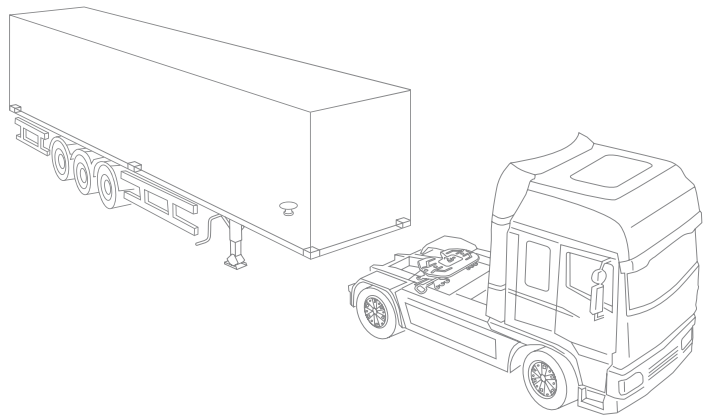
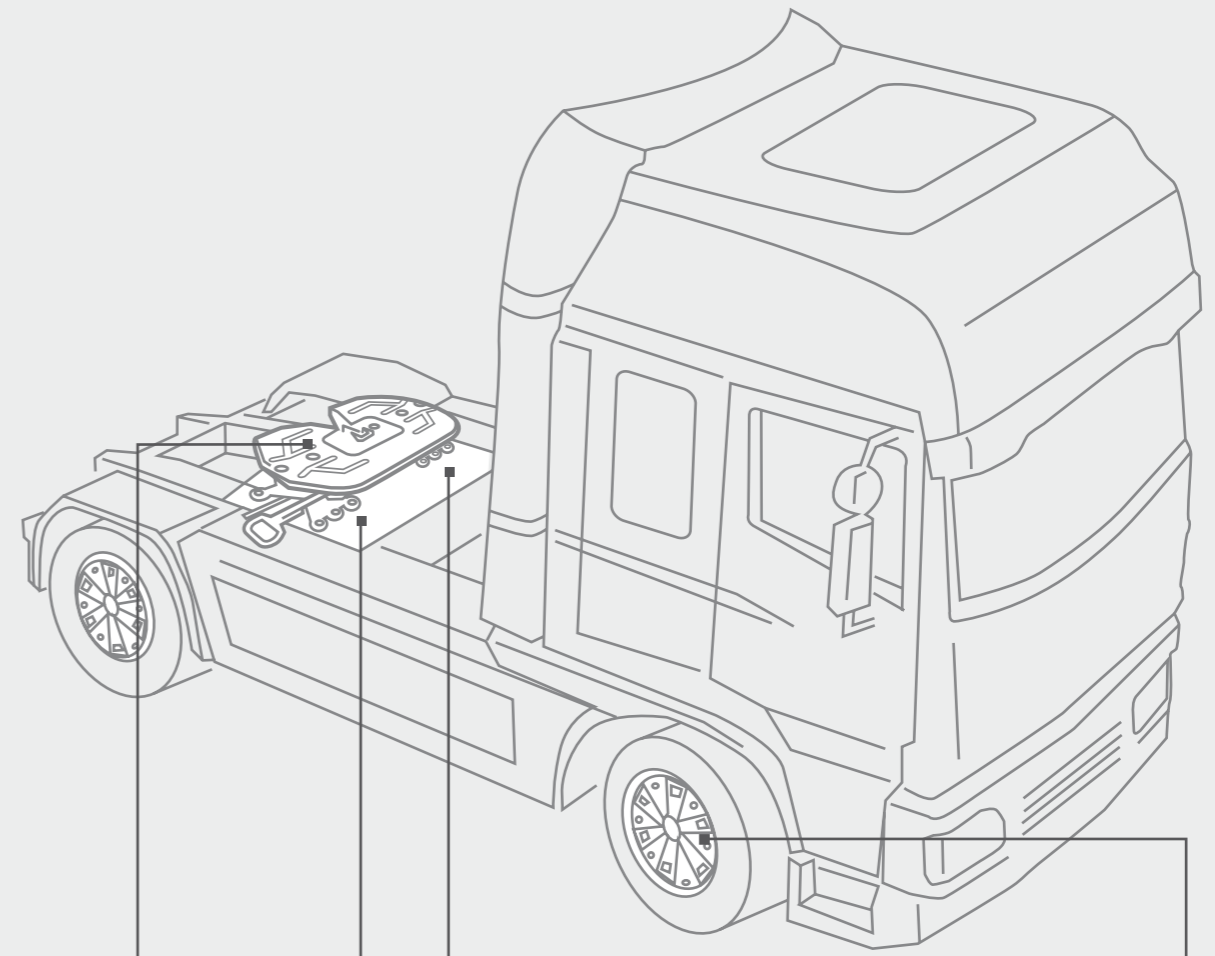
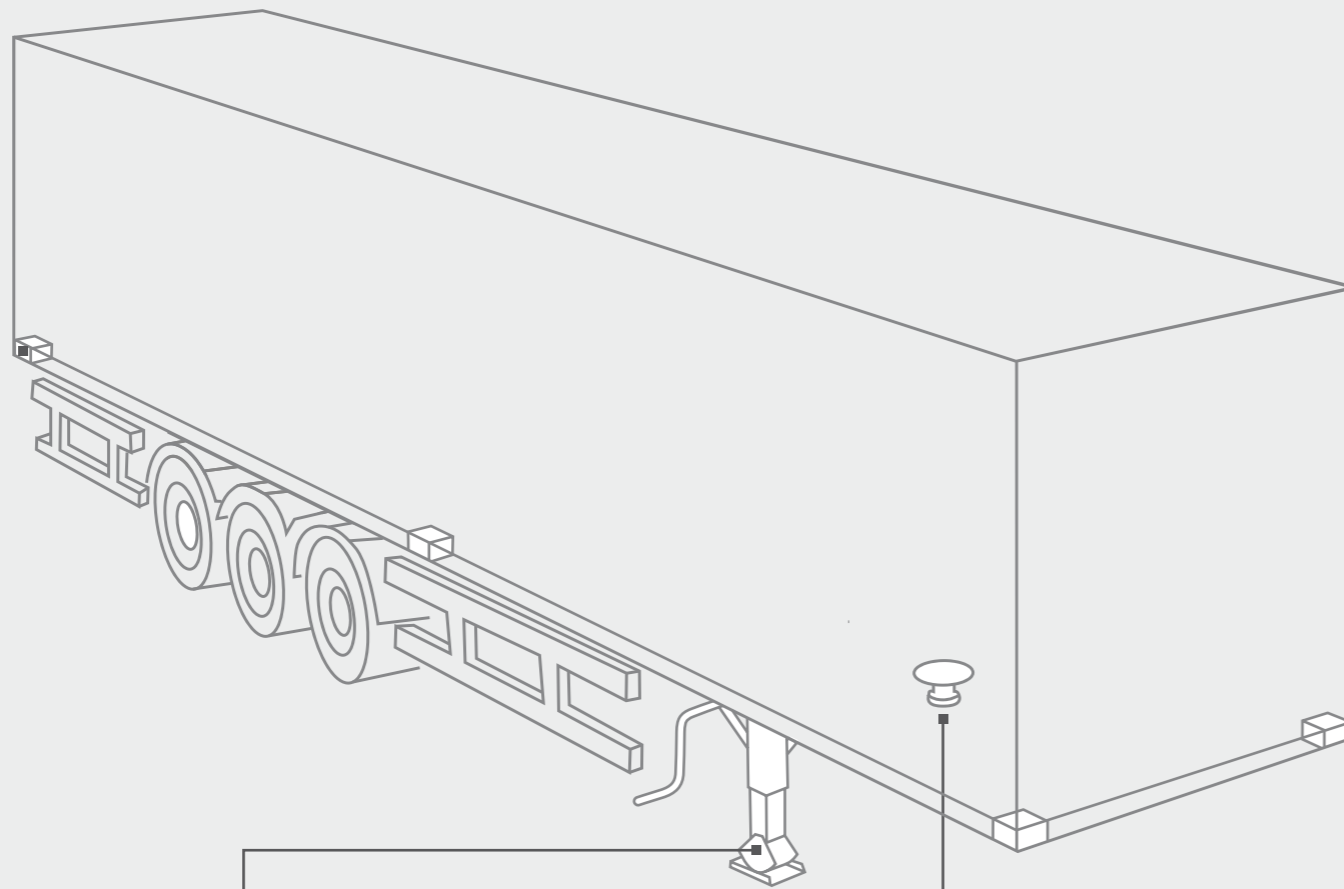


PRODUCT CATALOGUE

PREMIUM
SYSTEMS AND
COMPONENTS
FOR TRACTORS,
SEMI-TRAILER AND
TRAILERS





Accessories

Hubodometer, Steering wedge, Grease cartridge, Anti-theft lock



S. 135

Landing Legs

multiple variants



S. 165

Kingpins

2" and 3½" models



S. 141

Ball Races

for drawbar trailers



S. 161

Fifth Wheels

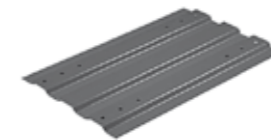
Lightweight Fifth Wheel
Standard Fifth Wheel
Heavy Duty Fifth Wheel



S. 7

Mounting Plates

Pre-Drilled
Un-Drilled
Mounting Kits



S. 127

Sliders

To permissible axle loads and
vehicle lengths



S. 103

TRILEX® wheel system

Wheelspider, Rims, Spacing
rings, Clamps and Bolts



S. 171

Contents

Order information.....	6
Fifth Wheels.....	7
Lightweight Fifth Wheels	9
GC 6.....	10
Spare parts.....	11
Repair kit	12
Height-adjustable.....	15
SK-S 36.20 PLUS H.....	16
Spare parts.....	18
Standard-Fifth Wheel	21
SK-S 36.20 PLUS (Standard)	22
Spare parts.....	23
Repair kit	25
SK-S 36.20 PLUS W (low maintenance)	26
Spare parts.....	27
Repair kit	29
SK-S 36.20 PLUS D (direct mounting)	30
Spare parts.....	31
SK-S 36.20 PLUS DW (direct mounting).....	33
Spare parts.....	34
SK-S 36.20 PLUS V (mounting angles)	36
Spare parts.....	37
SK-S 36.20 PLUS VW.....	39
Spare parts.....	40
FW 3510.....	42
Spare parts.....	43
FW 3110.....	45
Spare parts.....	46
GES 20 (Pressed-steel fifth wheel)	48
Spare parts.....	49
Repair kit	50
RECOSS®	53
SK-S 36.20 PLUS	54
Spare parts.....	57
Heavy Duty Fifth Wheel.....	61
SK-HD 38.36.....	62
Spare parts SK-HD 38.36 from serial number 40001301	63
Spare parts SK-HD 38.36 up to serial number 40001300.....	65
SK-HD 38.36G (off-road use)	67
Spare parts SK-HD 38.36 G from serial number 40001301	68
Spare parts SK-HD 38.36 G up to serial number 40001300.....	70
FW0E70.....	72
Spare parts.....	73
FW2E70.....	75
Spare parts.....	76
Heavy Duty Fifth Wheel – up to 74 t imposed load.....	79
FW0100.....	80
Spare parts.....	81
FW0165.....	83
Spare parts.....	84
Heavy Duty Fifth Wheel – Terminal Tractor.....	87
FW3510-TR.....	88
Spare parts.....	89
FW0E70-T.....	91
Spare parts.....	92
Specialised Fifth Wheel – Kompensator up to 34 t imposed load.....	95
FW3540 + FW3140.....	96
Spare parts.....	97
FW7E40.....	99
Spare parts.....	100

Sliders	103
SK-V 20 (standard)	104
Spare parts	107
SK-V 20 (pneumatic)	108
SK-V 36 (heavy duty)	110
Sliders	112
Spare parts	113
Original-Parts	117
RECOSS® 2-Sensor-safety system for SK-S 36.20	118
Spare parts SK-L 26.3	119
Spare parts SK-S 36.20 (phased-out range)	120
Spare parts SK-S 36.20 V (long mounting angles)	122
Spare parts SK-S 36.20 H / SK-S 36.22 H	124
Mounting-plates	127
Mounting plates without predrilled holes	128
Mounting plates with predrilled holes	130
Weightsaver for 20 tons	131
Mounting kits	133
Accessoires	135
Anti-theft lock	136
Steering wedge for semi trailers with forced steering	137
Hubodometer Mileage indicator for trailers	138
Grease cartridge for SK-S 36.20 W	139
King Pins	141
Kingpins	142
Overview of product range	143
Kingpins 50 mm (2") – KZ 108, 117, 119, 491	144
KZ 600, 601, 602, 630	145
KZ 052	146
KZ 604	147
KZ Type 64	148
KZ Type 65	149
Kingpins 90 mm (3½") – KZ 603	150
KZ 170, 241, 304	151
KZ 605, 606, 607	152
KZ Type 63	153
Kingpins mounting (2" to 3½")	154
KZ Type 67	155
Fitting instructions	156
Reference gauge	157
Kingpin adaptor 2" to 3½"	158
Ball races	161
Ball Races for drawbar trailers	162
Landing Leg	165
Landing Leg CLASSIC	166
Table of parts	167
Parts overview	169
Original TRILEX® Wheel system	171
Tyre and rim combinations	174
TRILEX® -wheelspiders	176
TRILEX® -adaptors	177
Rims	178
Spacing rings	178
Clamps	179
Nuts and sundries for TRILEX® -wheels	180
Bolts	181
Tools	182
Valves for TUBLEX® and UNILEX® rims Tools	183

Order information for products and spare parts

General remarks

As per the following catalogue you will find the types of fifth wheels available:

- 1) Choose the type of fifth wheel to fit your requirements and conditions of use.
- 2) Depending on the model various versions and additional options are available. They can be combined.
- 3) The required overall height is defined by the height of the mounting brackets and the mounting plates.
- 4) The fifth wheel can be mounted with a mounting plate on the vehicle frame. Undrilled or already to OEM specific wish predrilled mounting plates are available. Please indicate the type of vehicle when ordering.
- 5) Alternative solutions are either the weight saving direct mounting or the flexible assembly on a slider.
- 6) Pre-assembled mounting kits contain all necessary mounting accessories.

Please take note of the ordering information on the product and spare part pages.

Assembly and mounting

When mounting the fifth wheels the SAF-HOLLAND instructions, the assembly instructions of the vehicle manufacturers as well as the respective valid legal regulations are to be followed.

- Please take note of the required locking torque for bolts.
- Self-locking micro-encapsulated bolts are to be exchanged after use.

Operating and maintenance

The correct operating, maintenance and care prolong the life span of the fifth wheel significantly. Please take note of the operating and maintenance information in your operating manual.

Mounting, operating and maintenance instructions are available in PDF format on our homepage www.safholland.com.

Spare parts in original quality

Products from HOLLAND, GF and SAF stand out due to their high maintainability. The few moving wearing parts can easily and quickly be exchanged. We recommend the use of original SAF-HOLLAND spare parts which are available in pre-assembled repair kits for wear ring,

locking mechanism and bearings. The suitable spare parts for your model are to be found directly after the product page. The spare parts for the phased out range is in a separate chapter. The exploded drawing will help you to locate quickly the part to be exchanged. In the column **Disp.** indicates the shopping cart icon whether this part can be ordered separately.

Repair kits for the standard version SK-S 36.20 PLUS are compatible to the versions direct mounting D and mounting angles V as well as the phased out models SK-S 36.20. Repair kits for low maintenance models are also compatible to each other.

Type plate

Please always indicate the serial number of your fifth wheel when placing your spare part order, it is located on the manufacturer's plate and laterally engraved at the platemark.

SAF-Holland	Baujahr Year Annee	2008	D	162,4
	Serie	6666666	Klasse class	U 20,0
	Mod. Ausf.	662129046	e1	00- 0218
	Type	SK-S 36.20		

Enquiries and orders

SAF-HOLLAND with its worldwide distribution network will supply you reliably and quickly with products and spare parts. Please contact your nearest SAF-HOLLAND retailer for commercial vehicles, representatives or subsidiary. A list of our international representatives and foreign distributors can be found under: www.safholland.com.

