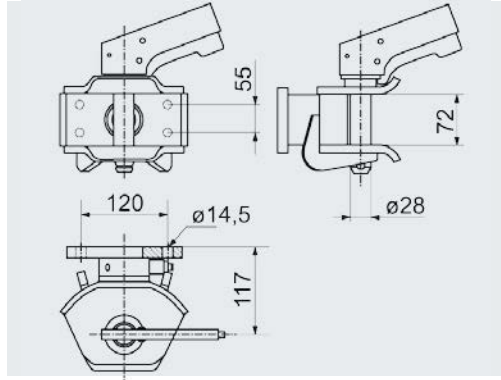
Range Overview

Trailer coupler rigid with hitch pin for tractors	
Part No.	203 017
Type	AK 63/C
Approval	Italian IGM-GA276-C
Max. allowed towing load	6000 kg
Max. allowed nose load	1500 kg
	ca. 8,2 kg
	- 96 pcs

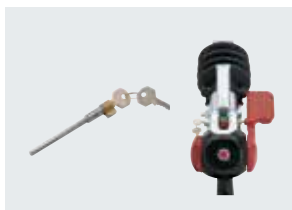
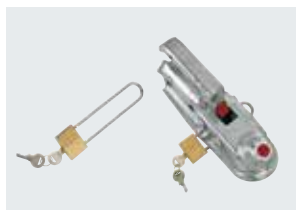
Hitch pin with chain for AK 40/1-C	
Part No.	203 068 03
	ca. 1,0 kg

Hitch pin for AK 53/B und AK 63/C	
Part No.	203 016 04
	ca. 1,0 kg

Hitch pin for AK 61/1 A	
Part No.	203 007 03
	ca. 1,0 kg



Anti-Theft devices for AL-KO couplings & stabilisers



Range Overview

Your advantage	Shackle lock	Key lock	Universal shackle lock
AL-KO classification	Compact	Compact	Compact
Protection rating AL-KO *security	simple protection	simple protection	simple protection
Can be used for AL-KO coupling model	AK 160, 300, 350	AK 7, 75, 750, 10/2, 251, 252	all without AKS
Prevents quick access during stationary operation	Yes	Yes	Yes
Prevents quick access during drive operations	Yes	Yes	No
Prevents the ball coupling from being unscrewed quickly	No	No	No
Safety-Ball can be used	Yes	Yes	Yes



Your advantage	Silver safety covering	Integrated lock cylinder	Red safety covering housing
AL-KO classification	Plus	Plus	Premium
Protection rating AL-KO *security	medium protection	medium protection	premium protection
Can be used for AL-KO coupling model	AK 160, 300, AKS 1300, 2004, 3004	AK 301, 351	AK 160, 300, AKS 1300, 2004, 3004
Prevents quick access during stationary operation	Yes	Yes	Yes
Prevents quick access during drive operations	Yes	Yes	Yes
Prevents the ball coupling from being unscrewed quickly	Yes	no	Yes
Safety-Ball can be used	Yes	Yes	Yes

* security:

anti-thief devices on the ball couplings can only prevent quick access. A trailer is a mobile vehicle. Anti-thief devices can not prevent the vehicle from being moved. The protection rating in the table relates to the amount of energy a criminal would need to expend (amount of time) in order to override the anti-thief device on the coupling.

Anti-Theft Devices Shackle and Barrel locks Compact

Fitting

Insert the **barrel lock** in the opening provided and lock.

The cylinder lock remains in the handle and prevents unauthorised coupling or uncoupling.

Place the **shackle lock** through the holes provided and lock.

Contents



- | 1 Barrel lock with 2 keys
- | 1 Shackle lock with 2 keys



Surface Treatment



- | Brass






Range Overview

Barrel Lock Compact with Safety-Ball	
Part No. for coupling	1 225 494 Type AK 7 PLUS, new version
	0,09 kg
	1 -

Barrel Lock Compact	
Part No. for coupling	203 216 AK 75, AK 750, AK 7, AK 10/2, AK 252, AK 251
	0,017 kg
	20 pcs (bag)

Barrel lock Compact	
Part No. for coupling	203 141 AKS 2000, AK 30, AK 35
	0,025 kg
	100 pcs (box)

Barrel lock Compact	
Part No. for coupling	245 737 AKS 1300
	0,046 kg
	25 pcs (box)

Shackle lock Compact	
Part No. per off for coupling	247 589 AKS 160, AK 300, AK 350
	0,103 kg
	20 pcs in box (247 925)



Anti-Theft Devices

Security cover Safety Plus and Premium

Fitting

The locking plates only need to be fitted once to the left and right side of the coupling.

The locking plates are a standard part of AKS™ 3004

housing. Exact fitting details are enclosed with the kit. The AL-KO Security device range cannot be used with overrun devices with a reverse lever fitted to the side.

Contents



1 Security device and two keys, AL-KO Safety Ball, fitting instructions.



Surface Treatment



1 powder coated



Range Overview

Security cover Safety Premium	
Part No. for stabiliser	1 225 258 AKS™ 1300
Part No. for stabiliser	247 632 AKS™ 2000
Part No. for stabiliser	1 225 260 AKS™ 2004 / 3004
Part No. for coupling	1 225 261 AK 160 – Ø 35
Part No. for coupling	1 225 259 AK 160 / 300
Inspection	checked by TÜV and SCM
	1,5 kg
	100 pcs 70 pcs (247 632)

Security cover Safety Plus	
Part No. for stabiliser	1 310 944 AKS™ 1300
Part No. for stabiliser	1 310 892 AKS™ 2004 / 3004
Part No. for coupling	1 310 943 AK 160 – Ø 35
Part No. for coupling	1 310 890 AK 160 / 300
Inspection	checked by TÜV and SCM
	1,4 kg
	pcs off

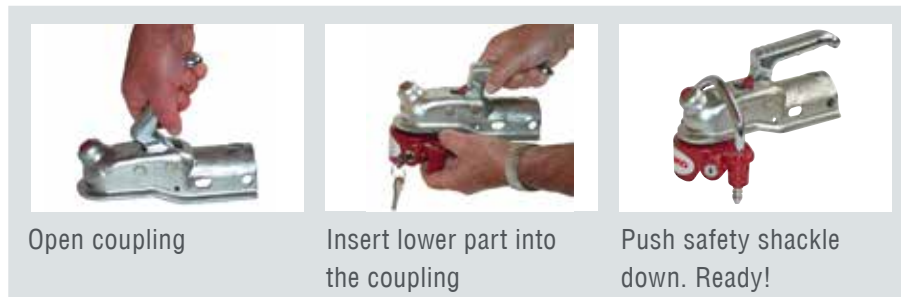
Cylinder Lock Plus with Safety-Ball for Coupling PROFI V Typ AK 301/AK 351	
Part No. one pc	1 222 692
Part No. 20 pcs	1 223 429
 Weight Packaging Unit	3,8 kg
	20 pcs

Shackle lock anti-theft device

Universal Compact

AL-KO
QUALITY FOR LIFE

Operation



Simultaneous locking anti-theft devices for dealers/lessors. Ask for it!



Range Overview

Universal Compact Shackle Lock	
Part No.	1 224 081 per item
Suitable for ball couplings	braked and unbraked from AL-KO (excluding AK 301 and AK 351) and other manufacturers
Material	Aluminium cast
	0,956 kg / 20 pcs

Safety-Ball

✓ Your Advantage

Additional product for conventional anti-theft devices on the trailer coupling - **especially for using whilst uncoupled.**

Anti-theft device

The Safety Ball stays in the coupling mechanism when the trailer is uncoupled.

🛡️ Surface Treatment

rigid plastic



! Safety

Together with the anti-theft device the Safety Ball is protected against fast removal. A smaller towball or hook cannot be inserted into the coupling area making the trailer more secure.

AL-KO Tip

The Safety Ball can be stored inside the Soft Ball when not in use.

📦 Contents

packed in boxes
1 box containing 24 Safety Balls. The carton is the transport packaging and can be used as point of sale display once opened.

🔧 Fitting

Open the coupling mechanism, insert the Safety Ball and then lock the mechanism with your chosen security device.



Range Overview

Safety-Ball	
Part No. per off	(605 305)
Colour	red
	0,070 kg
Part No. Packaging Unit	247 104 (including 24 pcs)
	2 kg

Soft-Dock / Soft-Ball / Protective Cover can be retrofitted

✓ Your Advantage

| Scratch protection -
the soft, rubber finish of the Soft Dock provides effective protection against dents or scratches to the rear of the tow vehicle.



| Shin protection -
the Soft-Dock and Soft-Ball provide effective shin protection should you accidentally walk into the towball or coupling head.



🔧 Fitting

The AL-KO Soft Dock and AL-KO Soft Ball are simply pushed over the towball or coupling head.

🌡️ Surface Treatment

Soft red damping rubber effective at -40° to $+80^{\circ}$

📦 Contents

packed in boxes




DE 391594402
petty patent




The box is the transport packaging and can be used as point of sale display once opened.



Range Overview

Soft-Dock	
Part No. one pc for AL-KO coupling	(603 952) AK 7, AK 10/2, AK 252, AK 160, AK 300
Colour	red
 kg	0,3 kg
	12 pcs
 Part No. Packaging Unit	246 412 (including 12 pcs)
 kg	2,5 kg

Soft-Ball	
Part No. one pc for towballs	(605 307) with 50 mm ball
Colour	red
 kg	0,055 kg
	24 pcs
 Part No. Packaging Unit	247 095 (including 24 pcs)
 kg	1,6 kg



The box is the transport packaging and can be used as point of sale display once opened.

Soft-Ball	
Part No. one pc for towballs	(1 310 913) with 50 mm ball
Colour	black
kg	0,055 kg
Part No. Packaging Unit	1 211 738 (including 24 pcs)
kg	1,6 kg



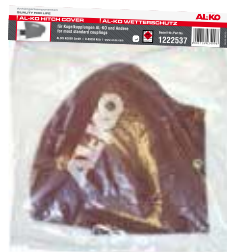
Soft-Ball	
Part No. one pc for towballs	(1 337 726) with 50 mm ball
Colour	blue
kg	0,055 kg
Part No. Packaging Unit	1 222 223 (including 24 pcs)
kg	1,6 kg

Your Advantage

| Weather resistance

| Breathable material

| Colour-fast



Protective Cover	
Part No.	1 222 537
Suitable for	AL-KO couplings and competitor couplings
kg	0,090 kg
kg	250 pcs



Protective Cover	
Part No.	1 287 002
Suitable for	AKS 1300 / 3004 3504
kg	0,190 kg
kg	250 pcs

Plug holder

Use 1

| Holder for 7 pin electric plugs

The lower, narrower part of the plug holder makes a form-fit connection with the 7 pin electric plug.



Use 2

| Holder for 13 pin electric plugs

The upper, wider area of the plug holder makes a form-fit connection with the 13 pin electric plug.



Use 3

| Can also be used as a holder for the Soft-Ball

The plug holder can be used as a holder for the covering (Soft-Ball) for your trailer device when driving.





Registered design
DE 20317055
EU Patent applied for

Packaged in cardboard box for-transport which can be used as a sales display after being opened.



Range Overview

Triple use plug holder	
Item Part No.	1 222 023
max. Ø electric plug	13 pin 41,5 mm 7 pin 36,0 mm
 Weight	0,070 kg
 Part No. Packaging unit	1 222 699 (Contains 35 pieces)

Use 1

| Holder for 7 pin electric plugs

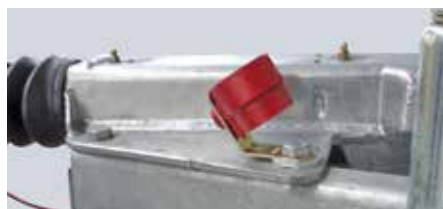
The lower, narrower part of the plug holder makes a form-fit connection with the 7 pin electric plug.




Use 2

| Holder for 13 pin electric plugs

The wider area of the plug holder makes a form-fit connection with the 13 pin electric plug.



Double use plug holder (turning tulip)	
Item Part No.	218 260 00 04
max. Ø electric plug	13 pin 41,5 mm 7 pin 36,0 mm
 Weight	0,070 kg

ATC Trailer-Control

The Anti-Sway-System for Caravans and Trailers

✓ Your Advantage

I Permanent safety when driving with a car and caravan

If you have already experienced critical driving situations with your car and caravan, you know how sensitively they can react at higher speeds - and the dangers that are out there!

Slight evasive action, side wind on bridges or wind pressure when overtaking lorries quickly causes the trailer/caravan to snake. The effect is so great that the trailer "sways" and becomes hard to control.

Once you have experienced the advantages of the new AL-KO Trailer Control, you will never want to drive without these "Emergency Electronics" again! Trust your ESP in the car and you can rely on the ATC in the trailer.

I ATC keeps the caravan/trailer securely on the track!

The ATC is ingeniously simple.

Similar to the ESP-system in the car, the AL-KO ATC permanently controls the driving behaviour of the trailer or caravan.

In circumstances that cause the trailer to snake, the lateral acceleration sensors capture the slightest side movements of the ATC-control electronics, even before any ESP in the car is able to register the swinging movements of the car. The trailer is braked immediately - without the driver's influence.

A few seconds of braking power are sufficient until the car and caravan are in a safe driving state again. Controlled braking is carried out by the caravan brakes.

Invest in ATC and ask your caravan insurance company for discounts to your insurance rate.



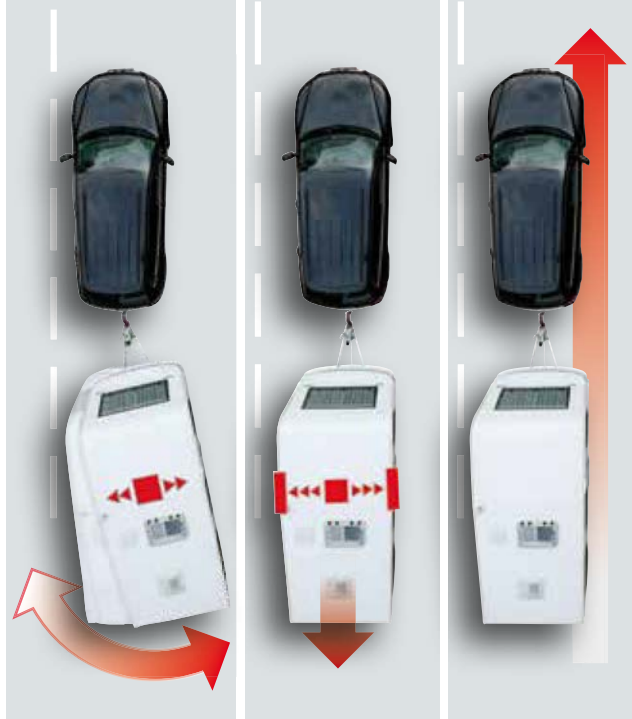
The car and caravan start to skid. ATC-sensors measure the slightest lateral acceleration directly on the trailer axle.



Immediately the ATC automatically brakes the trailer. The driver notices almost nothing of the electronically controlled correction.



A few seconds later the car and caravan are driving safely again. Braking causes the caravan to pull into the track independently.



AL-KO ATC prevents the trailer/caravan from snaking!



Automatic Safety Checks!:



① The power connection to the car is made using the normal 12S&12N caravan connection cables.



② The ATC Trailer-Control-System automatically starts a function test.



③ The LED on the over-run device illuminates green. The system is 100% ready for use.

ATC Trailer-Control

The Anti-Sway-System for Caravans and Trailers

! The best equipped!

AL-KO offers several safety components for driving with a car and trailer/caravan. These can be used independently from one another and ensures more stable driving.

! ATC – The system for passive safety:

The ATC AL-KO Trailer Control is an emergency system and activates automatically, if the car and trailer enters a critical oscillating situation. (this is when the trailer starts to sway and gets into a hazardous dimension).

! AKS – The system for active safety:

The AL-KO AKS™-Stabiliser device permanently suppresses small swinging and pitching movements in the trailer and increases the critical driving speed by approx. 20 %.



The anti-snaking system received the German Camping Club's DCC Technik Award 2011



Both systems complement one another and provide a perfect safety combination:

The new formula for maximum driving safety:

1 + 1 = 3

- acts against snaking
- prevents skidding
- suppresses pitching

📦 Contents

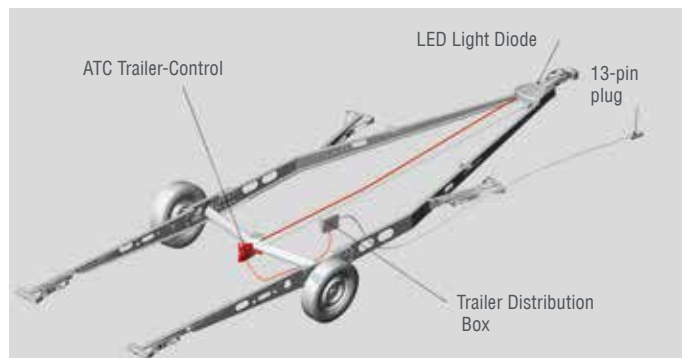
The AL-KO ATC retro-fit package
Net Weight: 4,5 kg

🛡️ Surface Treatment

Housing, aluminium & black painted, waterproof

! AL-KO ATC – retro-fitment:



The ATC can easily be retro-fitted by your dealer, to most caravans fitted with an AL-KO chassis.



FAQ

How long does it take to fit the ATC?	Retrofitting approx. 2-4 hours.
Must the ATC be entered in the vehicle logbook modification details?	No. Carrying the instructions with the vehicle papers is sufficient
Where does the ATC get its power from?	The ATC is connected to the trailer distribution box and the supply is provided by the constant positive for the 13-pin plug during travel.
How much power does the ATC require?	(Standard fuse) 15 Amp.
Can the ATC also be fitted on trailers with a (7-pin) plug?	No. The power supply via the 7-pin plug is not sufficient. The system requires the use of electrical connections from the 12 S (white), not the 12N black connection plug. It also works with caravans fitted with the new 13 pin plug.
Do the brake lights function when the working?	No. The ATC brakes the car and trailer softly, in ATC is comparison with the car engine brakes. Activation of the brake light is thus not required.
Does the ATC (as the AKS stabiliser does for example) fulfill the new criteria for Tempo 100 (Factor 1.0 for caravan and Factor 1.2 for trailers)?	No. The ATC, (as the ESP for cars) is purely an emergency system emergency system and does not improve the critical speed range as an AKS does for example.
Does the ATC need maintenance?	No. The system is maintenance free.
How do I know that the ATC is ready to use?	As soon as the 13-pin plug is connected to the towing vehicle, the ATC makes a complete self-check (1 brake operation and plausibility electronic system check). The function status is shown via a green LED on the overrun device. green = ready for use red = not working (but ready to drive) flashing red = trailer is braking (not ready to drive)
How do I recognise that the ATC emergency system is working in the car?	Soft braking is noticed in the car.

ATC Fitment to AL-KO Chassis

AL-KO Chassis	Gross Weight min. – max. kg	Unladen Weight min. kg	Part No.
	750–1.000	500	1 223 022
	1.001–1.300	800	
	1.301–1.500	1.000	1 223 023
	1.501–1.800	1.100	1 223 287
	1.801–2.000	1.300	1 225 186
	1.300–1.600	1.000	1 223 161
	1.601–2.000	1.200	1 223 162
	2.001–2.500	1.600	1 223 288
	2.501–2.800	1.800	1 730 034

ATC Fitment to Hobby-Caravan (from model year 1997) with Knott-axle

Hobby-Caravan	Gross Weight min. – max. kg	Unladen Weight min. kg	Part No.
	750–1.000	500	1 225 429
	1.001–1.300	800	
	1.301–1.600	1.000	1 225 430
	1.601–1.900	1.100	1 225 431

AMS MAMMUT

the clever manoeuvring system for caravans



Exact manoeuvring

You're on an uneven surface and none of your fellow campers are around to help push. However, the AL-KO AMS MAMMUT system lets you move your caravan with perfect precision – on any terrain and any in-cline – without any outside help!



CARAVANING
DESIGN AWARD 2010/2011
INNOVATIONS FOR NEW MOBILITY



Technology

High-performance and reliable

Maximum gradeability 28 %
depending on ground conditions
at a total weight of 2,25 t: 13 %
at a total weight of 1,80 t: 16 %
at a total weight of 1,20 t: 28 %

Powerful system

The AMS MAMMUT can handle obstacles up to 4 cm in height without any problems.

Extremely flat design provides maximum clearance from the ground

When installed on the top of the AL-KO chassis with impression M, the clearance between the underside of the frame and the ground remains completely intact.

Always maximum contact pressure

The drive on the wheel is set electrically. The electronic system makes sure that the maximum permissible contact pressure is always applied, guaranteeing excellent grip.



Perfect one handed operation



- ! Coupling symbol passenger vehicle
To improve orientation, we recommend holding the remote control in the direction of the towing vehicle and execute controls in that position.
- ! Perfect single hand operation by joystick
- ! Infinitely adjustable and very precise speed regulation
- ! Continuous 360° steering
- ! Disengage motors away from the caravan wheels
- ! Engage motors onto the caravan wheels



Remote control LED indications

System is ready for operation	Maximum grade-ability reached	Maximum drive temperature reached	Battery level hand-held radio transmitter	Battery level supply battery drive unit



Magnetic switch to activate the remote control

Funkhandsender zur Freischaltung des Systems

! Everything under control
Safety first: Operation is only possible when the remote control is moved over the magnetic switch on the overrun device to activate it. This prevents it from being operated in the passenger vehicle when you are driving (childproof).

! Soft start and soft stop
A gentle, controlled start and shutdown – the soft start prevents jerky movements.

! Instant stop on slopes
The trailer's brakes are applied to bring it to a halt on slopes as soon as the joystick is released.

! Drive completely sealed

The housing of the AMS MAMMUT is splash-proof and guarantees that the AMS MAMMUT functions properly in wet weather.

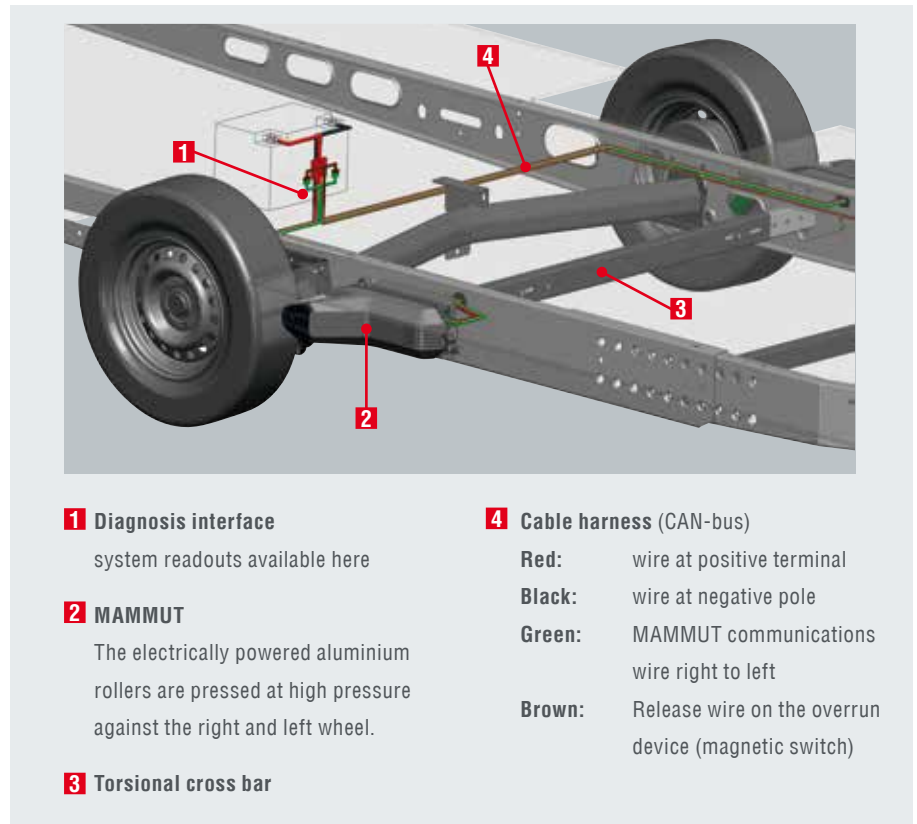


AMS MAMMUT

✓ Your advantage

An overview of other features

- | Safeguard against misuse:**
Released with magnetic switch on the overrun device (handheld radio transmitter)
- | Drive rollers are actuated electrically.** The electronic system makes sure that the maximum permissible contact pressure is always applied, guaranteeing excellent grip whatever the conditions.
- | Immediate stop** on slopes as soon as the joystick is released
- | Rotate on the spot** through 360°
- | Maximum speed** approx. 0,5 km/h
- | LED display in handheld radio transmitter** for: System ready for operation, maximum gradeability reached, maximum drive temperature achieved, handheld transmitter battery level, drive battery level
- | Infinitely variable speed regulation** by Joystick
- | Continuous steering** by Joystick
- | Emergency turn** manual actuating drive – WAF13 mm
- | Splash and salt water protection for motor and electronics**
- | Robust, tyre-friendly drive rollers**
- | Ability to make diagnoses** through the diagnosis interface in the vehicle
- | CAN-bus-compatible**
- | Power consumption:** Peak current 120 A, standby current max. 5 mA
- | No TÜV registration** required – vehicle operating licence



1 Diagnosis interface

system readouts available here

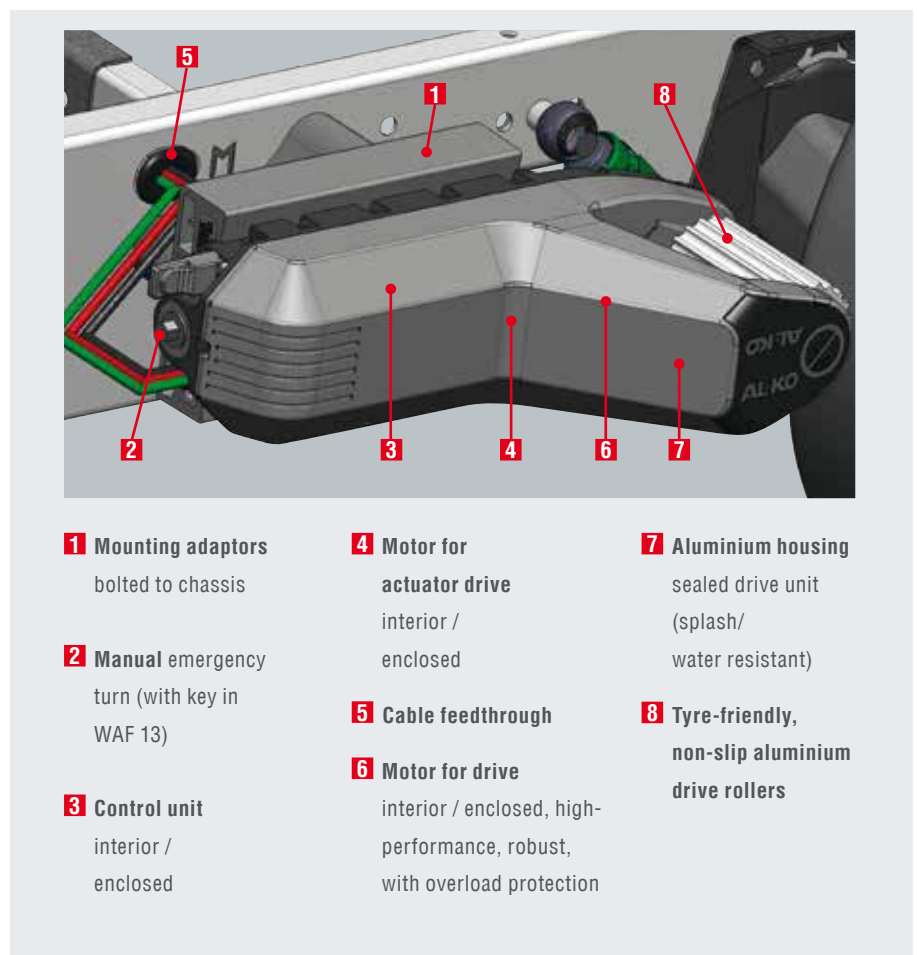
2 MAMMUT

The electrically powered aluminium rollers are pressed at high pressure against the right and left wheel.

3 Torsional cross bar

4 Cable harness (CAN-bus)

- Red:** wire at positive terminal
- Black:** wire at negative pole
- Green:** MAMMUT communications wire right to left
- Brown:** Release wire on the overrun device (magnetic switch)



1 Mounting adaptors

bolted to chassis

2 Manual emergency turn

(with key in WAF 13)

3 Control unit

interior / enclosed

4 Motor for actuator drive

interior / enclosed

5 Cable feedthrough

6 Motor for drive

interior / enclosed, high-performance, robust, with overload protection

7 Aluminium housing

sealed drive unit (splash/ water resistant)

8 Tyre-friendly, non-slip aluminium drive rollers

AMS MAMMUT



QUALITY FOR LIFE

Installation variants / recommended accessories

Integrated chassis variant

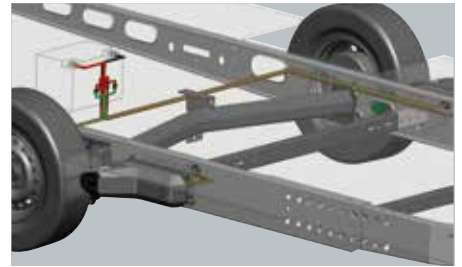
for maximum clearance.

For AL-KO chassis built in 2010 or later with „M“ embossed on the longitudinal frame. Most of these have the mounting holes for MAMMUT as standard.

The AL-KO AMS MAMMUT can then be attached in front of the axle in the direction of travel (protected from stones and coarse dirt!). This attachment variant maintains the clearance between the lower side of the frame and the street in its entirety.

Simple installation

Screw both drives over the cross brace with the frame. Attach the plus-minus cable on the battery. Fit the magnetic switch to the tow bar. Done. The controls are protected in the MAMMUT and do not have to be fitted and cabled separately.

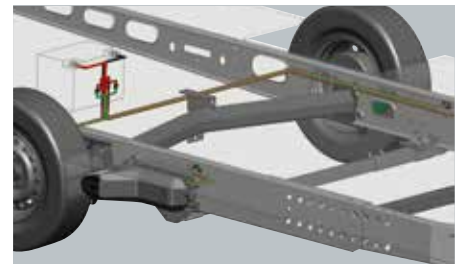


Aftermarket variant

the traditional retrofit installation.

For AL-KO chassis without „M“ embossed on the longitudinal frame and common competing chassis. Traditionally AL-KO MAMMUT is screwed underneath the frame using a cross brace.

This reduces the clearance by the height of the cross brace (ca. 50 mm). This variant allows you to install MAMMUT in front of or behind the axle.

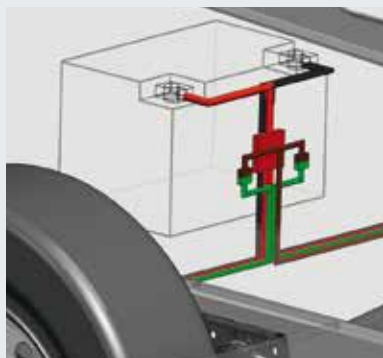


Recommended accessories

Battery/charger

We recommend maintenance-free lead-acid batteries with modern absorbent glass mat (AGM) technology.

The charging system recommended by the manufacturer of the battery that you choose must also be installed (e.g. IUoU).



Support wheel

Manoeuvring systems can overload support wheels if the ground is soft. Narrow wheels can gouge deep channels or even sink into the ground.

AL-KO therefore recommends:

- use a high, wide wheel
- use a stable support wheel with a load bearing capacity in excess of 200 kg, e.g. the AL-KO premium support wheel part no. 1 221 695






AMS MAMMUT

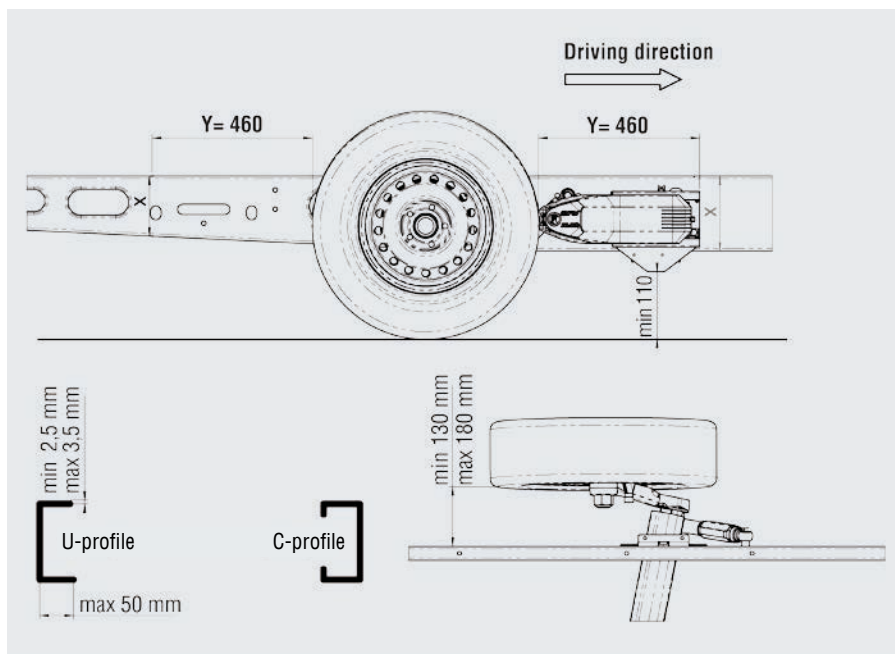
Technical data overview

Range Overview

Variant	Integrated chassis variant	Aftermarket variant
Can be used for single axle vehicles	AL-KO chassis with M marking	AL-KO chassis without M marking und current competing chassis (caution: please note the requirements mentioned in the illustration)
Fitting in direction of travel	In front of the axle	In front of and behind the axle
Part No.	1 225 469	1 225 470
Weight	32 kg	42 kg
Maximum clearance	Yes	No. The cross brace takes approx. 5 cm off
Maximum permissible total weight	2,25 t single axle vehicle	2,25 t single axle vehicle
Max. gradeability	at a total weight of 2,25 t: 13 % at a total weight of 1,80 t: 16 % at a total weight of 1,20 t: 28 %	at a total weight of 2,25 t: 13 % at a total weight of 1,80 t: 16 % at a total weight of 1,20 t: 28 %
Soft start und soft stop	Yes	Yes

The range of application for the bottom installation variant can be expanded with the following add-on kits

Part No.	Add-on kit	Content
1 224 882	Add-on kit for AL-KO Vario III AV chassis, behind the axle, as reinforcement for the 2 mm frame profile	2 reinforcement metal sheets with screws 
1 224 883	Add-on kit for frame heights (X) lower than 185 mm and higher than 150 mm to compensate for height differences	6 spacer plates with screws 
1 224 884	Add-on kit for end to end U and C frame profiles with a frame height of at least 120 mm	2 special cross braces with MAMMUT holder 



The bottom installation standard construction set (order number 1 224 846) can be used with AL-KO and competing chassis under the following conditions:

1. The minimum height of the frame X must be 185 mm (measured at the coupling point area, either in front of or behind the axle, see dimension Y)
2. The frame profile must be a U or C profile and have a material thickness of 2.5 to 3.5 mm.

Safe

The safe solution for all your valuables

AL-KO

QUALITY FOR LIFE

✔ Your advantage

As standard upon request or retrofittable for mobile homes with AL-KO chassis.

🔧 Installation

The safe can be fitted anywhere you like, e.g. on the floor, on a shelf, in a storage box, on a bed frame, etc.

When fitting the safe on the ground, make sure that there are no supply lines (water, electricity, etc.) underneath the safe when you fit the plate.

Check that you can open the safe door at the location where you want to install it.

! Security

An experienced thief can break into pretty much any mobile home within a matter of minutes. The built-in AL-KO safe for caravans, mobile homes and

boats make it harder for thieves to access your valuables quickly. The safe has a robust door locked with two sturdy bolts.

the safe through the installation plate. The screw head should lie flat against the outside. Next, fix the screws in place with the nuts inside the safe. Done! Even if you install the safe on its back with the door facing upwards, the door will not lock if it falls shut unintentionally, because the key cannot be pulled out when the door is open.

Use the installation plate as a drilling template and make sure to turn the plate to the position where you want to attach it to the underside of the base. Drill holes 6.5 mm in length. Test the thickness of the base. Position the installation plate on the bottom of the base so that the plate is flat and the heads of the screws go through the holes on the plate. Open the four attachment holes on the base or rear wall of the safe and insert the screws into

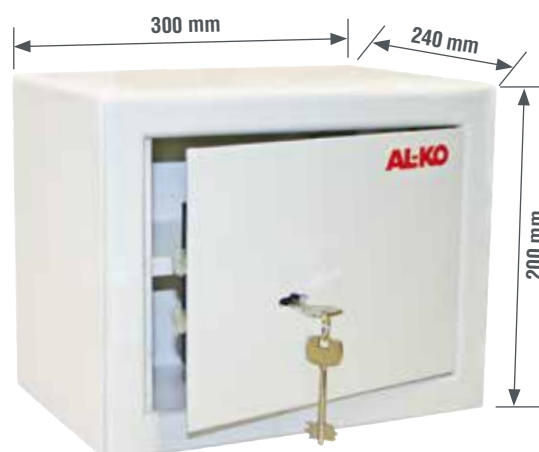


😊 Surface treatment primed and painted



📦 Contents

- 1 Safe with intermediate floor
- 2 Double-bit safety key
- 4 Screws, nuts and caps with lip seals
- 1 Mounting plate (also acts as drilling template)
- 1 Operation and attachment instructions



Range Overview

Safe	
Part No.	245 091
External dimensions	300 x 240 x 200 mm
Internal dimensions	285 x 230 x 180 mm
Volume	14 Litres
	12,5 kg
	33 pcs

Corner Steadies

Advantages / Fitting / Operation

✓ Your Advantage

I Easy to fit mounting

brackets are provided on the chassis and allow fast and easy fitment of AL-KO corner steadies.

I Stable

AL-KO corner steadies are particularly stable due to the pressed profiles, side bracings and strong thread spindles.

I High quality corrosion protection

Corner steadies are almost indestructible due to a hot dip galvanised coating with a layer thickness of up to 70 µm.

✓ Fitting

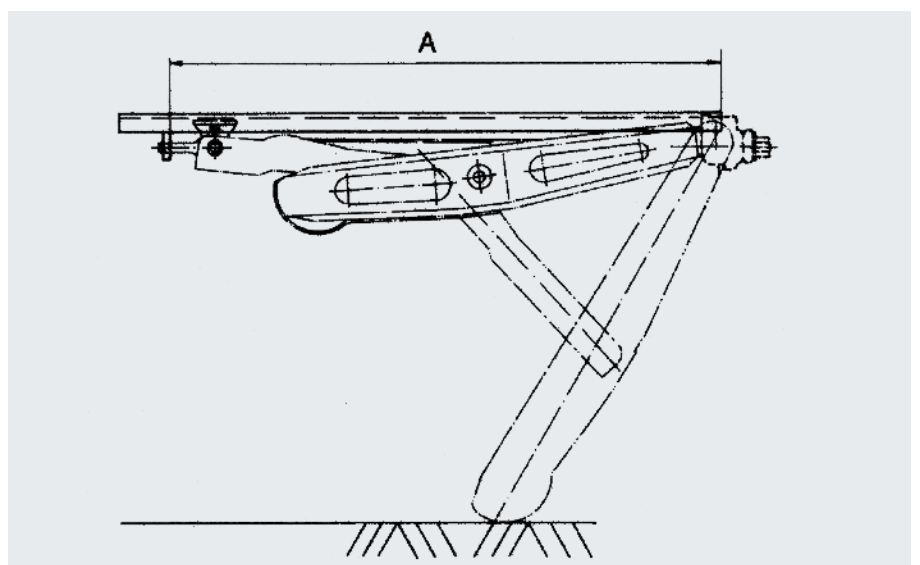
Retrofitting to non AL-KO chassis:

The AL-KO Stabilform steadies can also be retrofitted to non AL-KO chassis. Please talk to your specialist workshop to clarify your special fitting circumstances. Dependent on the fitting situation, special mounting rails Part No. 294 370 (each) or retaining brackets Part No. 365 100 (each) can be used.

AL-KO corner steadies can be retrofitted to most caravans fitted with AL-KO chassis from 1989 onwards.

In order to be certain that fitment is possible, please check the following.

1. Fitting dimensions A as per sketch. The stabilform steady fits at dimension 605 mm. It can not be retrofitted at dimensions of 505 mm.
2. Check outrigger height K as per sketch. The stabilform steady fits to dimensions 23 mm. It cannot be retrofitted to outriggers with dimension 30 mm.



Retrofitting to AL-KO chassis:

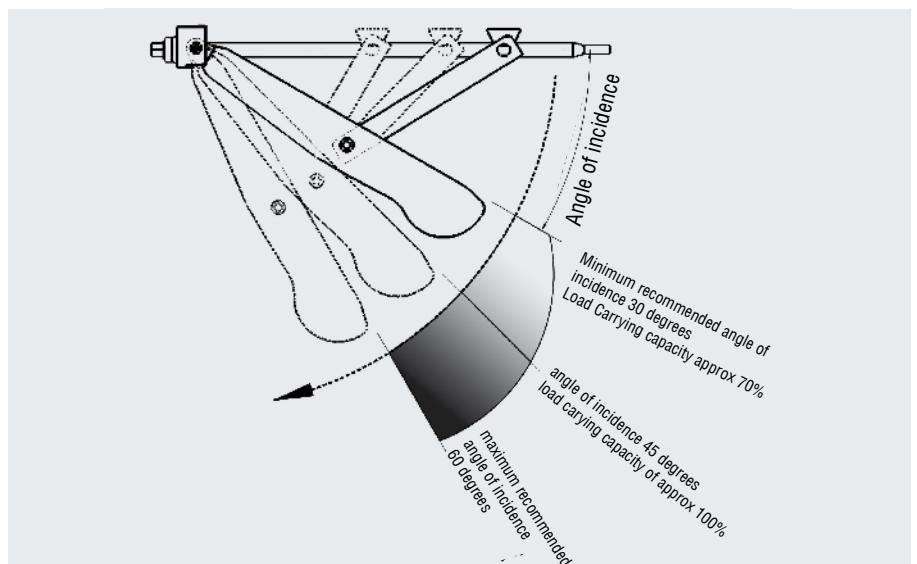
We recommend fitment of the premium corner steadies to achieve maximum stability in extreme situations, these also provide 25% more load bearing capacity.

Operation

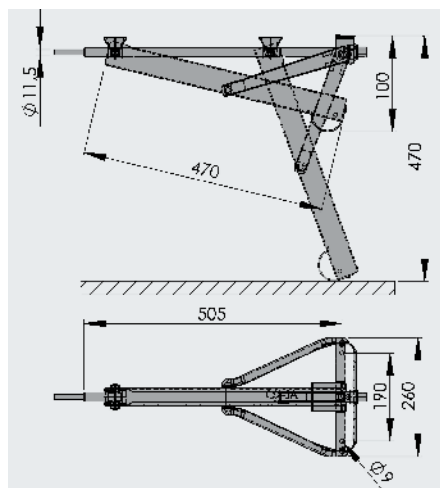
The corner steady is simply wound up or down using a corner steady brace.

Corner steadies are only intended to support the trailer or caravan. They must not be used as a jacking device for changing tyres etc.



Clean and grease the threaded spindles regularly.



AL-KO corner steadies develop the maximum load bearing capacity from a setting angle of 45°. If the corner steady is set flatter (e.g. 30°) the load bearing capacity is reduced (see sketch)

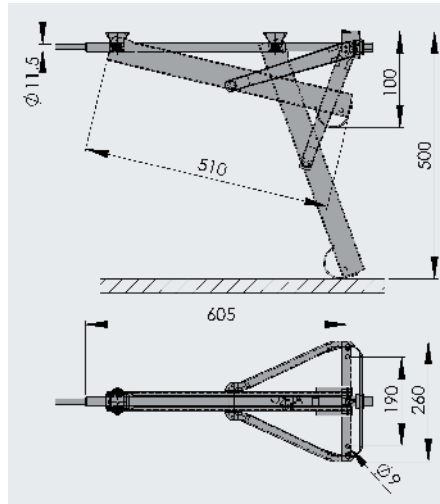


Range Overview



AL-KO Standard corner steady short 800 kg	
Part No.	205 808
Load bearing capacity	max. 800 kg
Max. total weight of trailer	max. 1600 kg
Finish	hot dip galvanised
	3,4 kg
	100 pcs

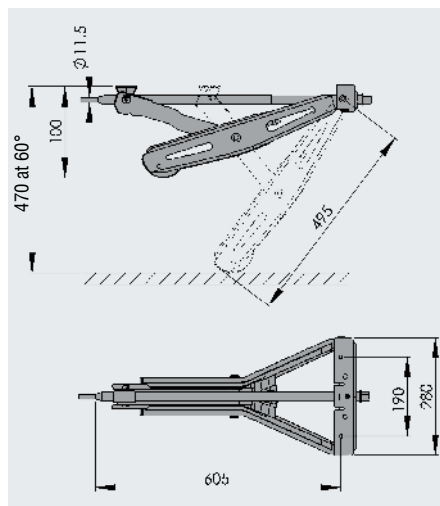
Corner Steadies



Secure footing and increased stability

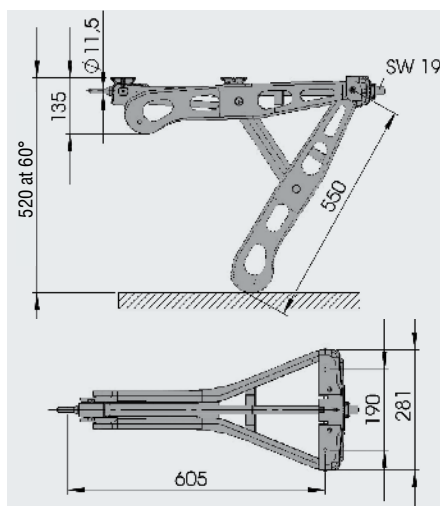




Range Overview

AL-KO Standard corner steady long 800 kg	
Part No.	205 817
Load bearing capacity	max. 800 kg
Max. total weight of trailer	max. 1600 kg
Finish	hot dip galvanised
 kg	4,2 kg
	100 pcs



AL-KO Stabilform corner steady short 1000 kg	
Part No.	267 265
Load bearing capacity	max. 1000 kg
Max. total weight of trailer	max. 2000 kg
Finish	hot dip galvanised
 kg	4,2 kg
	70 pcs



AL-KO Premium corner steady long 1250 kg	
Part No.	1 221 694
Load bearing capacity	max. 1250 kg
Max. total weight of trailer	max. 2500 kg
Finish	hot dip galvanised
 kg	4,95 kg
	50 pcs

Corner Steady Accessories

AL-KO

QUALITY FOR LIFE

Anti-theft device - operation



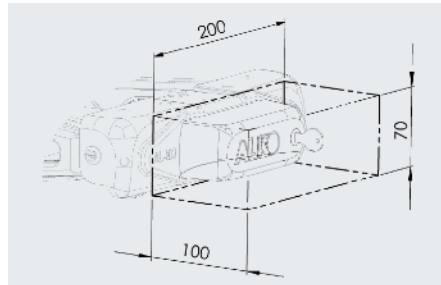
Attach anti-torsion device.



Insert security device into the slot and push to the right.




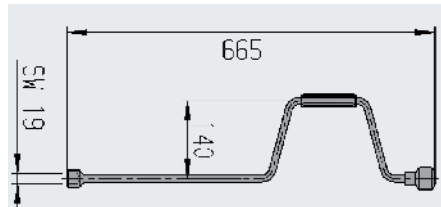
Push lock in.




Anti-theft device Safety Compact

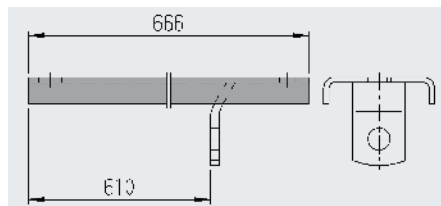
for Premium corner steadies 1250 kg from 2006 model year

Part No.	1 222 515
Contents	2 pc.
Finish	galvanised
 kg	0,8 kg




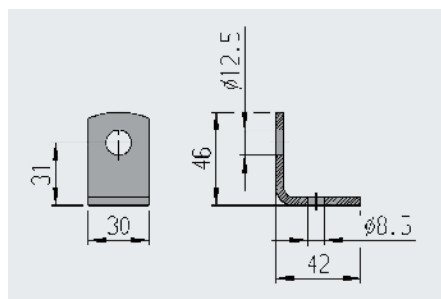
Corner steady brace

Part No.	205 520
Finish	hot dip galvanised
Spanner size	SW 19
 kg	1 kg




Mounting rail

Part No.	294 370
Finish	hot dip galvanised
 kg	0,5 kg



Retaining bracket

Part No.	365 100
Finish	hot dip galvanised
 kg	0,05 kg

AL-KO big foot™ and Adapter 45 mm

Prevents corner steadies from sinking or sliding

✓ Your Advantage

Can be retrofitted to caravans with AL-KO chassis and stableform corner steadies.

✓ Secure landing

The AL-KO big foot™ with its large, reinforced landing area prevents the steady legs from sliding away or sinking and provides a firm, safe base for the caravan. The support foot has a maximum load bearing capacity of 1250 kg.

✓ Function

A slot ensures that on progressive contact with the ground, AL-KO big foot™ functions independently by adapting to the lie of the land.

✓ Reduced space requirement

During driving the AL-KO big foot™ locks against the corner steady by means of a retaining spring.

✓ Assembly

The big foot™ may be fitted to standard stable-form and Premium AL-KO corner steadies. From 2001, the relevant mounting holes are in place on these corner steadies. Prior to 2000, mounting holes need to be drilled in accordance with details shown in the operating instructions.



EU-Patent
EP 1174 317 B1

✓ Contents

Packed in a carton with the following contents:
4 AL-KO big foot™ with fastening spindles, washers, springs and nuts, 1 fitting and operating instructions.

Range Overview

big foot™ Support Foot	
Part No.	1 212 458 (contents 4 supports)
Suitable for	Standard stable-form and Premium corner steadies
Finish	Plastic PA grey
	2,5 kg per set
	48 boxes



45 mm Adapter for AL-KO big foot™

✓ Your Advantage

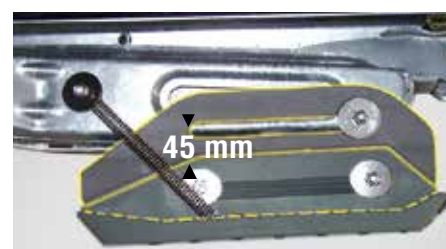
Adds a further 45 mm to the existing AL-KO big-foot™ support.

✓ Assembly

The adapter enables the AL-KO big-foot™ to get 45 mm closer to the ground. To prevent the AL-KO big foot™ from catching the ground, a check must be carried out for each caravan to determine if the clearance is adequate. The big-foot™ may be fitted to standard stable-form and Premium AL-KO corner steadies. From 2001, the relevant mounting holes are in place on these corner steadies. Prior to 2000, mounting holes need to be drilled in accordance with details shown in the operating instructions information.

✓ Contents

Packed in a box with the following contents:
4 Adapter 45 mm, 4 sets fastening material, 1 fitting and operating instructions



Range Overview

Adapter 45 mm for AL-KO big foot™	
Part No.	1 213 899 (contents 4 adapters)
Suitable for	Standard and Premium corner steadies
Finish	Plastic PA grey
	2,5 kg per set
	48 boxes

Corner steadies with swivel foot for trailers without AL-KO System-Chassis

✓ Your Advantage

These corner steadies can be used for retrofitting to older trailers that do not have a lightweight chassis system.

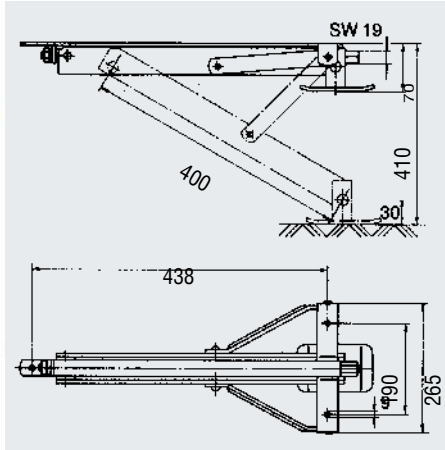
🇪🇺 Surface Treatment

galvanised

🔧 Fitting

The corner steadies should be fitted as far as possible to the rear and outside. This increases stability. We recommend that the corner steadies are bolted into the frame. When fitting to a sandwich floor (wooden floor) - without storage space - care must be taken that the bolt connection goes through into

solid wood. A large surface washer Ø 50 x 4 mm (plate) must be placed under the bolt head. Maximum stability is achieved by fitting the four corner steadies in an approx. 30-45° inclined setting.

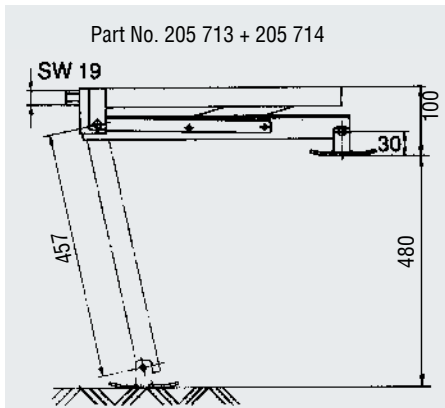


Range Overview

Corner Steady COMPACT 800 kg	
Part No.	205 712
Load bearing capacity	max. 500 kg
Max. total weight of trailer	1000 kg
Weight	3,0 kg
Quantity	150 pcs



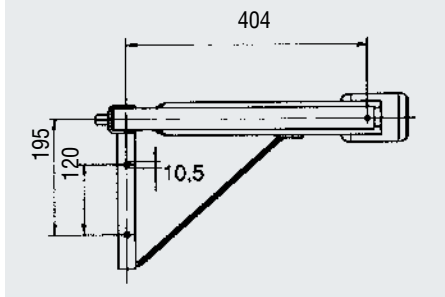
for front right and rear left



Corner Steady COMPACT 800 kg	
Part No.	205 713
Load bearing capacity	max. 600 kg
Max. total weight of trailer	1200 kg
Weight	4,5 kg
Quantity	80 pcs



for front left and rear right



Corner Steady COMPACT 800 kg	
Part No.	205 714
Load bearing capacity	max. 600 kg
Max. total weight of trailer	1200 kg
Weight	4,5 kg
Quantity	80 pcs

*the permitted overall weight given is when 4 corner steadies are used.

Comfort Kit

The smart trick for extending the steadies

✓ Your plus

As OEM equipment by demand.

Or retrofitted at caravans with AL-KO chassis

! No bending down

The AL-KO Comfort Kit allows handling of steadies in upright position.

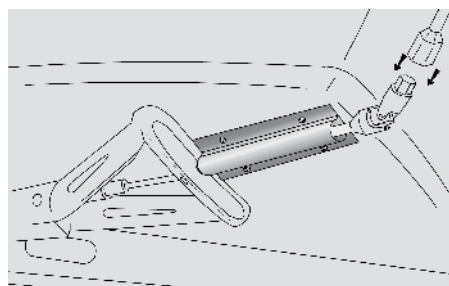
! No kneeling

Access to the cardan joint and plastic channel guide is obvious. No kneeling is necessary during operation of the steadies.

🔧 Fitting

Mounting space for plastic channel must be free at caravan floor.

No cables or barriers must take place here. Trailers carrying a streamlining skirt must get a hole for free access of the cardan joint. The tunnel profiles must be cut to length and fixed to floor.





📦 Contents

- ! 2 tunnel profiles 400 mm long
- ! 2 tunnel profiles 200 mm long
- ! 1 cardan joint long
- ! 1 cardan joint short
- ! 1 installation manual



Range Overview

Comfort Kit	
Part No.	1 210 506
fitting for	all corner steadies wrench size SW 19
	2,3 kg
	100 pcs.

Jockey Wheel 48 Ø, 300 kg anti-slip

✓ **Your advantage**

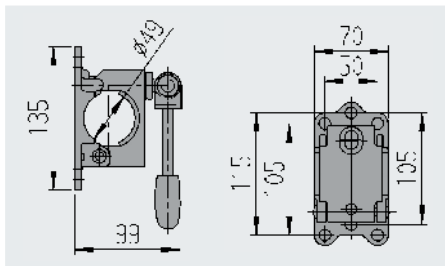
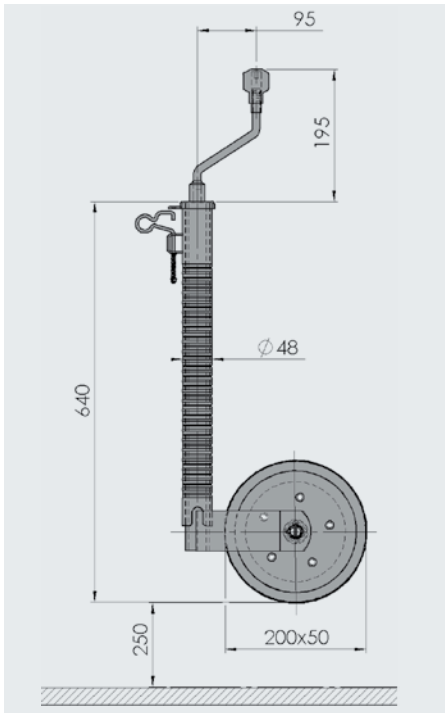
| Prevents the crank from shaking loose

Vibrations can shake the crank loose when driving. This can cause the internal tube with the wheel to move downwards out of the external tube. A wire bracket welded to the external tube can be mounted on the crank for this support wheel and prevent **this extreme case** from happening.

| Prevents against slipping through

The outer tube of the support wheel has depressions which form grooves. The top of the clamp of the new AE Cast Profi or the corresponding cast clamp have opposing grooves. If the catch of the clamp is pulled even

slightly, the support wheel can not slip through. This is **slip-through proofing**. If the catch is not pulled at all, the slip-through proofing will also cease the function.



Range Overview

Support wheel 48 Ø, 300 kg anti-slip	
Part No.	1 223 614
Static load bearing	max. 300 kg
Dynamic load bearing	max. 180 kg
Surface treatment	Hot dip galvanised
Crank	compression bearing
Rim	steel
Wheel	200 x 50 solid rubber
Wheel bearing	bush bearing
	8 kg
	70 piece

Clamp Ø 48 folding T-handle	
Part No.	249 804
Static load bearing	max. 300 kg
Surface treatment	Hot dip galvanised
	1,0 kg
	125 Stück

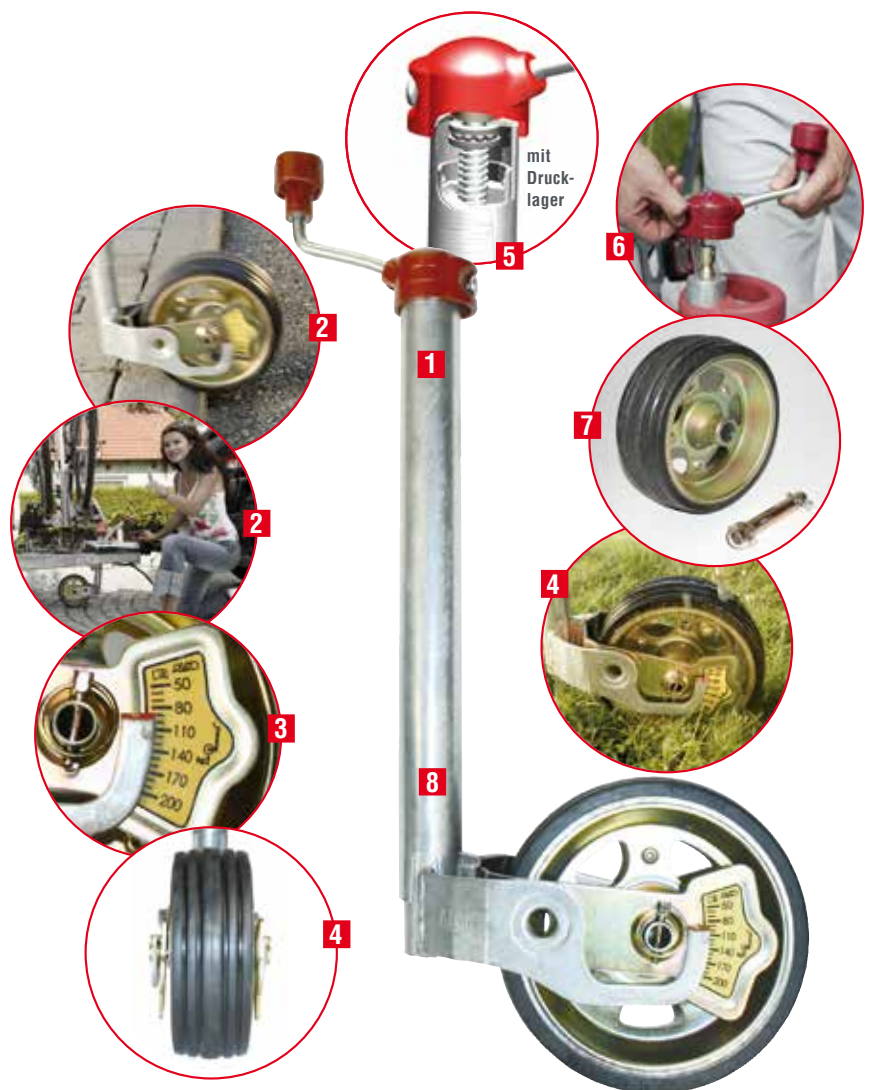
Can also be used for anti-slip support wheel no 1 223 614

Jockey Wheel PREMIUM

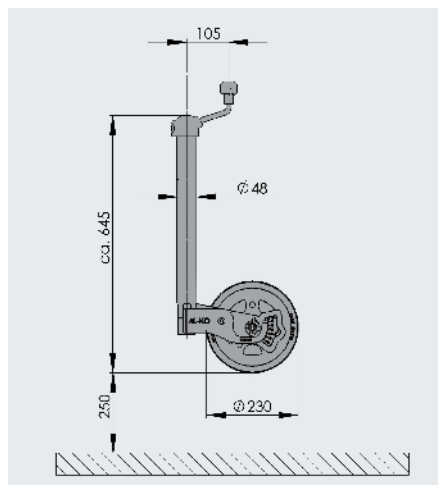
Easy movement for uncoupled trailers

✓ Your Advantage



- 1 Extremely strong version**
(static load capacity 300 kg)
- 2 Integrated swing arm suspension**
- ground unevenness (eg curbs) are overcome with resilience
- 3 Integrated nose load display**
- no separate scales
- no complicated or dangerous operation under certain circumstances
- 4 Modern grooved rubber wheel**
230 mm x 80 mm offers easy manoeuvring
- small contact area on hard base surfaces
- large contact area on soft base surfaces.
- 5 Smooth crank operation**
- via integrated thrust bearing
- 6 Removable, ergonomic crank handle**
- 7 Detachable wheel**
- 8 High quality corrosion protection**
with hot dip galvanising giving a layer thickness of up to 70 µm. This ensures that the wear due to the friction on the zinc layer from the collar is not critical. Structure of the galvanisation is bloomy.



DE 20313358 EC-Registered Patent



Range Overview

Jockey Wheel PREMIUM	
Part No.	1 221 695
Static load bearing capacity	max. 300 kg
Dynamic load bearing capacity	max. 180 kg
Finish	hot dip galvanised
Swing arm suspension wheel and handle	d detachable
wheel	230 x 80 solid rubber
wheel bearing	friction bearing
	9,8 kg
	40 pcs

Jockey Wheels PLUS

Easy movement for uncoupled trailers

✓ **Your advantage**

I High quality corrosion protection

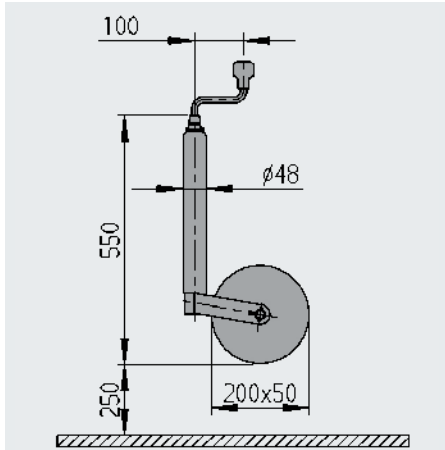
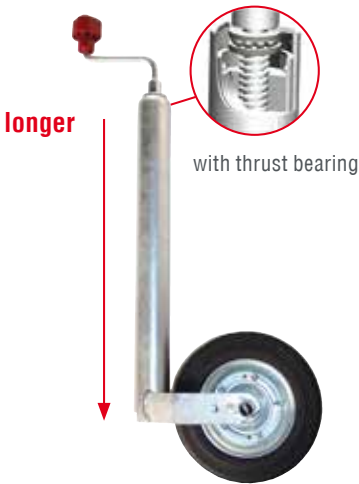
Hot dip galvanised with a layer thickness up to 70 µm. This ensures that wear by friction on the zinc layer

from the collar band is not critical. Structure of the galvanisation is bloomy.