FIFTH WHEELS

HOLLAND AND GF
FIFTH WHEELS
FROM 6-74 TONS



Notice

LIGHTWEIGHT FIFTH WHEEL

GC 6

LIGHT FIFTH WHEEL
UP TO 6 TONS
IMPOSED LOAD

GC 6

Lightweight, cast 6t fifth wheel optimised for midsized distribution vehicles and volume transport

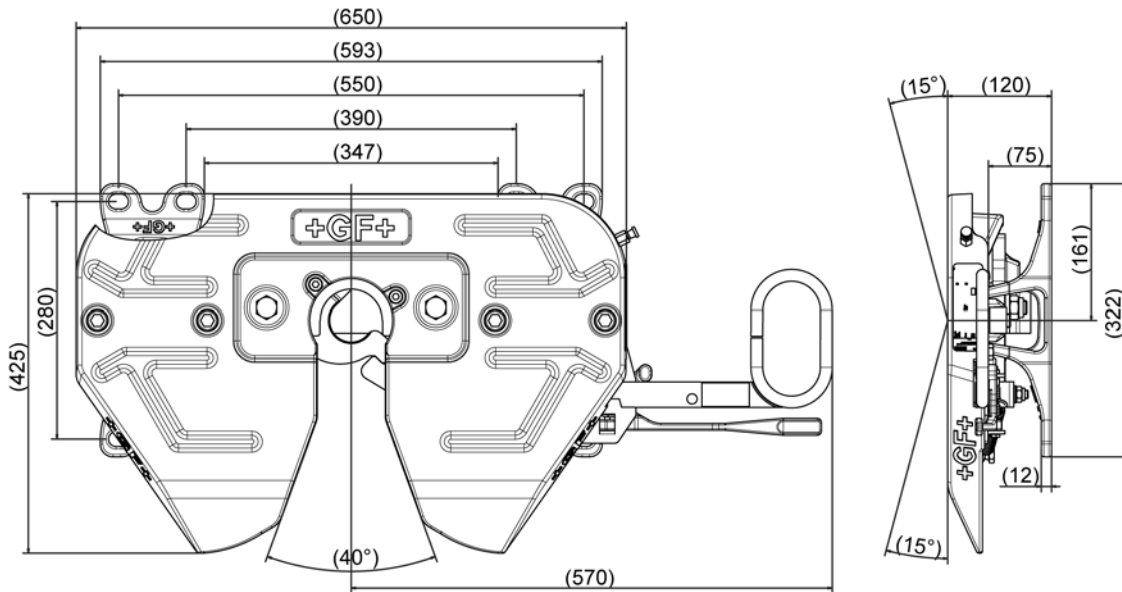
- 2" fifth wheel with replaceable wear ring
- Single-handed operation
- Automatic safety lock
- Low-maintenance bearings
- Lubrication channels for effective grease flow
- Wear ring fully compatible with SK-S 36.20
- Connections for optional grease cartridge
- EU test no.: e11*94/20*6737



Technical data

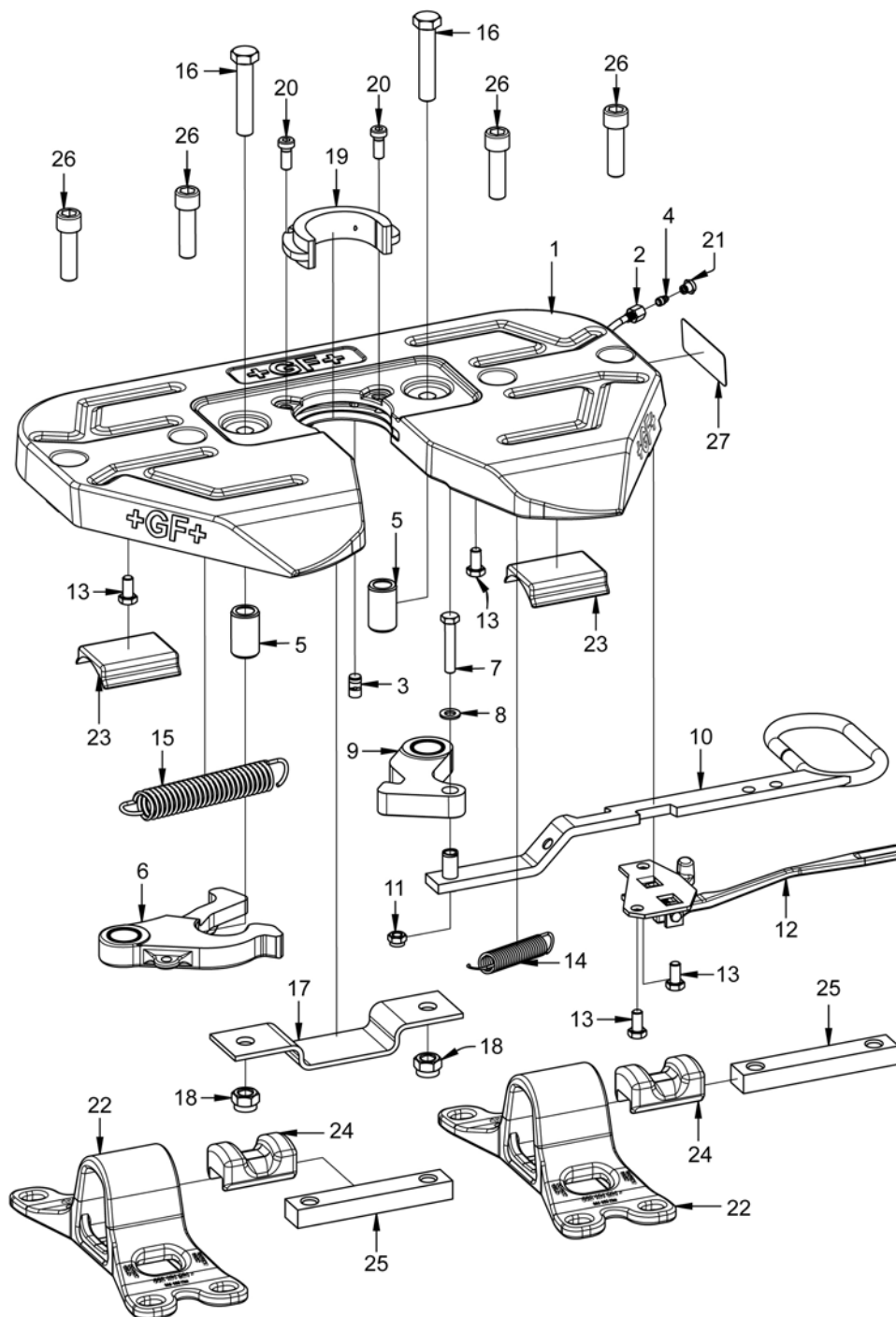
Type	Lock size	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	inch	mm	t	kN	kg	degree (w1/w2)	
GC 6	2"	120	6	49,0	45	max.15° / max.15°	662 121 005

Dimensions



Subject to modifications in dimensions and design

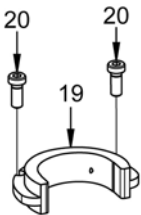
Spare parts GC 6



Item	Component (price per piece)	Pcs.	Disp.	Order no.
	Repair kit for wear ring (19,20)			662 101 566
	Repair kit for locking mechanism (6,16,18,19,20)			662 101 739
	Repair kit for bearings (23,24,26)			662 101 740
1	Fifth wheel plate	1		662 121 020
2	Lubrication tube	1		659 144 160
3	Grease plug	1		662 129 380
4	Grease nipple	1		662 126 224
5	Pin	2		662 119 141
6	Coupler jaw assembly	1		662 121 026

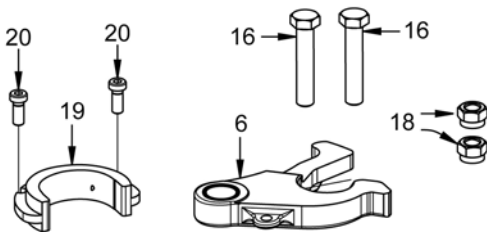
Item	Component (price per piece)	Pcs.	Disp.	Order no.
7	Hex. bolt	1		659 112 655
8	Washer	1		662 126 175
9	Locking hook assembly	1		662 119 139
10	Operating handle, complete	1		662 121 027
11	Nut	1		659 100 036
12	Lock mechanism	1		662 121 031
13	Hex. bolt	4		659 112 359
14	Tension spring	1		662 121 029
15	Tension spring	1		662 126 410
16	Hex. bolt	2		659 112 355
17	Mounting	1		662 119 142
18	Nut	2		662 126 152
19	Wear ring	1		662 129 377
20	Cap screw	2		659 112 372
21	Cap	1		659 144 142
22	Mounting bracket	2		662 121 021
23	Bearing insert	2		662 121 022
24	Rubber damper	2		662 121 023
25	Tensioning bar	2		662 121 024
26	Cap screw	4		659 112 377
27	Type plate	1		659 120 420

Repair kit for wear ring (662 101 566)



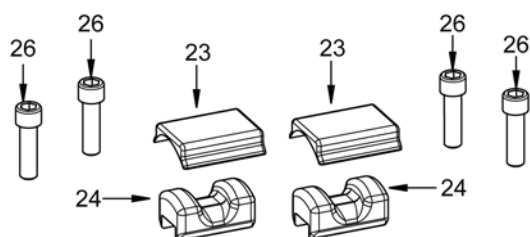
Item	Component (price per piece)	Pcs.	Disp.	Order no.
	Repair kit for wear ring (19,20)			662 101 566
19	Wear ring	1		662 129 377
20	Cap screw	2		659 112 372

Repair kit for locking mechanism (662 101 739)



Item	Component (price per piece)	Pcs.	Disp.	Order no.
	Repair kit for locking mechanism (6,16,18,19,20)			662 101 739
6	Coupler jaw assembly	1		662 121 026
16	Hex. bolt	2		659 112 355
18	Nut	2		662 126 152
19	Wear ring	1		662 129 377
20	Cap screw	2		659 112 372

Repair kit for bearings (662 101 740)



Item	Component (price per piece)	Pcs.	Disp.	Order no.
	Repair kit for bearings (23,24,26)			662 101 740
23	Bearing insert	2		662 121 022
24	Rubber damper	2		662 121 023
26	Cap screw	4		659 112 377

Notice

HEIGHT-ADJUSTABLE FIFTH WHEEL

SK-S 36.20 PLUS H

HEIGHT-ADJUSTABLE
UP TO 15T IMPOSED
LOAD

SK-S 36.20 PLUS H (Versatile in use)

Height adjustable fifth wheel

The SAF-HOLLAND dual height fifth wheel is designed for 2-axle semi-trailer tractors for large volume transport. The dual height feature allows the use of the same semi-trailer tractor with various trailers.

- Extremely robust and user friendly
- Weight optimised model
- Permanent, low maintenance bearings
- Connections for central lubrication
- Simple and safe wear adjustment
- Automatic safety lock
- Approved for forced steering
- EU test no.: e 11-00-1381



Ordering instructions

- The standard versions listed are not pre-drilled
- Mounting hole patterns available for DAF, Iveco, MAN, Mercedes-Benz, Renault, Scania, Volvo
- Indicate type and coupling point of semi-trailer tractor when placing an order
- The coupling point is measured from the centre of the rear axle to the centre of the kingpin in lowered position
- The manufacturer's mounting kits are to be used
- Conversion kit for central lubrication system optionally available

SK-S 36.20 PLUS H

Type	Model	Overall height	Imposed load	D-value	Weight	Dimensions	Order no.
		mm	t	kN	kg	mm	
SK-S 36.20 PLUS H	Standard	167-267	15	110	329	1205x980	662 132 311
SK-S 36.20 PLUS H	Standard	167-317	15	110	334	1205x980	662 132 312
SK-S 36.20 PLUS H	Standard	167-367	15	110	336	1205x980	662 132 313

SK-S 36.20 PLUS HS RECOSS

Type	Model	Overall height	Imposed load	D-value	Weight	Dimensions	Order no.
		mm	t	kN	kg	mm	
SK-S 36.20 PLUS HS	Standard	167-267	15	110	329	1205x980	662 132 331
SK-S 36.20 PLUS HS	Standard	167-317	15	110	334	1205x980	662 132 332
SK-S 36.20 PLUS HS	Standard	167-367	15	110	336	1205x980	662 132 333

SK-S 36.20 PLUS HW (low maintenance fifth wheel plate)

Type	Model	Overall height	Imposed load	D-value	Weight	Dimensions	Order no.
		mm	t	kN	kg	mm	
SK-S 36.20 PLUS HW	Standard	167-267	15	110	329	1205x980	662 132 351
SK-S 36.20 PLUS HW	Standard	167-317	15	110	334	1205x980	662 132 352
SK-S 36.20 PLUS HW	Standard	167-367	15	110	336	1205x980	662 132 353

SK-S 36.20 PLUS HWS (low maintenance fifth wheel plate, RECOSS®)

Type	Model	Overall height	Imposed load	D-value	Weight	Dimensions	Order no.
		mm	t	kN	kg	mm	
SK-S 36.20 PLUS HWS	Standard	167-267	15	110	329	1205x980	662 132 371
SK-S 36.20 PLUS HWS	Standard	167-317	15	110	334	1205x980	662 132 372
SK-S 36.20 PLUS HWS	Standard	167-367	15	110	336	1205x980	662 132 373

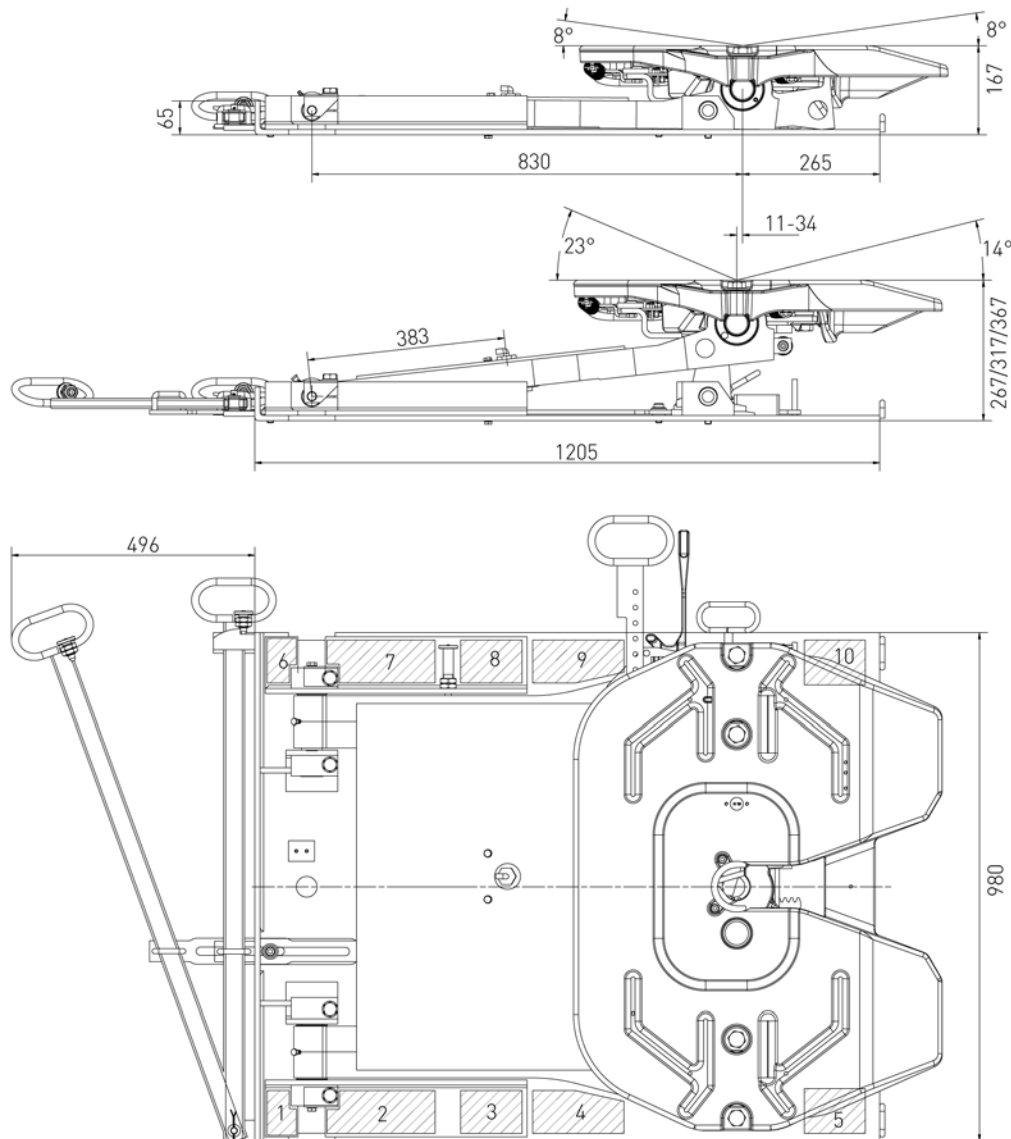
Lift sub-assembly, complete

Type	Model	Overall height	Weight	Dimensions	Order no.
		mm	kg	mm	
Lift sub-assembly, complete	Standard	167-267	252	1205x980	662 132 051
Lift sub-assembly, complete	Standard	167-317	257	1205x980	662 132 052
Lift sub-assembly, complete	Standard	167-367	259	1205x980	662 132 053

Technical data

- Movement around lateral axis at basic height $\pm 8^\circ$
- Operation: adjustable (to max. 8 bar) in unhitched state by means of the tractor's compressed air system with pneumatic support (air bellows)
- Coupling point changes when adjusting height: 11 mm [267] / 24 mm [317] / 34 mm [367]

Dimensions



- The fixing holes (max. \varnothing 21 mm) may be drilled in these 10 areas
- Increase number of bolts accordingly when using bolts with a smaller diameter
- Mounting hole pattern according to DIN 74081
- Depending on the wheelbase, an additional mounting angle set is required for installing on a Scania chassis
- Subject to modifications in dimensions and design

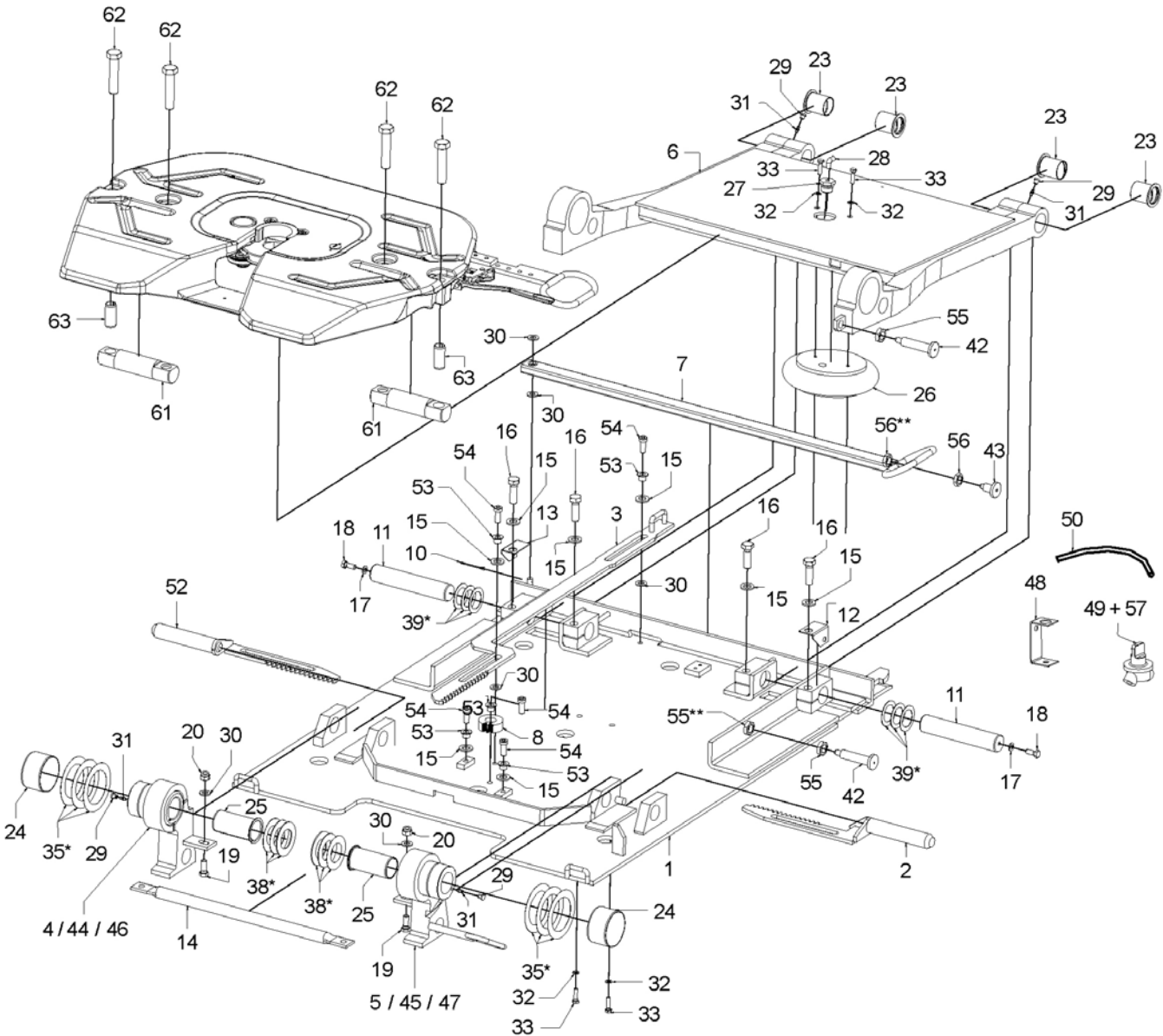
Mounting kits SK-S 30.20 PLUS H

Type	Mounting	Model	Order no.
Mounting kit 725	Mercedes-Benz (Actros), Australia, New Zealand	14 x M20	662 101 725
Mounting kit 726	Iveco (Stralis), MAN (TGA), DAF (XF95, XF105)	14 x M16	662 101 726
Mounting kit 728	Volvo (FH12)	20 x M14	662 101 728
Mounting kit 729	Scania (CA, LA, DA, Serie R)	14 x M18	662 101 729
Mounting kit 731	Renault (Magnum, Premium)	14 x M16	662 101 731
Scania mounting angle kit 734	Kit needed for Scania wheelbase of 3700 mm		662 101 734
Scania mounting angle kit 735	Kit needed for Scania wheelbase of 3550 mm		662 101 735

Spare parts SK-S 36.20 PLUS H

When placing your order, always indicate the article no. as well as the serial no. of your dual height fifth wheel.

Spare parts for fifth wheel plate see spare part list of the respective fifth wheel type



Item	Component (price per piece)	Pcs.	Disp.	Order no.
	Repair kits for rocker bearing (11,23,39*)			662 132 195
	Repair kits for support bearing (19,20,24,25,30,35*,38*)			662 132 196
1	Base plate	1		662 132 105
2	Locking pin (RHS)	1		662 132 161
3	Actuating rod	1		662 132 162
4	Left support 100 mm complete (25,29,31)	1		662 132 181
5	Right support 100 mm complete (25,29,31)	1		662 132 182
6	Rocker arm	1		662 132 165
7	Locking lever	1		662 132 170
8	Toothed wheel	1		662 132 119
10	Split pin	1		662 132 205
11	Shaft	2		662 132 110

Item	Component (price per piece)	Pcs.	Disp.	Order no.
12	Right locking plate	1		662 132 111
13	Left locking plate	1		662 132 155
14	Guide pipe	1		662 132 120
15	Washer	8		662 132 206
16	Hex. bolt	4		662 101 359
17	Spring washer	2		662 132 202
18	Hex. bolt	2		662 132 203
19	Hex. bolt	2		662 132 211
20	Locking nut	2		662 132 215
23	Bush	4		662 132 132
24	Bush	2		662 132 130
25	Bush	4		662 132 146
26	Air bellows	1		662 132 200
27	Air inlet adaptor	1		662 132 135
28	90° elbow connector	1		662 126 493
29	Cap	4		659 144 142
30	Washer	6		662 132 204
31	Grease nipple	4		662 132 214
32	Spring washer	4		662 132 208
33	Hex. bolt	4		662 132 207
35*	Spacer set	1		662 132 198
38*	Spacer set	1		662 132 197
39*	Spacer set	1		662 132 199
42	Spring lock	2		662 132 172
43	Spring lock	1		662 132 171
44	Left support 150 mm complete (25,29,31)	1		662 132 183
45	Right support 150 mm complete (25,29,31)	1		662 132 184
46	Left support 200 mm complete (25,29,31)	1		662 132 185
47	Right support 200 mm complete (25,29,31)	1		662 132 186
48	Mounting	1		662 132 139
49	Operating valve (3/2-way valve)	1		662 132 156
50	Pneumatic tube	1		662 132 169
52	Locking pin (LHS)	1		662 132 173
53	Flanged bush	5		662 132 174
54	Cap bolt	5		659 112 381
55**	Nut	3		659 115 313
56**	Nut	2		659 115 312
57	Nut (not shown)	1		659 115 314
60	Fifth wheel top plate assembly (available on request)	1		
61	Shaft	2		662 132 292
62	Hex. bolts	4		659 112 627
63	Spring pin	2		662 132 293

35* Set contains spacers D 116x80x0.5, D 116x80x1, D 116x80x2

38* Set contains spacers D 80x45,5x0.5, D 80x45,5x1, D 80x45,5x2

39* Set contains spacing washers D 65x40.5x0.5, D 65x40.5x1, D 65x40.5x2

***) Component welded with unit

Conversion kit for central lubrication (662 132 041)

Component (price per piece)	Pcs.	Disp.	Order no.
Conversion kit to connect on central lubrication system	1		662 132 041

Notice

**STANDARD-
FIFTH WHEEL**

UP TO 20T
IMPOSED LOAD

SK-S 36.20 PLUS (Standard)

The lightweight, cast 20t fifth wheel

- Weight optimised fifth wheel
- Dead weight reduced by 8 kg
- Reliable and robust
- Single handed operation
- Automatic safety lock
- Simple and safe wear adjustment
- Permanent, maintenance-free bearings
- Optimised lubrication channels for effective grease flow
- Connections for central lubrication

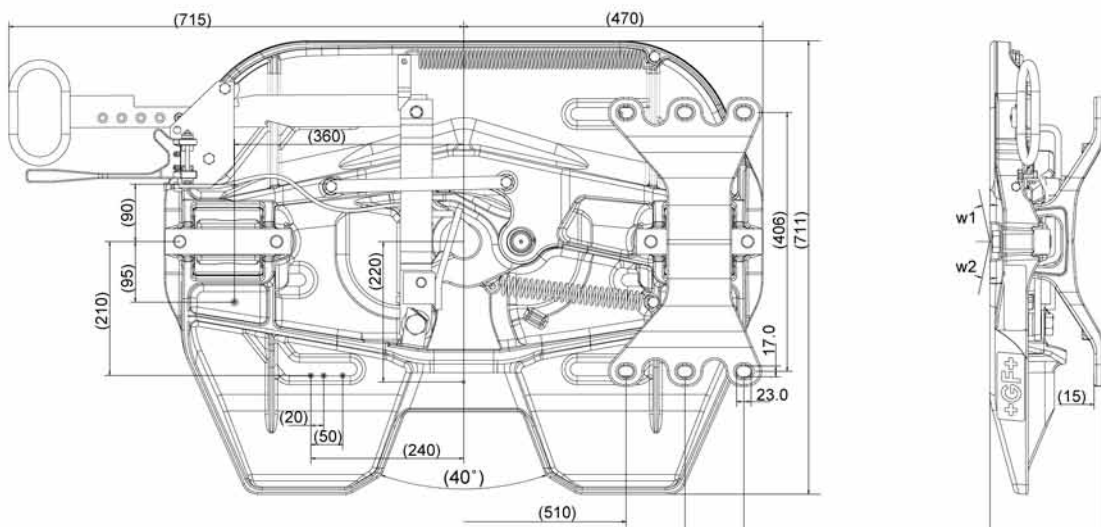


Technical data

Type	Lock size	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	inch	mm	t	kN		degree (w1/w2)	
SK-S 36.20 PLUS	2"	128*	20	152	116	8° / 8°	662 129 046
SK-S 36.20 PLUS	2"	150	20	152	116	8° / 13°	662 129 047
SK-S 36.20 PLUS	2"	185	20	152	119	17° / 26°	662 129 048
SK-S 36.20 PLUS	2"	225	20	152	121	23° / 30°	662 129 031
SK-S 36.20 PLUS	2"	250	20	152	131	29° / 42°	662 129 049
SK-S 36.20 PLUS Export Version	2"	150	20	152		8° / 13°	662 129 084
SK-S 36.20 PLUS Export Version	2"	185	20	152		17° / 26°	662 129 085

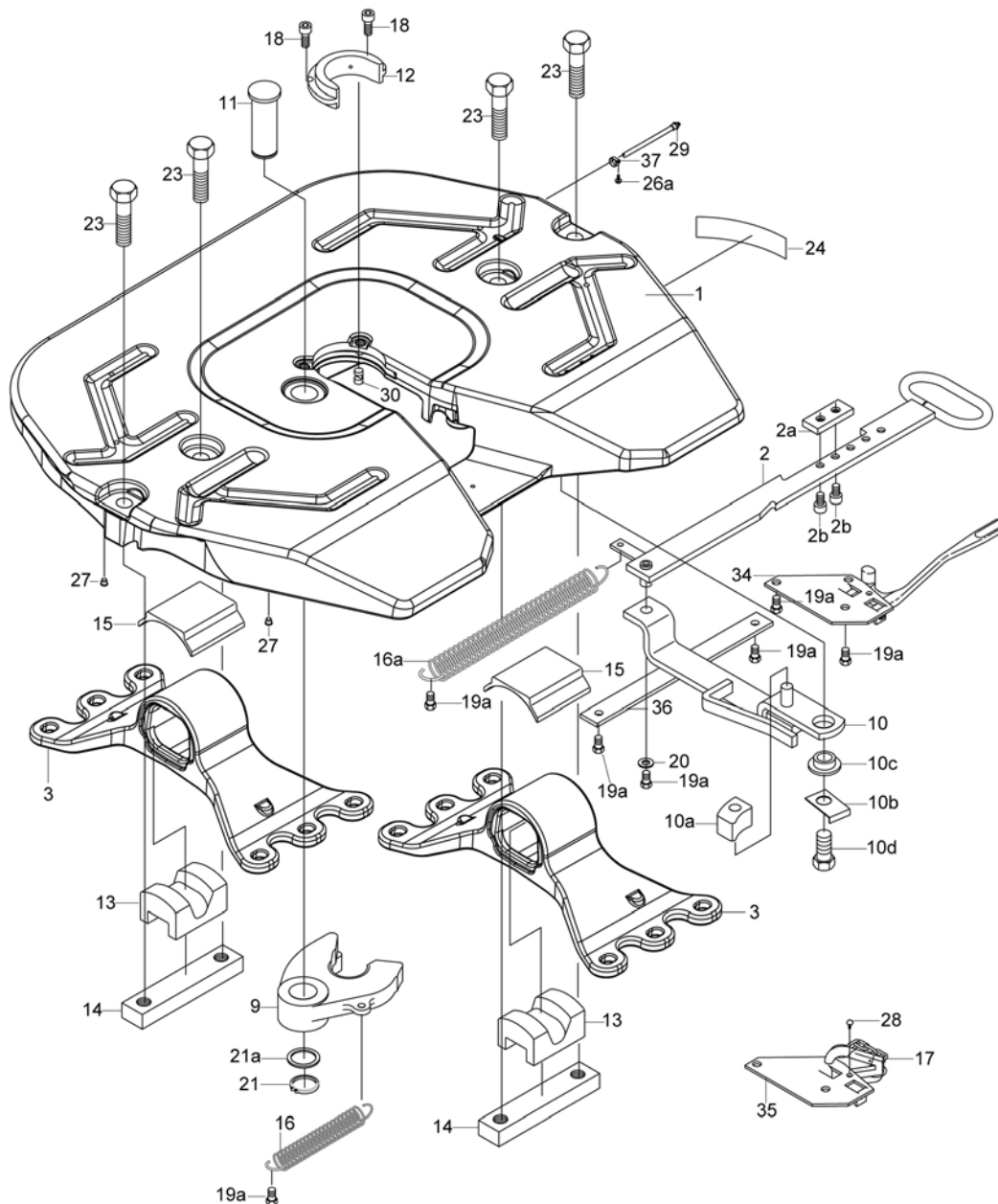
- * Tilt angle in accordance with ISO 1726 for height 128 mm is only guaranteed with our mounting plate MP 486
- Approved for forced steering
- EU test no.: e 1-00-0218
- Type approval, Germany: M 5134

Dimensions







Spare parts SK-S 36.20 PLUS

The spare parts for the SK-S 36.20 PLUS are fully compatible with the SK-S 36.20.
Repair kits also apply to SK-S 36.20 PLUS D.



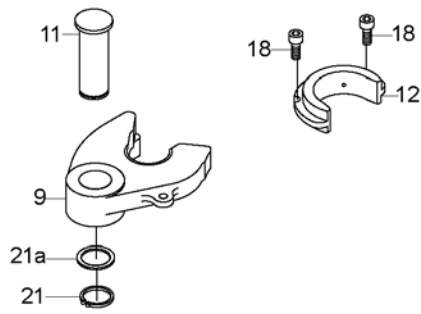
Item	Component (price per piece)	Serial no.	Pcs.	Disp.	Order no.
	Repair kit for locking mechanism and bearings	13000 - ...			662 101 493
	Repair kit for locking mechanism and bearings	0 - 12999			662 101 477
	Repair kit for locking mechanism (9, 11, 12, 18, 21)	13000 - ...			662 101 492
	Repair kit for locking mechanism (9, 11, 12, 18, 21)	0 - 12999			662 101 475
	Repair kit for bearings (13, 15, 23)				662 101 473
	Repair kit for wear ring (12, 18)	13000 - ...			662 101 566
	Repair kit for wear ring (12, 18)	0 - 12999			662 101 565
	Fifth wheel plate (PLUS) complete without mounting brackets		1		662 129 003
1	Fifth wheel plate (PLUS)		1		662 129 471
2*	Operating handle, complete (2a, 2b)	13000 - ...	1		662 129 166
2a	Adjustment plate	13000 - ...	1		662 129 158
2b	Cap screw	13000 - ...	2		659 112 371
3	Mounting bracket 128 mm		2		662 129 383
3	Mounting bracket 150 mm		2		662 129 484

Item	Component (price per piece)	Serial no.	Pcs.	Disp.	Order no.
3	Mounting bracket 185 mm		2		662 129 485
3	Mounting bracket 225 mm		2		662 129 389
3	Mounting bracket 250 mm		2		662 129 386
9	Coupler jaw (662 129 372) complete with bush		1		662 129 134
10*	Locking hook	13000 - ...	1		662 129 156
10a	Stopper		1		662 129 381
10b	Locking plate		1		662 129 387
10c	Bush		1		662 129 374
10d	Hex. bolt		1		662 129 600
11	Pin		1		662 129 375
12	Wear ring	13000 - ...	1		662 129 377
12	Wear ring	0 - 12999	1		662 129 373
13	Rubber damper		2		662 114 110
14	Tensioning bar		2		662 129 388
15	Bearing insert		2		662 130 101
16	Tension spring		1		662 126 411
16a	Tension spring		1		662 129 317
17	Carabiner hook with chain		1		662 100 574
18	Cap screw	13000 - ...	2		659 112 372
18	Cap screw	0 - 12999	2		662 126 155
19a	Hex. bolt	13000 - ...	7		659 112 359
19a	Hex. bolt	0 - 12999	5		662 126 172
20	Washer		1		662 126 175
21	Circlip		1		659 100 027
21a	Supporting washer		1		659 100 026
23	Hex. bolt		4		662 129 606
24	Type plate		1		659 120 380
26	Rivet		2		662 126 173
26a	Rivet		1		662 126 179
27	Plastic plug	13000 - ...	4		662 126 223
27	Plastic plug	0 - 12999	2		662 126 223
28	Hammer rivet		1		662 126 151
29	Lubrication tube	13000 - ...	1		659 144 106
30	Grease plug	13000 - ...	1		662 129 380
34	Automatic latch		1		662 129 153
35	Safety flange for carabiner hook	12000 - ...	1		662 129 147
35	Safety flange for carabiner hook	0 - 11999	1		662 129 376
36	Guide plate		1		662 129 144
37	Lock nut		1		659 100 029
38	Hex. bolt	0 - 12999	2		662 111 202
	Lock nut (not shown)	0 - 12999	1		662 126 176
	Grease nipple (not shown)	0 - 12999	1		662 126 224
	Eyebolt (not shown)	0 - 12999	1		662 126 465
	Plastic plug (not shown)	0 - 12999	4		662 129 393
	Central lubrication * (not shown)				659 144 143

* Serial no. 0-11999: spare part on request.

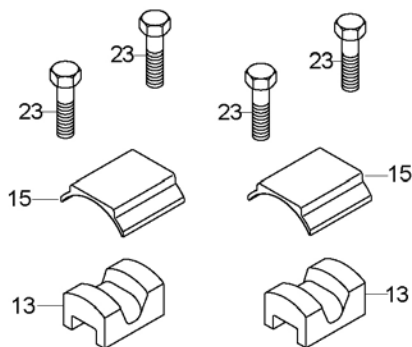
* Serial no. 12000-12999: both components have to be exchanged when changing the operating handle or the locking hook.