I Smooth handle operation

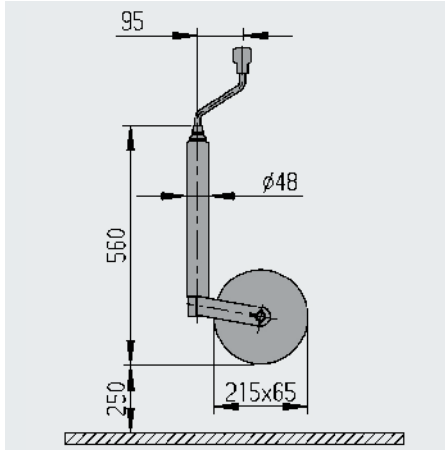
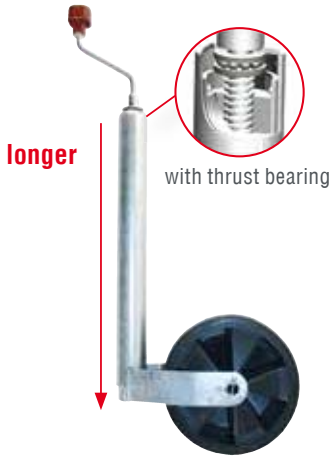
The integrated thrust bearing under the handle eases operation.

I Extended range

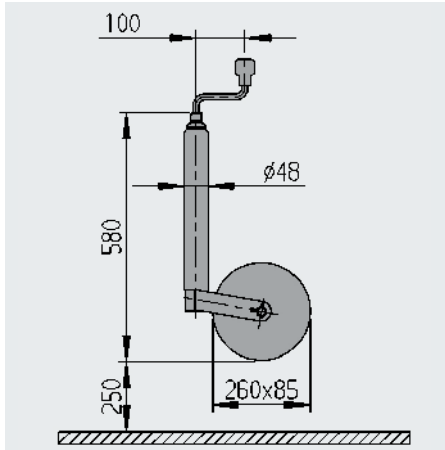
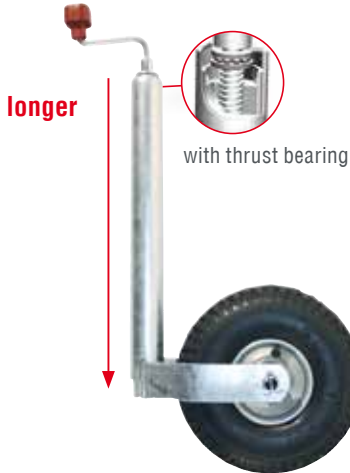


Range Overview

Jockey Wheel PLUS	
Part No.	1 222 436
Static load bearing cap.	max 150 kg
Dyn. load bearing cap.	max 90 kg
Finish	hot dip galvanised
Crank	with thrust bearing
Wheel rim	steel
Solid rubber wheel	200 x 50
Wheel bearing	friction bearing
Weight	5 kg
Quantity	125 pcs



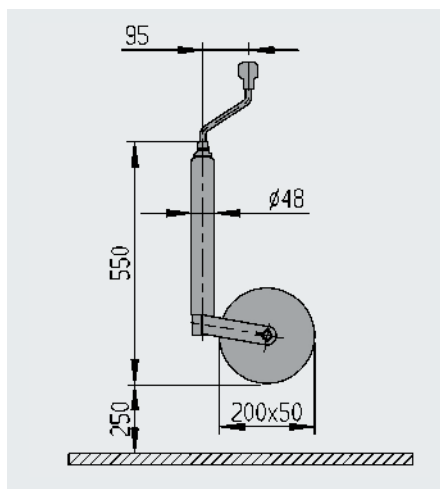
Jockey Wheel PLUS	
Part No.	1 222 435
Static load bearing cap.	max 150 kg
Dyn. load bearing cap.	max 90 kg
Finish	hot dip galvanised
Crank	with thrust bearing
Wheel rim	plastic
Soft rubber wheel	215 x 65
Wheel bearing	friction bearing
Weight	5 kg
Quantity	75 pcs



Jockey Wheel PLUS	
Part No.	1 222 438
Static load bearing cap.	max 200 kg
Dyn. load bearing cap.	max 120 kg
Finish	hot dip galvanised
Crank	with thrust bearing
Wheel rim	steel
Pneumatic wheel	260 x 85
Wheel bearing	friction bearing
Weight	5 kg
Quantity	70 pcs

Jockey Wheel PLUS / PINSTOP

Easy movement for uncoupled trailers



Jockey Wheel PLUS	
Part No.	1 222 437
Static load bearing cap.	max 300 kg
Dyn. load bearing cap.	max 180 kg
Finish	hot dip galvanised
Crank	with thrust bearing
Wheel rim	steel
Solid rubber wheel	200 x 50
Wheel bearing	friction bearing
	7 kg
	70 pcs

Support wheel with PINSTOP

✓ Your Advantage

The AL-KO PINSTOP is a parking aid for small unbraked and braked trailers on relatively level terrain. 2 wheel chocks are required by law from a total weight of 750 kg.

Their effectiveness depends on the vertical load, ground conditions and total trailer weight. We therefore recommend to test the functionality of the PINSTOP after activating it on your trailer.

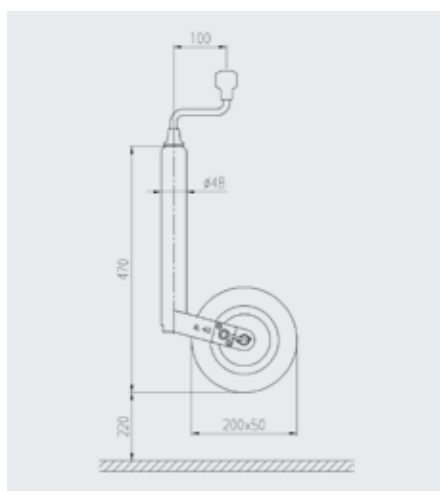
Warning:

The PINSTOP should not be considered a replacement for a parking brake or your obligation to use wheel chocks for trailers weighing more than 750 kg.



🔴 Operation

Simply use your hand or foot to put the PINSTOP in the right position. This moves the lock bolt with the help of a spring into the recess of the rim, preventing the wheel from turning and the trailer from rolling away.



Range Overview

Support wheel with PINSTOP	
Part No.	1 224 351
Static load bearing	max. 150 kg
Dynamic load bearing	max. 90 kg
Surface treatment	galvanised
Rim	plastic
Wheel	200 x 50 solid
Wheel bearing	sliding bearing
	4,8 kg
	50 pcs

Jockey Wheels COMPACT

AL-KO

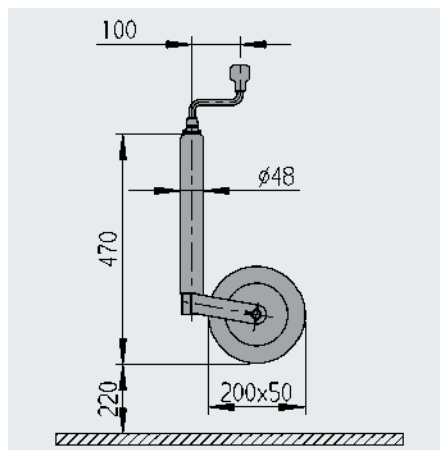
QUALITY FOR LIFE

✓ **Your Advantage**

! **Normal corrosion protection.**

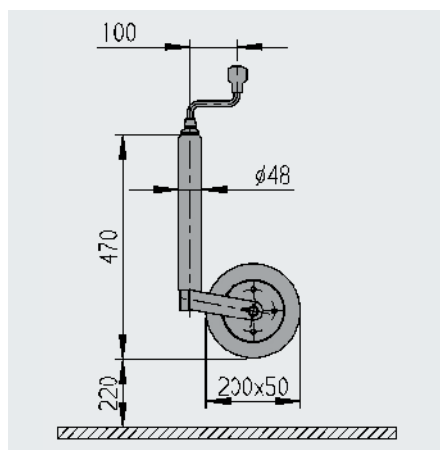
Zinc electroplated to a thickness of 8 µm.

! **Shorter design**



Range Overview

Jockey Wheel COMPACT	
Part No.	1 222 433
Static load bearing cap.	max 150 kg
Dyn. load bearing cap.	max 90 kg
Finish	galvanised
Wheel rim	plastic
Solid rubber wheel	200 x 50
Wheel bearing	friction bearing
	4,8 kg
	125 pcs



Jockey Wheel COMPACT	
Part No.	1 222 434
Static load bearing cap.	max 150 kg
Dyn. load bearing cap.	max 90 kg
Finish	galvanised
Wheel rim	steel
Solid rubber wheel	200 x 50
Wheel bearing	friction bearing
	4,8 kg
	125 pcs

Accessories

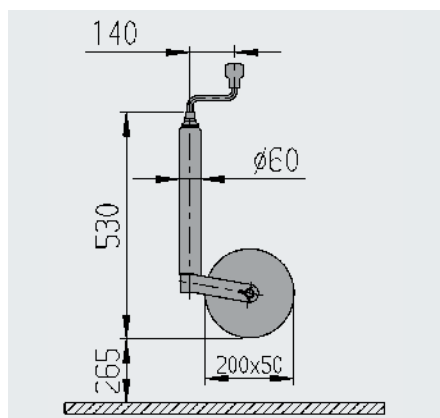
Jockey Wheels with tube Ø 60 mm dia. to 500 kg

Ideal for heavy car trailers

✓ Your Advantage

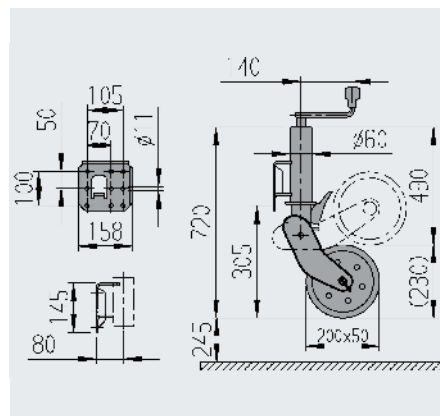
I Operating comfort

The hand crank and foot pedal for these jockey wheels are light and easy to operate in ergonomically favoured heights via a thrust bearing.



Range overview

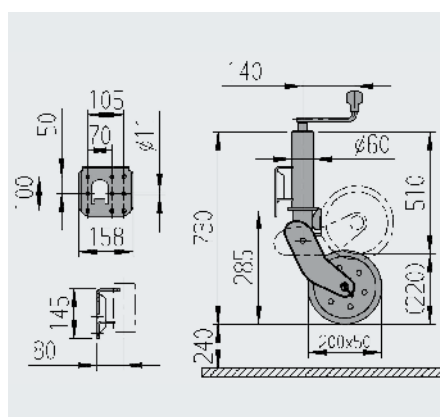
Jockey wheel with fixed fork	
Part No.	243 888
Static load bearing cap.	max. 500 kg
Dyn. load bearing cap.	max. 300 kg
Finish	hot dip galvanised
Wheel rim	Steel
Solid rubber wheel	200 x 50
Wheel bearing	friction bearing
	8 kg
	75 pcs



Jockey wheel with semi-automatic shoe	
Part No.	242 061
Static load bearing cap.	max. 500 kg
Dyn. load bearing cap.	max. 300 kg
Finish	hot dip galvanised
Wheel rim	Steel
Solid rubber wheel	200 x 50
Wheel bearing	friction bearing
	10 kg
	60 pcs



not accident prevention regulation approved



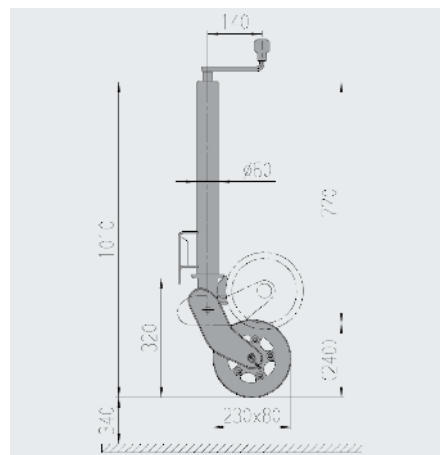
Jockey wheel with fully automatic shoe	
Part No.	1 212 382
Static load bearing cap.	max. 500 kg
Dyn. load bearing cap.	max. 300 kg
Finish	hot dip galvanised
Wheel rim	Steel
Solid rubber wheel	200 x 50
Wheel bearing	friction bearing
	9,8 kg
	50 pcs

✓ Your Advantage

- Long version for extended operating range
- Jockey wheel flange welded deeply this means more free swinging space during raising up



- Broad and modern grooved wheel 230x80mm small contact area on hard base surfaces large surface area on soft base surfaces



- Grease nipple included

Range Overview

Jockey wheel fully automatic with flange, extended	
Part No.	1 223 638
Static load bearing cap.	max. 500 kg
Dyn. load bearing cap.	max. 300 kg
Finish	hot dip galvanised
Wheel rim	Steel
Solid rubber wheel	230 x 80
Wheel bearing	friction bearing
	12 kg
	50 pcs

Manoeuvring handle for Jockey Wheel

✓ Your Advantage

- Can be retrofitted to all Ø 48 mm jockey wheels

Manoeuvring aid

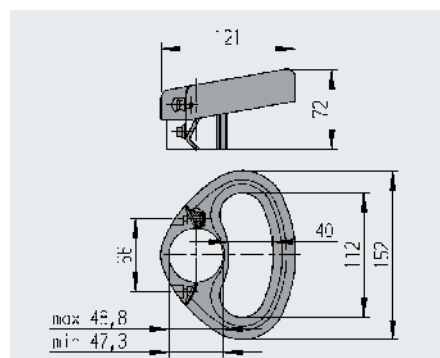
The solid handle is ideal for manoeuvring trailers and caravans.

Safeguard

The manoeuvring handle prevents the jockey wheel to fall out of the clamp in case the clamp handle is not fixed properly.

Contents

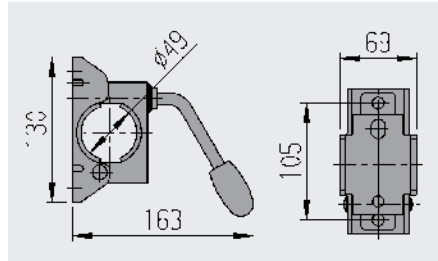
Manoeuvring handle and fixings suitable for jockey wheels and operating instructions, packed.



Range Overview

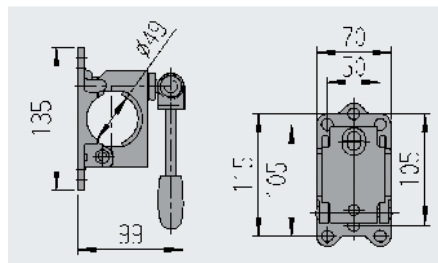
Manoeuvring handle for Jockey Wheel Ø 48	
Part No.	1 210 182
Finish	Plastic red RAL 3003
	0,2 kg
	Part No. 1 210 867 (contents 20 pcs)

Jockey Wheel Clamps

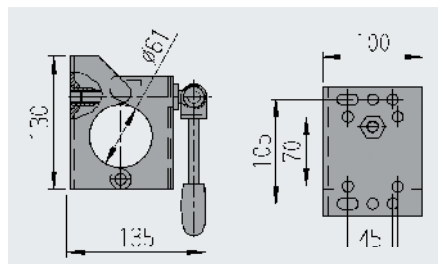
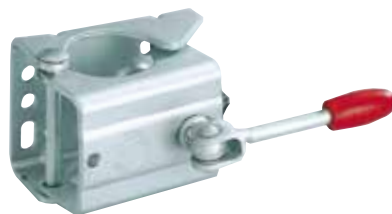


Range Overview

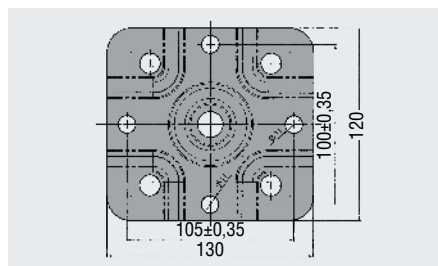
Clamp Ø 48 fixed T-handle	
Part No.	205 318 10
Static load bearing cap.	max. 200 kg
Finish	hot dip galvanised
	0,8 kg
	300 pcs



Clamp Ø 48 folding T-handle	
Part No.	249 804
Static load bearing cap.	max. 300 kg
Finish	hot dip galvanised
	1,0 kg
	125 pcs



Clamp Ø 60 folding T-handle	
Part No.	249 859
Static load bearing cap.	max. 500 kg
Finish	hot dip galvanised
	2,0 kg
	125 pcs



Clamp Ø 48 swivelling	
Part No.	1 335 092
Static load bearing cap.	max. 300 kg
Finish	hot dip galvanised
	2,42 kg
	50 pcs

The jockey wheel can be swivelled by 90° parallel to the drawbar

Jockey Wheels 800 – 1500 kg

Safety standard for HGV and agricultural trailers

✓ **Your Advantage**

Stable construction with thick steel tubing, rolled spindles, compression ball bearing, wheels with plastic bearings.

🔧 **Fitting**

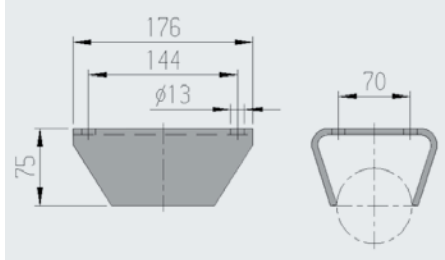
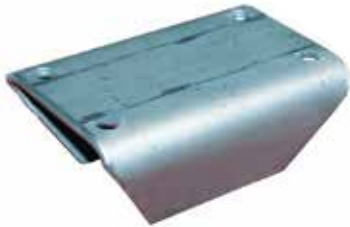
Function

Semiautomatic support wheel



(semi-automatic support wheels are not subject to accident prevention guidelines). When raised a spindle guides the inner tube with the support shoe and wheel into the outer tube in accordance with the adjustable stroke. The user then needs to connect the wheel with the support shoe.

Tip

The load bearing capacities quoted on the market are often static load bearing capacities. Please bear in mind that the load bearing capacity can be reduced by up to 40 % lower during shunting (dynamic load bearing capacity).

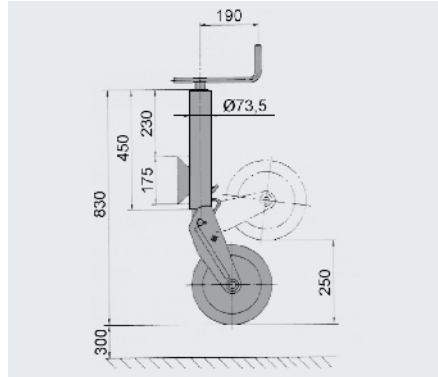
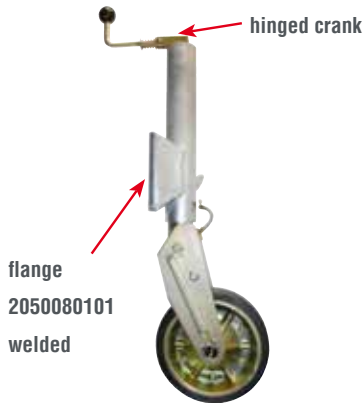


Range Overview

Jockey wheel flange Ø 70	
Part No.	1 224 014
Static load bearing cap.	max. 1500 kg
Finish	primed
	1,7 kg
	100 pcs

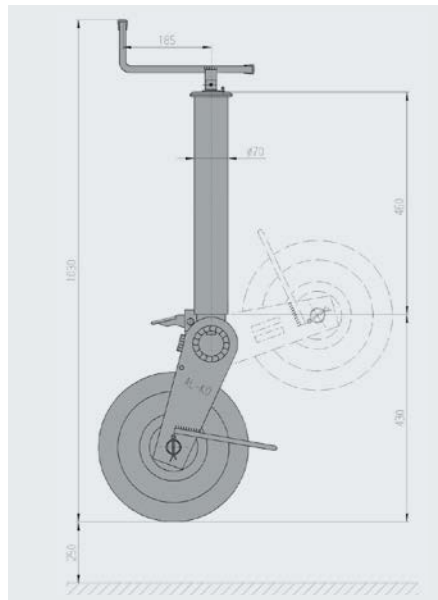
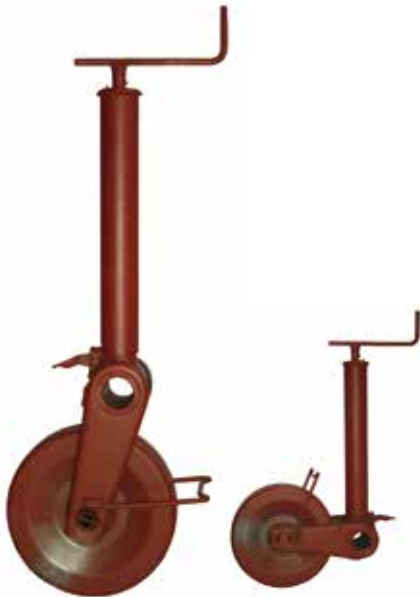
Jockey Wheel PROFI 800 – 1.500 kg

For lorry- and agricultural trailers

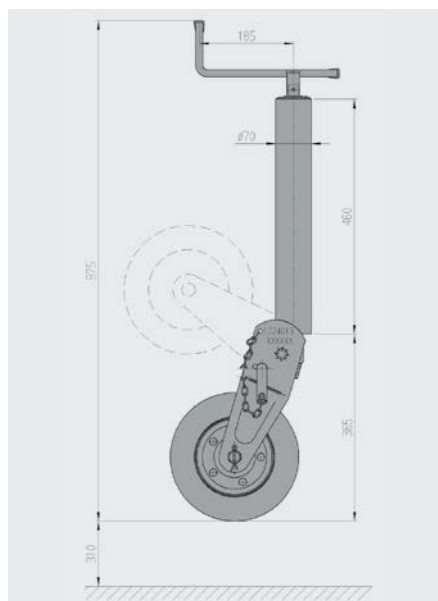


Range overview

Jockey wheel semi automatic fork	
Part No.	1 250 408
Static load bearing cap.	max. 800 kg
Finish	hot dip galvanised
Wheel rim	Steel
Solid rubber wheel	260 x 65
Wheel bearing	friction bearing
	15 kg
	30 pcs



Jockey wheel semi automatic fork	
Part No.	1 224 012
Static load bearing cap.	max. 1500 kg
Finish	primed
Steel wheel	310 x 90
Wheel bearing	friction bearing
	25 kg
	20 pcs



Jockey wheel semi automatic fork	
Part No.	1 224 013
Static load bearing cap.	max. 1200 kg
Finish	primed
Solid rubber wheel	250 x 80
Wheel bearing	friction bearing
	17,7 kg
	25 pcs

Prop Stands 200 – 400 kg

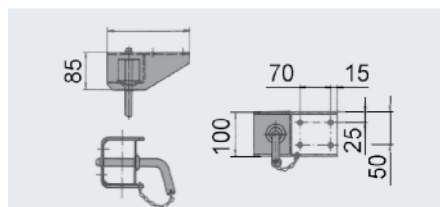
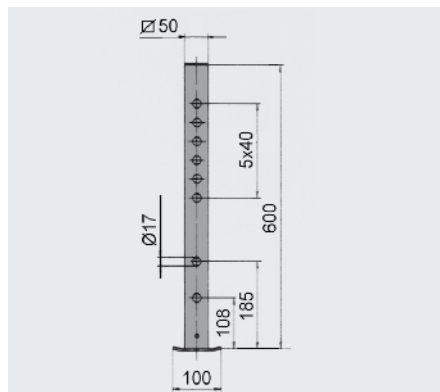
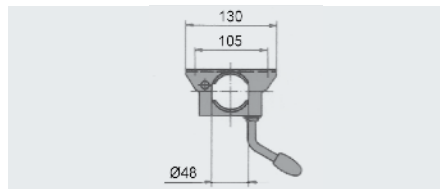
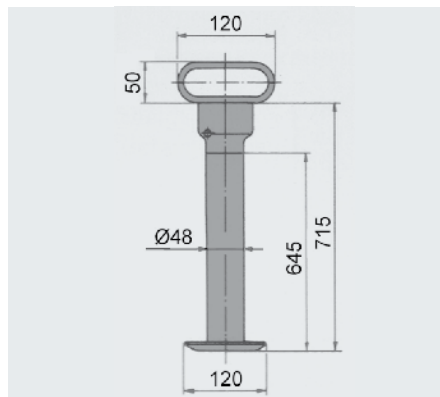
Varied opportunities for use

✓ Your Advantage

- AL-KO prop stands have been doing their job successfully for over 50 years for all applications that need to be lifted, secured or stabilised.
- AL-KO prop stands have a proven record for providing strong walled steel tubes, rolled spindles and thrust ball bearings ensures that they

are extremely solid and function securely.

- These prop stands have many and varied uses e.g. to improve the stability for lifting platforms, lighting towers, forest huts, compressors, generators and car trailers.



📦 Contents

- Prop stands loose
- Clamps loose

Range Overview

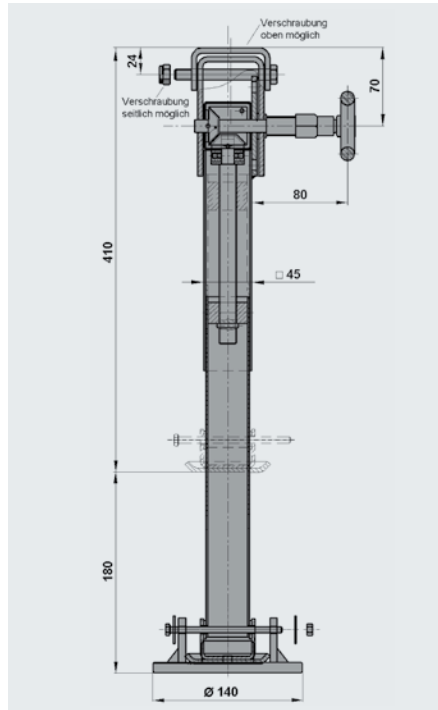
Prop stand rigid Ø 48	
Part No.	205 617
Static load bearing cap.	max. 200 kg
Finish	hot dip galvanised
	4,0 kg
	225 pcs

Clamp Ø 48 with fixed T-handle	
Part No.	205 318 10
Static load bearing cap.	max. 200 kg
Finish	hot dip galvanised
	0,8 kg
	300 pcs

Prop stand rigid □	
Part No.	205 702
Static load bearing cap.	max. 400 kg
Finish	hot dip galvanised
	3,0 kg
	150 pcs


Clamp □ 50	
Part No.	205 701
Static load bearing cap.	max. 400 kg
Finish	hot dip galvanised
	2,0 kg
	300 pcs

Pivoted Prop Stands 500 kg



Range Overview

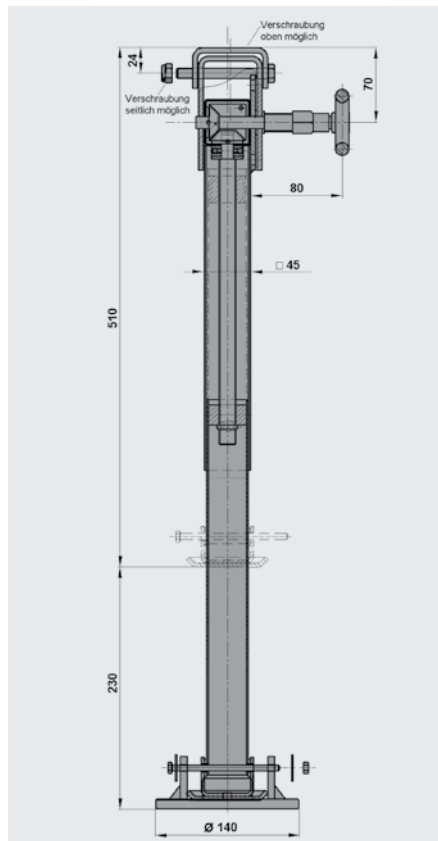
45 can be pivoted to the side (6 x 30° pattern)

Part No.	1 224 068
Static load bearing	max. 500 kg
Surface treatment	galvanised
	5,0 kg

Possible uses:

Bottom installation high loader:
required clearance
450 - 500 mm

Low loader external side:
can be attached with two M10 screws
(borehole separation 80 mm) on the side
or on top



45 can be pivoted to the side (6 x 30° pattern)

Part No.	1 224 069
Static load bearing	max. 500 kg
Surface treatment	galvanised
	5,4 kg

Possible uses:

Bottom installation high loader:
required clearance
550 - 650 mm

Low loader external side:
can be attached with two M10 screws
(borehole separation 80 mm) on the side
or on top



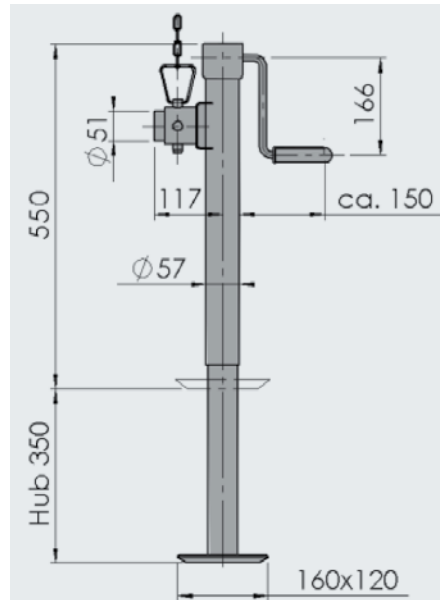
Telescopic Prop Stands

round and square – up to 1.000 kg

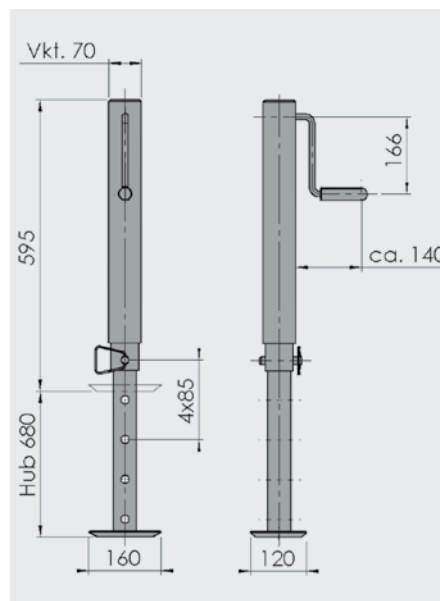
AL-KO

QUALITY FOR LIFE

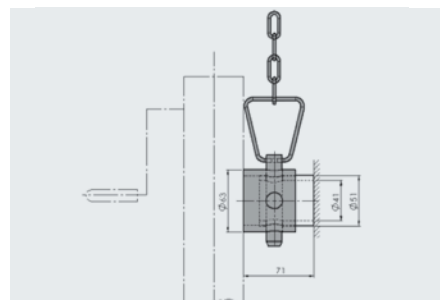
Range Overview



Support foot spindle 57 Ø can be pivoted 90° to the side	
Part No.	1 223 190
Static load bearing	max. 1000 kg
Surface treatment	galvanised
	7,6 kg
	50 pcs

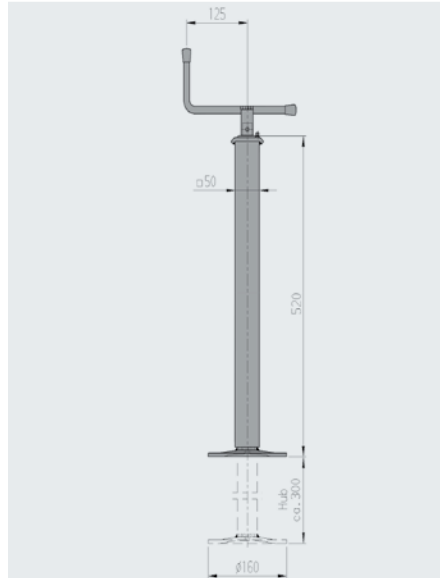


Support foot spindle □ 70	
Part No.	1 223 191
Static load bearing	max. 1000 kg
Surface treatment	galvanised
	12 kg
	40 pcs



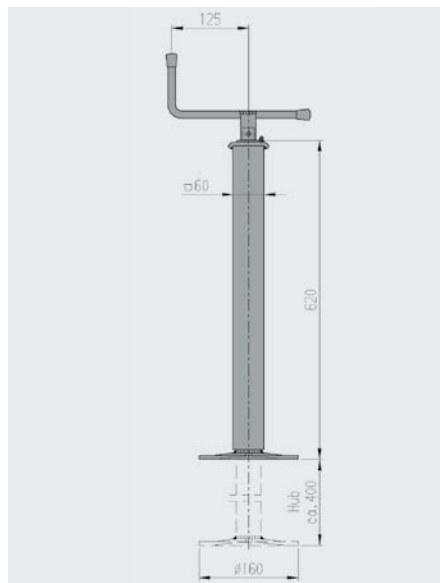
Support foot attachment construction set □ 70 can be pivoted 90° to the side	
Part No.	1 223 192
Static load bearing	max. 1200 kg
Surface treatment	galvanised
	0,9 kg
	40 pcs

Prop stand spindles 400 kg – 800 kg

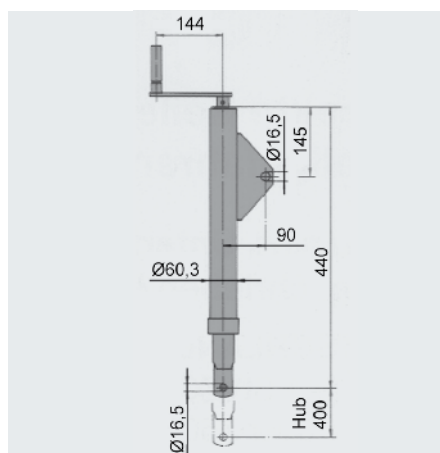


Range Overview

Support foot spindle 50 <input type="checkbox"/>	
Part No.	1 224 015
Static load bearing	max. 500 kg
Surface treatment	Primed
	6,5 kg
	40 pcs



Support foot spindle 70 <input type="checkbox"/>	
Part No.	1 224 016
Static load bearing	max. 800 kg
Surface treatment	Primed
	9,1 kg
	40 pcs





Support foot spindle Ø 60.3 to support chutes on concrete mixers	
Part No.	205 807
Static load bearing	max. 400 kg
Surface treatment	Primed
	8,0 kg
	50 pcs



Side fastener and hook

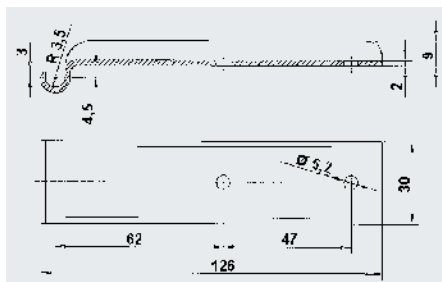
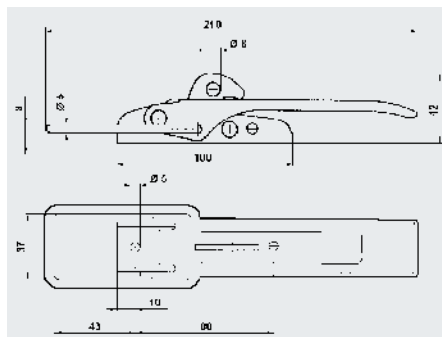
AL-KO

QUALITY FOR LIFE

Range Overview

Side fastener	
Part No.	1 223 610
Material	Metal
Surface treatment	galvanised
	0,253 kg
	60 pcs

Hook for side fastener	
Part No.	1 223 611
Material	Metal
Surface treatment	galvanised
	0,079 kg
	240 pcs



Stowage box for car trailers

Tidy and safe

✓ Your advantage

- ! Lashing straps, gloves, tools etc. are stowed safely on the trailer and are easily accessible
- ! Lockable
- ! Spray-proof
- ! Box load capacity 25 kg
- ! Cover on the side, larger interior and opening provide enough space for current batteries

! Operation

Can be attached to the side or front of the vehicle in a variety of ways, but can also be attached to the bottom of the high loader. Holes may only be drilled at the reinforcement ribs. We recommend that you attach it with four screws (see mounting instructions – included in delivery). Please choose the right kind of screws to suit the attachment method you decide on.