Repair kit for locking mechanism



Item	Component (price per piece)	Serial no.	Pcs.	Disp.	Order no.
	Repair kit for locking mechanism (9, 11, 12, 18, 21)	13000 - ...			662 101 492
	Repair kit for locking mechanism (9, 11, 12, 18, 21)	0 - 12999			662 101 475
	Repair kit for wear ring (12, 18)	13000 - ...			662 101 566
	Repair kit for wear ring (12, 18)	0 - 12999			662 101 565
9	Coupler jaw		1		662 129 134
11	Pin		1		662 129 375
12	Wear ring	13000 - ...	1		662 129 377
12	Wear ring	0 - 12999	1		662 129 373
18	Cap screw	13000 - ...	2		659 112 372
18	Cap screw	0 - 12999	2		662 126 155
21	Circlip		1		659 100 027
21a	Supporting washer		1		659 100 026

Repair kit for bearing



Item	Component (price per piece)	Pcs.	Disp.	Order no.
	Repair kit for bearings (13, 15, 23)			662 101 473
13	Rubber damper	2		662 114 110
15	Bearing insert	2		662 130 101
23	Hex. bolt	4		662 129 606

SK-S 36.20 PLUS W (low maintenance)

The lightweight, low maintenance cast 20t fifth wheel

- Weight optimised fifth wheel
- Dead weight reduced by 8 kg
- Designed for highway application
- Less grease consumption
- Easily changeable plastic wear plates
- Central lubrication system connection not required
- Single handed operation
- Automatic safety lock
- Simple and safe wear adjustment
- Permanent, maintenance-free bearings



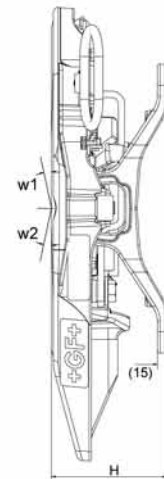
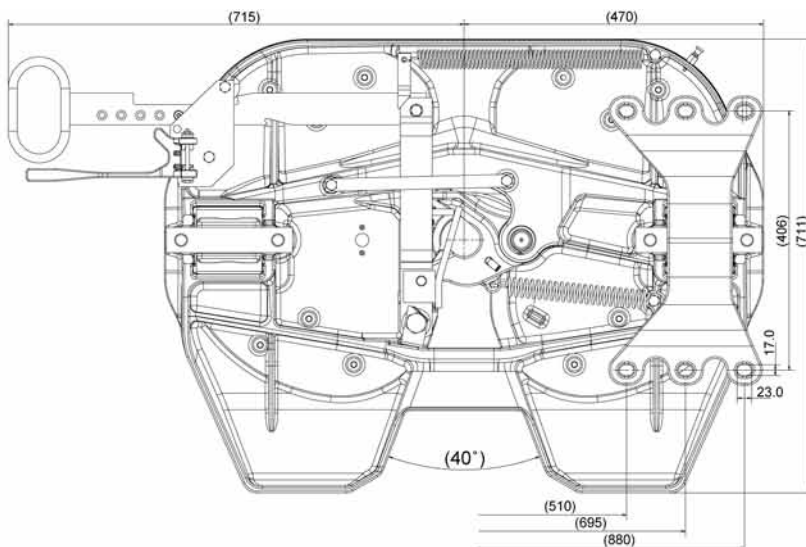
For automatic lubrication of the locking mechanism we recommend the use of our grease dispenser with adaptor.

Technical data

Type	Lock size	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	inch	mm	t	kN	kg	degree (w1/w2)	
SK-S 36.20 PLUS W	2"	128*	20	152	116	8° / 8°	662 131 011
SK-S 36.20 PLUS W	2"	150	20	152	116	8° / 13°	662 131 012
SK-S 36.20 PLUS W	2"	185	20	152	119	17° / 26°	662 131 013
SK-S 36.20 PLUS W	2"	225	20	152	121	23° / 30°	662 131 042
SK-S 36.20 PLUS W	2"	250	20	152	131	29° / 42°	662 131 014

- * Tilt angle in accordance with ISO 1726 for height 128 mm is only guaranteed with our mounting plate MP 486
- Approved for forced steering
- EU test no.: e 1-00-0218

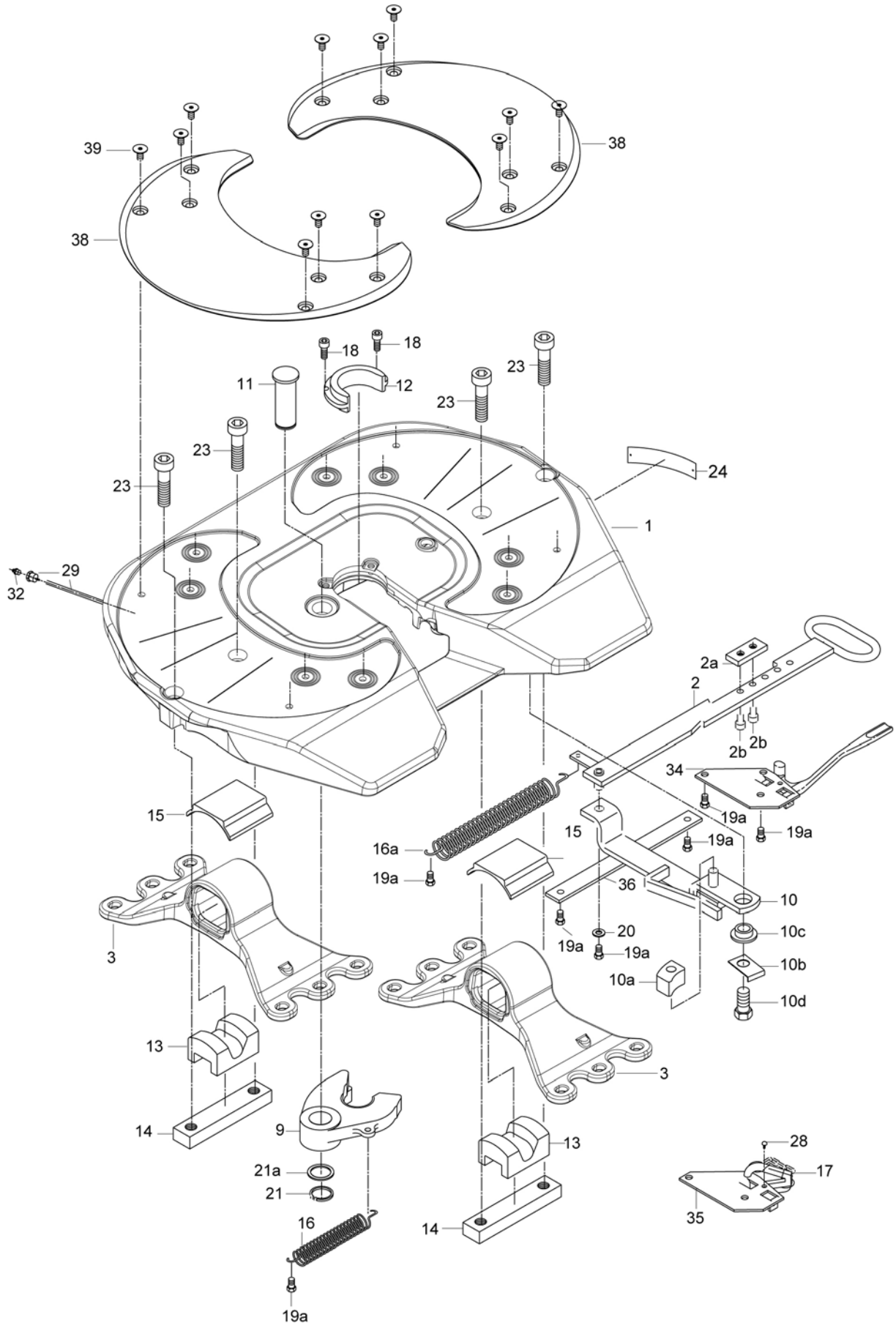
Dimensions

















































Mounting hole pattern according to DIN 74081
Subject to modifications in dimensions and design

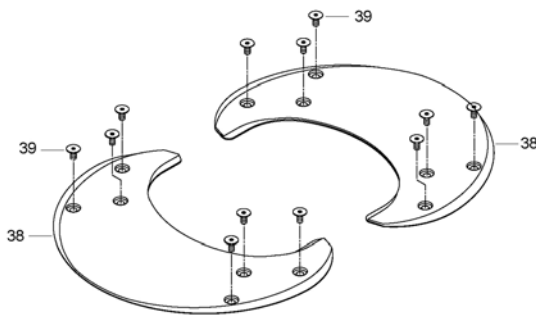
Spare parts SK-S 36.20 PLUS W

The spare parts for the SK-S 36.20 PLUS W are fully compatible with the SK-S 36.20 W
 Repair kits also apply to SK-S 36.20 PLUS DW



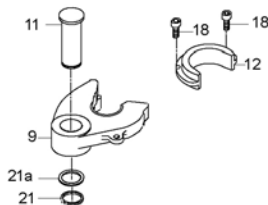
Item	Component (price per piece)	Serial no.	Pcs.	Disp.	Order no.
	Repair kit for locking mechanism and bearings (9,11,12,13,15,18,21,23)				662 101 516
	Repair kit for locking mechanism (9,11,12,18,21)				662 101 517
	Repair kit for bearings (13,15,23)				662 101 518
	Repair kit for wear plate (38,39)				662 101 469
	Repair kit for wear ring (12,18)				662 101 534
	Fifth wheel plate (W) without mounting brackets (mounting kit required)		1		662 131 002
	Mounting kit required for fifth wheel plate (W) without brackets (13,14,15,23,38,39)				662 101 738
1	Fifth wheel plate (W)		1		662 131 471
2	Operating handle, complete (incl. 2a, 2b)		1		662 129 166
2a	Adjustment plate		1		662 129 158
2b	Cap screw		2		659 112 371
3	Mounting bracket 128 mm		2		662 129 383
3	Mounting bracket 150 mm		2		662 129 484
3	Mounting bracket 185 mm		2		662 129 485
3	Mounting bracket 225 mm		2		662 129 389
3	Mounting bracket 250 mm		2		662 129 386
9	Coupler jaw		1		662 131 107
10	Locking hook		1		662 129 156
10a	Stopper		1		662 129 381
10b	Locking plate		1		662 129 387
10c	Bush		1		662 129 374
10d	Hex. bolt		1		662 129 600
11	Pin		1		662 129 375
12	Wear ring		1		662 131 114
13	Rubber damper		2		662 114 110
14	Tensioning bar		2		662 129 388
15	Bearing insert		2		662 130 101
16	Tension spring		1		662 126 411
16a	Tension spring		1		662 129 317
17	Carabiner hook with chain		1		662 100 574
18	Cap screw		2		659 112 372
19a	Hex. bolt		7		659 112 359
20	Washer		1		662 126 175
21	Circlip		1		659 100 027
21a	Supporting washer		1		659 100 026
23	Cap bolt		4		659 112 365
24	Type plate		1		659 120 380
26	Rivet		2		662 126 173
28	Hammer rivet		1		662 126 151
29	Lubrication tube (495)	35178 - ...	1		659 144 146
29	Lubrication tube (410)	0 - 35177	1		659 144 106
32	Grease nipple	35178 - ...	1		662 126 224
34	Automatic latch		1		662 129 153
35	Safety flange		1		662 129 147
36	Guide plate		1		662 129 144
38	Wear plate		2		662 131 103
39	Collar screw, special		12		662 130 114

Repair kit for wear plates (662 101 469)



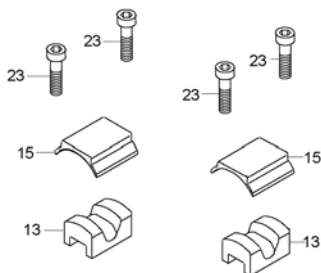
Item	Component (price per piece)	Pcs.	Disp.	Order no.
	Repair kit for wear plate (38,39)			662 101 469
38	Wear plate	2		662 131 103
39	Collar screw, special	12		662 130 114

Repair kit for locking mechanism



Item	Component (price per piece)	Pcs.	Disp.	Order no.
	Repair kit for locking mechanism (9,11,12,18,21)			662 101 517
	Repair kit for wear ring (12,18)			662 101 534
9	Coupler jaw	1		662 131 107
11	Pin	1		662 129 375
12	Wear ring	1		662 131 114
18	Cap screw	2		659 112 372
21	Circlip	1		659 100 027
21a	Supporting washer	1		659 100 026

Repair kit for bearings (662 101 518)



Item	Component (price per piece)	Pcs.	Disp.	Order no.
	Repair kit for bearings (13,15,23)			662 101 518
13	Rubber damper	2		662 114 110
15	Bearing insert	2		662 130 101
23	Cap bolt	4		659 112 365

SK-S 36.20 PLUS D (direct mounting)

The compact, lightweight fifth wheel

The new lightweight fifth wheel for 2-axle 18t semi-trailer tractors for highway application.

- Easy to mount directly on the vehicle chassis
- Weight optimised fifth wheel: higher payload
- Single handed operation
- Automatic safety lock
- Simple and safe wear adjustment
- Permanent, maintenance-free bearings
- Optimised lubrication channels for effective grease flow
- EU test no.: e 1-00-0218



Technical data

Mercedes-Benz model

Type	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	mm	t	kN	kg	degree (w1/w2)	
SK-S 36.20 PLUS D	148*	20	152	126*	9.5° / 13°	662 129 200 01
SK-S 36.20 PLUS D	190	20	152	135	19° / 25°	662 129 201 01
SK-S 36.20 PLUS D	225	20	152	143	24° / 30°	662 129 202 01

- *Additional vendor specific mounting plate (12 mm / 39 kg)

MAN model

Type	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	mm	t	kN	kg	degree (w1/w2)	
SK-S 36.20 PLUS D	148*	20	152	126*	9.5° / 13°	662 129 200 02
SK-S 36.20 PLUS D	190	20	152	135	19° / 25°	662 129 201 02
SK-S 36.20 PLUS D	225	20	152	143	24° / 30°	662 129 202 02

- *Additional vendor specific mounting plate (8 mm / 18 kg)

IVECO model

Type	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	mm	t	kN	kg	degree (w1/w2)	
SK-S 36.20 PLUS D	148*	20	152	126*	9.5° / 13°	662 129 200 03
SK-S 36.20 PLUS D	190	20	152	135	19° / 25°	662 129 201 03
SK-S 36.20 PLUS D	225	20	152	143	24° / 30°	662 129 202 03

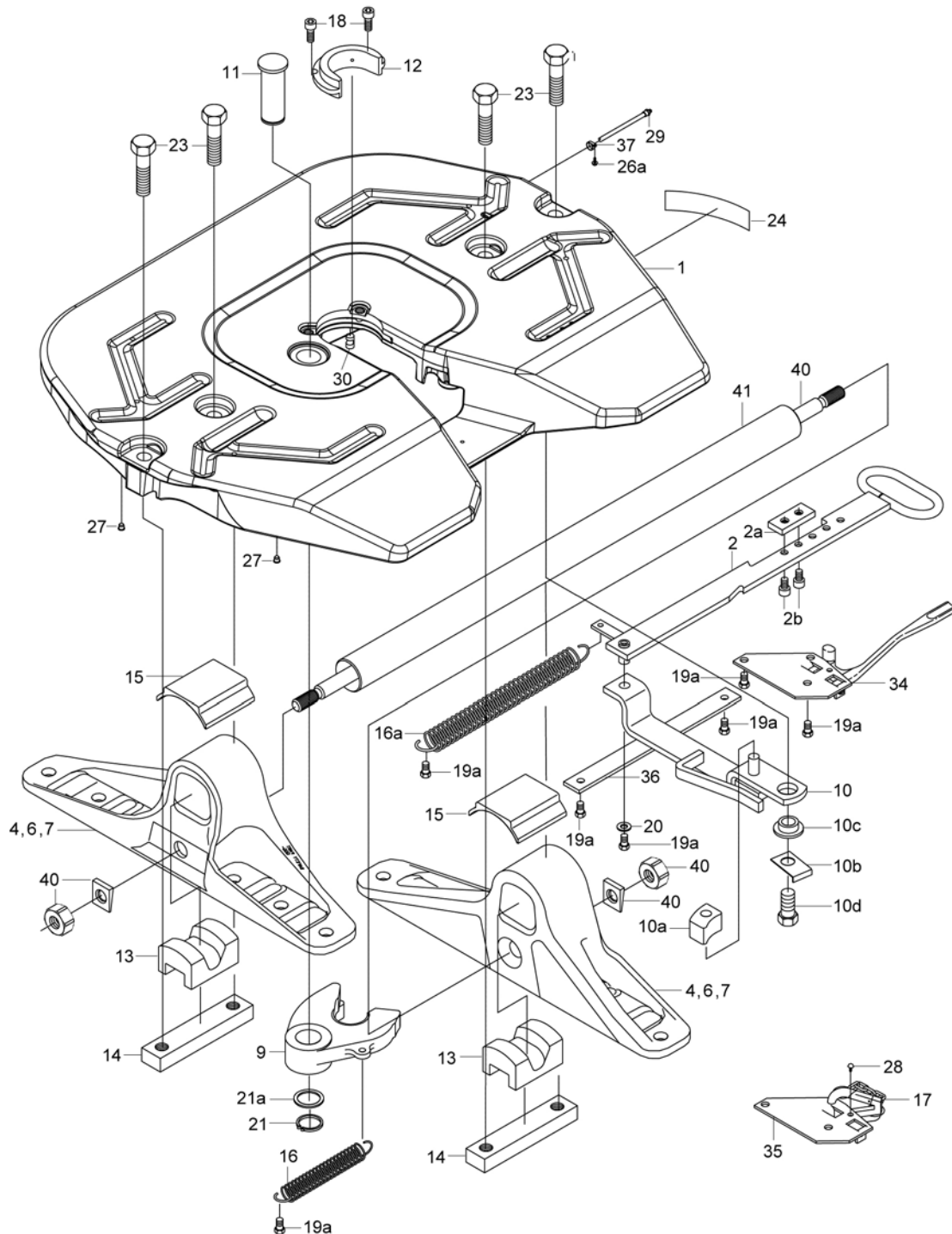
- *Additional vendor specific mounting plate (8 mm / 40 kg)























































DAF model

Type	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	mm	t	kN	kg	degree (w1/w2)	
SK-S 36.20 PLUS D	190	20	152	135	19° / 25°	662 129 201 04
SK-S 36.20 PLUS D	225	20	152	143	24° / 30°	662 129 202 04

Spare parts SK-S 36.20 PLUS D

The spare parts for the SK-S 36.20 PLUS D are fully compatible with the SK-S 36.20 D
 Repair kits also apply to SK-S 36.20 PLUS



Item	Component (price per piece)	Model	Pcs.	Disp.	Order no.
	Repair kit for locking mechanism and bearings (9,11,12,13,15,18,21,23)				662 101 493
	Repair kit for locking mechanism (9,11,12,18,21)				662 101 492
	Repair kit for bearings (13,15,23)				662 101 473
	Repair kit for wear ring (12,18)				662 101 566
	Fifth wheel plate (PLUS) complete without mounting brackets				662 129 003
1	Fifth wheel plate (PLUS)		1		662 129 471
2	Operating handle, complete				662 129 166
2a	Adjustment plate		1		662 129 158
2b	Cap screw		2		659 112 371
4	Mounting bracket 148 mm	Mercedes-Benz	2		662 131 120
4	Mounting bracket 148 mm	MAN	2		662 131 121
4	Mounting bracket 148 mm	IVECO	2		662 131 122
4	Mounting bracket 148 mm	DAF	2		662 131 123
6	Mounting bracket 190 mm	Mercedes-Benz	2		662 131 125
6	Mounting bracket 190 mm	MAN	2		662 131 126
6	Mounting bracket 190 mm	IVECO	2		662 131 127
6	Mounting bracket 190 mm	DAF	2		662 131 128
7	Mounting bracket 225 mm	Mercedes-Benz	2		662 131 130
7	Mounting bracket 225 mm	MAN	2		662 131 131
7	Mounting bracket 225 mm	IVECO	2		662 131 132
7	Mounting bracket 225 mm	DAF	2		662 131 133
9	Coupler jaw (662 129 372) complete with bush		1		662 129 134
10	Locking hook assembly		1		662 129 156
10a	Stopper		1		662 129 381
10b	Locking plate		1		662 129 387
10c	Bush		1		662 129 374
10d	Hex. bolt		1		662 129 600
11	Pin		1		662 129 375
12	Wear ring		1		662 129 377
13	Rubber damper		2		662 114 110
14	Tensioning bar		2		662 129 388
15	Bearing insert		2		662 130 101
16	Tension spring		1		662 126 411
16a	Tension spring		1		662 129 317
17	Carabiner hook with chain		1		662 100 574
18	Cap screw		2		659 112 372
19a	Hex. bolt		7		659 112 359
20	Washer		1		662 126 175
21	Circlip		1		659 100 027
21a	Supporting washer		1		659 100 026
23	Hex. bolt		4		662 129 606
24	Type plate		1		659 120 380
26	Rivet		2		662 126 173
26a	Rivet		1		662 126 179
27	Plastic plug		4		662 126 223
28	Hammer rivet		1		662 126 151
29	Lubrication tube assembly		1		659 144 106
30	Grease plug		1		662 129 380
34	Automatic latch		1		662 129 153
35	Safety flange for carabiner hook		1		662 129 155
36	Guide plate		1		662 129 144
37	Lock nut		1		659 100 029
40	Tie rod complete		1		662 131 142
41	Strut Ø 51 mm		1		662 131 143
41	Strut Ø 60.3 mm, for DAF model, height 225 mm		1		662 131 139

SK-S 36.20 PLUS DW (direct mounting)

The compact, low-maintenance, lightweight fifth wheel

The new, low-maintenance, lightweight fifth wheel for 2-axle 18t semi-trailer tractors for highway application.