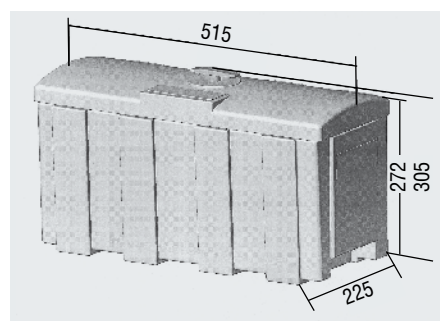
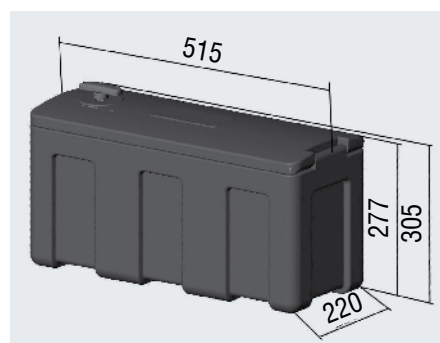
📦 Contents

Complete stow box (see diagram) with fitting guide, two keys, no fastening material



🖨 Surface treatment


Black plastic

📷 Attachment example



Range Overview

Stowage box for car trailers hinge sideways	
Part No.	1 224 324
Max. load	25 kg suspended
External dimension	515 x 220 x 277 mm
Height with rotation	305 mm
Internal dimension	457 x 185 x 232 mm
Large opening	457 x 185 mm
 	3,5 kg / 20 piece

Stowage box for car trailers hinge at back	
Part No.	1 211 807
Max. load	20 kg suspended
External dimension	515 x 225 x 272 mm
Height with rotation	305 mm
Internal dimension	445 x 145 x 220 mm
	3,2 kg / 20 piece

Side-lift jack

AL-KO

QUALITY FOR LIFE

✓ Your advantage

I Supplied as standard upon request **or retrofittable** for mobile homes with AL-KO chassis built since 1980.

I Lifting

The AL-KO jack can be used to lift up the mobile home (leave it coupled to the towing vehicle).

I Connector system

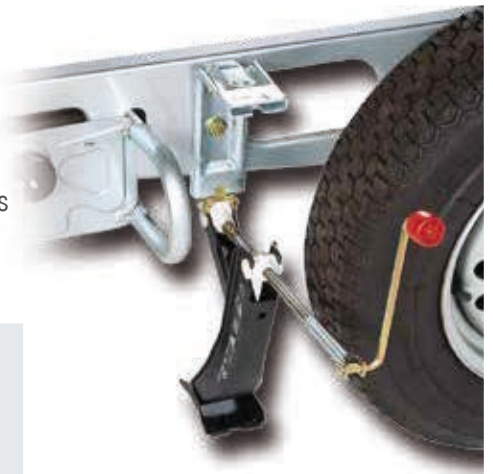
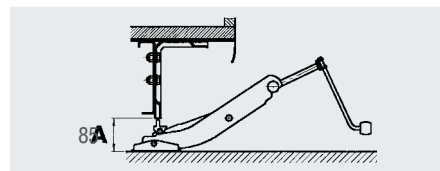
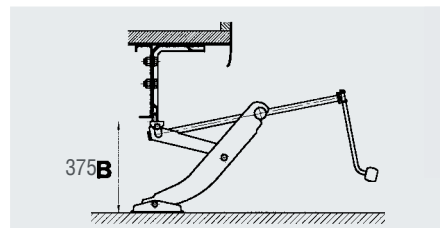
Our special connector system prevents slipping (leave it coupled to the towing vehicle). Special pockets reinforce the frame and support the base of the caravan.

I Operation

Leave the towing vehicle attached – insert the hydraulic jack into the slot, align it as needed, and crank it up.

🔧 Fitting



Most mobile homes with an AL-KO Instruction manual chassis built since 1991 already come with the necessary mounting holes. For all other vehicles built since 1980 you may drill the holes yourself in line with the instruction manual.



Construction kit 800 kg – retrofitting

- 1 two-part plastic box
- 1 jack
- 2 insert slots
- 1 set screws
- 1 instruction manual



Range Overview

Jack construction kit 800 kg	
Part No. with box	246 059
Part No. without box	246 157
Static load bearing	800 kg
suitable for trailers up to maximum total	1600 kg
Starting height	85 mm
Lifting height	290 mm
End height	375 mm
	2,9 kg
	50 piece



Construction kit 1000 kg – original equipment and retrofit

- 1 jack
- 2 insert slots
- 2 support angles
- 1 set screws
- 1 instruction manual

Jack construction kit 1000 kg	
Part No. without box with attachments	1 222 530
Static load bearing	1000 kg
suitable for trailers up to maximum total	2000 kg
Starting height	85 mm
Lifting height	290 mm
End height	375 mm
	5,5 kg
	50 piece

Spare wheel carrier

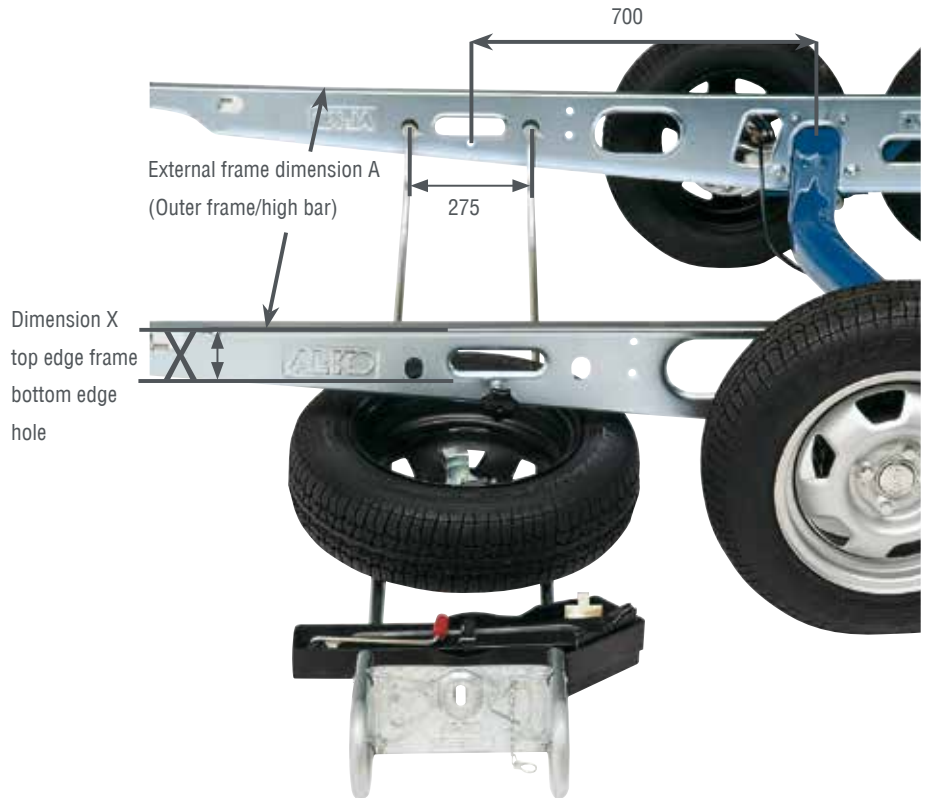
✓ Your advantage

I More space

Storing the spare wheel under the trailer gives you more storage space inside the trailer.

I Handling

We recommend transporting the spare wheel near the axle.

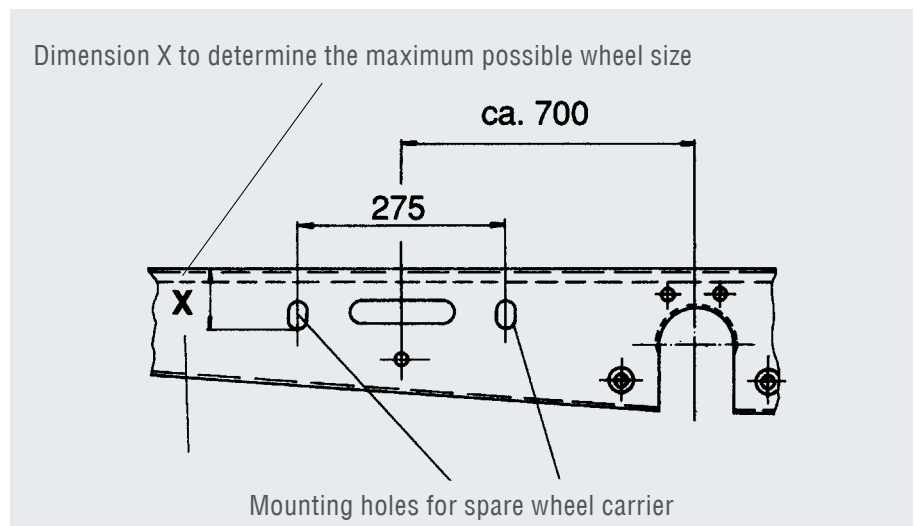


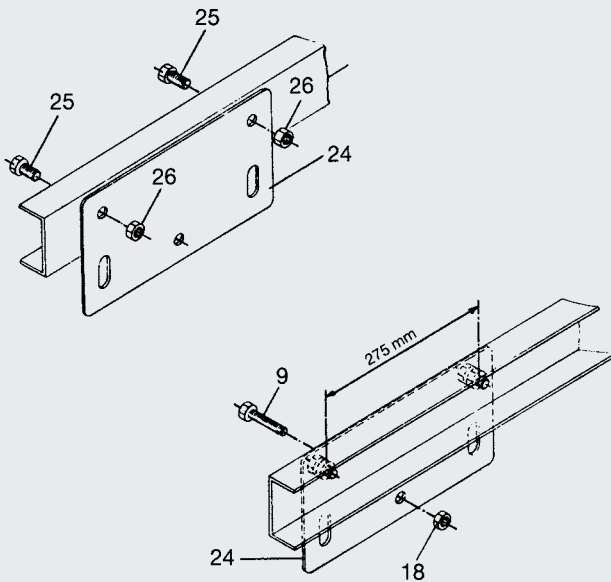
🔧 Fitting

To AL-KO chassis built in 1985 or later. These come with holes as standard. The holes in the end to end frame (dimension X) used to mount the spare wheel holder are designed to let you fix the appropriate tyres for this vehicle. TÜV inspection and approval is not needed for AL-KO chassis with the proper holes.

I Operation

Remove safety chain, open and remove star grip. Hold the spare wheel holder with both hands and pull it out until you find it easy to access the spare wheel. If there is not enough space between the frame and the ground, lift the caravan with the jack.





Fitting instructions:

The distance between the fastening plate and the axle should be around 700 mm (illustration). Two holes \varnothing 12.5 mm are drilled 275 mm apart in both frame parts. The holes must be made in the middle of the bar (neutral zone). The two fastening plates (24) are attached using two hexagon screws (25)

M12x 25 and hexagon nuts (26) M12. The locking screw (9) is attached to the right holding plate with the hexagonal nut (18). The locking screw (9) and hexagonal nut (18) are included in the spare wheel holder kit.

Retrofit accessory set EH2

Part No. 294 284 consists of:

- 2 holding boards (24) Part No. 209.499
- 4 hexagonal screws (25) Part No. 700.460
- 4 hexagonal nuts (26) Part No. 700.645

What tyres can I use?

Minimum dimensions X	Tyres max for model EH1	Tyres max for model EH1/BR
75 mm	155 R 13	175 R 13, 175 R 14, 175/70 R 14
85 mm	165 R 13	185 R 13, 185 R 14
95 mm	175 R 13, 175 R 14, 175/70 R 14	195 R 13, 195 R 14, 195/70 R 14
105 mm	185 R 14	205/70 R 14, 205/70 R 15
115 mm	195/70 R 14	205/70 R 14, 205/70 R 15
125 mm	205/70 R 14, 205/70 R 15	

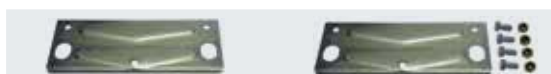
Shipment

- 1 galvanised spare wheel carrier
- 1 screw set
- 1 instruction manual

Range Overview



Part No.	Type	Version	External frame dimension A in mm		
1 555 934	EH1	A	1050 – 1250	49	6,4
1 555 943	EH1	B	1250 – 1550	49	6,8
1 555 955	EH1	C	1450 – 1850	49	7,7
1 556 005	EH1/BR	D	1265 – 1515	49	6,8
1 556 010	EH1/BR	E	1465 – 1815	49	7,7
294 284	Retrofit accessory set EH2			20	1,85



Wheel Chocks and Carriers

✓ Your Advantage

Germany

According to § 41 STVZO trailers over 750 kg gvz and vehicles over 4000 kg require two chocks. The chocks must be safe to handle and have an adequate effect. They must be easy to access and fitted on the vehicle with carriers to ensure they cannot get lost or work loose. The vehicle manufacturer must check the effectiveness of the chocks as per

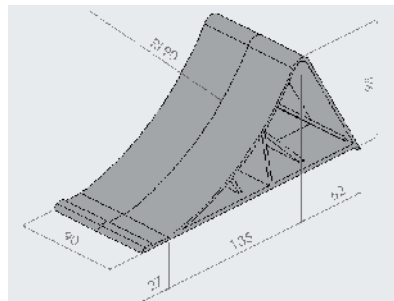
§ 41 STVZO (18 % uphill and downhill unladen and permitted gvz)

The chocks must comply to DIN 76051 Edition 11/92.



Europe

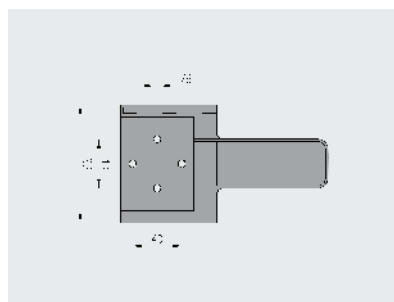
DIN 76051 is recognised in all countries of Europe as a rule. However country specific regulations must be followed.



Wheel Chocks and Carriers

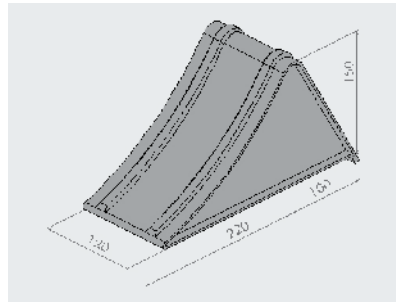


Range Overview

Chock Type UK 10 K	
Part No.	249 422
Material/Finish/Colour	Plastic black
Wheel load per chock max.	800 kg
Static wheel radius max.	to 310 mm
Min. test force on the chock.	10 140 N
	0,2 kg
	500 pcs

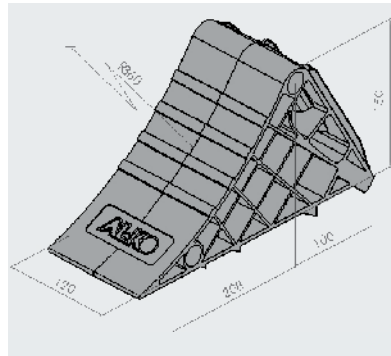


Carrier Type HA 10 K für UK 10	
Part No.	249 423
Material/Finish/Colour	Plastic black
	0,05 kg
	1000 pcs



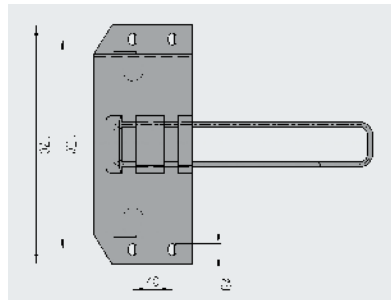
Chock UK 36 St

Part No.	244 373
Material/Finish/Colour	Metal galvanised
Wheel load per chock max.	1600 kg
Static wheel radius max.	to 360 mm
Min. test force on the chock.	20 800 N
	1,25 kg
	210 pcs



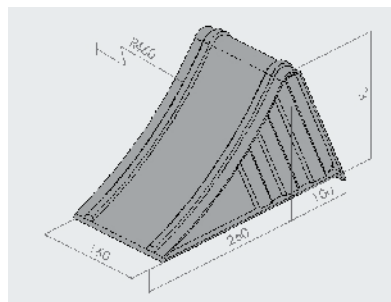
Chock UK 36 K

Part No.	1 213 985
Material/Finish/Colour	Plastic black
Wheel load per chock max.	1600 kg
Static wheel radius max.	to 360 mm
Min. test force on the chock.	20 800 N
	1 kg
	210 pcs



Carrier Type HA 36 St for UK 36 Metal and Plastic

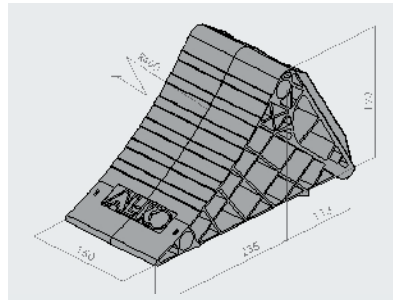
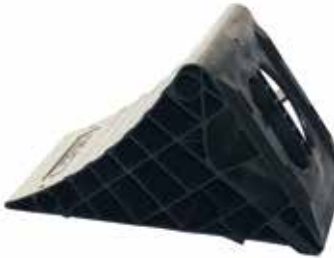
Part No.	244 376
Material/Finish/Colour	Metal galvanised
	0,50 kg
	448 pcs



Chock UK 46 St

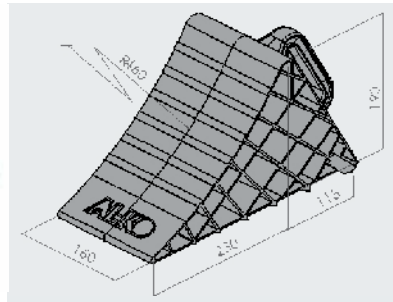
Part No.	244 374
Material/Finish/Colour	Metal galvanised
Wheel load per chock max.	5000 kg
Static wheel radius max.	to 460 mm
Min. test force on the chock.	65 000 N
	3,05 kg
	110 pcs

Wheel Chocks and Carriers



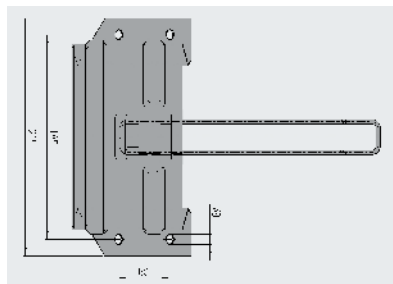
Chock UK 46 K

Part No.	1 221 517
Material/Finish/Colour	Plastic black
Wheel load per chock max.	5000 kg
Static wheel radius max.	to 460 mm
Min. test force on the chock.	65 000 N
	1,92 kg
	110 pcs



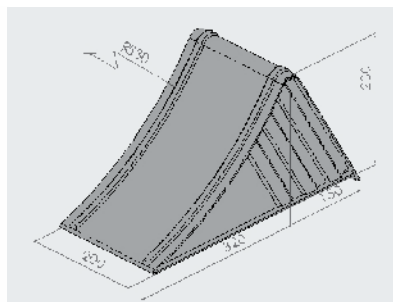
Chock UK 46 K with handle

Part No.	1 213 314
Material/Finish/Colour	Plastic black
Wheel load per chock max.	5000 kg
Static wheel radius max.	to 460 mm
Min. test force on the chock.	65 000 N
	1,85 kg
	110 pcs



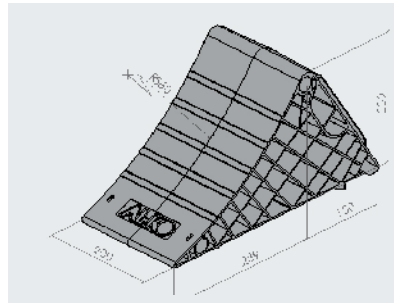
Carrier Type HA 46 St für UK 46

Part No.	244 377
Material/Finish/Colour	Metal galvanised
	0,80 kg
	360 pcs



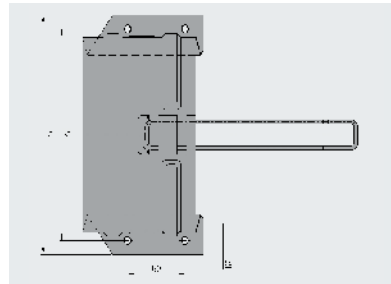
Chock UK 53 St

Part No.	244 375
Material/Finish/Colour	Metal galvanised
Wheel load per chock max.	6500 kg
Static wheel radius max.	to 530 mm
Min. test force on the chock.	84 500 N
	5 kg
	60 pcs



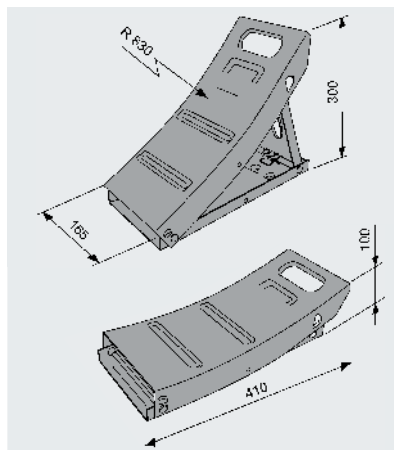
Chock UK 53 K

Part No.	1 221 515
Material/Finish/Colour	Plastic black
Wheel load per chock max.	6500 kg
Static wheel radius max.	to 530 mm
Min. test force on the chock.	84 500 N
	2,9 kg
	60 pcs



Carrier Type HA 53 St for UK 53 Metal and Plastic

Part No.	244 378
Material/Finish/Colour	Metal galvanised
	1,20 kg
	200 pcs



Chock UK 800 St folding

Part No.	209 425
Material/Finish/Colour	black primed
Wheel load per chock max.	2500 kg
Static wheel radius max.	to 830 mm
	5,0 kg
	100 pcs

PRODUCT LINES / DIFFERENCES / RANGES OF APPLICATION

AL-KO CABLE WINCHES DESIGN UND UTILITY FOR DEMANDING REQUIREMENTS

For 35 years AL-KO cable winches have been proving themselves to be effective helpers in the industrial and leisure sectors. Experiences from over 1.5 million parts sold speak for themselves. The console mounted winches, made of steel with gear drive and plastic cover, are robust and reliable. Smart details such as the weight brake, the automatic unwinder or the removable crank make operation easier and protect the loads to be moved. The unusual design and high quality corrosion protection guarantee comfort, even for long-term usage.

You can choose between the product lines of BASIC for normal usage, e.g. in the leisure sector or the product line OPTIMA "made in Austria" for higher demands e.g. in the industrial sector.

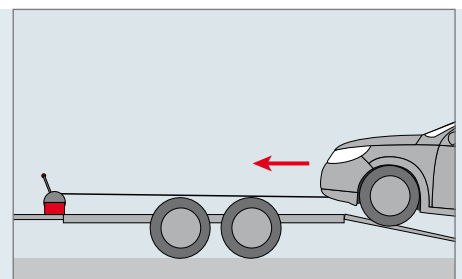
AL-KO cable winches fulfil the requirements of the EG Norm EN 13157, the CE Directive and the Machine Directive

Range of applications Warning! The buyer of the cable winch must check whether the product has the properties that their individual usage requires.
Usage examples Trailer sector: e.g. transport of boats or cars, inclined lifts or floodlights Agricultural sector: e.g. sprayers, slurry pumps In-house transport sector: e.g. hand winch lift trucks Private usage: e.g. pulling trailers against the wall
Special fields of application: Construction hoists, stages, Studios, liftable suspended access equipment
BG inspection available (DGUV test)
Fulfils EG Norm EN 13157
Fulfils the requirements of the CE directive
Fulfils the requirements of the Machinery Directive
Weight brake available
Quality/processing/robustness
Made in
Securing when lifting/pulling
Securing when lowering
Automatic unwinder available for cable or band
Crank quickly removable
Rope drum with plain bearing
Suitable for continuous operation
Corrosion protection
Gear wheel cover
Design
Cable for lifting and towing
Band for towing
Wall mounting possible

APPLICATION EXAMPLES

Boat trailers, car transporters, agricultural sprayer equipment, slurry pumps, mobile inclined lifts, mobile installation stackers, mobile floodlights, hand operated forklifts,

private usage, e.g. pulling the trailer to the ceiling in the garage.





Towing winch unbraked BASIC

Cable winch braked BASIC

Cable winch braked OPTIMA



No, only for towing of a non rolling load

Yes

Yes

No, only for towing of a non rolling load

Yes

Yes

No, only for towing of a non rolling load

Yes

Yes

No, only for towing of a non rolling load

Yes

Yes

Not suitable
This area has additional requirements

Not suitable
This area has additional requirements

Not suitable
This area has additional requirements

No

No

Yes

No

Yes

Yes

No

Yes

Yes

No

Yes

Yes

No

Yes

Yes

Basic, e.g. private usage

Basic, e.g. private usage

Professional, e.g. usage in industry

Far East

Far East

Austria

Yes, catch locks in

Yes, weight brake, observe minimum load

Yes, weight brake, observe minimum load

No, no securing available

Yes, weight brake, observe minimum load

Yes, weight brake, observe minimum load

Yes, optionally possible, see range

Yes, optionally possible, see range

Yes, optionally possible, see range

Yes, optionally possible, see range

Yes, optionally possible, see range

Yes, optionally possible, see range

No

No

Yes

No

No

No

approx. 200 hour salt spray test
electro galvanized, yellow chromate

approx. 200 hour salt spray test
electro galvanized, yellow chromate

approx. 400 hour salt spray test
Zinc-nickel coating, Cr 6 free

No

Yes, optionally possible, see range

Yes

Classic

Classic

Modern

Yes, not mounted as an accessory, available

Yes, not mounted as an accessory, available

Yes, variant with cable mounted can be ordered

Yes, variant with mounted band can be ordered

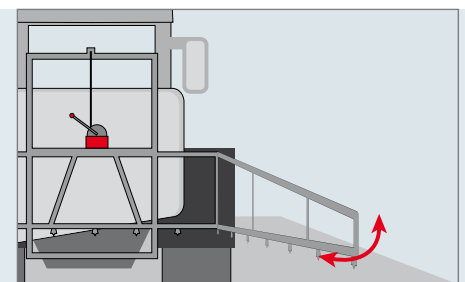
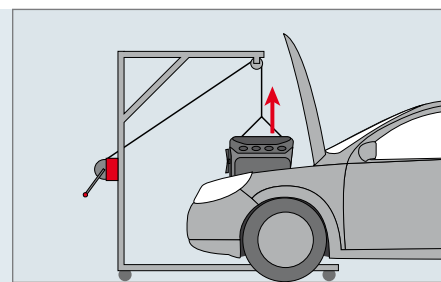
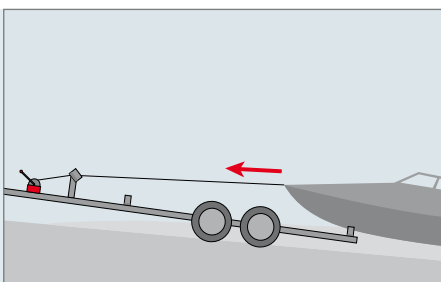
Yes, variant with mounted band can be ordered

Yes, variant with mounted band can be ordered

No. Winch has no weight brake

Yes, however a console for wall mounting
is necessary (accessory)

Yes, however a console for wall mounting
is necessary (accessory)

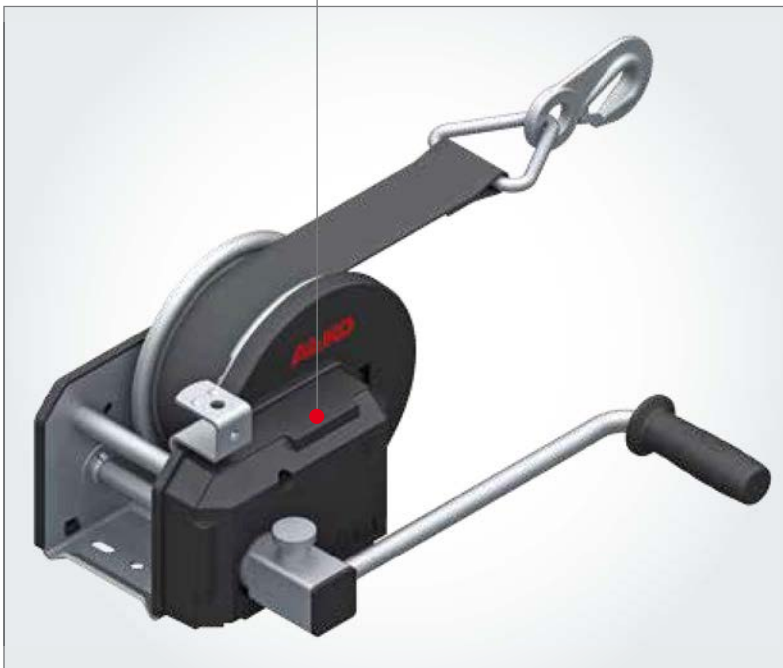


CABLE WINCH OPTIMA

With automatic weight brake

WEIGHT BRAKE

Automatic



BENEFITS TO YOU

- | Modern design
- | High quality corrosion protection
- | Automatic weight brake
- | Cable drum with plain bearing
- | Automatic unwinder for rope or band (optional)
- | Removable crank (optional)
- | Plastic gear cover
- | Range:
 - | 350 / 500 / 900 / 1150 kg

SURFACE TREATMENT

High quality zinc-nickel coating approx.
400 hour salt spray test



tested



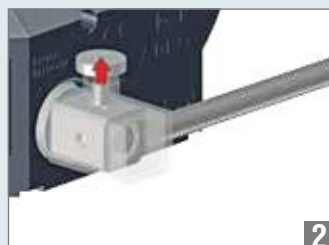
tested

CABLE WINCH OPERATION

- Lifting: Turn the hand crank in a clockwise direction
Stopping: Let go of the hand crank in the desired position (automatic weight brake)
Lowering: Turn the hand crank in a counter-clockwise direction

AUTOMATIC UNWINDER OPERATION

- 1 Turn hand crank in a clockwise direction for one rotation, this will cause the weight brake to be deactivated
- 2 Pull up locking sleeve
- 3 Remove crank
- 4 The band or cable can now be removed





CABLE WINCHES OPTIMA – 350 KG

AL-KO

QUALITY FOR LIFE



Cable winch braked OPTIMA – type 351

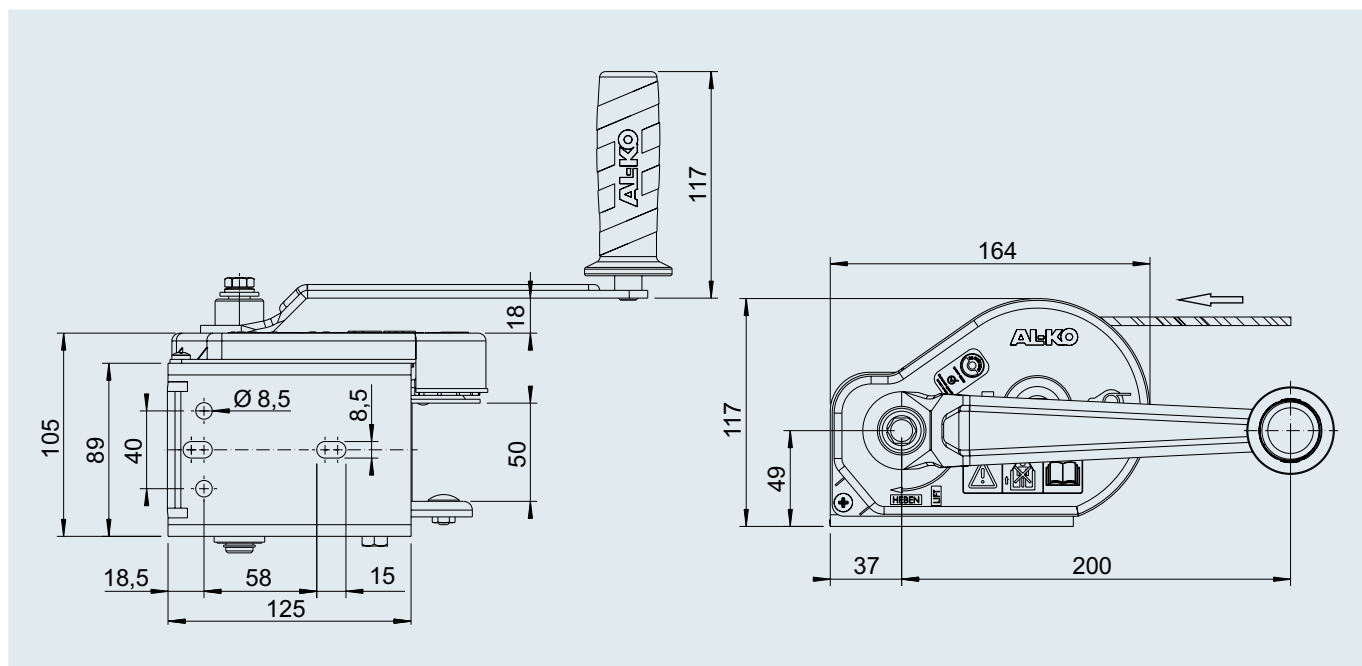
Tensile load max. lowest cable position	350 kg
Manual force	200 N
Minimum load	25 kg
Reduction	2.50 : 1
Lift per crank revolution	from 53–100 mm
Drum capacity for 4 mm Ø cable	15 m
Drum capacity for towing band	4 m
 	- 120 units

Order no. without cable/band	1 225 998
Weight	2.0 kg

Order no. with 10 m cable for lifting mounted	1 225 999
Weight	3.0 kg

Order no. with 15 m cable for lifting mounted	1 730 001
Weight	3.5 kg



Order no. with 4 m band for towing mounted	1 730 002
Weight	2.5 kg



CABLE WINCHES OPTIMA – 500 KG



Cable winch braked OPTIMA – type 501

Tensile load max. lowest cable position	500 kg
Manual force	200 N
Minimum load	25 kg
Reduction	3.75 : 1
Lift per crank revolution	from 45–100 mm
Drum capacity for 5 mm Ø cable	20 m
Drum capacity for towing band	7 m
 	- 64 units

Order no. without cable/band 1 730 003

Weight 4.0 kg

Order no. with 10 m cable for lifting mounted 1 730 004

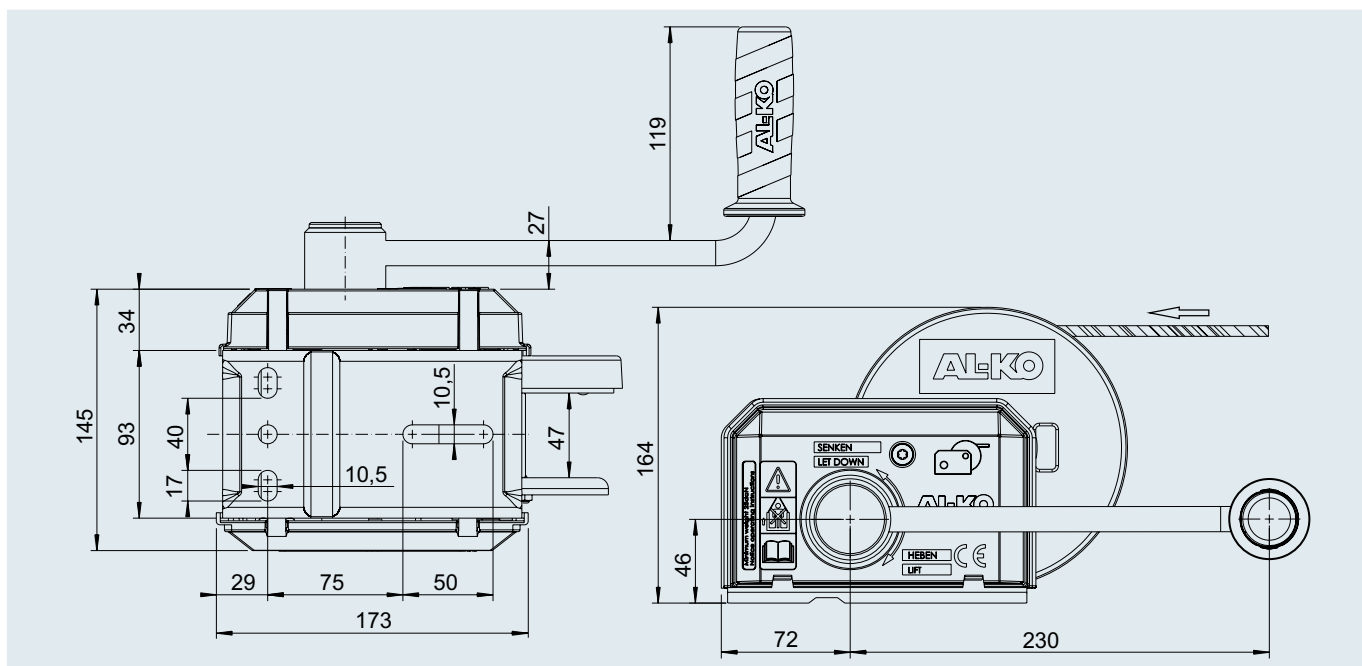
Weight 5.0 kg

Order no. with 20 m cable for lifting mounted 1 730 005

Weight 6.0 kg

Order no. with 7 m band for towing mounted 1 730 006

Weight 5.0 kg





CABLE WINCHES OPTIMA – 500 KG A

AL-KO

QUALITY FOR LIFE



Cable winch braked OPTIMA – type 501 with automatic unwinder

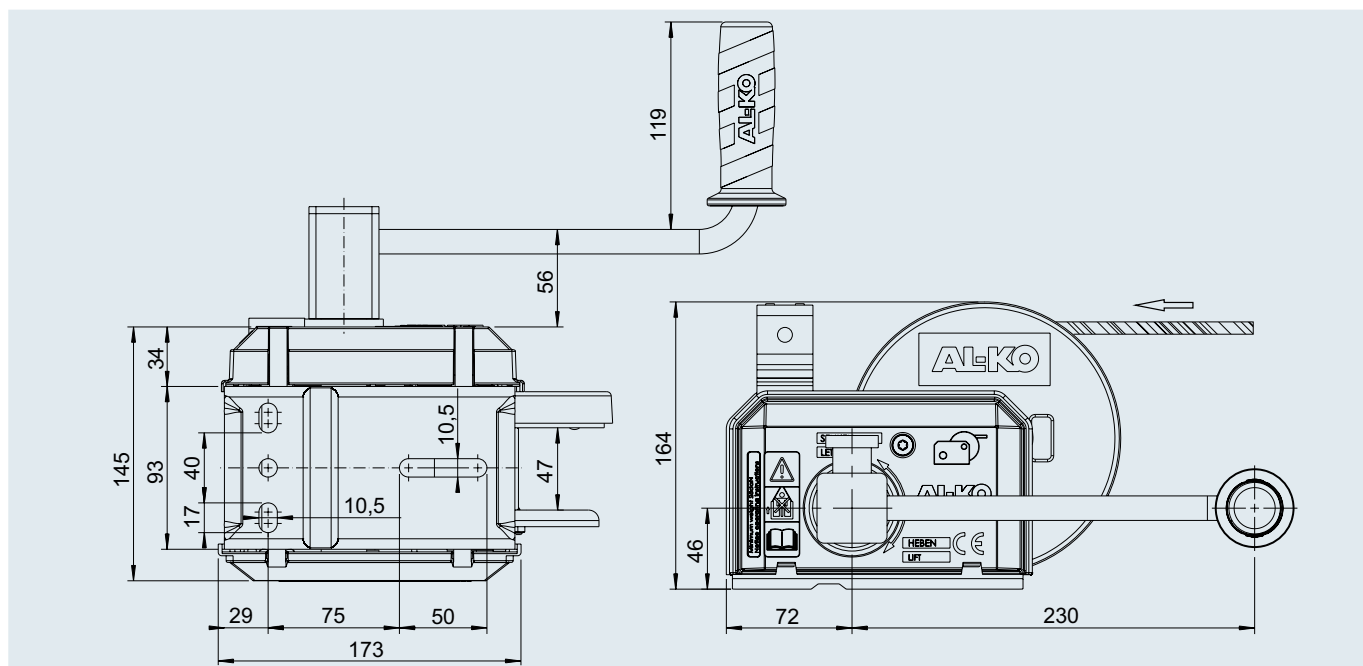
Tensile load max. lowest cable position	500 kg
Manual force	200 N
Minimum load	25 kg
Reduction	3.75 : 1
Lift per crank revolution	from 45–100 mm
Drum capacity for 7 mm Ø cable	20 m
Drum capacity for towing band	7 m
 	- 64 units

Order no. without cable/band	1 730 024
Weight	4.0 kg

Order no. with 10 m cable for lifting mounted	1 730 007
Weight	5.0 kg

Order no. with 20 m cable for lifting mounted	1 730 008
Weight	6.0 kg



Order no. with 7 m band for towing mounted	1 730 009
Weight	5.0 kg



CABLE WINCHES OPTIMA – 900 KG



Cable winch braked OPTIMA – type 901

Tensile load max. lowest cable position	900 kg
Manual force	190 N
Minimum load	25 kg
Reduction	8.75 : 1
Lift per crank revolution	from 25–55 mm
Drum capacity for 7 mm Ø cable	20 m
Drum capacity for towing band	10 m
 	- 39 units

Order no. without cable/band 1 730 010

Weight 7.0 kg

Order no. with 12.5 m cable for lifting mounted 1 730 011

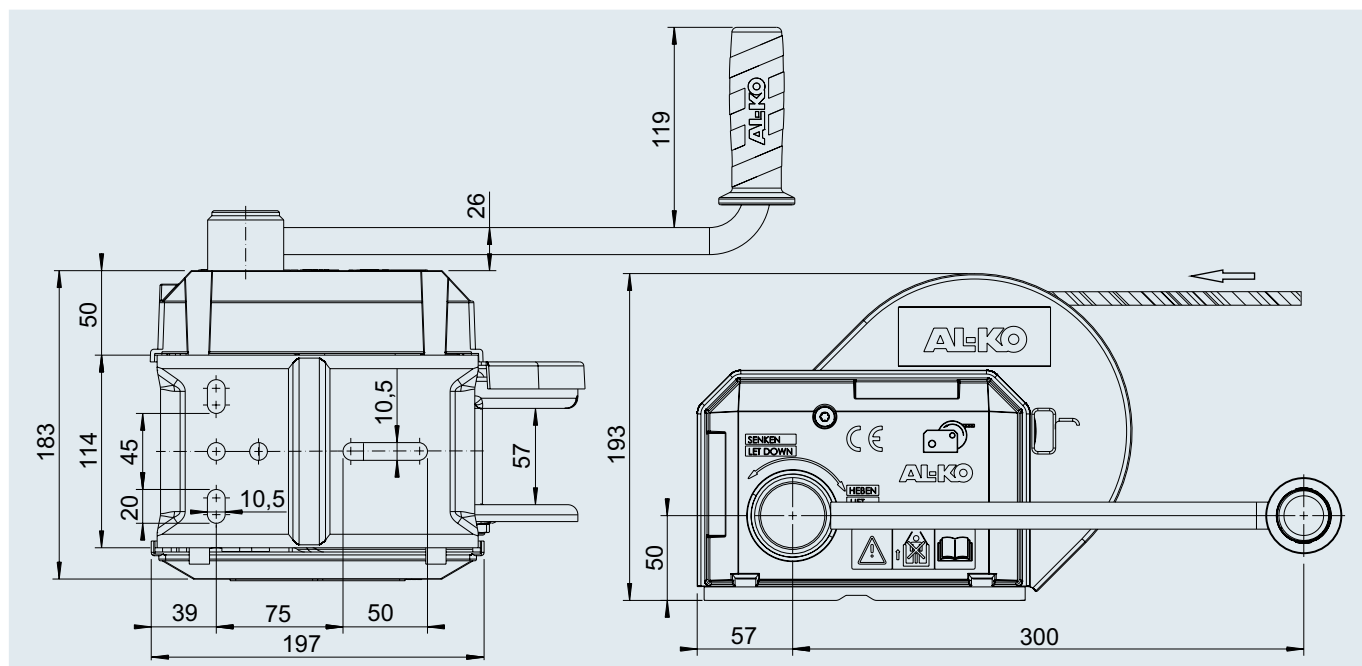
Weight 8.5 kg

Order no. with 20 m cable for lifting mounted 1 730 012

Weight 9.0 kg

Order no. with 10 m band for towing mounted 1 730 013

Weight 8.0 kg





CABLE WINCHES OPTIMA – 900 KG A

AL-KO

QUALITY FOR LIFE

Cable winch braked OPTIMA – type 901 with automatic unwinder

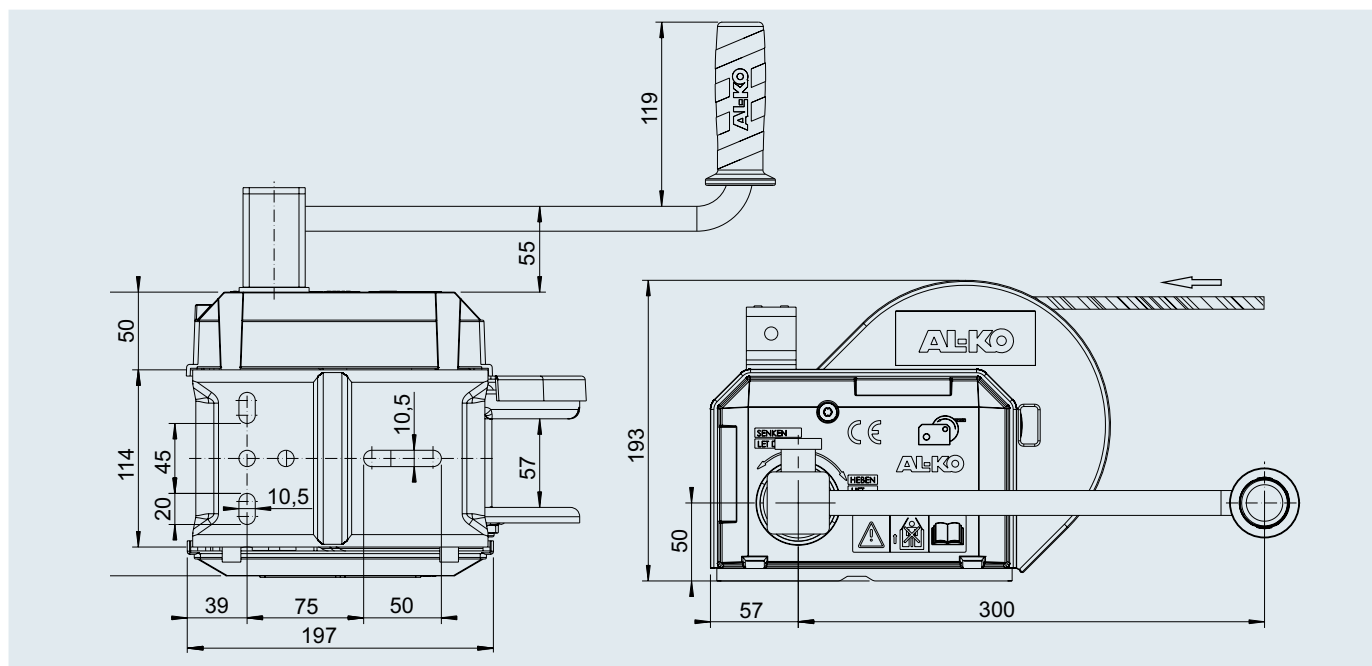
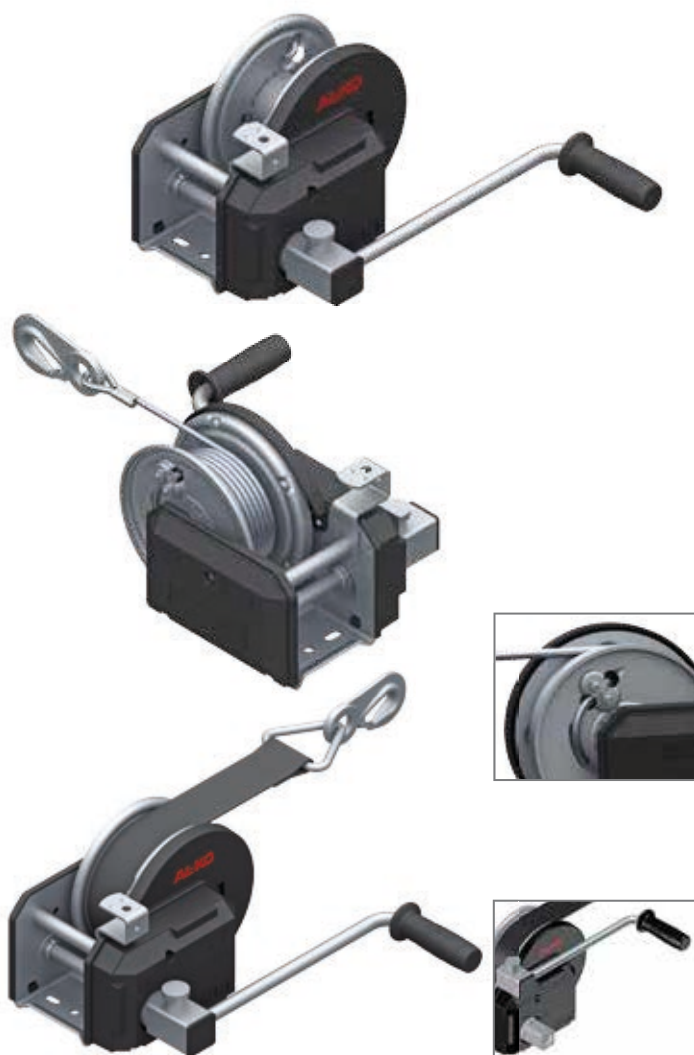
Tensile load max. lowest cable position	900 kg
Manual force	190 N
Minimum load	25 kg
Reduction	8.75 : 1
Lift per crank revolution	from 25–55 mm
Drum capacity for 7 mm Ø cable	20 m
Drum capacity for towing band	10 m
 	- 39 units

Order no. without cable/band	1 730 014
Weight	8.0 kg

Order no. with 12.5 m cable for lifting mounted	1 730 015
Weight	9.5 kg

Order no. with 20 m cable for lifting mounted	1 730 016
Weight	10.0 kg

Order no. with 10 m band for towing mounted	1 730 017
Weight	9.0 kg





Accessories

CABLE WINCHES OPTIMA – 1150 KG A



Cable winch braked OPTIMA – type 1201 with automatic unwinder

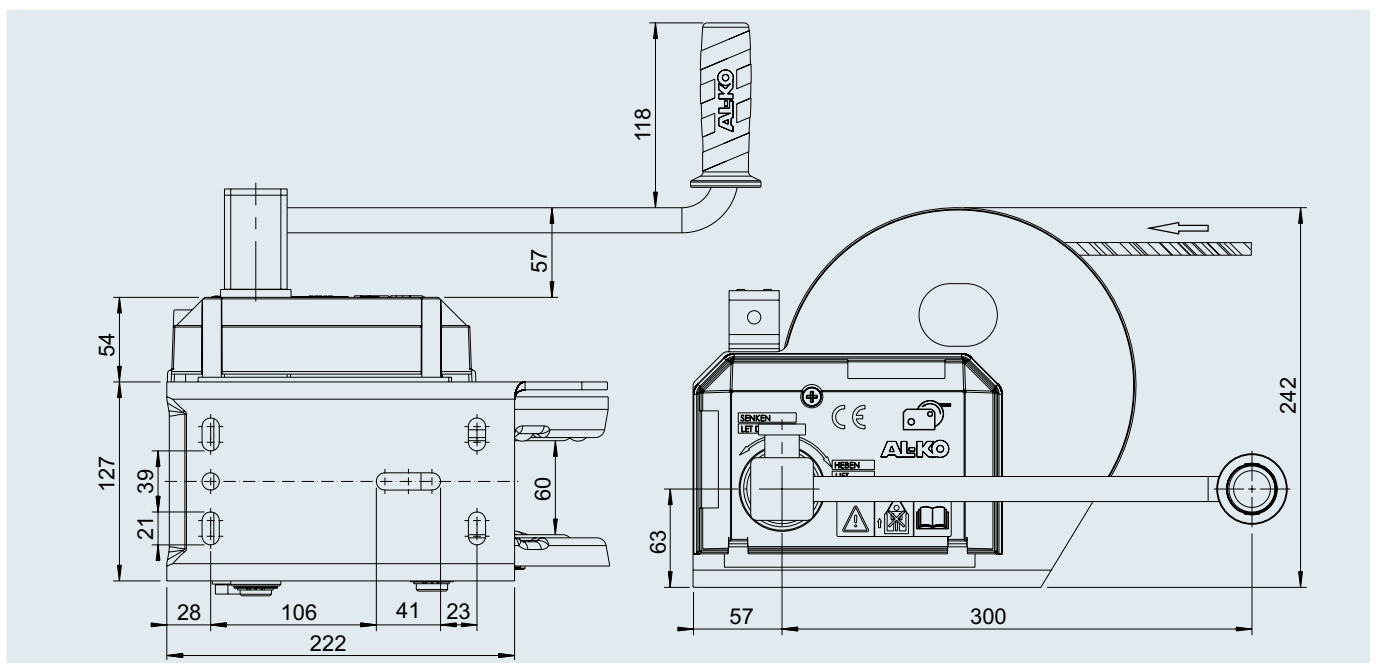
Tensile load max. lowest cable position	1150 kg
Manual force	200 N
Minimum load	25 kg
Reduction	10.5 : 1
Lift per crank revolution	from 23–57 mm
Drum capacity for 7 mm Ø cable	25 m
Drum capacity for towing band	12.5 m
 	- 25 units

Order no. without cable/band	1 730 018
Weight	13 kg

Order no. with 12.5 m cable for lifting mounted	1 730 019
Weight	15 kg

Order no. with 25 m cable for lifting mounted	1 730 020
Weight	17 kg

Order no. with 12.5 m band for towing mounted	1 730 021
Weight	14 kg



CABLE WINCHES BASIC

With automatic weight brake

AL-KO
QUALITY FOR LIFE

BENEFITS TO YOU

- I Automatic weight brake
- I Automatic unwinder for rope or band (optional)
- I Removable crank (optional)
- I Plastic gear cover
- I Range:
 - I 450 and 900 kg
- I Surface treatment:
 - I Electro galvanized and also yellow chromate, approx. 200 hours salt spray test

WEIGHT BRAKE

Automatic



CABLE WINCH OPERATION

- Lifting: Turn the hand crank in a clockwise direction
- Holding: Let go of the hand crank in the desired position (automatic weight brake)
- Lowering: Turn the hand crank in a counter-clockwise direction



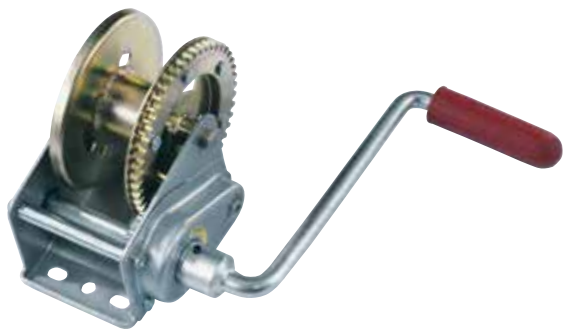
AUTOMATIC UNWINDER OPERATION



- 1 Pull up locking sleeve
- 2 Remove crank
- 3 Press red lever and turn (deactivate weight brake)
- 4 The cable or band can now be removed



CE tested

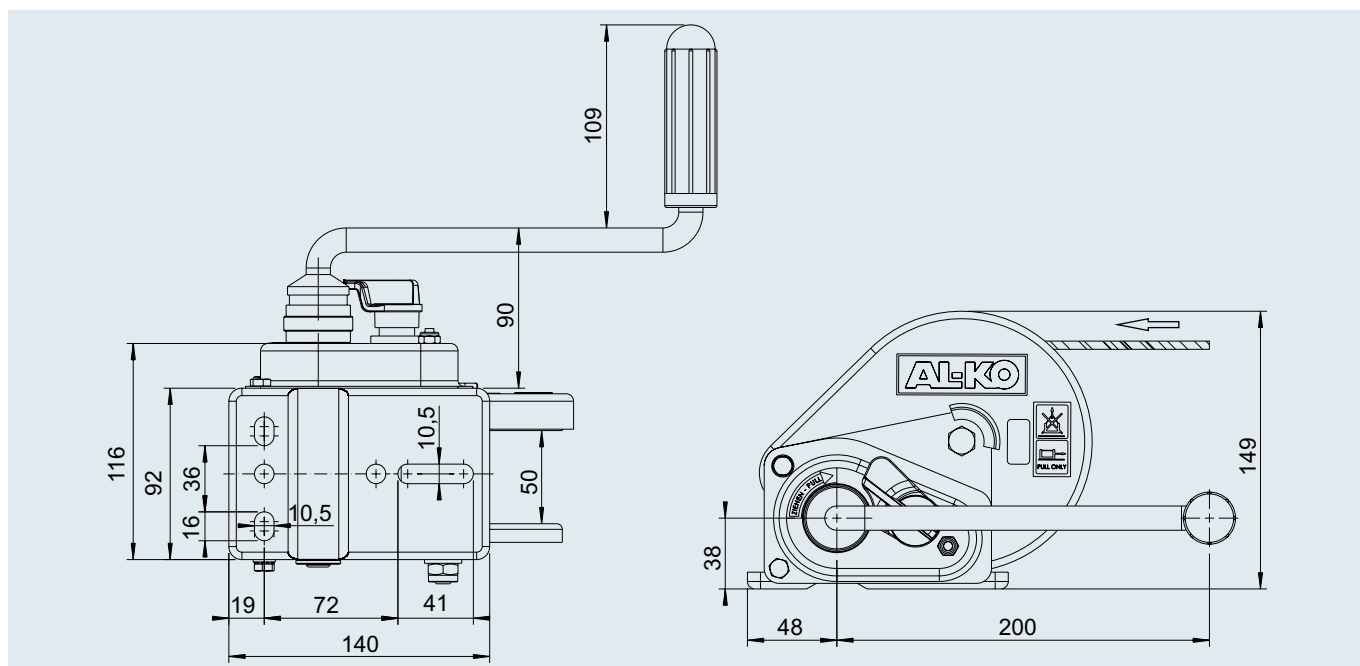


CABLE WINCHES BASIC – 450 KG



Cable winch BASIC – type 450 braked without automatic unwinder	
Order no.	1 210 653
Tensile load max. lowest cable position	450 kg
Manual force	200 N
Minimum load	25 kg
Reduction	3.50 : 1
Lift per crank revolution	from 45–100 mm
Drum capacity for 5 mm Ø cable	15 m
Drum capacity for towing band	6 m
Weight	4 kg
 	- 100 units

Cable winch BASIC – type 450 A braked with automatic unwinder	
Order no. without cable	1 225 298
Order no. with 6 m band for towing	1 225 300
Tensile load max. lowest cable position	450 kg
Manual force	200 N
Minimum load	25 kg
Reduction	3.50 : 1
Lift per crank revolution	from 45–100 mm
Drum capacity for 5 mm Ø cable	15 m
Drum capacity for towing band	6 m
Weight without cable	4 kg
Weight with 6 m band	5 kg
 	- 100 units