- Easy to mount directly on the vehicle chassis
- Weight optimised fifth wheel: higher payload
- Less grease consumption
- Easily changeable plastic wear plates
- Single handed operation
- Automatic safety lock
- Simple and safe wear adjustment
- Permanent, maintenance-free bearings
- EU test no.: e 1-00-0218



For automatic lubrication of the locking mechanism we recommend the use of our grease dispenser with adaptor.

Technical data

Mercedes-Benz model

Type	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	mm	t	kN	kg	degree (w1/w2)	
SK-S 36.20 PLUS DW	148*	20	152	126*	9.5° / 13°	662 131 016 01
SK-S 36.20 PLUS DW	190	20	152	135	19° / 25°	662 131 017 01
SK-S 36.20 PLUS DW	225	20	152	143	24° / 30°	662 131 018 01

- *Additional vendor specific mounting plate (12 mm / 39 kg)

MAN model

Type	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	mm	t	kN	kg	degree (w1/w2)	
SK-S 36.20 PLUS DW	148*	20	152	126*	9.5° / 13°	662 131 016 02
SK-S 36.20 PLUS DW	190	20	152	135	19° / 25°	662 131 017 02
SK-S 36.20 PLUS DW	225	20	152	143	24° / 30°	662 131 018 02

- *Additional vendor specific mounting plate (8 mm / 18 kg)

IVECO model

Type	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	mm	t	kN	kg	degree (w1/w2)	
SK-S 36.20 PLUS DW	148*	20	152	126*	9.5° / 13°	662 131 016 03
SK-S 36.20 PLUS DW	190	20	152	135	19° / 25°	662 131 017 03
SK-S 36.20 PLUS DW	225	20	152	143	24° / 30°	662 131 018 03

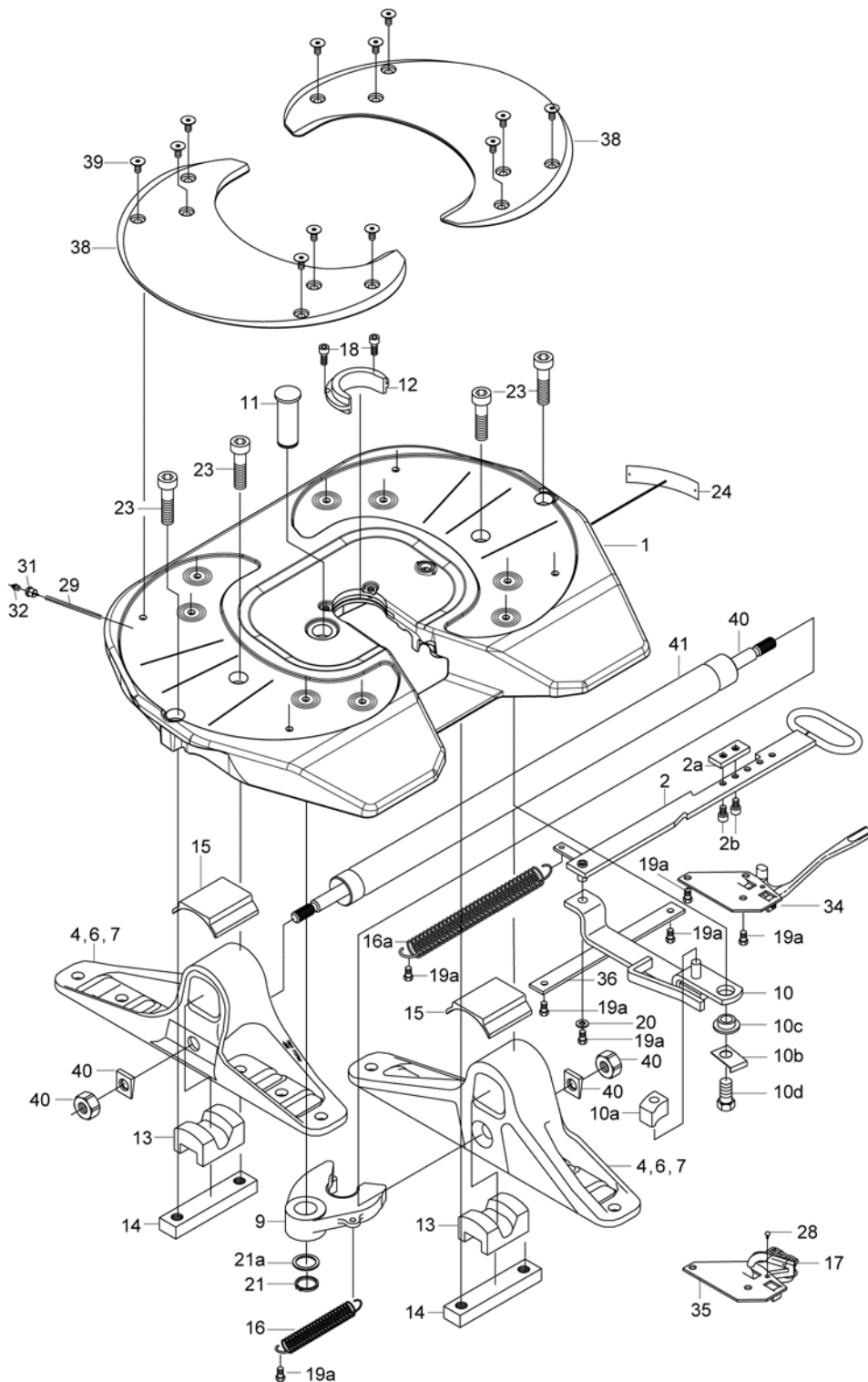
- *Additional vendor specific mounting plate (8 mm / 40 kg)

DAF model





























Type	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	mm	t	kN	kg	degree (w1/w2)	
SK-S 36.20 PLUS DW	190	20	152	135	19° / 25°	662 131 017 04
SK-S 36.20 PLUS DW	225	20	152	143	24° / 30°	662 131 018 04

Spare parts SK-S 36.20 PLUS DW

The spare parts for the SK-S 36.20 PLUS DW are fully compatible with the SK-S 36.20 DW
 Repair kits also apply to SK-S 36.20 PLUS DW.



Item	Component (price per piece)	Model	Pcs.	Disp.	Order no.
	Repair kit for locking mechanism and bearings (9,11,12,13,15,18,21,23)				662 101 516
	Repair kit for locking mechanism (9, 11, 12, 18, 21)				662 101 517
	Repair kit for bearings (13, 15, 23)				662 101 518
	Repair kit for wear plate (38,39)				662 101 469
	Repair kit for wear ring (12, 18)				662 101 534

Item	Component (price per piece)	Model	Pcs.	Disp.	Order no.
	Fifth wheel plate (W) without mounting brackets (mounting kit required)				662 131 002
	Mounting kit required for fifth wheel plate (W) without brackets (13,14,15,23,38,39)				662 101 738
1	Fifth wheel plate (PLUS W)				662 131 471
2	Operating handle, complete		1		662 129 166
2a	Adjustment plate		1		662 129 158
2b	Cap screw		2		659 112 371
4	Mounting bracket 148 mm	Mercedes-Benz	2		662 131 120
4	Mounting bracket 148 mm	MAN	2		662 131 121
4	Mounting bracket 148 mm	IVECO	2		662 131 122
4	Mounting bracket 148 mm	DAF	2		662 131 123
6	Mounting bracket 190 mm	Mercedes-Benz	2		662 131 125
6	Mounting bracket 190 mm	MAN	2		662 131 126
6	Mounting bracket 190 mm	IVECO	2		662 131 127
6	Mounting bracket 190 mm	DAF	2		662 131 128
7	Mounting bracket 225 mm	Mercedes-Benz	2		662 131 130
7	Mounting bracket 225 mm	MAN	2		662 131 131
7	Mounting bracket 225 mm	IVECO	2		662 131 132
7	Mounting bracket 225 mm	DAF	2		662 131 133
9	Coupler jaw		1		662 131 107
10	Locking hook		1		662 129 156
10a	Stopper		1		662 129 381
10b	Locking plate		1		662 129 387
10c	Bush		1		662 129 374
10d	Hex. bolt		1		662 129 600
11	Pin		1		662 129 375
12	Wear ring		1		662 131 114
13	Rubber damper		2		662 114 110
14	Tensioning bar		2		662 129 388
15	Bearing insert		2		662 130 101
16	Tension spring		1		662 126 411
16a	Tension spring		1		662 129 317
17	Carabiner hook with chain		1		662 100 574
18	Cap screw		2		659 112 372
19a	Hex. bolt		7		659 112 359
20	Washer		1		662 126 175
21	Circlip		1		659 100 027
21a	Supporting washer		1		659 100 026
23	Cap bolt		4		659 112 365
24	Type plate		1		659 120 380
26	Rivet		2		662 126 173
28	Hammer rivet		1		662 126 151
29	Lubrication tube assembly		1		659 144 146
32	Grease nipple		1		662 126 224
34	Automatic latch		1		662 129 153
35	Safety flange		1		662 129 147
36	Guide plate		1		662 129 144
38	Wear plate		2		662 131 103
39	Collar screw, special		12		662 130 114
40	Tie rod complete		1		662 131 142
41	Strut Ø 51 mm		1		662 131 143
41	Strut Ø 60.3 mm, for DAF model, height 225 mm		1		662 131 139

SK-S 36.20 PLUS V (mounting angles)

The lightweight, cast 20t fifth wheel with mounting angles for Volvo vehicles

- Weight optimised fifth wheel
- No additional mounting plate required
- 10-15 kg higher payload
- Reliable and robust
- Single handed operation
- Automatic safety lock
- Simple and safe wear adjustment
- Permanent, maintenance-free bearings
- Optimised lubrication channels for effective grease flow



Technical data

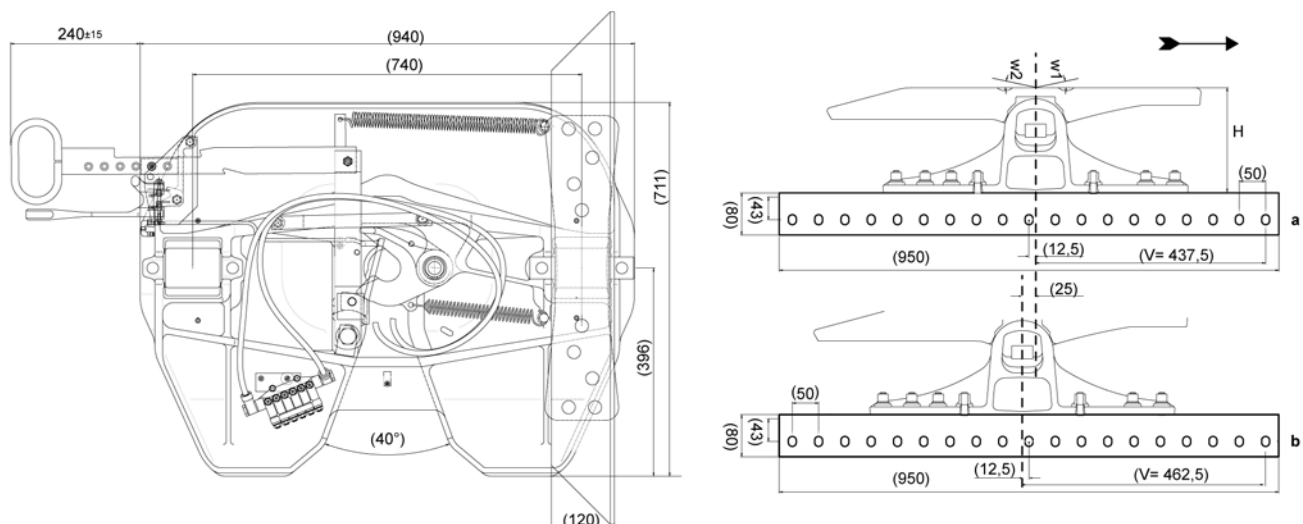
- Angle of inclination in accordance with ISO 1726
- Approved for forced steering
- EU test no.: e 1-00-0218

Type	Overall height	Imposed load	D-value	Weight	Angle of inclination	Length V	Order no.
	mm	t	kN	kg	degree (w1/w2)	mm	
SK-S 36.20 PLUS V	140	20	152,3	144	6.5° / 7.2°	437,5	662 129 206
SK-S 36.20 PLUS V	140	20	152,3	144	6.5° / 7.2°	462,5	662 129 210
SK-S 36.20 PLUS V	160	20	152,3	146	13° / 15°	437,5	662 129 207
SK-S 36.20 PLUS V	160	20	152,3	146	13° / 15°	462,5	662 129 211
SK-S 36.20 PLUS V	200	20	152,3	150	20° / 23°	437,5	662 129 208
SK-S 36.20 PLUS V	200	20	152,3	150	20° / 23°	462,5	662 129 212
SK-S 36.20 PLUS V	230	20	152,3	153	24° / 30°	437,5	662 129 209
SK-S 36.20 PLUS V	230	20	152,3	153	24° / 30°	462,5	662 129 214

Model with central lubrication kit

Type	Overall height	Imposed load	D-value	Weight	Angle of inclination	Length V	Order no.
	mm	t	kN	kg	degree (w1/w2)	mm	
SK-S 36.20 PLUS V	140	20	152,3	145	6.5° / 7.2°	462,5	662 129 215
SK-S 36.20 PLUS V	140	20	152,3	145	6.5° / 7.2°	437,5	662 129 219
SK-S 36.20 PLUS V	160	20	152,3	147	13° / 15°	462,5	662 129 216
SK-S 36.20 PLUS V	160	20	152,3	147	13° / 15°	437,5	662 129 220
SK-S 36.20 PLUS V	200	20	152,3	151	20° / 23°	462,5	662 129 217
SK-S 36.20 PLUS V	200	20	152,3	151	20° / 23°	437,5	662 129 221
SK-S 36.20 PLUS V	230	20	152,3	154	24° / 30°	462,5	662 129 218
SK-S 36.20 PLUS V	230	20	152,3	154	24° / 30°	437,5	662 129 222

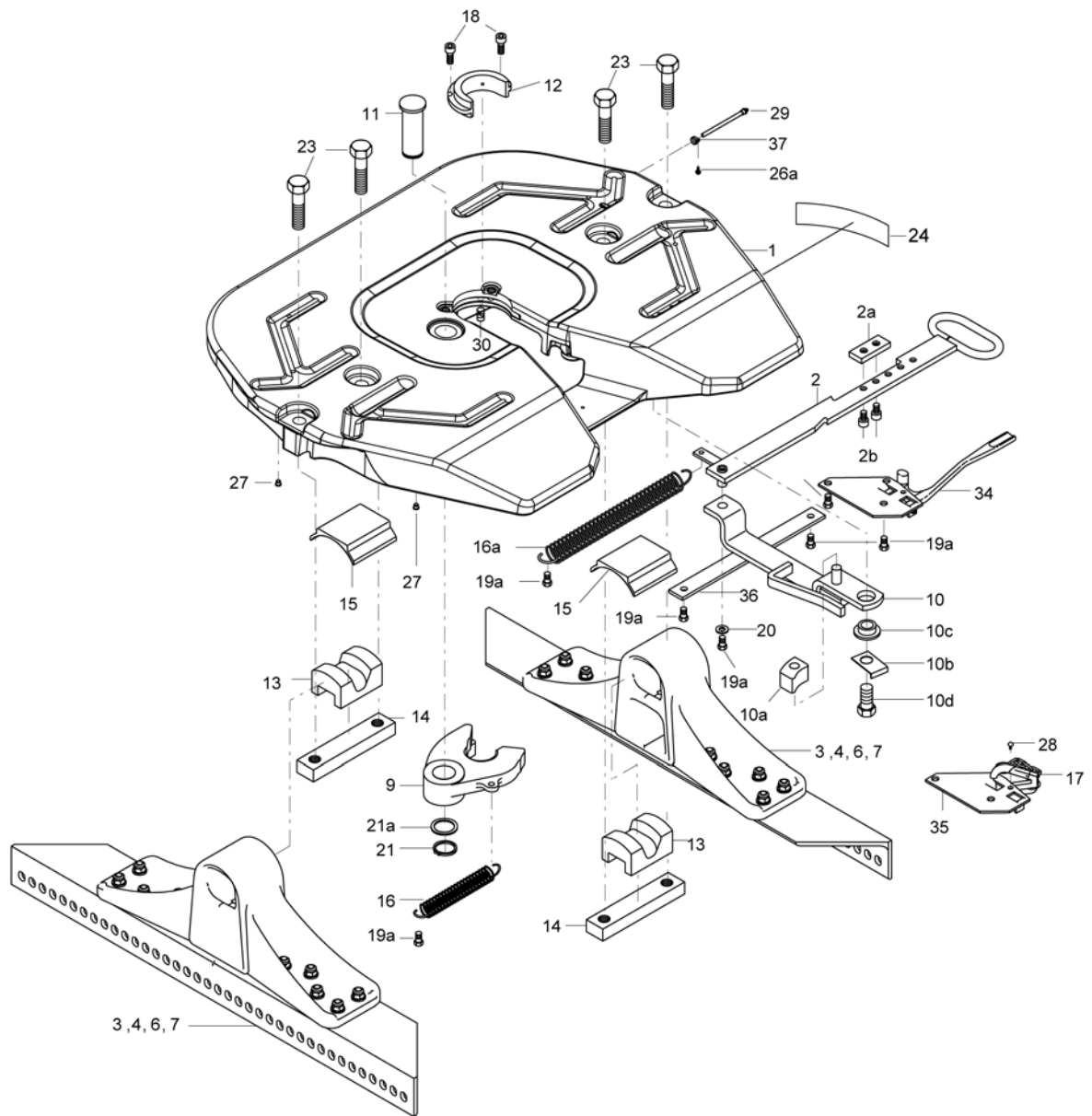
Dimensions










































Spare parts SK-S 36.20 PLUS V

The spare parts for the SK-S 36.20 PLUS V are fully compatible with the SK-S 36.20 V
 Repair kits also apply to SK-S 36.20 PLUS

* Central lubrication set can be ordered for models (662 129 206) to (662 129 214).



Item	Component (price per piece)	Serial no.	Pcs.	Disp.	Order no.
	Repair kit for locking mechanism and bearings (9,11,12,13,15,18,21,23)				662 101 493
	Repair kit for locking mechanism (9,11,12,18,21)				662 101 492
	Repair kit for locking bearings (13,15,23)				662 101 473
	Fifth wheel plate (PLUS) complete without mounting brackets				662 129 003
1	Fifth wheel plate (PLUS)		1		662 129 471
2	Operating handle, complete		1		662 129 166
2a	Adjustment plate		1		662 129 158
2b	Cap screw		2		659 112 371
3a	Bracket 140mm mounted on rail a (V= 437,5 mm) *		1		662 129 362
3b	Bracket 140mm mounted on rail a (V= 462,5 mm) *		1		662 129 363
4a	Bracket 160mm mounted on rail a (V= 437,5 mm) *		1		662 129 364
4b	Bracket 160mm mounted on rail b (V= 462,5 mm) *		1		662 129 365
6a	Bracket 200mm mounted on rail a (V= 437,5 mm) *		1		662 129 366
6b	Bracket 200mm mounted on rail b (V= 462,5 mm) *		1		662 129 367
7a	Bracket 230mm mounted on rail a (V= 437,5 mm) *		1		662 129 368
7b	Bracket 230mm mounted on rail b (V= 462,5 mm) *		1		662 129 369
9	Coupler jaw (662 129 372) complete with bush		1		662 129 134
10	Locking hook		1		662 129 156
10a	Stopper		1		662 129 381
10b	Locking plate		1		662 129 387
10c	Bush		1		662 129 374
10d	Hex. bolt		1		662 129 600
11	Pin		1		662 129 375
12	Wear ring		1		662 129 377
13	Rubber damper		2		662 114 110
14	Tensioning bar		2		662 129 388
15	Bearing insert		2		662 130 101
16	Tension spring		1		662 126 411
16a	Tension spring		1		662 129 317
17	Carabiner hook with chain				662 100 574
18	Cap screw		2		659 112 372
19a	Hex. bolt		7		659 112 359
20	Washer		1		662 126 175
21	Circlip		1		659 100 027
21a	Supporting washer		1		659 100 026
23	Hex. bolt		4		662 129 606
24	Type plate		1		659 120 380
26	Rivet		2		662 126 173
26a	Rivet		1		662 126 179
27	Plastic plug		4		662 126 223
28	Hammer rivet				662 126 151
29	Lubrication tube		1		659 144 106
30	Grease plug		1		662 129 380
34	Automatic latch		1		662 129 153
35	Safety flange for carabiner hook	0 - 11999			662 129 376
35	Safety flange for carabiner hook	12000 - ...			662 129 147
36	Guide plate		1		662 129 144
37	Lock nut		1		659 100 029
	Central lubrication * (not shown)		1		659 144 143

* Mounting angles are required in pairs, consisting of a+b in the requested height.

The indicated measure V is measured during mounting of the brackets on the right hand side in driving direction.

A reversal of the mounting angles increases or decreases the coupling point by 25 mm.

SK-S 36.20 PLUS VW (mounting angles)

The low maintenance cast 20t fifth wheel with mounting angles for Volvo vehicles

- Weight optimised fifth wheel
- No additional mounting plate required
- 10-15 kg higher payload
- Designed for highway application
- Less grease consumption
- Easily changeable plastic wear plates
- Central lubrication system connection not required
- Single handed operation
- Automatic safety lock
- Simple and safe wear adjustment
- Permanent, maintenance-free bearings



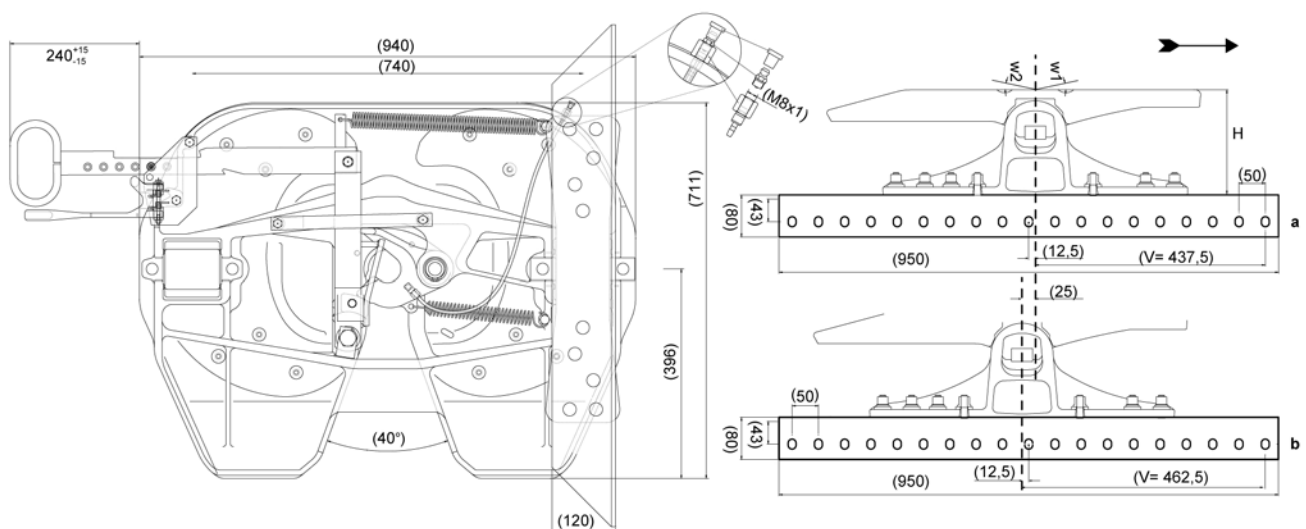
For automatic lubrication of the locking mechanism we recommend the use of our grease dispenser with adaptor.

Technical data

- Angle of inclination in accordance with ISO 1726
- Approved for forced steering
- EU test no.: e 1-00-0218

Type	Overall height	Imposed load	D-value	Weight	Angle of inclination	Length V	Order no.
	mm	t	kN	kg	degree (w1/w2)	mm	
SK-S 36.20 PLUS VW	140	20	152,3	144	6.5° / 7.2°	462,5	662 131 050
SK-S 36.20 PLUS VW	140	20	152,3	144	6.5° / 7.2°	437,5	662 131 060
SK-S 36.20 PLUS VW	160	20	152,3	146	13° / 15°	462,5	662 131 051
SK-S 36.20 PLUS VW	160	20	152,3	146	13° / 15°	437,5	662 131 061
SK-S 36.20 PLUS VW	200	20	152,3	150	20° / 23°	462,5	662 131 052
SK-S 36.20 PLUS VW	200	20	152,3	150	20° / 23°	437,5	662 131 062
SK-S 36.20 PLUS VW	230	20	152,3	153	24° / 30°	462,5	662 131 053
SK-S 36.20 PLUS VW	230	20	152,3	153	24° / 30°	437,5	662 131 063

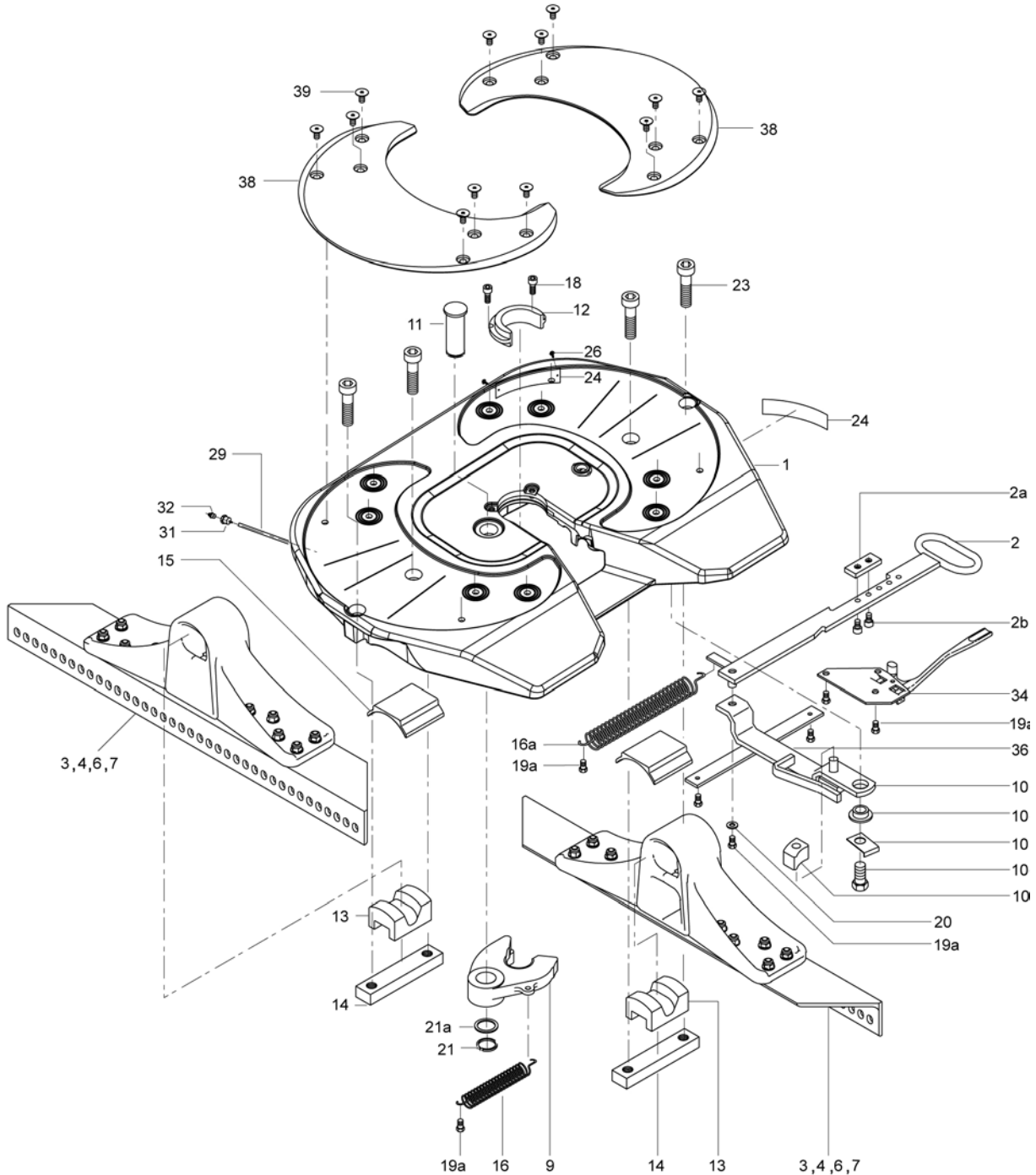
Dimensions











































Subject to modifications in dimensions and design

Spare parts SK-S 36.20 PLUS VW

The spare parts for the SK-S 36.20 PLUS VW are fully compatible with the SK-S 36.20 VW.
Repair kits also apply to SK-S 36.20 PLUS DW.



Item	Component (price per piece)	Serial no.	Pcs.	Disp.	Order no.
	Repair kit for locking mechanism (9,11,12,18,21)				662 101 517
	Repair kit for locking bearings (13,15,23)				662 101 518
	Repair kit for wear plates (38,39)				662 101 469
	Fifth wheel plate (W) without mounting brackets (Mounting kit required)				662 131 002
	Mounting kit for wear plate (13,14,15,23,38,39)				662 101 738
1	Fifth wheel plate (PLUS W)				662 131 471

Item	Component (price per piece)	Serial no.	Pcs.	Disp.	Order no.
2	Operating handle, complete		1		662 129 166
2a	Adjustment plate		1		662 129 158
2b	Cap screw		2		659 112 371
3a	Bracket 140mm mounted on rail a (V= 437,5 mm) *		1		662 129 362
3b	Bracket 140mm mounted on rail b (V= 462,5 mm) *		1		662 129 363
4a	Bracket 160mm mounted on rail a (V= 437,5 mm) *		1		662 129 364
4b	Bracket 160mm mounted on rail b (V= 462,5 mm) *		1		662 129 365
6a	Bracket 200mm mounted on rail a (V= 437,5 mm) *		1		662 129 366
6b	Bracket 200mm mounted on rail b (V= 462,5 mm) *		1		662 129 367
7a	Bracket 230mm mounted on rail a (V= 437,5 mm) *		1		662 129 368
7b	Bracket 230mm mounted on rail b (V= 462,5 mm) *		1		662 129 369
9	Coupler jaw		1		662 131 107
10	Locking hook		1		662 129 156
10a	Stopper		1		662 129 381
10b	Locking plate		1		662 129 387
10c	Bush		1		662 129 374
10d	Hex. bolt		1		662 129 600
11	Pin		1		662 129 375
12	Wear ring		1		662 131 114
13	Rubber damper		2		662 114 110
14	Tensioning bar		2		662 129 388
15	Bearing insert		2		662 130 101
16	Tension spring		1		662 126 411
16a	Tension spring		1		662 129 317
18	Cap screw		2		659 112 372
19a	Hex. bolt		7		659 112 359
20	Washer		1		662 126 175
21	Circlip		1		659 100 027
21a	Supporting washer		1		659 100 026
23	Cap screw		4		659 112 365
24	Type plate		1		659 120 380
26	Rivet		2		662 126 173
29	Lubrication tube (495)	35178 - ...	1		659 144 146
29	Lubrication tube (410)	0 - 35177	1		659 144 106
32	Grease nipple		1		662 126 224
34	Automatic latch		1		662 129 153
36	Guide plate		1		662 129 144
38	Wear plate		2		662 131 103
39	Collar screw, special		12		662 130 114
	Lubrication tube assembly (29,31) (not shown)				659 144 146

* Mounting angles are required in pairs, consisting of a+b in the requested height.

The indicated measure V is measured during mounting of the brackets on the right hand side in driving direction.

A reversal of the mounting angles increases or decreases the coupling point by 25 mm.

FW 3510

The 20t vertical load fifth wheel with 65t gross combination weight.

- High strength cast steel construction - permitted operating temperature to -40°C .
- Top surface machined to improve wear, steering and fit with trailer plate. Patented grease groove pattern for improved wear and durability and prepared for central lubrication system.
- Forged alloy steel locks with infinite adjustment.
- Operating handle fitted with automatic secondary locking device, eliminating the need for a clip and chain also available with optional long handle.
- Suitable for all types of rear axle steering.