CABLE WINCHES BASIC – 900 KG

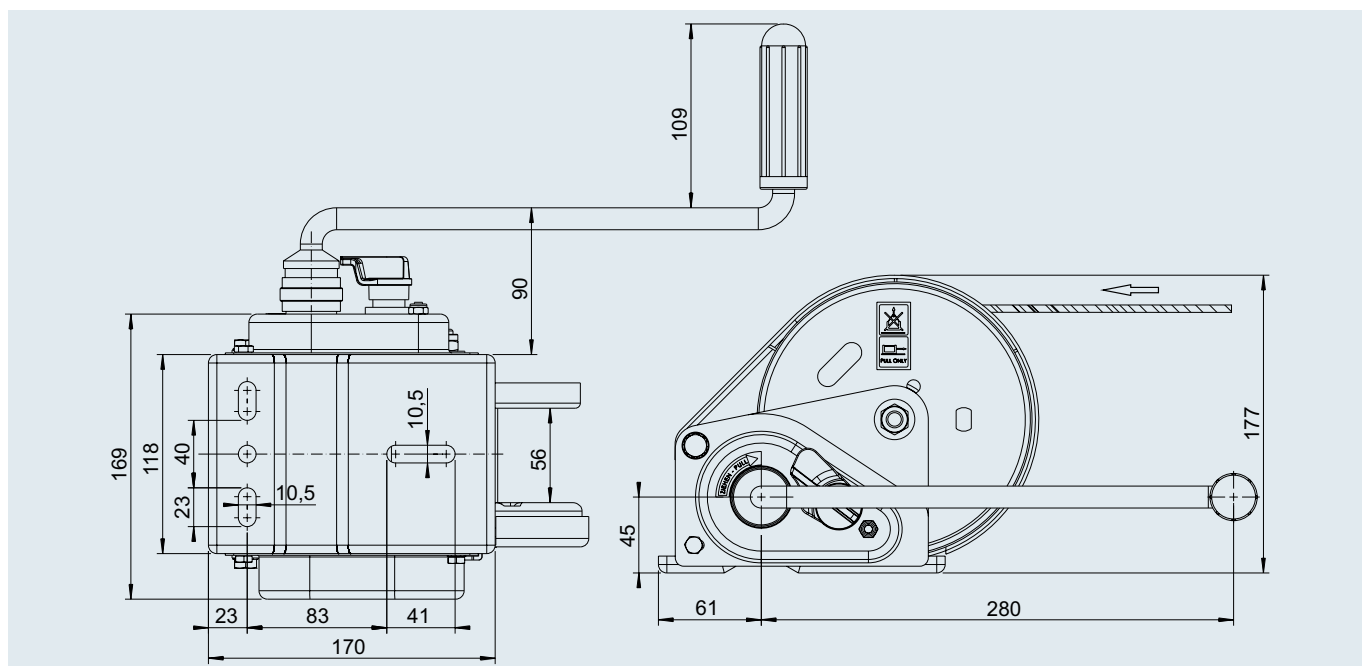
AL-KO

QUALITY FOR LIFE

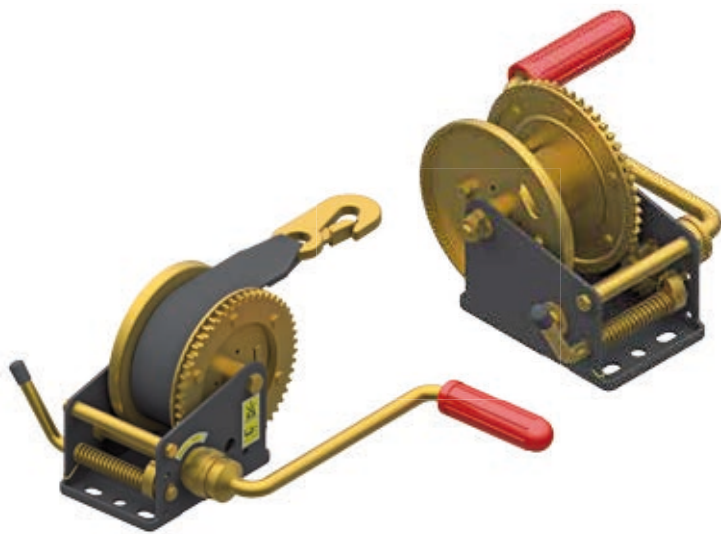


Cable winch BASIC – type 900 braked without automatic unwinder	
Order no.	1 210 654
Tensile load max. lowest cable position	900 kg
Manual force	190 N
Minimum load	25 kg
Reduction	8.75 : 1
Lift per crank revolution	from 25–53 mm
Drum capacity for 7 mm Ø cable	17 m
Drum capacity for towing band	7 m
Weight	7 kg
 	- 48 units

Cable winch BASIC – type 900 A braked with automatic unwinder	
Order no. without cable	1 225 301
Order no. with 7 m band for towing	1 225 303
Tensile load max. lowest cable position	900 kg
Manual force	190 N
Minimum load	25 kg
Reduction	8.75 : 1
Lift per crank revolution	from 25–53 mm
Drum capacity for 7 mm Ø cable	17 m
Drum capacity for towing band	7 m
Weight without cable	7 kg
Weight with 7 m band	8 kg
 	- 48 units



TOWING WINCHES BASIC – 500 KG



Towing winch BASIC – type 500, unbraked, removable crank

Order no. without cable **1 225 543**

Order no. with 7 m band for towing **1 225 547**

Max. tensile load 500 kg

Manual force 200 N

Reduction None

Lift per crank revolution from 37–90 mm

Drum capacity for 5 mm Ø cable 15 m

Weight without cable 3 kg

Weight with 6 m band 4 kg



- 96 units



Towing winch BASIC – type 500

Order no. without cable **1 213 856**

Max. tensile load see table

Manual force 200 N

Reduction 4.25 : 1

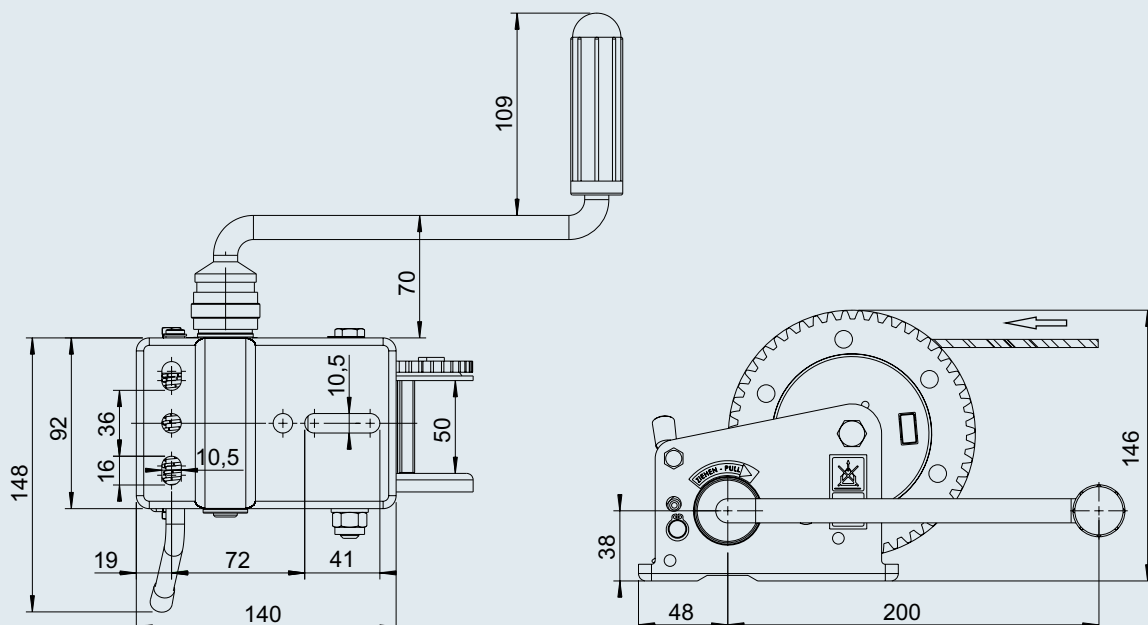
Lift per crank revolution from 37–90 mm

Drum capacity for 5 mm Ø cable 15 m

Weight 4 kg



- 96 units





TOWING WINCH BASIC – 250 KG

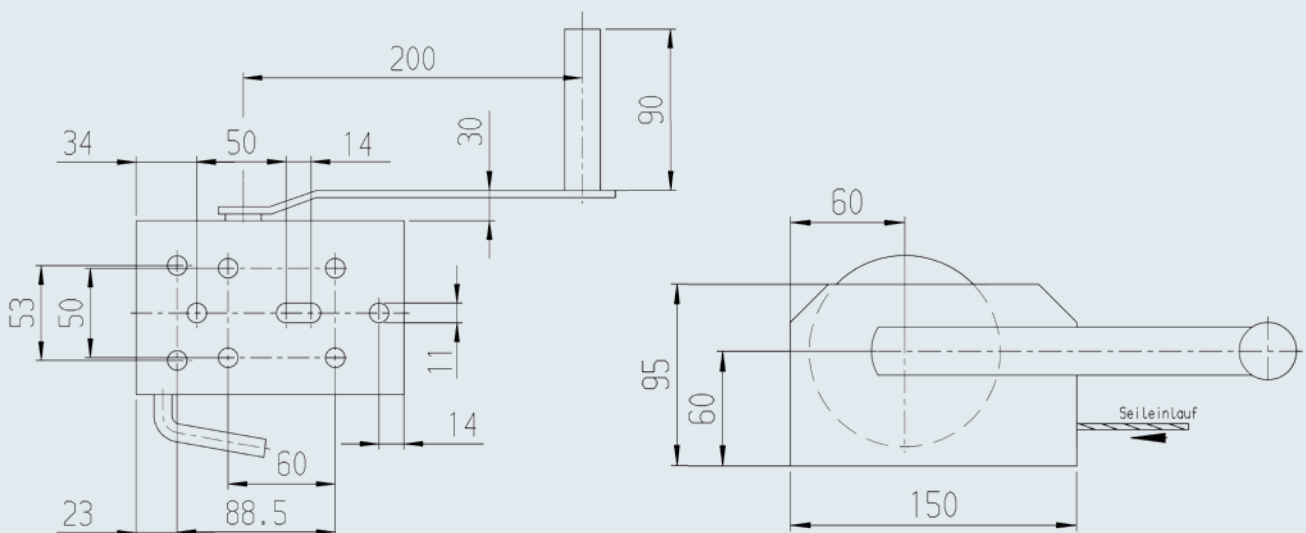
AL-KO

QUALITY FOR LIFE



Towing winch BASIC – type 250

Order no. with 6 m cable	1 210 211
Max. tensile load	see table
Manual force	200 N
Reduction	None
Lift per crank revolution	from 120–150 mm
Drum capacity for 3,5 mm Ø cable	6 m
Weight	3 kg
 	- 72 units



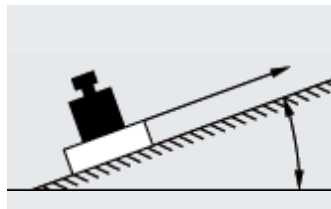
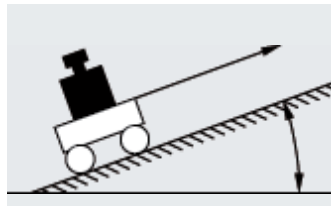
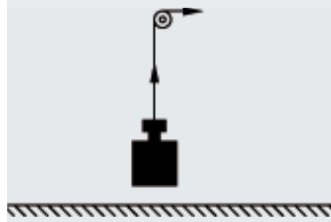
CABLE WINCHES – ACCESSORIES

Cables



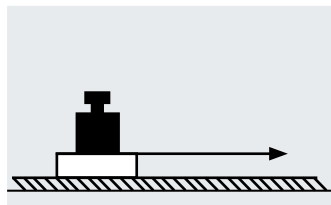
Warning:

The cables are suitable for towing, lifting and holding of loads, however not for usage with a free hanging load which may twist when being lifted. For this application low-twist or twist-free cables should be used.



Order no.	For winch type	Tensile load (kg)	Cable Ø mm EN 12385-4	Cable length m	Weight kg	Hook surface
1 730 137	351 OPTIMA	350	4	15	1.0	EGS, CR 6 free
1 730 136	351 OPTIMA	350	4	10	1.0	EGS, CR 6 free
1 730 139	501 OPTIMA	500	5	20	1.8	EGS, CR 6 free
1 730 138	450/500 BASIC 501 OPTIMA	500	5	10	1.0	EGS, CR 6 free
1 730 141	901 OPTIMA	900	7	20	4.1	EGS, CR 6 free
1 730 140	901 OPTIMA 900 BASIC	900	7	12.5	2.1	EGS, CR 6 free
249 980	1201 OPTIMA	1150	7	25	4.3	EGS, CR 6 free

Bands for towing



Warning:

The available bands are only constructed for the horizontal towing of loads. When lifting loads bands in accordance with DIN EN 1492-1 must be used.

Order no.	For winch type	Max. tensile load band daN kg*	Band width mm	Band length m	Weight kg	Hook surface
1 730 041	351 OPTIMA	350	40	4	0.5	EGS, CR 6 free
1 730 043	501 OPTIMA	500	40	7	0.9	EGS, CR 6 free
1 730 032	901 OPTIMA	900	50	10	1.2	EGS, CR 6 free
1 730 042	1201 OPTIMA	1150	55	12.5	1.5	EGS, CR 6 free
1 225 319	450 BASIC	450	40	6	0.9	EGS yellow chromate
1 225 768	501 OPTIMA 500 BASIC	500	40	7	1.0	EGS yellow chromate
1 225 631	901 OPTIMA 900 BASIC	900	50	7	1.2	EGS yellow chromate

* The tensile load corresponds with the tensile load of the winch in the lowest cable position. Band with safety factor min. 2.5

Weather protection

Benefits for you

- I Weather proof
- I Breathable
- I Color fast



Weather protection: Suitable for AL-KO winches OPTIMA type 901 and 901 A	
Order no.	1 224 076
Suitable for winches	AL-KO OPTIMA type 901 and 901 A
Weight	0.3 kg

Plug-in for band fastening

Order no.	For winch type
1 730 133	351 OPTIMA
1 730 134	501 OPTIMA
1 730 135	901 OPTIMA



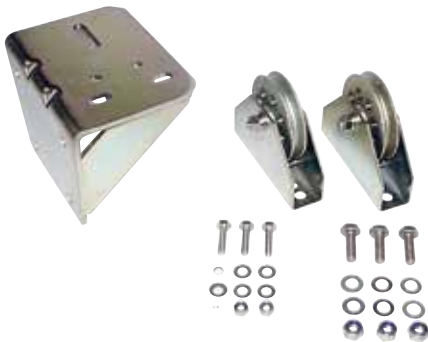
Order no.	For winch type
352 657	1201 OPTIMA



Order no.	For winch type
352 514	450 BASIC
352 516	900 BASIC

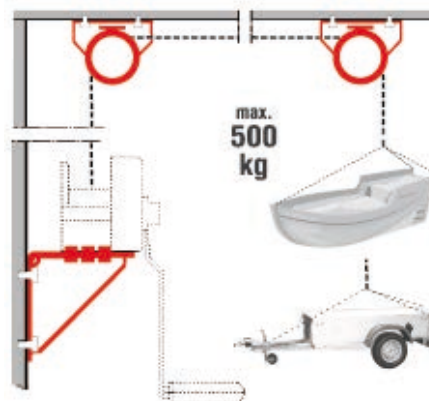
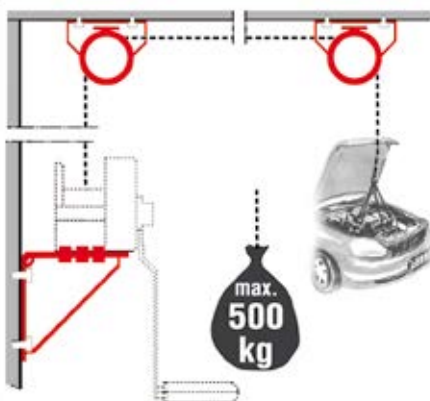


Garage wall holder

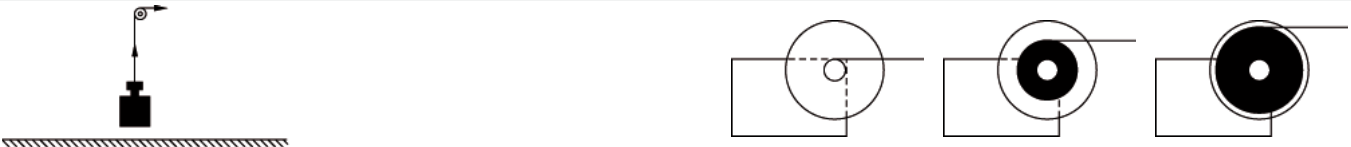


Garage wall holder: For AL-KO winches BASIC and OPTIMA up to max. 500 kg

Order no.	1 221 151
For AL-KO winches	BASIC and OPTIMA up to max. 500 kg
Weight	3.5 kg

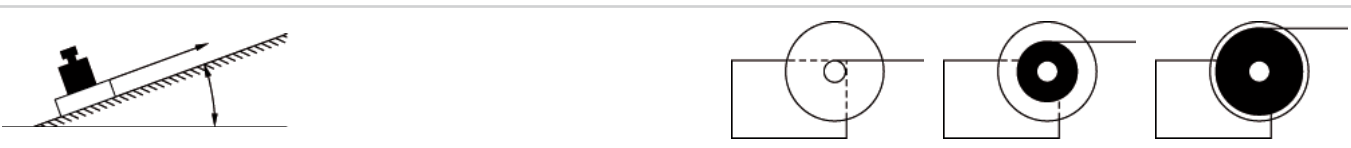


CABLE WINCHES – TECHNICAL DATA



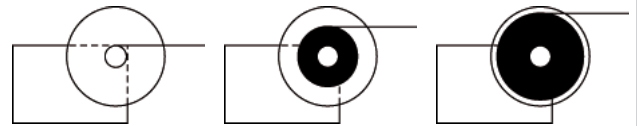
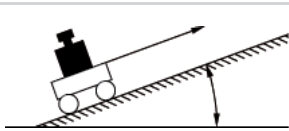
Vertical lifting of loads - (reference values)

Winch	Lowest cable position	Middle cable position	Highest cable position
Cable winch BASIC 450 KG	450 kg	300 kg	170 kg
Cable winch BASIC 900 KG	900 kg	600 kg	330 kg
Cable winch OPTIMA 350 KG	350 kg	250 kg	130 kg
Cable winch OPTIMA 500 KG	500 kg	330 kg	170 kg
Cable winch OPTIMA 900 KG	900 kg	600 kg	330 kg
Cable winch OPTIMA 900 KG automatic unwinder	900 kg	600 kg	330 kg
Cable winch OPTIMA 1150 KG automatic unwinder	1250 kg	830 kg	500 kg



Horizontal and oblique pulling of a (non-rolling) load (reference values) friction factor approx. 0.5

Winch	Gradient	Lowest cable position	Middle cable position	Highest cable position
Towing winch BASIC 250 kg	up to 10% (6°)	400 kg	350 kg	300 kg
Towing winch BASIC 500 kg	up to 10% (6°)	800 kg	550 kg	300 kg
Cable winch BASIC 450 kg	10% (6°)	750 kg	500 kg	300 kg
	20% (11°)	650 kg	450 kg	250 kg
	30% (17°)	550 kg	400 kg	200 kg
Cable winch BASIC 900 KG	10% (6°)	1500 kg	1100 kg	600 kg
	20% (11°)	1300 kg	900 kg	500 kg
	30% (17°)	1150 kg	800 kg	400 kg
Cable winch OPTIMA 350 kg	10% (6°)	600 kg	400 kg	250 kg
	20% (11°)	500 kg	350 kg	200 kg
	30% (17°)	450 kg	300 kg	150 kg
Cable winch OPTIMA 500 kg	10% (6°)	800 kg	550 kg	300 kg
	20% (11°)	700 kg	500 kg	250 kg
	30% (17°)	650 kg	450 kg	220 kg
Cable winch OPTIMA 900 kg	10% (6°)	1500 kg	1100 kg	600 kg
	20% (11°)	1300 kg	900 kg	500 kg
	30% (17°)	1150 kg	800 kg	400 kg
Cable winch OPTIMA 900 kg automatic unwinder	10% (6°)	1500 kg	1100 kg	600 kg
	20% (11°)	1300 kg	900 kg	500 kg
	30% (17°)	1150 kg	800 kg	400 kg
Cable winch OPTIMA 1150 kg automatic unwinder	10% (6°)	2000 kg	1450 kg	900 kg
	20% (11°)	1700 kg	1250 kg	750 kg
	30% (17°)	1500 kg	1150 kg	650 kg



Oblique pulling of a rolling load - (reference values)

Winch	Gradient	Lowest cable position	Middle cable position	Highest cable position
Cable winch BASIC 450 kg	10% (6°)	2900 kg	2000 kg	1100 kg
	20% (11°)	1800 kg	1200 kg	700 kg
	30% (17°)	1350 kg	900 kg	500 kg
Cable winch BASIC 900 KG	10% (6°)	5800 kg	3900 kg	2100 kg
	20% (11°)	3600 kg	2400 kg	1300 kg
	30% (17°)	2700 kg	1800 kg	1000 kg
Cable winch OPTIMA 350 kg	10% (6°)	2300 kg	1600 kg	800 kg
	20% (11°)	1400 kg	1200 kg	500 kg
	30% (17°)	1100 kg	800 kg	400 kg
Cable winch OPTIMA 500 kg	10% (6°)	3300 kg	2200 kg	1100 kg
	20% (11°)	2000 kg	1300 kg	700 kg
	30% (17°)	1500 kg	1000 kg	500 kg
Cable winch OPTIMA 900 kg	10% (6°)	5800 kg	3900 kg	2100 kg
	20% (11°)	3600 kg	2400 kg	1300 kg
	30% (17°)	2700 kg	1800 kg	1000 kg
Cable winch OPTIMA 900 kg automatic unwinder	10% (6°)	5800 kg	3900 kg	2100 kg
	20% (11°)	3600 kg	2400 kg	1300 kg
	30% (17°)	2700 kg	1800 kg	1000 kg
Cable winch OPTIMA 1150 kg automatic unwinder	10% (6°)	7400 kg	5300 kg	3200 kg
	20% (11°)	6400 kg	3300 kg	2000 kg
	30% (17°)	3500 kg	2500 kg	1500 kg

SAFETY

The buyer of the cable winch must check whether the product has the properties that their individual usage requires.

1. Weight Brake:

Depending on the type cable winches with weight brake must be operated with the minimum weight listed in the delivery overview. If this minimum load is not listed then the braking function does not come into force.

2. Purposes of a braked cable winch:

The braked cable winches fulfil the requirements of the new EG Norm EN 13157 valid from 01.09.2004. Our winches cannot be used in the following fields of application: Construction lifts, stages, studios and liftable suspended access equipment.

Mechanical drive prohibited. Not approved for continuous operation.

Not approved as lashing provision. (Weight brake can release itself due to alternating movement).

The AL-KO cable winches can be used for various applications. The regulations that need to be observed in these fields of application must be checked for each usage by the responsible manufacturer or user. I.e. the buyer of the cable winch must check whether the product has the properties that their individual usage requires. There are differing useful lives depending on the load (low, middle, max. load). To increase the useful life (service life in hours) it is advantageous to use the cable winches only for medium loads. Perhaps the next higher winch type should be selected.

It is strictly prohibited to stand beneath overhead loads. At least two winds of the rope must stay on the drum when carrying a load.

3. Cables:

The available cables are constructed according to EN 13157 and EN 12385-4. Our cables are suitable for towing, lifting and holding of loads, however not for usage with a free hanging load which may twist when being lifted. For this application low-twist or twist-free cables should be used.

4. Bands:

The available bands are only constructed for the horizontal towing of loads. When lifting loads bands in accordance with DIN EN 1492-1 must be used.

Boat rollers

✔ Your advantage

Benefit	COMPACT boat roller	PROFI "STOLTZ" boat roller
Material	Rubber	Polyurethane
Colour	Black	Transparent yellow
Absorbs shocks	Yes	No
Material can rub off on the hull	Yes	No
Extremely resilient	No	Yes
Durable and mostly wear-free	No	Yes
UV resistant	No	Yes
Scratch-proof	No	Yes
Roller will not be warped if the boat is stored on the trailer for a long time	No	Yes

Boats are expensive. That's why professional water sportspeople take care of their sports equipment in the elements. What about when it comes to transporting or storing it on the trailer? You have to take certain precautions **when transporting, loading and unloading** your equipment to avoid damaging your precious cargo.

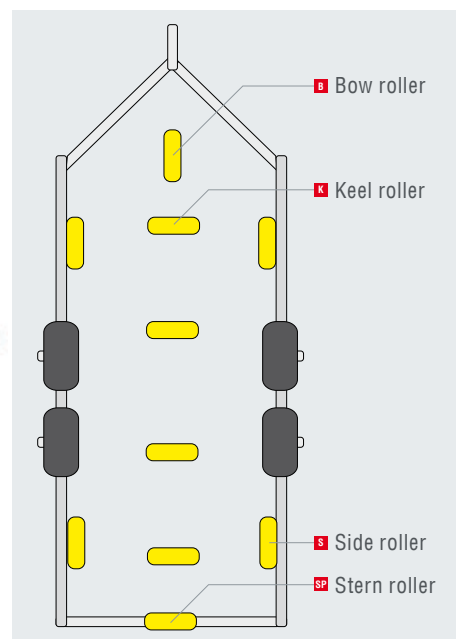
For this reason AL-KO, Europe's leading manufacturer of trailer components **provides two different models of professional boat rollers** to let you construct the optimal trailer for you.

We offer **good value entry level** rubber-based boat rollers. We take special care to provide top notch quality and safety when it comes to our entry level rollers, so we only provide European branded articles.

The **original professional STOLTZ rollers Profi Line** made of polyurethane **provide premium quality** proven in a number of tests and has long had a reputation for being the BEST roller available for boat trailers on specialist internet forums. The Original STOLTZ rollers make load-

ing and unloading child's play. The very free **movement of the rollers** makes it easy for boats to glide softly into the water—allowing you to conserve your energy for the water! You will be glad to know that using STOLTZ rollers **makes black stripes** on the hull of the boat caused by launching **is now a thing of the past.**

The distinctive transparent **yellow colour** of the famous STOLTZ rollers **makes it clear to everyone** that you are a professional water sports enthusiast in the know.

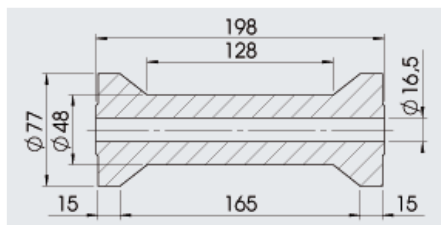


Boat rollers COMPACT

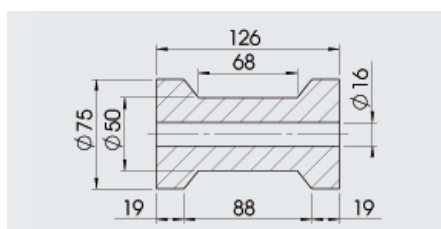
AL-KO

QUALITY FOR LIFE

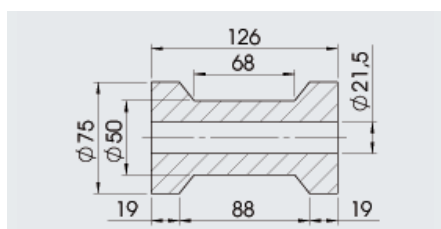
Range Overview



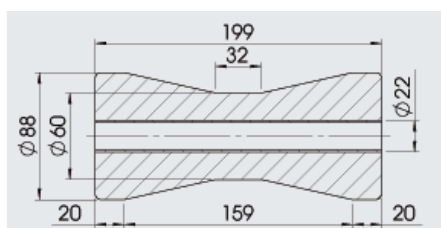
Keel roller	
Part No.	360 710
Material/Finish/Colour	Rubber/matt/black
Dim (Ø x length) / hole	Ø 77 x 198 mm / Ø 16,5 mm
	0,660 kg
	1 pc



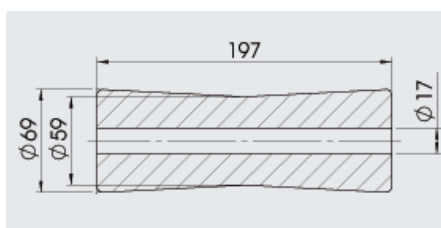
Keel roller	
Part No.	360 711
Material/Finish/Colour	Rubber/matt/black
Dim (Ø x length) / hole	Ø 75 x 126 mm / Ø 16 mm
	0,510 kg
	1 pc



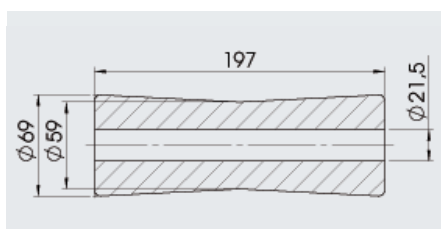
Keel roller	
Part No.	360 712
Material/Finish/Colour	Rubber/matt/black
Dim (Ø x length) / hole	Ø 75 x 126 mm / Ø 21,5 mm
	0,490 kg
	1 pc



Keel roller	
Part No.	360 713
Material/Finish/Colour	Rubber/matt/black
Dim (Ø x length) / hole	Ø 88 x 199 mm / Ø 22 mm (steeltube)
	1,400 kg
	1 pc

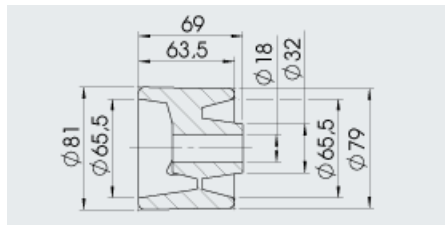
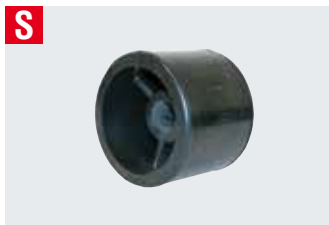


Keel roller	
Part No.	360 715
Material/Finish/Colour	Rubber/matt/black
Dim (Ø x length) / hole	Ø 69 x 197 mm / Ø 17 mm
	0,910 kg
	1 pc



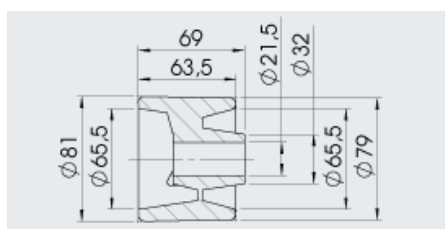
Keel roller	
Part No.	360 716
Material/Finish/Colour	Rubber/matt/black
Dim (Ø x length) / hole	Ø 69 x 197 mm / Ø 21,5 mm
	0,850 kg
	1 pc

Boat rollers COMPACT

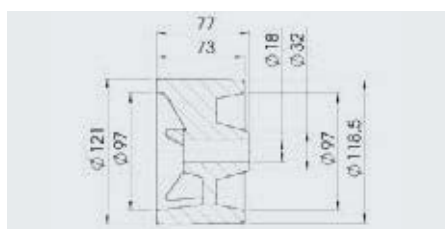


Range Overview

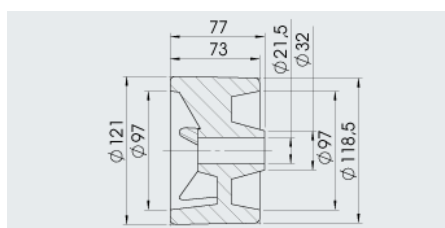
Side roller	
Part No.	360 717
Material/Finish/Colour	Rubber/matt/black
Dim (Ø x length) / hole	Ø 81 x 69 mm / Ø 18 mm
	0,270 kg
	1 pc



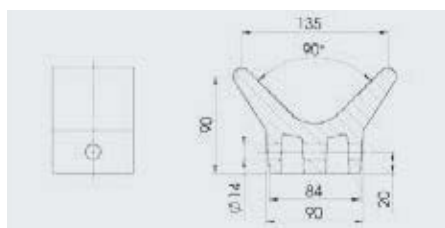
Side roller	
Part No.	360 718
Material/Finish/Colour	Rubber/matt/black
Dim (Ø x length) / hole	Ø 81 x 69 mm / Ø 21,5 mm
	0,260 kg
	1 pc



Side roller	
Part No.	360 719
Material/Finish/Colour	Rubber/matt/black
Dim (Ø x length) / hole	Ø 121 x 77 mm / Ø 18 mm
	0,740 kg
	1 pc



Side roller	
Part No.	360 720
Material/Finish/Colour	Rubber/matt/black
Dim (Ø x length) / hole	Ø 121 x 77 mm / Ø 21,5 mm
	0,720 kg
	1 pc



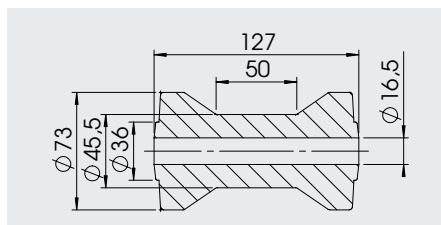
Bow buffer	
Part No.	360 722
Material/Finish/Colour	Rubber/matt/grey
Dim (Ø x length) / hole	Ø 135 x 75 mm / Ø 14 mm
	0,630 kg
	1 pc

Boat rollers PROFI

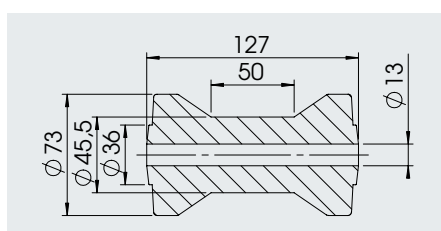
AL-KO

QUALITY FOR LIFE

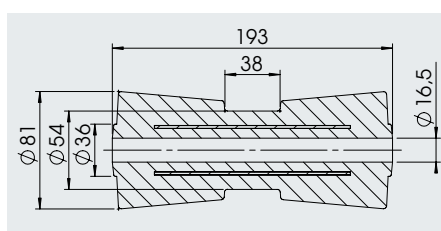
Range Overview



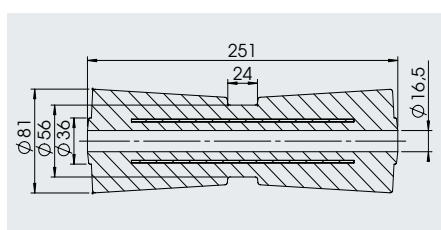
Keel roller Type RP-5	
Part No.	1 224 415
Material/Finish/Colour	PU/matt/transparent yellow
Dim (Ø x length) / hole	Ø 73 x 127 mm / Ø 16,5 mm
	0,340 kg
	1 pc



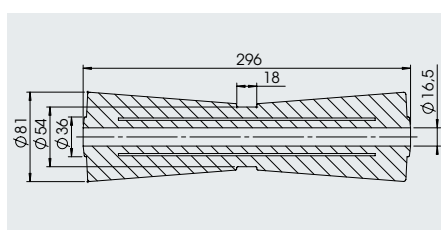
Keel roller Type RP-55	
Part No.	1 224 418
Material/Finish/Colour	PU/matt/transparent yellow
Dim (Ø x length) / hole	Ø 73 x 127 mm / Ø 13 mm
	0,350 kg
	1 pc



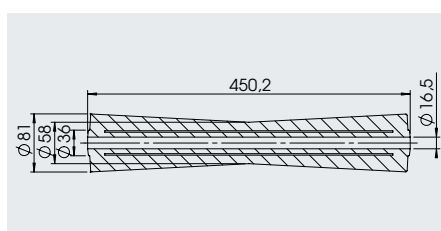
Keel roller Type RP-8	
Part No.	1 224 421
Material/Finish/Colour	PU/matt/transparent yellow
Dim (Ø x length) / hole	Ø 81 x 193 mm / Ø 16,5 mm
	0,810 kg
	1pc



Keel roller Type RP-10	
Part No.	1 224 422
Material/Finish/Colour	PU/matt/transparent yellow
Dim (Ø x length) / hole	Ø 81 x 251 mm / Ø 16,5 mm
	1,120 kg
	1 pc

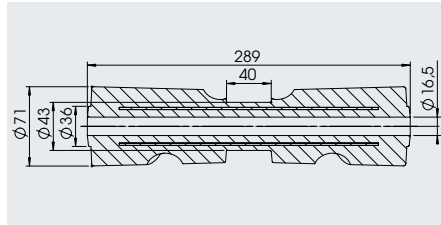


Keel roller Type RP-12	
Part No.	1 224 425
Material/Finish/Colour	PU/matt/transparent yellow
Dim (Ø x length) / hole	Ø 81 x 296 mm / Ø 16,5 mm
	1,370 kg
	1 pc



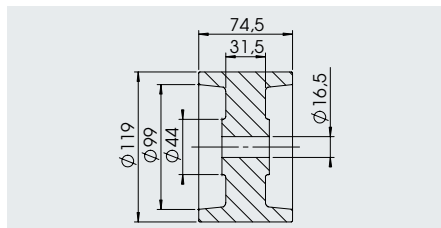
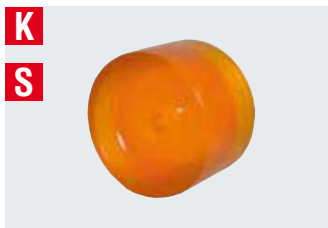
Keel roller Type RP-18	
Part No.	1 224 426
Material/Finish/Colour	PU/matt/transparent yellow
Dim (Ø x length) / hole	Ø 81 x 450,2 mm / Ø 16,5 mm
	1,930 kg
	1 pc

Boat rollers PROFI

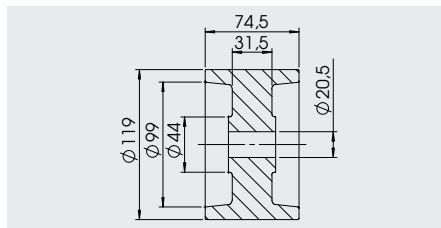


Range Overview

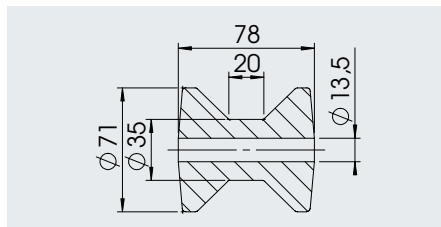
Keel roller Type RPSC-12	
Part No.	1 224 424
Material/Finish/Colour	PU/matt/transparent yellow
Dim (Ø x length) / hole	Ø 71 x 289 mm / Ø 16,5 mm
	0,960 kg
	1 pc



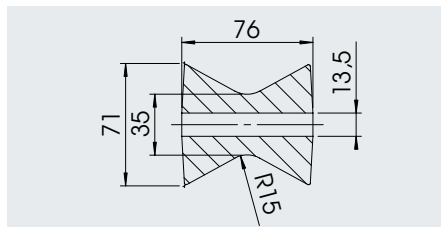
Keel roller Type RP-53A	
Part No.	1 224 461
Material/Finish/Colour	PU/matt/transparent yellow
Dim (Ø x length) / hole	Ø 119 x 74,5 mm / Ø 16,5 mm
	0,600 kg
	1 pc



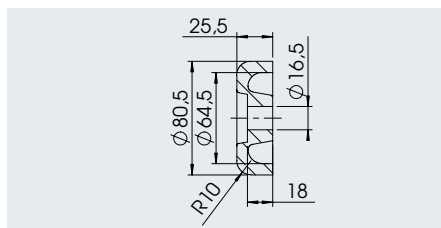
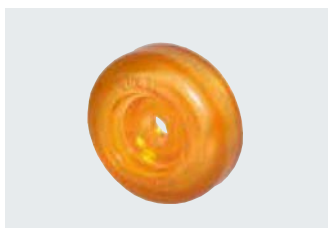
Keel roller Type RP-54	
Part No.	1 224 462
Material/Finish/Colour	PU/matt/transparent yellow
Dim (Ø x length) / hole	Ø 119 x 74,5 mm / Ø 20,5 mm
	0,590 kg
	1 pc



Keel roller Type RP-33	
Part No.	1 224 431
Material/Finish/Colour	PU/matt/transparent yellow
Dim (Ø x length) / hole	Ø 78 x 71 mm / Ø 13,5 mm
	0,210 kg
	1 pc

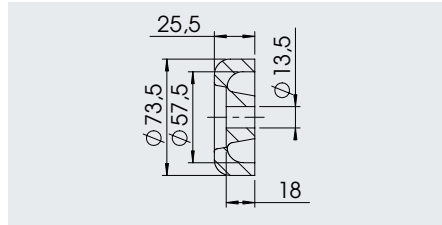


V-Roller Type RP-335	
Part No.	1 224 432
Material/Finish/Colour	PU/matt/transparent yellow
Dim (Ø x length) / hole	Ø 71 x 76 mm / Ø 13,5 mm
	0,190 kg
	1 pc

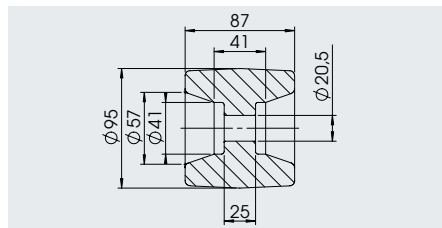


End cap for RP 8/10/12/18 - TYPE RP-32	
Part No.	1 224 444
Material/Finish/Colour	PU/matt/transparent yellow
Dim (Ø x length) / hole	Ø 80,5 x 25,5 mm / Ø 16,5 mm
	0,090 kg
	1 pc

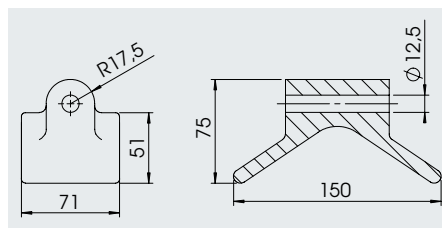
Range Overview



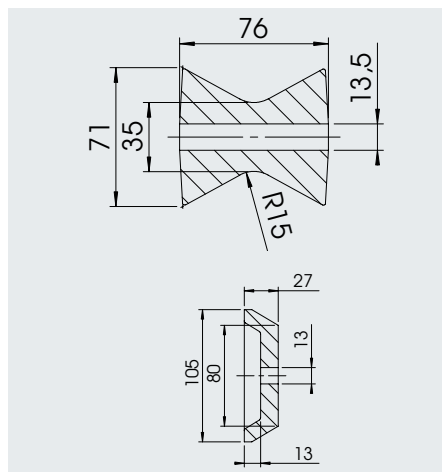
End cap for RP-33+RP-335 Type RP-325	
Part No.	1 224 433
Material/Finish/Colour	PU/matt/transparent yellow
Dim (Ø x length) / hole	Ø 73,5 x 25,5 mm / Ø 13,5 mm
	0,080 kg
	1 pc



Wobble roller Type RP-44	
Part No.	1 224 460
Material/Finish/Colour	PU/matt/transparent yellow
Dim (Ø x length) / hole	Ø 95 x 87 mm / Ø 20,5 mm
	0,550 kg
	1 pc

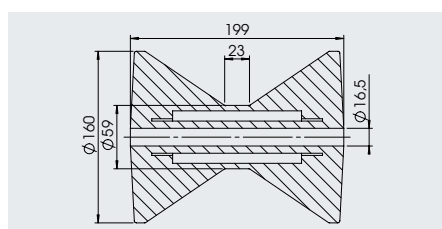


V bow roller Type RP-3	
Part No.	1 224 429
Material/Finish/Colour	PU/matt/transparent yellow
Dim (Ø x length) / hole	150 x 71 mm / Ø 12,5 mm
	0,220 kg
	1 pc



Set stern roller big Type RP-335	
Part No.	1 224 432
Material/Finish/Colour	PU/matt/transparent yellow
Dim (Ø x length) / hole	Ø 71 x 76 mm / Ø 13,5 mm
	0,190 kg
	1 pc

End cap RP-435A (2 pcs)	
Part No.	1 224 434
Material/Finish/Colour	PU/matt/transparent yellow
Dim (Ø x length) / hole	Ø 105 x 27 mm / Ø 13 mm
	0,140 kg
	2 pcs



V-Roller Type RP-87	
Part No.	1 224 452
Material/Finish/Colour	PU/matt/transparent yellow
Dim (Ø x length) / hole	Ø 160 x 199 mm / Ø 16,5 mm
	2,190 kg
	1 pc

Plastic Mudguards

✔ Your Advantage

AL-KO offers mudguards made by the injection moulding or deep drawn process.

🔧 Technology

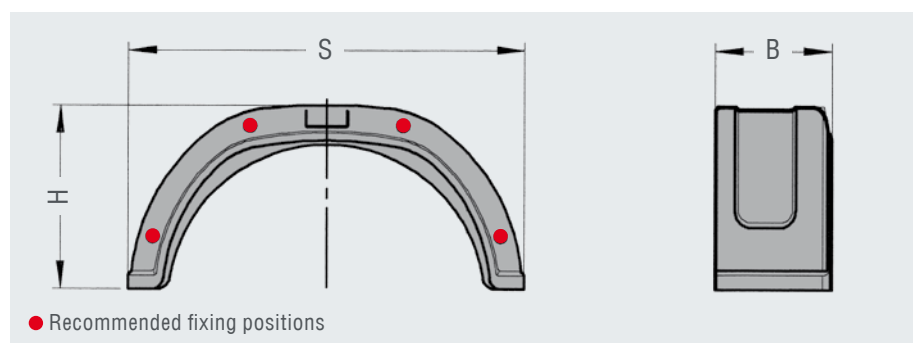
In order to achieve optimum load capacity of the mudguards, we recommend fixing tandem mudguards with 6 and single mudguards with 4 M6 nuts and washers with external Ø 18. mm. The fastening points are marked on deep drawn mudguards.

	PLUS AL-KO deep drawn process	COMPACT AL-KO injection moulded
Sensitivity to dirt	less sensitive due to smooth finish ↗	more sensitive due to coarse finish ↘
Slight driving damage compensated for	Yes the mudguard returns to its starting position ↗	Yes the mudguard returns to its starting position ↗
Up to 50% lighter than metal	Yes ↗	Yes ↗
UV resistant	Yes ↗	Yes ↗
Can be recycled	Yes ↗	Yes ↗
Customer specific fixing holes can be pre-drilled	Yes min. purchase of 200 pieces ↗	Yes min. purchase of 1000 pieces ↗
Customer logos can be applied	Yes min. purchase of 200 pieces ↗	Yes min. purchase of 1000 pieces ↗
Special colours	Yes min. purchase of 1000 pieces ↗	Yes min. purchase of 1000 pieces ↗
Wall thickness	uneven on the edges ↘	uneven ↘



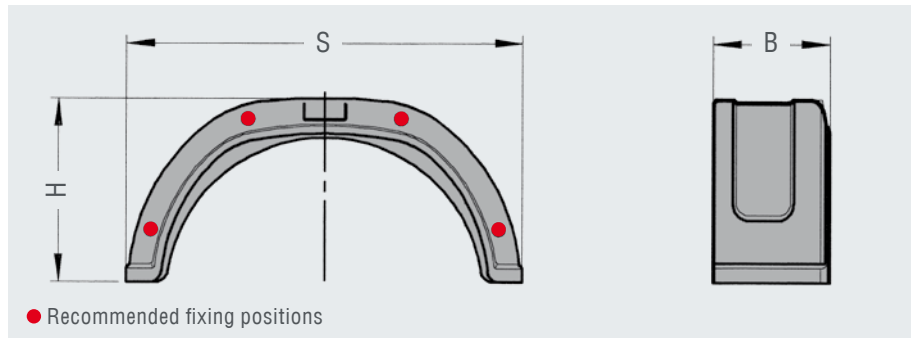
Range Overview

Back orange reflectors, film packed	
Part No.	246 644
	0,53 kg
	50 pcs



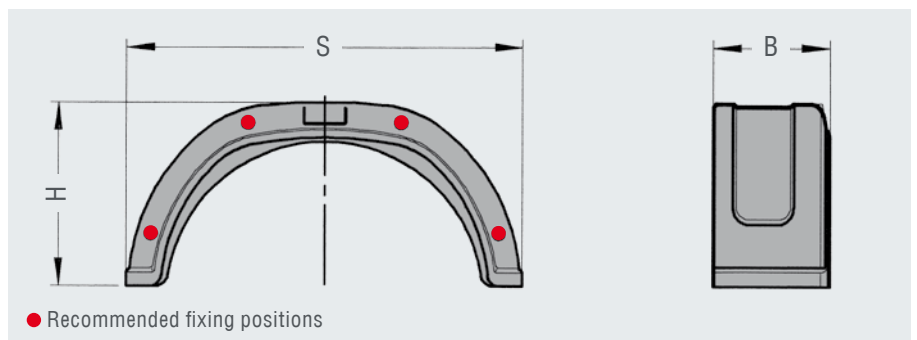
Range Overview

PLUS Mudguard/deep drawn/single axle							
Part No.	B	S	H	max. permit. wheel radius			
245 820	200	720	335	300	0,71	60	2
245 821	220	770	335	325	0,75	60	2
1 335 983	220	680	290	280	0,78	50	2
245 822	240	770	335	325	0,98	48	2
245 823	260	820	335	325	1,14	48	2



Range Overview

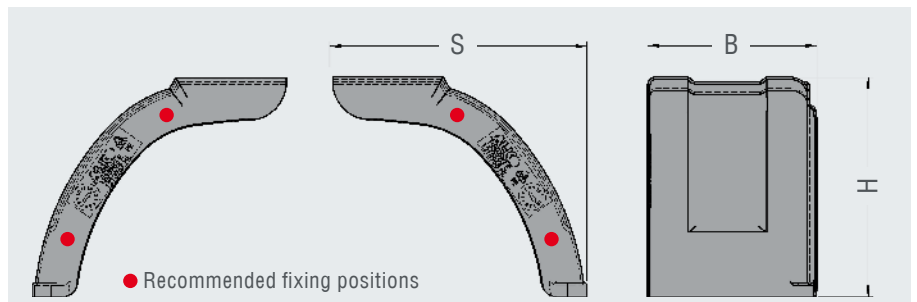
COMPACT Mudguard/injection moulded/single axle							
Part No.	B	S	H	max. permit. wheel radius			
1 257 130	200	720	335	300	0,87	75	2
1 257 131	220	770	335	325	0,80	60	2



Range Overview

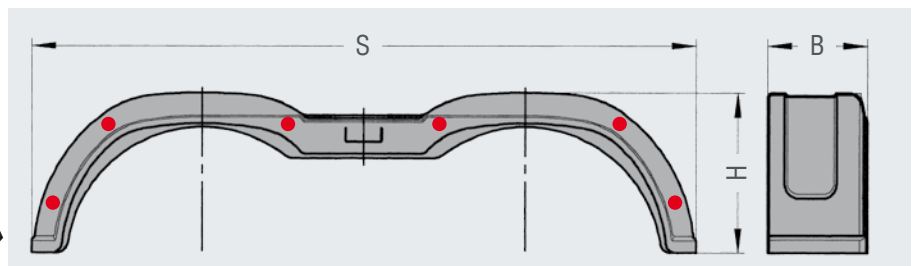
COMPACT Mudguard/injection moulded/single axle							
Part No.	B	S	H	max. permit. wheel radius			
1 258 169	140	490	195	203	0,41	100	2
1 258 170	180	620	240	254	0,61	60	2
1 258 171	190	680	300	283	0,80	45	2

Plastic Mudguards



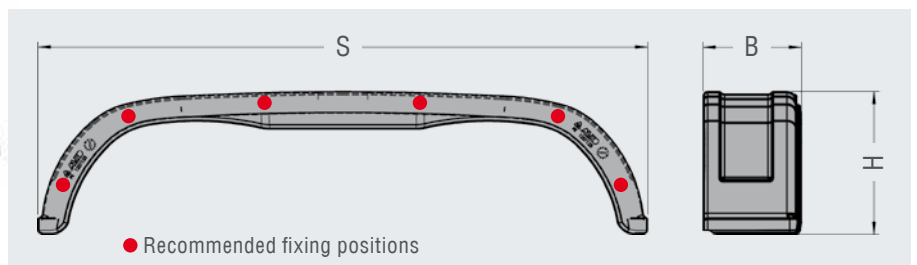
Range Overview

PLUS Mudguard deep drawn 2-part tandem axle								
Part No.	B	S	H	max. permitted wheel radius				
pre pair								
1 213 966	223	340	290	254	0,68		120 pair	2



Range Overview

PLUS Mudguard deep drawn tandem								
Part No.	B	S	H	max. permit. wheel radius				
246 120	220	1462	349	335	1,76	30		2
1 220 964	200	1462	349	335	1,85	30		2



Range Overview

PLUS Mudguard deep drawn tandem								
Part No.	B	S	H	max. permit. wheel radius				
1 257 122	220	1477	349	335	1,90	30		2 in progress
1 257 123	240	1477	345	335	1,65	30		2

Plastic Mudguards

Wheels attribution overview



Wheel size	Mudguards single axle										Mudguards tandem 2-part	Mudguards tandem			
	1 258 171	245 820	245 821	1 335 983	245 822	245 823	1 257 130	1 257 131	1 258 169	1 258 170		1 213 966	246 120	1 220 964	1 257 122
180/70 R8				X							X				
185X8.5-8				X							X				
350-8										X					
480/400-8										X					
500-8											X				
205x8.0-10				X											
145 R10											X				
195/50 B10				X							X				
205/50 B10				X							X				
400-10											X				
450-10											X				
500-10											X				
135 R12	X	X													
145 R12	X	X													
155 R12	X	X		X							X		X		
155/70 R12xcx	X	X		X							X				
155/70 12C	X	X		X							X				
195/50B12				X							X				
135 R13	X	X													
135/70 R13	X	X													
145 R13	X	X											X		
145/70 R13	X	X											X		
155 R13	X	X	X									X		X	
155/65 R13	X	X										X	X		
155/70R13	X	X										X	X		
165 R13			X									X	X	X	
165/65 R13	X	X										X	X	X	
165/70 R13	X	X	X									X	X	X	
175 R13			X		X							X		X	
175/60 R13				X							X			X	
175/70 R13			X									X		X	
185/70 R13			X		X							X		X	
195/50 R13C				X							X				
165 R14			X									X	X	X	
165/70 R14			X									X	X	X	
175 R14			X									X		X	
175 R14C			X		X							X		X	
175/70 R14			X		X							X		X	X
185 R14			X		X							X		X	
185 R14C			X		X							X		X	
185/65 R14					X							X		X	X
185/70 R14			X		X							X		X	X
185/75 R14C					X							X		X	X
195 R14C						X									X
195/65 R14					X										X
195/70 R14					X										X
205 R14C						X									X
205/70 R14					X										X
215 R14C						X									X
670 R14C						X						X		X	X
155/70 R15			X						X			X	X	X	X
175/70 R15			X						X			X	X	X	X
185 R15C												X		X	X
185/65 R15					X									X	X
195/55 R15					X									X	X
195/70 R15C						X								X	X
205/70 R15C						X								X	X
215/70 R15C						X								X	X
225/70 R15C						X								X	X
175/75 R16C						X								X	X
185/75 R16C						X								X	X
195/75 R16C						X								X	X
205/75 R16C						X								X	X
215/75 R16C						X								X	X
225/75 R16C						X								X	X
600 R16C						X								X	X
650 R16C						X								X	X

New Generation Mudguard System

Designed for trailers with character

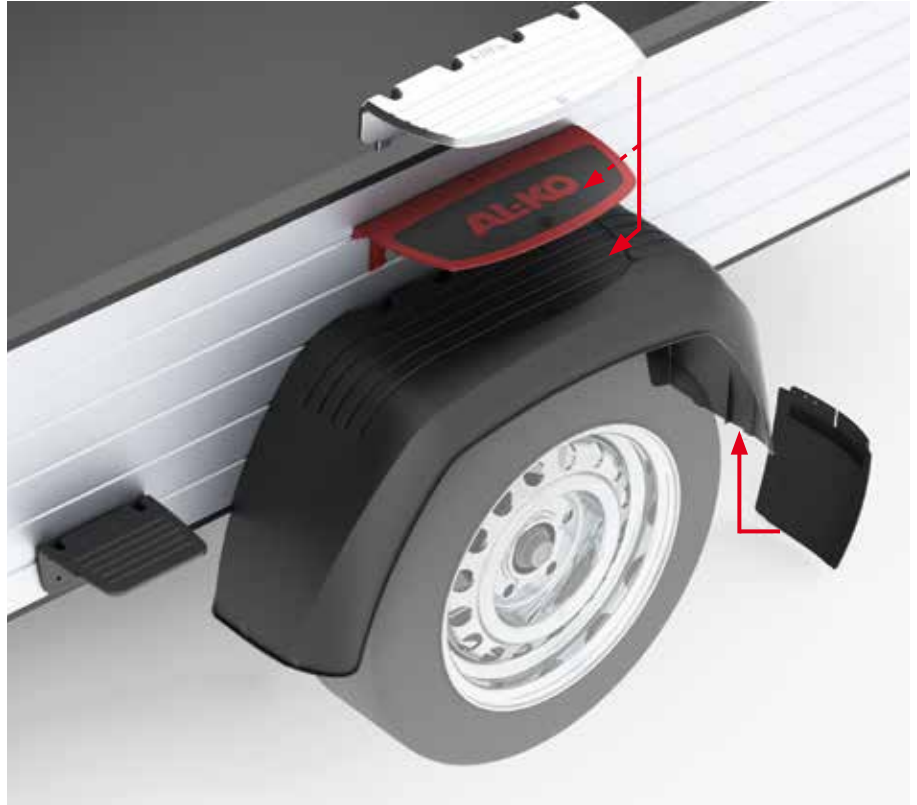
The new AL-KO Mudguard System performs efficiently in all environments and weather conditions to control road debris and surface water effectively. The system also features additional accessories designed to complement the mudguards including customised accessories, strengthened steps and inserts. The mudguard system has also been recognised and awarded the iF Product Design Award 2013 for innovation, demonstrating AL-KO's expertise in product design and function.

Advantages

- | Flexible and Formable
- | Customised design
- | Modular system

Mudguard Specification

- | Material PP / EPDM
(combination of polypropylene and ethylene-propylene-diene rubber)
- | Temperature range from +80° to -30°
- | Complies with Outer Edge specification of Directive 74/483/EEC
- | Drainage grooves for rainwater removal
- | Fixing hole positions
- | Inlay for customised logo insert or step



1 258 622
1 258 624
1 258 626
1 258 628



- | The mudguard system received the iF product design award 2013 in the category of special vehicles / construction / agriculture for appealing design and superior functionality.
- | Germany's largest plastics centre, SKZ Plastics Institute, certifies that the AL-KO Mudguard system is the first on the market to meet the automotive standard TL 52649-01 of Volkswagen AG.
- | Splash Protection Directive (see page 265).

Optional System Components

Inlay Insert with Custom Artwork or Logos

A customisable polypropylene insert can be fitted into the recessed area of the mudguard. Customer specific colours, logos and artwork can be printed onto the insert and supplied with the mudguards. (Note: min order of 500 printed inserts applies).

Alternatively, an adhesive label bearing customer specific artwork can be applied to the surface of the insert. The inlay insert can be universally used for the following mudguard sizes: Single Axle 200/220/240 and Tandem Axle 220/240.



Step Insert (Max load 90kg)

Instead of the inlay insert, a step insert can be fitted into the recessed section of the mudguard. The step, manufactured from polyamide with 30% fibreglass, is capable of supporting a maximum load of 90kg. The step insert can be universally used for the following mudguard sizes:

Single Axle 200/220/240 and Tandem Axle 220/240.



Support Step (Max load 90kg)

The Support Step can be mounted to the side wall of the trailer or frame. Manufactured from polyamide material with 30% fibreglass, the step is capable of supporting a maximum load of 90kg and can be mounted in two ways.



Mud flaps

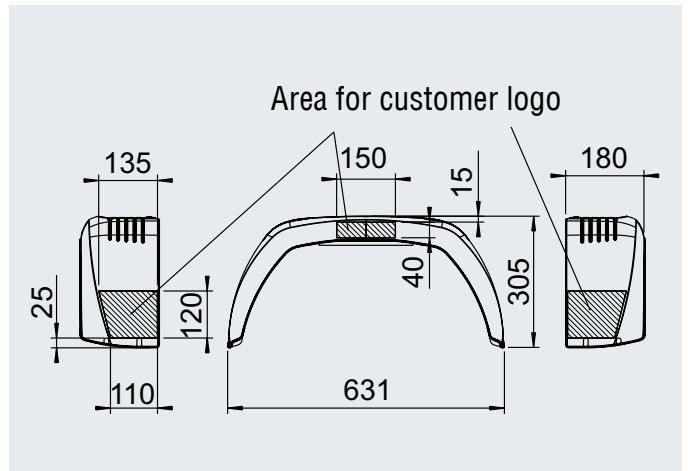
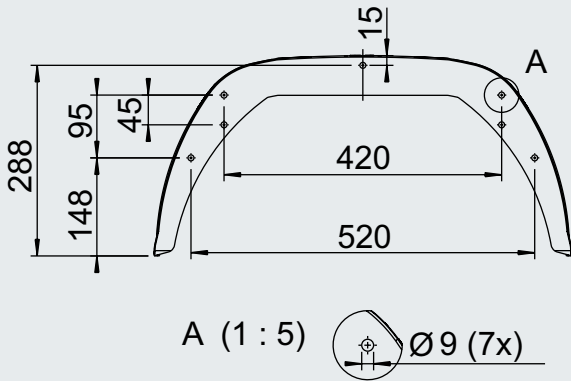
An integrated mud flap completes the mudguard system and controls the rainwater, to prevent splashing over the tyre to the traffic behind.

Manufactured from thermoplastic elastomer, the mud flaps can be easily fitted to the mudguards and conforms to spray-suppression systems guideline 2010/19/EU or 91/226/EG. (Note: This is a new requirement for EC-Trailer registrations from April 2011).