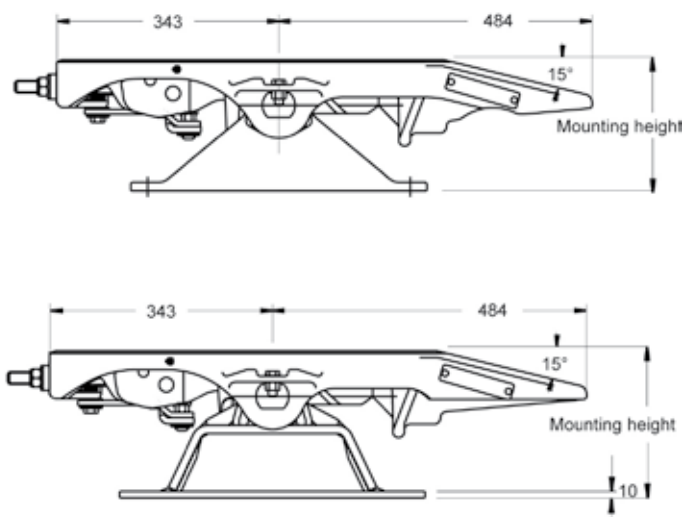
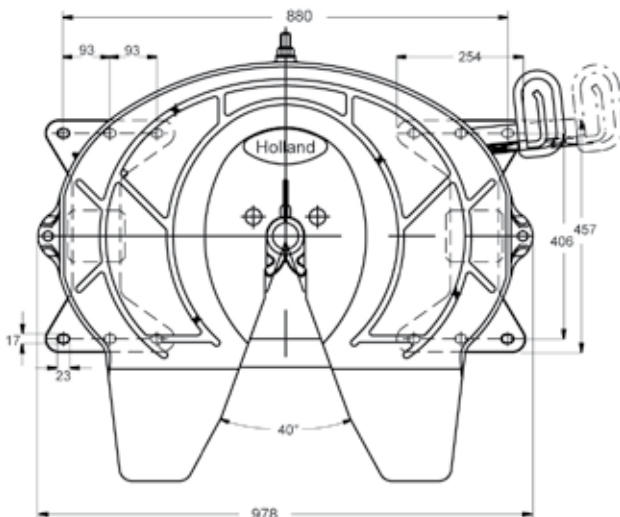


Technical data

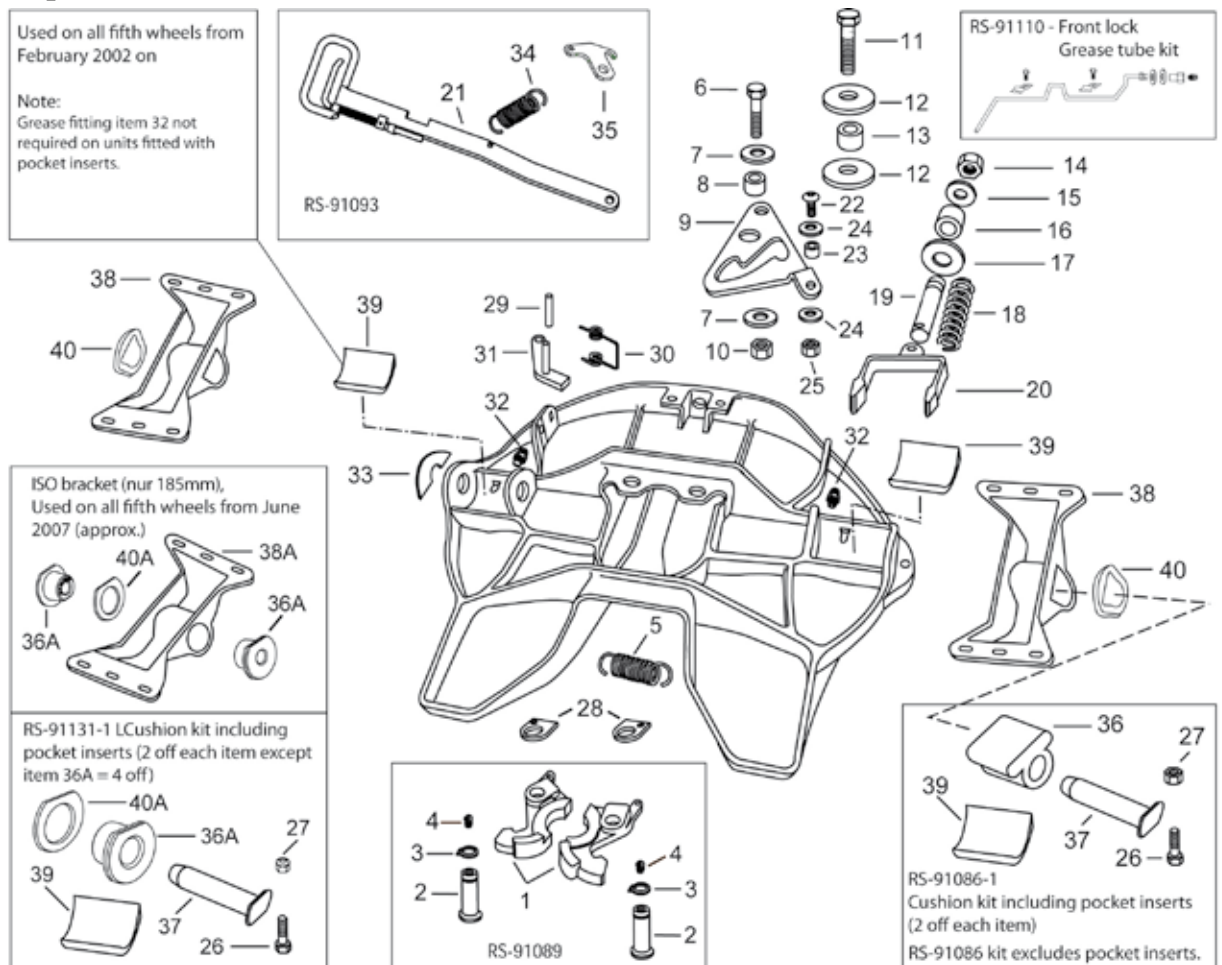
Type	Lock size	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	inch	mm	t	kN	kg	degree (w1/w2)	
FW3510-ISO bracket mounting	0	150	20	150	135	0	FW3510-150
FW3510-ISO bracket mounting	0	180	20	150	139	0	FW3510-180
FW3510-ISO bracket mounting	0	200	20	150	142	0	FW3510-200
FW3510-Weightsaver	0	140	20	150	158	0	FW3510-140
FW3510-Weightsaver	0	160	20	150	160	0	FW3510-160
FW3510-Weightsaver		190	20	150	163		FW3510-190
FW3510-Weightsaver		230	20	150	166		FW3510-230

- add suffix -XL for version with long handle
- Type Approval. e1*94/20*0812

Dimensions



Spare parts FW3510



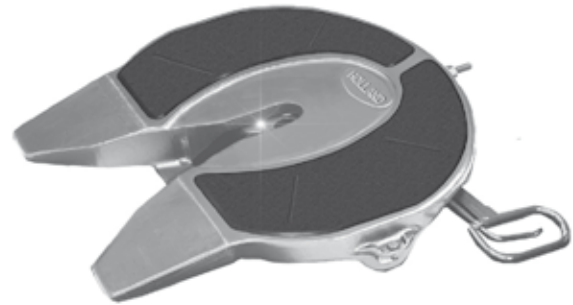
Item	Component (price per piece)	Pcs.	Order no.
	Lock jaw set (Pos. 1-25, 29-35)		RK-3510-R
	Lock repair kit		RS-91089
	Cushion kit		RS-91086
	Cushion kit with pocket inserts		RS-91086-1
	Cushion kit (38A)		RS-91131-1
	Handle kit complete		RS-91093
	Handle kit (long handle)		RS-91098
	Front lock grease tube kit		RS-91110
1	Lock jaw set	1	XA-07296-KTL
2	Lock pin	2	XA-07292-82
3	Retaining ring	2	38027
4	Grease fitting	2	38028
5	Extension spring	2	XB-07628-KTL
6	Hex head cap screw	1	31039
7	Washer	2	XB-76004
8	Roller	1	XA-1029
9	Camplate	1	XA-0750-R-KTL
10	Locknut	1	32001
11	Hex head cap screw	1	XB-CX-58-F-134
12	Washer	2	XB-07431-KTL
13	Roller	1	XA-1507
14	Locknut	1	XB-HNH-34-F
15	Washer	1	33034
16	Rubber washer	1	XB-1127
17	Lock adjustment tag	1	XB-02312
18	Compression spring	1	XB-1505-KTL

Item	Component (price per piece)	Pcs.	Order no.
19	Yoke shaft	2	XA-1706
20	Yoke	2	XA-07295-KTL
21	Standard handle	2	XA-09437
	Long handle (not shown)	1	XA-09752
22	Socket head screw	1	31040
23	Bushing	1	XA-03082
24	Washer	1	33031
25	Locknut	2	32001
26	Bolt	2	31041
27	Locknut	2	32001
28	Holder	1	XA-E-60234
29	Roll pin	1	XB-21-S-500-2750
30	Torsion spring	1	XB-2149-KTL
31	Secondary lock	4	XA-3542-R-KTL
32	Grease fitting (to. Feb. 2009)	1	38009
33	Tag	2	XB-07610
34	Extension spring	1	XB-05679-2
35	Spring mount	1	XA-09645-KTL
36	Rubber cushion	2	XB-0011-3
36A	Rubber cushion (see 38A)	1	XB-10606
37	Bracket pin	1	XE-06356-KTL
38	ISO bracket-150mm	2	XD-04942-KTL
	ISO bracket-180mm	2	XD-04943-KTL
	ISO bracket-200mm	2	XD-04944-KTL
38A	ISO bracket-180mm (later type - June 2007 on)	2	XD-04943-S-KTL
39	Pocket insert (Feb. 2002 on)	1	XB-10210
40	Rubber washer (ISO brkt only)	1	XB-60144
40A	Rubber washer (see 38A)	2	XB-10605-RW

FW 3110

The 20t vertical load fifth wheel with 65t gross combination weight.

- All lock system components are protected with a low friction coating providing long wear life and superior corrosion protection - No lubrication required.
- Easily replaceable wear pads on the top face eliminate the need for greasing of the top surface and wear of the casting.
- Patented surface alloy on the kingpin contact surfaces of the lock jaws provides lubrication-free operation, high wear resistance and eliminates the need to grease the locks.
- Operating handle fitting with automatic secondary locking device, eliminating the need for a clip and chain.
- Suitable for all types of rear axle steering.

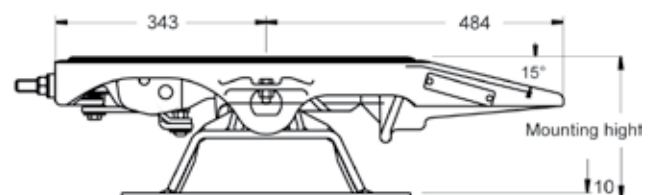
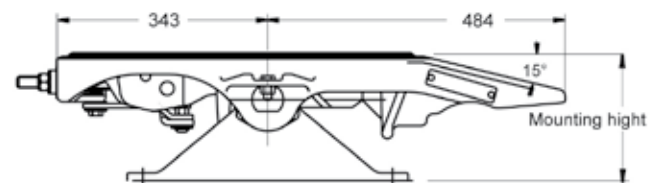
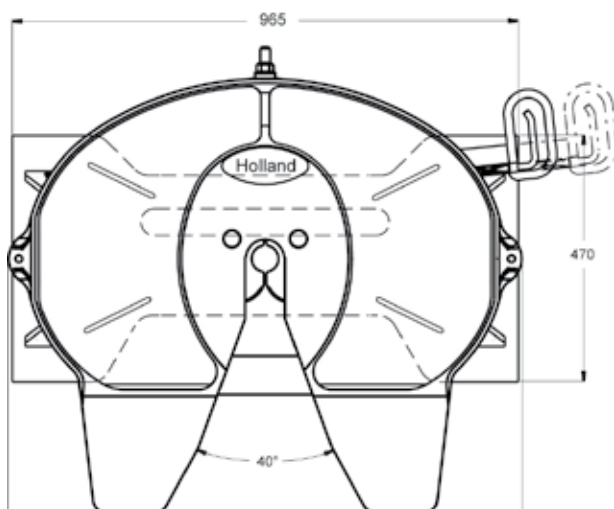


Technical data

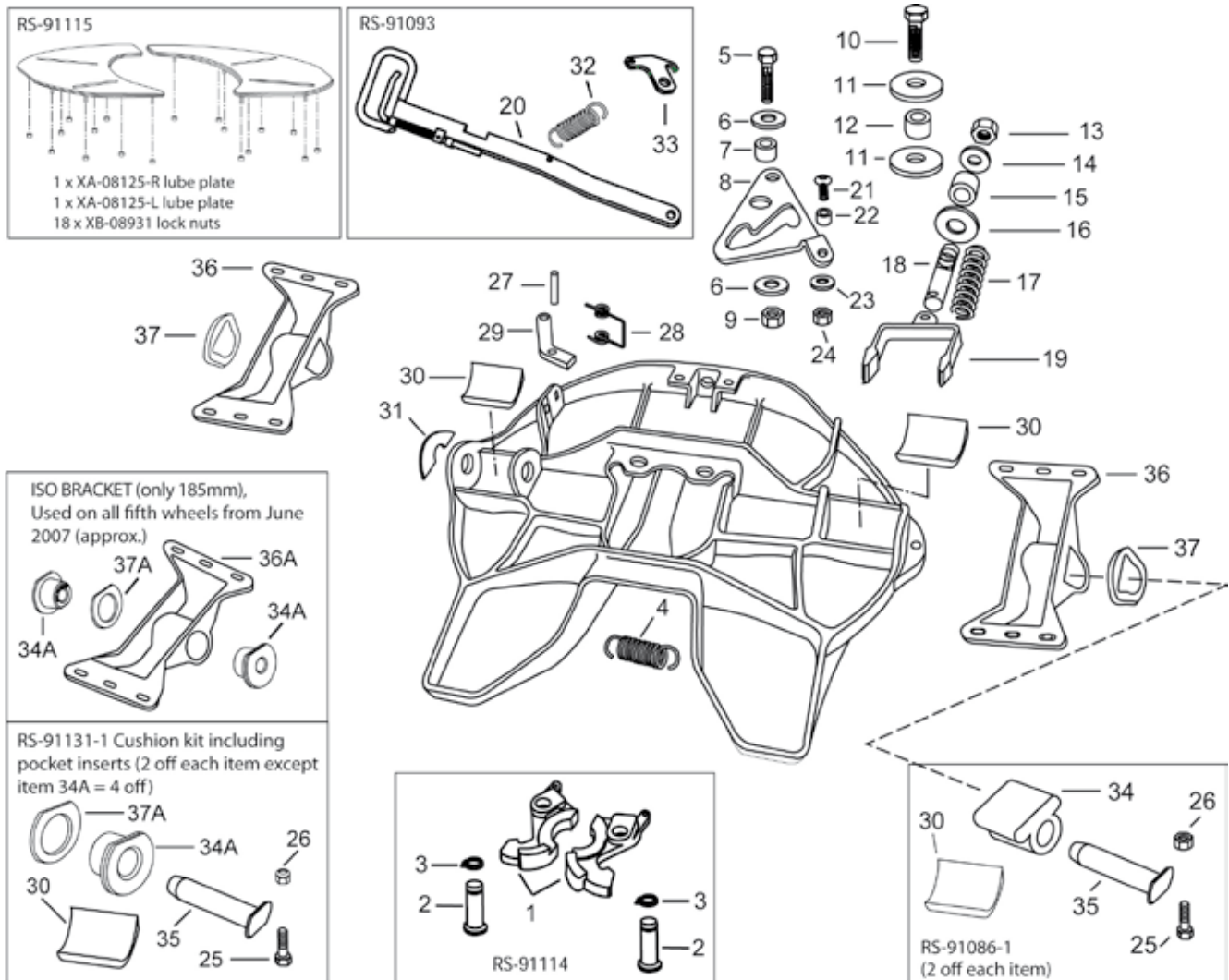
Type	Lock size	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	inch	mm	t	kN	kg	degree (w1/w2)	
FW3110 - ISO bracket mounting	0	159	20	150	138	0	FW3110-150
FW3110 - ISO bracket mounting	0	189	20	150	142	0	FW3110-180
FW3110 - ISO bracket mounting	0	211	20	150	145	0	FW3110-200
FW3110 - Weightsaver	0	149	20	150	161	0	FW3110-140
FW3110 - Weightsaver	0	171	20	150	163	0	FW3110-160
FW3110 - Weightsaver		197	20	150	166		FW3110-190
FW3110 - Weightsaver		235	20	150	169		FW3110-230

- * add suffix -XL for version with long handle
- Type approval e1*94/20*0812

Dimensions



Spare parts FW3110



Item	Component (price per piece)	Pcs.	Order no.
	Full overhaul kit (Pos. 1-24, 27-29, 32, 33)		RS-91113
	Lock repair kit		RS-91114
	Cushion kit with poc. inserts		RS-91086-1
	Cushion kit (see 36A)		RS-91131-1
	Handle kit complete		RS-91093
	Handle kit complet (with optional long handle)		RS-91098
	Replacement pad set		RS-91115
1	Lock jaw set	1	XA-10853-SP-KTL
2	Lock pin	2	XA-07292-2
3	Retaining ring	2	XB-07398
4	Extension spring	2	XB-07628-KTL
5	Hex head cap screw	1	31039
6	Washer	2	XB-10294
7	Roller	1	XA-10265
8	Camplate	1	XA-10450
9	Locknut	1	32001
10	Hex head cap screw	1	XB-CX-58-F-134
11	Washer	2	XB-10259
12	Roller	1	XA-10343
13	Locknut	1	XB-HNH-34-F
14	Washer	1	33034
15	Rubber washer	1	XB-1127
16	Lock adjustment tag	1	XB-02312-1

Item	Component (price per piece)	Pcs.	Order no.
17	Compression spring	1	XB-1505-KTL
18	Yoke shaft	2	XA-1706
19	Yoke	2	XA-10257
20	Handle	2	XA-09437
	Long handle (not shown)	1	XA-09752
21	Socket head screw	1	31040
22	Bushing	1	XA-03082
23	Washer	1	33031
24	Locknut	2	32001
25	Bolt	2	31041
26	Locknut	2	32001
27	Roll pin	1	XB-21-S-500-2750
28	Torsion spring	1	XB-2149-KTL
29	Secondary lock	4	XA-10451
30	Pocket insert	2	XB-10210
31	Tag	2	XB-07610
32	Extension spring	1	XB-05679-2
33	Spring mount	1	XA-09645
34	Rubber cushion	2	XB-0011-3
35	Rubber cushion (see 36A)	1	XB-10606
36	Bracket pin	1	XE-06356-KTL
	ISO bracket -150mm	2	XD-04942-KTL
	ISO bracket -180mm	2	XD-04943-KTL
	ISO bracket -200mm	2	XD-04944-KTL
36A	ISO bracket -200mm (new type)	2	XD-04943-S-KTL
37	Rubber washer (with ISO bracket only)	1	XB-60144
37A	Rubber washer (see 36A)	2	XB-10605-RW

GES 20 (Pressed-steel fifth wheel)

Light fifth wheel made of pressed steel

- Simple robust and maintenance friendly top load construction
- Automatic safety lock
- Mountable on SAF-HOLLAND slider SK-V 20
- Simple and continuous wear adjustment
- Fully compatible to mounting brackets of SK-S 36.20
- Suitable for steering wedge applications
- EU test no.: e11*94/20/EG*6735