Single Axle Mudguards SA 180/200/220/240

SA 180

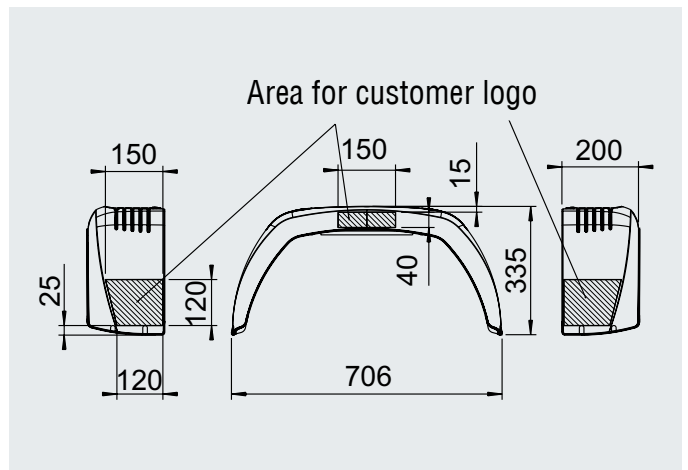
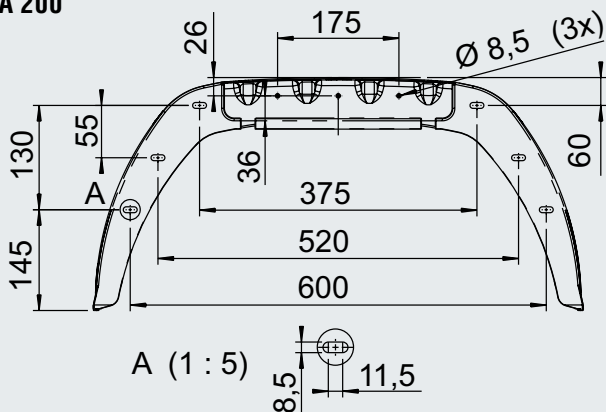


Range Overview

Injection moulded mudguard Single Axle 180

Part No.	RAL Colour	Maximum Tyre Radius				
1 258 622	Black RAL 9017	260 mm	0,68	-	80	2

SA 200

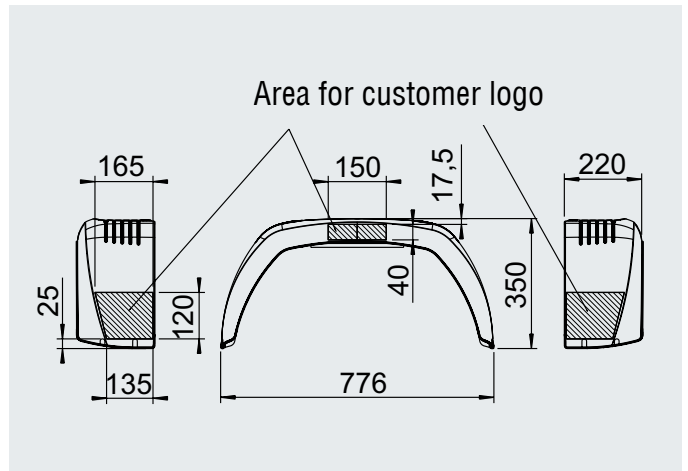
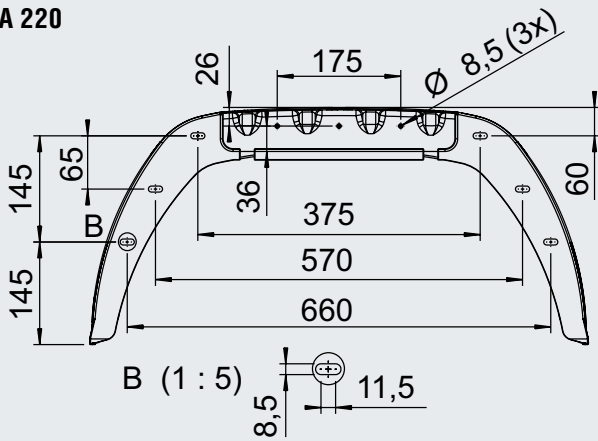


Range Overview

Injection moulded mudguard Single Axle 200

Part No.	RAL Colour	Maximum Tyre Radius				
1 258 624	Black RAL 9017	285 mm	0,850	-	65	2

SA 220

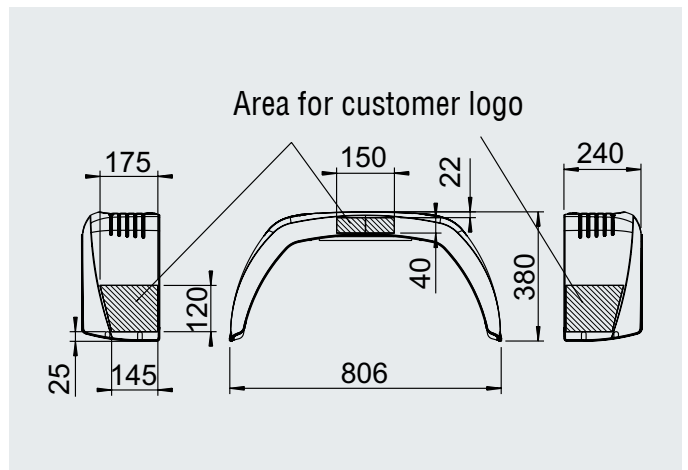
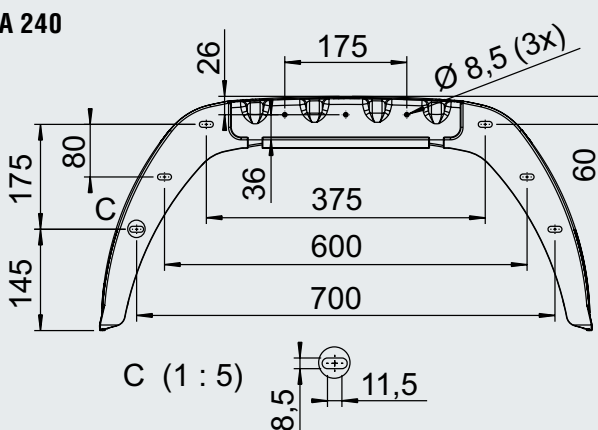


Range Overview

Injection moulded mudguard Single Axle 220

Part No.	RAL Colour	Maximum Tyre Radius				
1 258 626	Black RAL 9017	300 mm	0,980	-	42	2

SA 240



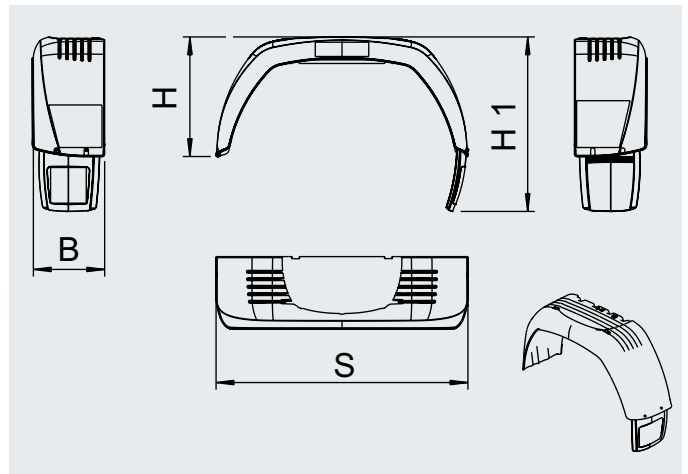
Range Overview

Injection moulded mudguard Single Axle 240

Part No.	RAL Colour	Maximum Tyre Radius				
1 258 628	Black RAL 9017	325 mm	1,130	-	42	2

Single Axle Mudguards SA 180/200/220/240

With mud flap



Range Overview

Injection moulded mudguard Single Axle 200/220/240 with mud flap											
Part No. Inc Mud Flap	Direction	B mm	H mm	H1 mm	S mm	RAL Colour	Maximum Tyre Radius mm				
1 258 852	Left	180	305	450	631	Black RAL 9017	260	0,50	-	80	20
1 258 853	Right	180	305	450	631	Black RAL 9017	260	0,50	-	80	20
1 258 698	Left	200	330	490	720	Black RAL 9017	285	0,920	-	60	20
1 258 699	Right	200	330	490	720	Black RAL 9017	285	0,920	-	60	20
1 258 700	Left	220	350		770	Black RAL 9017	300	1,050	-	60	20
1 258 701	Right	220	350		770	Black RAL 9017	300	1,050	-	60	20
1 258 702	Left	240	380		800	Black RAL 9017	325	1,220	-	60	20
1 258 703	Right	240	380		800	Black RAL 9017	325	1,220	-	60	20

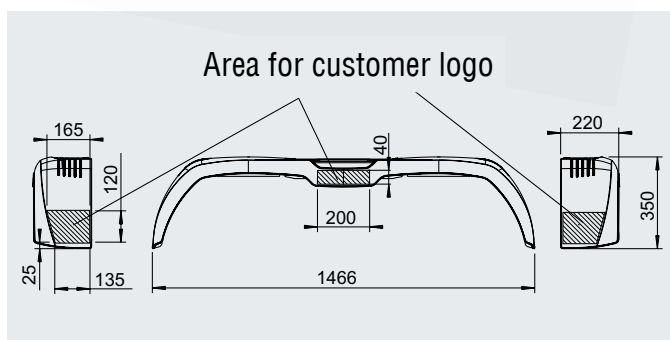
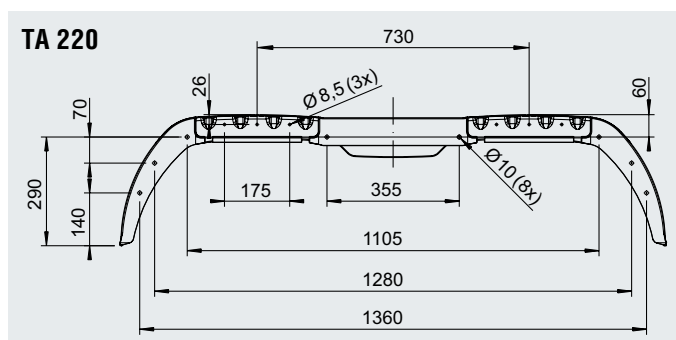
Mudguards injection molded TA 220/240

AL-KO

QUALITY FOR LIFE

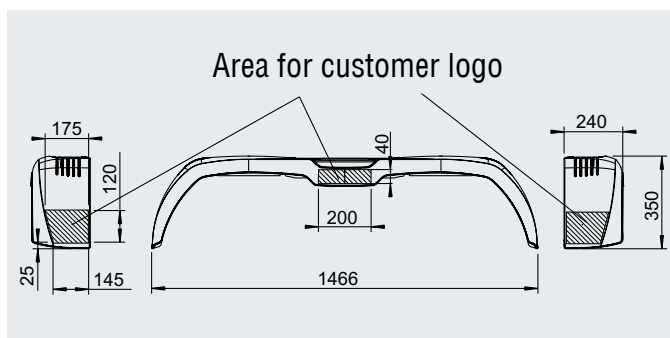
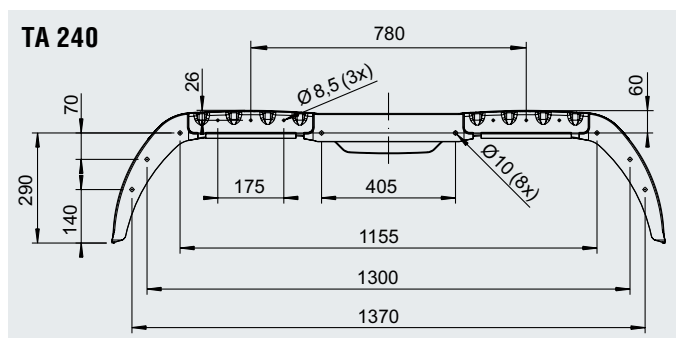
Mudguard Tandem

- Material PP / EPDM (combination of polypropylene and ethylene-propylene-diene rubber)
- Temperature range from +80° to -30°
- Complies with Outer Edge specification of Directive 74/483/EEC
- Drainage grooves for rainwater removal
- Fixing hole positions
- Inlay for customised logo insert or step



Range Overview

Injection moulded mudguard TA 220						
Part No.	RAL Colour	Maximum Tyre Radius				
1 258 630	Black RAL 9017	300 mm	1,58	-	30	2



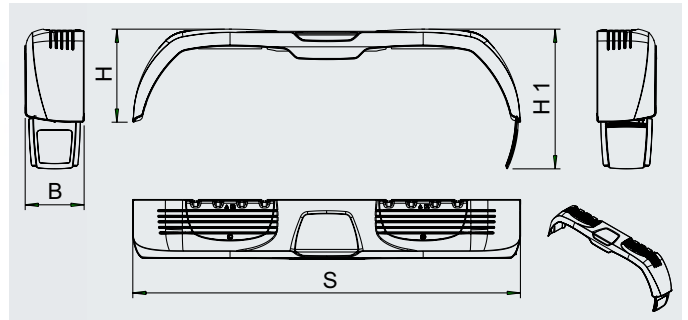
Range Overview

Injection moulded mudguard TA 240						
Part No.	RAL Colour	Maximum Tyre Radius				
1 258 632	Black RAL 9017	325 mm	1,71	-	30	2

Accessories

Mudguards injection molded TA 220/240

With mud flap



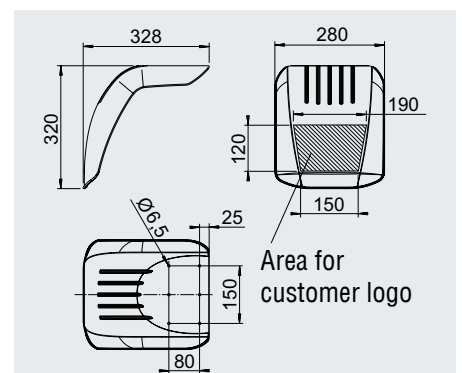
Range Overview

Injection moulded mudguard TA 220/240 with mud flap											
Part No. Inc Mud Flap	Direction	B mm	H mm	H1 mm	S mm	RAL Colour	Maximum Tyre Radius mm				
1 258 704	Left	220	350	520	1466	Black RAL 9017	300	1,65			20
1 258 705	Right	220	350	520	1466	Black RAL 9017	300	1,65			20
1 258 706	Left	240	350	520	1466	Black RAL 9017	325	1,80			20
1 258 707	Right	240	350	520	1466	Black RAL 9017	325	1,80			20

Mudguard Highloader injection molded HL 280

Mudguard Highloader

- Material PP / EPDM (combination of polypropylene and ethylene-propylene-diene rubber)
- Temperature range from +80° to -30°
- Complies with Outer Edge specification of Directive 74/483/EEC
- Drainage grooves for rainwater removal
- Fixing hole positions
- Inlay for customised logo insert or step



Range Overview

Mudguard Highloader injection molded						
Part No.	RAL Colour	Maximum Tyre Radius				
1 258 634	Black RAL 9017	300 mm	0,46	-	00	2

Mud flap / Inlay Insert

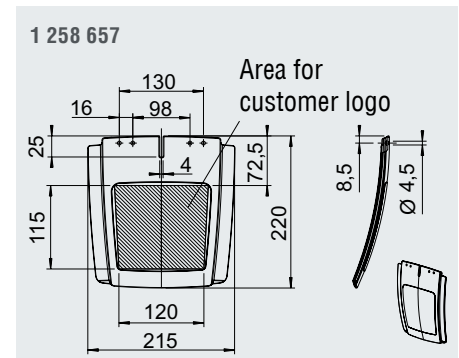
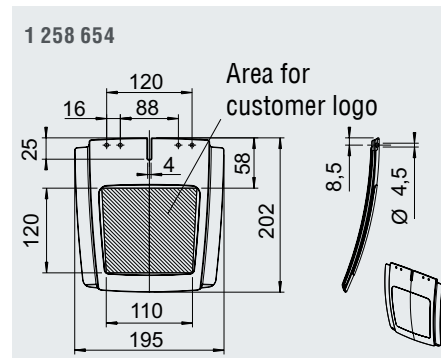
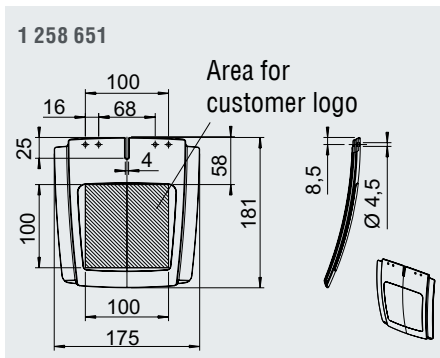


QUALITY FOR LIFE



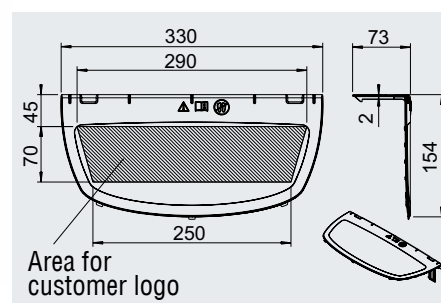
Range Overview

Mud flaps						
Part No.	Suitable for mudguard	RAL Colour				
1 258 651	SA 200	Black RAL 9017	0,07	-	200	2
1 258 654	SA 220/TA 220	Black RAL 9017	0,08	-	200	in preparation
1 258 657	SA 240/TA 240	Black RAL 9017	0,09	-	200	in preparation



Range Overview

Inlay Insert						
Part No.	Suitable for mudguard	RAL Colour				
1 258 636	SA 200/220/240 TA 220/240	Black RAL 9017	0,10	-	40	2
1 258 637	SA 200/220/240 TA 220/240	Silver RAL 9006	0,10	-	40	2
1 258 638	SA 200/220/240 TA 220/240	Red RAL 3020	0,10	-	40	2



Step Insert / Support Step



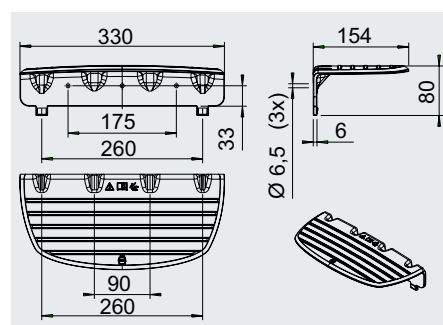
Range Overview

Step Insert							
Part No.	Suitable for mudguard	RAL Colour	Load kg				
1 258 639	SA 200/220/240 TA 220/240	Black RAL 9017	90	0,63	-	30	2
1 258 640	SA 200/220/240 TA 220/240	Silver RAL 9006	90	0,63	-	30	2

Installation Instructions for Step Insert & Support Step:

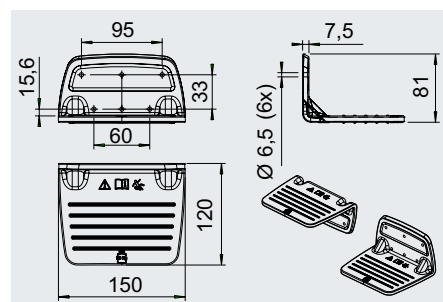
Installation on the side wall or frame of the trailer should be completed using M6 flat head screws (eg carriage bolts) with self locking nuts and washers (size min Ø 25 mm and thickness 1.5mm).

The step insert features a slight camber which adapts to the surface of the mud-guard during assembly. This ensures stability of the insert when in use.



Range Overview

Support Step							
Part No.	RAL Colour	Load kg					
1 258 642	Black RAL 9017	90	0,30	-	60	2	



Compact aluminium Ramps for small and medium loads

✓ Your advantage

- | Smooth transition from the sill to the ramp
- | Maximum grip with anti-slip hole edge profile
- | Wave shape guarantees smooth movement
- | Durable corrosion-resistant aluminium alloy
- | Light design for small and medium loads
- | Prevents slipping
- | TÜV tested

Safety

- | The maximum permissible ramp incline is 30% = 16.5°
- | The ramps must be secured on the load surface
- | Ramps must be used in pairs
- | The ramps may not be used in a horizontal position
- | Only go up the ramp under the supervision of a second person
- | The ramps may only be used to load and unload braked motor vehicles
- | Avoid driving or braking on the ramp quickly, as this puts an additional load on the ramps
- | Make sure to observe the other safety instructions in the instruction manual



📦 Contents

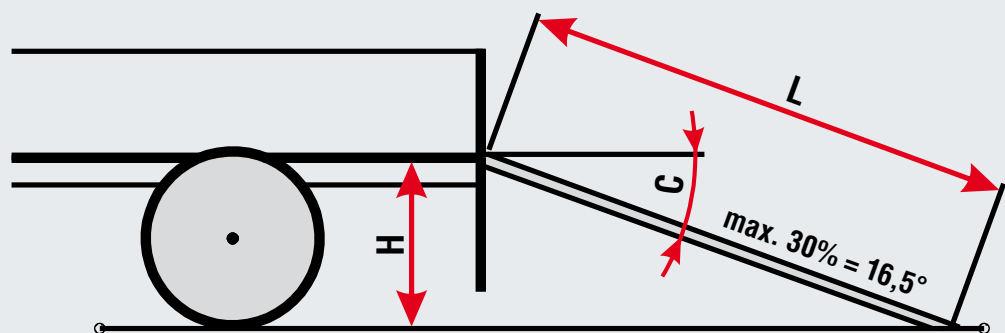
1 locking screw per ramp with end to end thread and nut. The screw prevents slipping in the gap between the wall and the base.



Calculation of ramp length

L = ramp length (mm)
H = Loading height (mm)
C = Gradient (%)

$$L = \frac{H}{C} \times 100$$



Example:

Step 1: measure/calculate

The measured load height H is 400 mm. The max. permissible ramp gradient C of 30% is used.

Formula: $L = \frac{400}{30} \times 100$





Result: 1333 mm = ramp length L min.

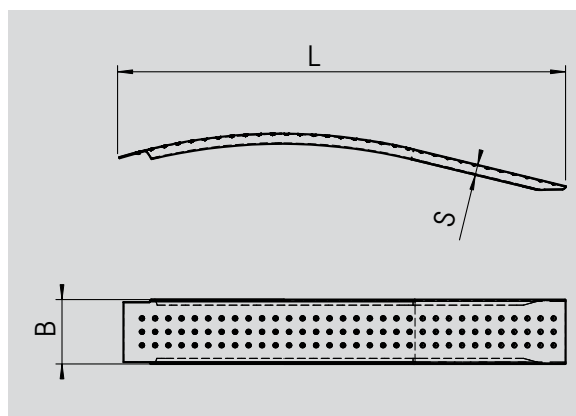
Step 2: Select ramp in the table





According to the table, is the selected ramp designed for a load height of 400 mm (load height min. – max. H mm)? According to the table, is the load capacity sufficient?

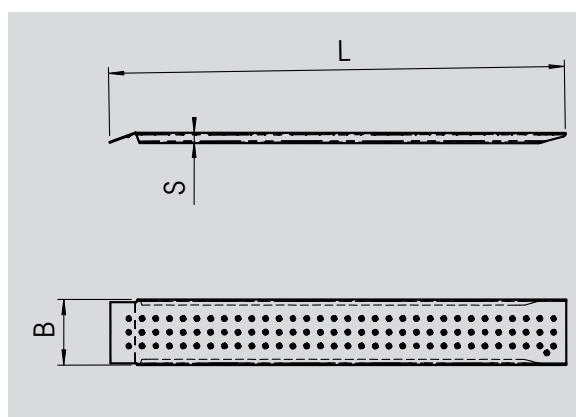
Compact aluminium Ramps

for small and medium loads

Ramps curved										
Part No. per pair	Type	Length	Width	Height	Loading height H mm min. – max	Load capacity per pair for distance between axles				Weight per pair kg
		L mm	B mm	S mm						
130 568	400/1500/215	1500	215	30	200-250	260 kg	330 kg	400 kg	400 kg	6,8
130 586	400/2000/225	2000	225	40	300-380	260 kg	330 kg	400 kg	400 kg	10,2



Ramps straight										
Part No. per pair	Type	Length	Width	Height	Loading height H mm min. – max	Load capacity per pair for distance between axles				Weight per pair kg
		L mm	B mm	S mm						
130 569	400/1500/215	1500	215	35	300-400	260 kg	330 kg	400 kg	400 kg	6,8
130 585	400/2000/225	2000	225	40	400-500	260 kg	330 kg	400 kg	400 kg	10,2
130 590	1000/2000/260	2000	260	85	400-500	650 kg	750 kg	800 kg	1000 kg	19,4
130 570	1000/2500/260	2500	260	70	600-700	650 kg	750 kg	800 kg	1000 kg	26,4



Professional aluminium ramps for heavy loads

✔ Your advantage

- | All ramps are CE and GS tested and certified. Many applications only require the use of a single ramp, not a pair of ramps (e.g. transporting motorcycles). For this reason AL-KO delivers individual ramps and provides you with an excellent cost/quality ratio.
- | Not all aluminium is created equal! AL-KO is committed to a combination of alloys 6005 + 6082: 6005 has outstanding weldability and optimal corrosion protection, while aluminium 6082 provides AL-KO ramps with their excellent durability: this alloy guarantees the greatest durability of all 6000 alloys and is commonly used in bridge construction for this reason.
- | 100% quality control. Every ramp is individually inspected.

You shouldn't settle for anything less. You are justified in expecting **QUALITY FOR LIFE!** from AL-KO.

Safety

- | The maximum permissible ramp incline is 30% = 16.5°.
- | The ramps must be secured on the load surface.
- | Ramps must be used in pairs for multitrack vehicles.
- | The ramps may not be used in a horizontal position.
- | Only go up the ramp under the supervision of a second person.
- | The ramps may only be used to load and unload braked motor vehicles.



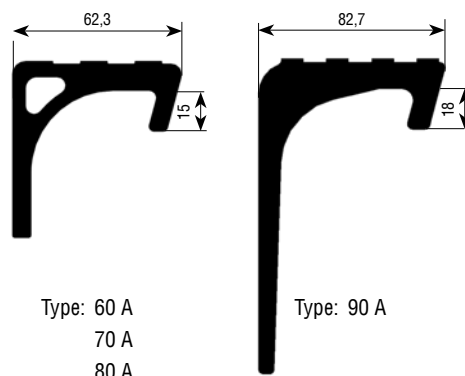
Professional ramps for heavy loads

straight and cranked

Version A



Supporting profile „A”



Range Overview

Item Part No.	Type	Version	Length L mm	Extern. Width B mm	Height H mm	max. Load height LH mm	Load capacity for distance X between axles			
							1,00 m		1,50 m	
							Unit [kg]	Pair [kg]	Unit [kg]	Pair [kg]
1 224 700	60A20GH450	A	2.000	300	60	450	1.215	2.430	1.215	2.430
1 224 701	60A20GH600	A	2.000	300	60	600	1.215	2.430	1.215	2.430
1 224 702	60A20 H539	B	2.000	300	60	539	1.215	2.430	1.215	2.430
1 224 703	60A25GH450	A	2.500	300	60	450	870	1.740	950	1.900
1 224 704	60A25GH600	A	2.500	300	60	600	870	1.740	950	1.900
1 224 705	60A25 H665	B	2.500	300	60	665	870	1.740	950	1.900
1 224 706	70A20GH450	A	2.000	300	70	450	1.500	3.000	1.500	3.000
1 224 707	70A20GH600	A	2.000	300	70	600	1.500	3.000	1.500	3.000
1 224 708	70A20 H552	B	2.000	300	70	552	1.500	3.000	1.500	3.000
1 224 709	70A25GH450	A	2.500	300	70	450	1.070	2.140	1.165	2.330
1 224 710	70A25GH600	A	2.500	300	70	600	1.070	2.140	1.165	2.330
1 224 711	70A25 H679	B	2.500	300	70	679	1.070	2.140	1.165	2.330
1 224 712	80A20GH450	A	2.000	300	80	450	1.745	3.490	1.745	3.490
1 224 713	80A20GH600	A	2.000	300	80	600	1.745	3.490	1.745	3.490
1 224 714	80A20 H552	B	2.000	300	80	552	1.745	3.490	1.745	3.490
1 224 715	80A25GH450	A	2.500	300	80	450	1.250	2.500	1.355	2.710
1 224 716	80A25GH600	A	2.500	300	80	600	1.250	2.500	1.355	2.710
1 224 717	80A25 H679	B	2.500	300	80	679	1.250	2.500	1.355	2.710
1 224 718	90A20GH450	A	2.000	400	90	450	2.030	4.060	2.030	4.060
1 224 719	90A20GH600	A	2.000	400	90	600	2.030	4.060	2.030	4.060
1 224 720	90A20 H552	B	2.000	400	90	552	2.030	4.060	2.030	4.060
1 224 721	90A25GH450	A	2.500	400	90	450	1.450	2.900	1.580	3.160
1 224 722	90A25GH600	A	2.500	400	90	600	1.450	2.900	1.580	3.160
1 224 723	90A25 H679	B	2.500	400	90	679	1.450	2.900	1.580	3.160

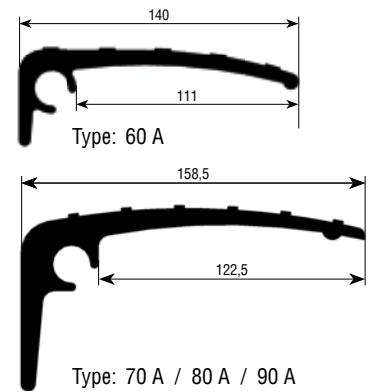
Version B



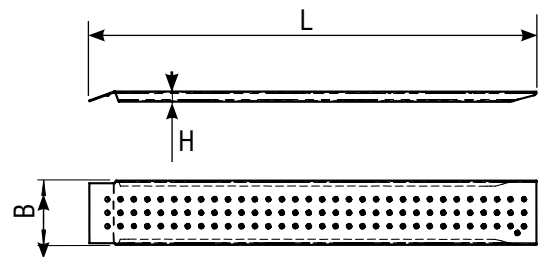
Shipment Version B



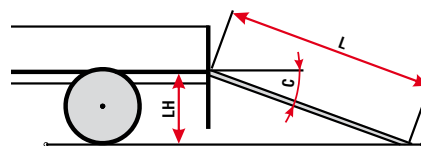
Supporting profile „B”



Load capacity for distance X between axles 2,00 m		Weight of the ramp	
Unit [kg]	Pair [kg]	Unit [kg]	Pair [kg]
1.215	2.430	10,4	20,8
1.215	2.430	10,4	20,8
1.215	2.430	11,0	22,0
950	1.900	12,6	25,2
950	1.900	12,6	25,2
950	1.900	13,0	26,0
1.500	3.000	10,7	21,4
1.500	3.000	10,7	21,4
1.500	3.000	11,6	23,2
1.165	2.330	13,0	26,0
1.165	2.330	13,0	26,0
1.165	2.330	13,9	27,8
1.745	3.490	10,7	21,4
1.745	3.490	10,7	21,4
1.745	3.490	11,6	23,2
1.355	2.710	13,0	26,0
1.355	2.710	13,0	26,0
1.355	2.710	13,9	27,8
2.030	4.060	13,7	27,4
2.030	4.060	13,7	27,4
2.030	4.060	13,7	27,4
1.580	3.160	16,3	32,6
1.580	3.160	16,3	32,6
1.580	3.160	16,4	32,8



Calculation of ramp length



L = ramp length (mm)
LH = load height (mm)
C = gradient (%)

$$L = \frac{LH}{C} \times 100$$

Example:

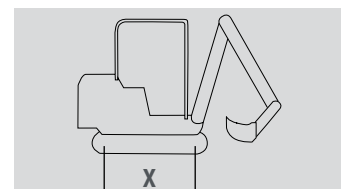
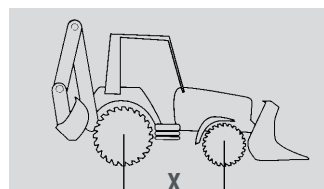
Step 1: measure / calculate:

The measured load height is 400 mm. The max. permissible ramp gradient C of 30 % is used.

Formula: $L = \frac{400}{30} \times 100$ result: 1333 mm = ramp length L min.

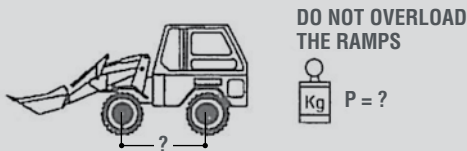
Step 2: Select ramp in the table:

According to the table, is the selected ramp designed for a load height of 400 mm (load height min. – max. H mm)? According to the table, is the load capacity sufficient?

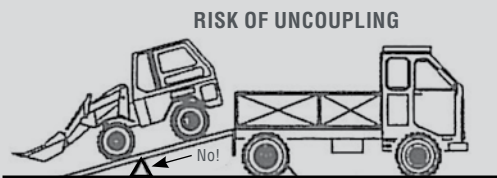


Instructions

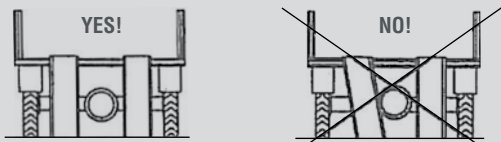
- 1 Before loading, make sure that the distance between the axles, weight of the vehicle and load distribution are all within standard limits.



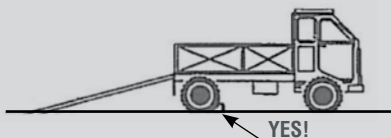
- 2 Do not support the ramps to increase their load bearing capacities.



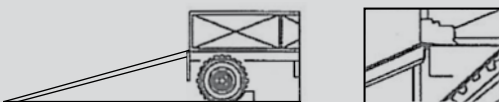
- 3 Check the vehicle track width and adjust the distance between the axles accordingly. Make sure that the ramps are parallel.



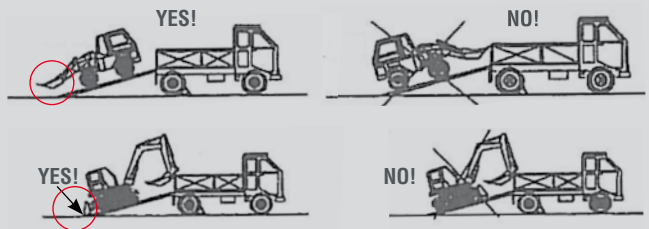
- 4 Lower the transport vehicle for loading, lock the wheels and pull the handbrake. Switch off the engine and remove the key from the control panel. The loading area should be horizontal.



- 5 Lean the ramps against the HGV structure and fix them in place. Check the load bearing capacity of the ramps before using them.



- 6 When using the ramps, make allowances for how the load is distributed on the axles: the axle under a higher load should always be higher. If you are using an attachment to stabilise the machine, it should be lower down.

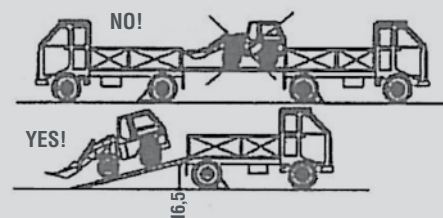


- 7 Scoops and similar attachments must be lowered and emptied before loading, even if the total weight is under the max. permissible weight.

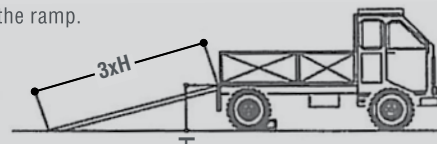
- 8 Only go up or down the ramp under the supervision of a second person.

- 9 Max. permissible speed on ramps: 2m/min. Sudden braking or movement should be avoided at any cost.

- 10 The ramps should not be used to walk on.



- 11 The max. permissible height of the higher side of the ramp – measured from the ground – may not exceed 1/3 of the length of the ramp.



- 12 The ramps must be unhooked and laid on the ground after you finish loading. Be careful not to let the ramps fall on people's limbs, machinery or electric cables.

- 13 Loading ramps weighing more than 30 kg must be stored using lifting jacks or by more than one person.

Warning: Please check the ramps regularly for any cracks or gaps which may have opened up.

Notes



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