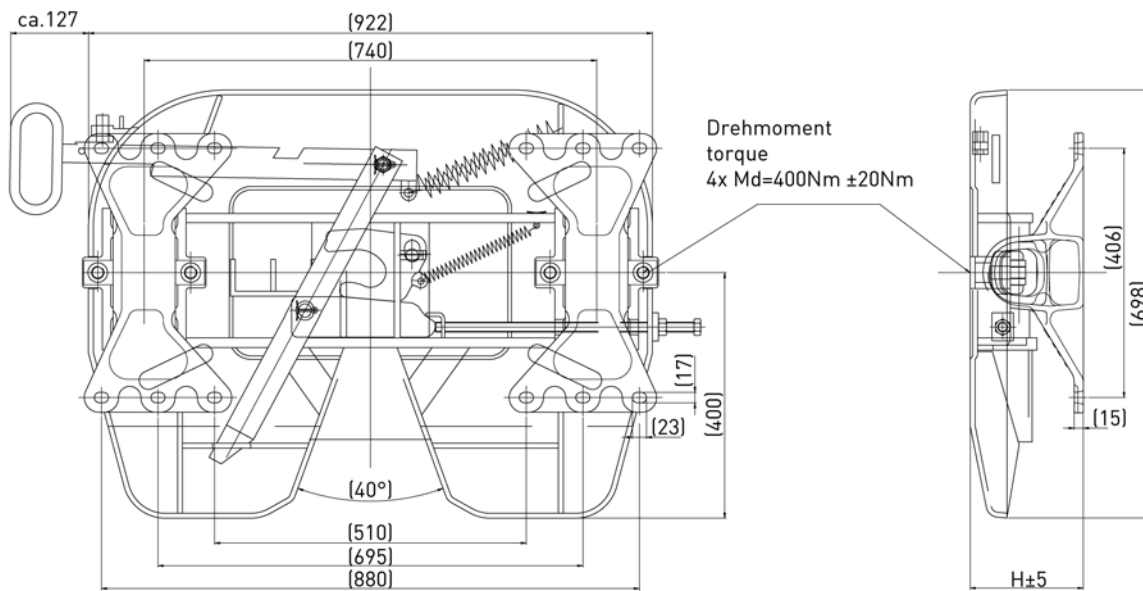


Technical data

Type	Lock size	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	inch	mm	t	kN	kg	degree (w1/w2)	
GES 20	2"	150	20	152	128	15° / 15°	662 133 047
GES 20	2"	185	20	152	132	15° / 15°	662 133 048
GES 20	2"	225	20	152	133	15° / 15°	662 133 031
GES 20	2"	250	20	152	143	15° / 15°	662 133 049

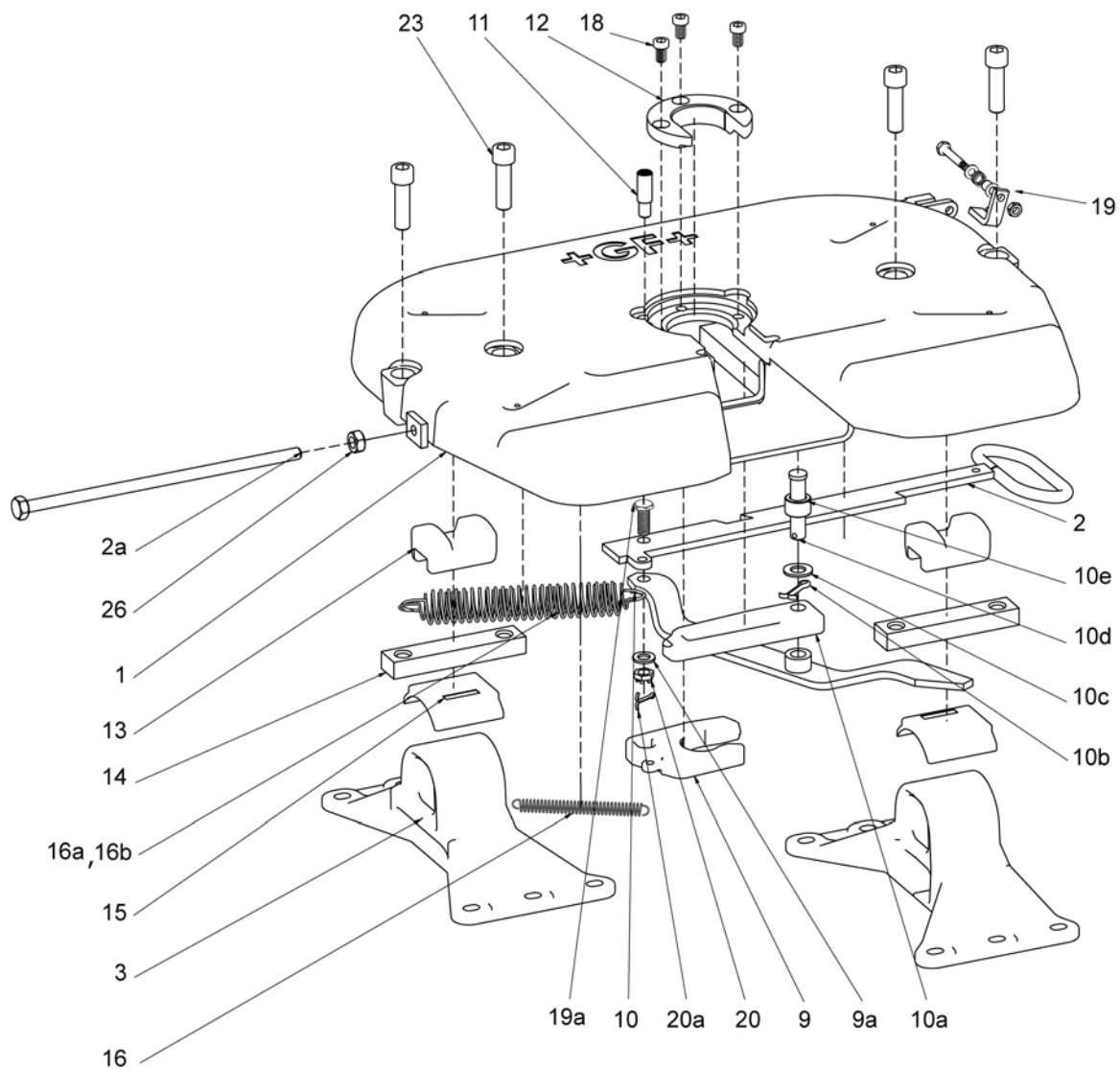
- The GES 20 are built in accordance with 94/20 EC guidelines G50 class and are to be used in conjunction with fifth wheel kingpins of class H50 and mounting plates of class J or comparable approved devices.
- To be used with semi-trailers whose counterplate is sufficiently firm and flat in accordance with ISO 1726 and ISO 1726 part 2.

Dimensions



Mounting hole pattern according to DIN 74081 and ISO 3842
Subject to modifications in dimensions and design

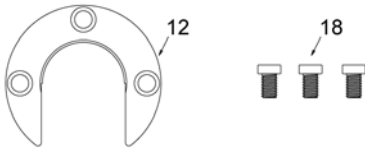
Spare parts GES 20



Item	Component (price per piece)	Pcs.	Disp.	Order no.
	Repair kit for locking mechanism (9,9a,10a,10b,10c,10d,10e,16a,16b,19a, 20a)			662 133 492
	Repair kit for wear ring (12,18)			662 133 566
1	Fifth wheel plate without mounting brackets	1		662 133 001
1	Fifth wheel plate	1		662 133 371
2	Operating handle, complete	1		662 133 177
2a	Adjusting screw M16x425	1		662 133 600
3a	Mounting bracket 150 mm	2		662 129 384
3b	Mounting bracket 185 mm	2		662 129 385
3c	Mounting bracket 225 mm	2		662 129 389
3d	Mounting bracket 250 mm	2		662 129 386
9	Coupler jaw	1		662 133 134
9a	Washer 17	1		662 133 610
10	Locking hook assembly	1		662 133 170
10a	Locking latch	1		662 133 381
10b	Split pin	1		662 133 605
10c	Washer 20.5	1		662 133 611
10d	Pin II	1		662 133 376
10e	Bush II	1		662 133 374
11	Pin I	1		662 133 375

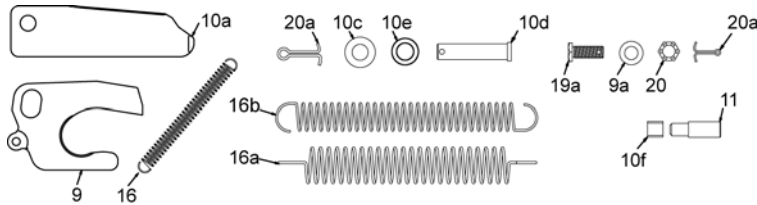
Item	Component (price per piece)	Pcs.	Disp.	Order no.
12	Wear ring	1		662 133 377
13	Rubber damper	2		662 114 110
14	Tensioning bar	2		662 129 388
15	Bearing insert	2		662 130 101
16	Tension spring	1		662 133 411
16a	Tension spring	1		662 133 317
16b	Tension spring	1		662 133 318
18	Cap bolt M14	3		662 133 166
19	Lock mechanism	1		662 133 378
19a	Pin III	1		662 133 601
20	Castellated nut M16	1		662 133 602
20a	Split pin	1		662 133 604
23	Cap bolt M20x70	4		659 112 365
26	Nut M16	1		662 133 616

Repair kit for wear ring (662 133 566)



Item	Component (price per piece)	Pcs.	Disp.	Order no.
	Repair kit for wear ring (12,18)			662 133 566
12	Wear ring	1		662 133 377
18	Cap bolt M14	3		662 133 166

Repair kit for locking mechanism (662 133 492)



Item	Component (price per piece)	Pcs.	Disp.	Order no.
	Repair kit for locking mechanism (9,9a,10a,10b,10c,10d,10e,16a,16b,19a, 20a)			662 133 492
9	Coupler jaw	1		662 133 134
9a	Washer 17	1		662 133 610
10a	Locking latch	1		662 133 381
10b	Split pin	1		662 133 605
10c	Washer 20.5	1		662 133 611
10d	Pin II	1		662 133 376
10e	Bush II	1		662 133 374
10f	Adapter bush	1		662 133 373
11	Pin I	1		662 133 375
16	Tension spring	1		662 133 411
16a	Tension spring	1		662 133 317
16b	Tension spring	1		662 133 318
19a	Pin III	1		662 133 601
20	Castellated nut M16	1		662 133 602
20a	Split pin	1		662 133 604

FWAL-E

The 20t vertical load fifth wheel with forged aluminium technology

- Lightest weight standard-duty fifth wheel available anywhere. Up to 33kg lighter than competitive fifth wheel
- Front lock insert is machined and hardened, wearresistant alloy.
- Ergonomic release handle fully complies with the interlocking requirements of EC 94/20 and features SAF-HOLLAND's easy-to-pull, one-hand operation „trigger lock“.
- The forged and hardened coupler jaw is protected with an advanced surface coating alloy for extreme wear resistance, optimising life expectancy and eliminating the need for lubrication.



ISO BRACKET MOUNTING



Part Number	Height	Weight
FWAL-E-IS-165	167 mm	94 kg
FWAL-E-IS-195	197 mm	100 kg
FWAL-E-IS-220	219 mm	103 kg

International Standard ISO/DIN 6 hole mounting bracket offering full interchangeability with fifth wheel worldwide, strong cast construction for maximum durability. Type approved to EC 94/20 regulations.

WEIGHTSAVER MOUNTING



Part Number	Height	Weight
FWAL-E-W1-155	156 mm	117 kg
FWAL-E-W1-180	180 mm	120 kg
FWAL-E-W1-205	205 mm	123 kg
FWAL-E-W1-245	243 mm	127 kg

Combined mounting brackets and mounting plate resulting in weight reduction with easier and time-saving installation through direct mounting on the chassis. Manufactured in accordance with EC 94/20 and having full EC type approval.

Available in 2 different widths and available with hole patterns to suit all OEM chassis mounting angles.

Contact SAF-HOLLAND for full part number information.

Part Number	Height	Weight
FWAL-E-W2-155	156 mm	121 kg
FWAL-E-W2-180	180 mm	124 kg
FWAL-E-W2-205	205 mm	127 kg
FWAL-E-W2-245	243 mm	131 kg

ILS SLIDER MOUNTING



Part number guide for complete sliding fifth wheel assemblies:

Fifth Wheel Type		FWAL-E - 22U		
FWAL-E	FWAL-E			
Height Code		Drilling Patterns		
1	190 mm	U	Undrilled	
2	215 mm	*	Another letter indicates OEM specific hole pattern. Contact SAF-HOLLAND for details.	
3	241 mm			
Length Code	Travel Length	Slide Plate Length		
2	610 mm	1135 mm		
3	915 mm	1440 mm		
4	1220 mm	1745 mm		
5	1525 mm	2050 mm		

Integrated lightweight sliding fifth wheel, saving up to 58 kg on competitors products. Air release standard on all models.

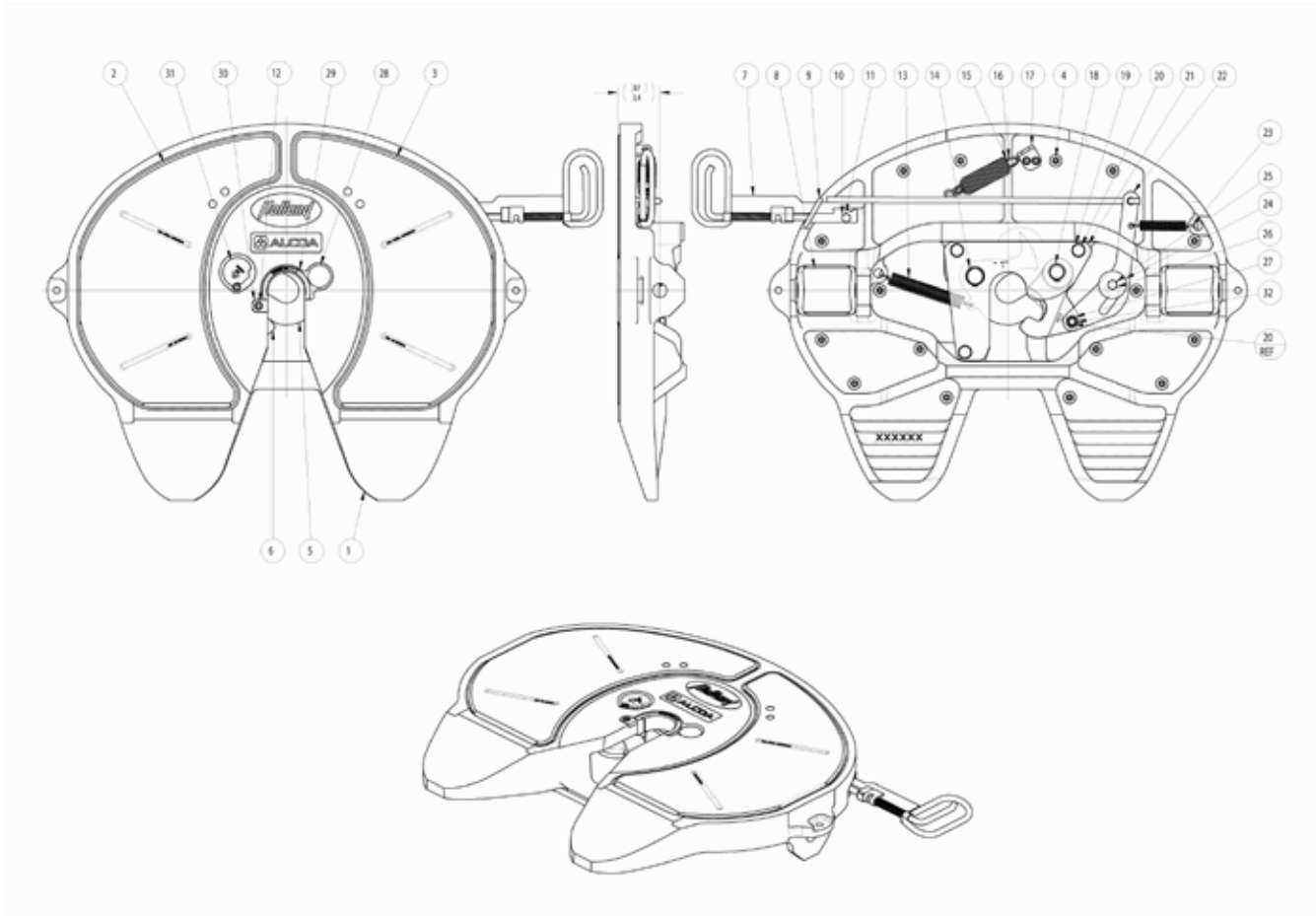
Fifth wheel position adjustable in 50 mm increments.

Available pre-drilled for bolting directly to all OEM tractor unit mounting angles.

Contact SAF-HOLLAND for full part number information.

Weight from 195 kg complete with top plate (FWAL-12D).

Spare parts FWAL-E



Item	Component (price per piece)	Order no.
	Full overhaul kit cpl. (Pos. 5-7, 1-16, 18, 22-25, 28-31)	RK-AL-A-E
	Repair kit for wear ring (Pos. 29-30)	RK-AL-10680
	Repair kit for locking mechanism (Pos. 5, 6, 13, 14, 18, 29-31)	RK-AL-10486
	Lube plate set (Pos. 2, 3, 4)	RS-91115
	Replacement operating handle kit (Pos. 7, 15, 16)	RK-AL-10681
	Bracket pins/rubber bush set	RK-AL-0011-3
	Bracket pins/rubber bush set (ISO 180mm)	RK-AL-10605

RECOSS®

SAFETY SYSTEM
FOR FIFTH WHEEL
SK-S 36.20 PLUS

RECOSS® - The proven 3-sensor safety system for fifth wheel SK-S 36.20 PLUS

Audio and visual display function in driver's cab.



- RECOSS® is available for all models of the SK-S 36.20 PLUS fifth wheel.
- In addition, the RECOSS® installation kit is required to connect the RECOSS® system.

Model SK-S 36.20 PLUS S (standard)

Type	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	mm	t	kN	kg	degree (w1/w2)	
SK-S 36.20 PLUS S	128*	20	152	116	8° / 8°	662 129 080
SK-S 36.20 PLUS S	150	20	152	116	8° / 13°	662 129 081
SK-S 36.20 PLUS S	185	20	152	119	17° / 26°	662 129 082
SK-S 36.20 PLUS S	225	20	152	121	23° / 30°	662 129 089
SK-S 36.20 PLUS S	250	20	152	131	29° / 42°	662 129 083

- * Tilt angle in accordance with ISO 1726 for height 128 mm is only guaranteed with our mounting plate MP 486
- EU test no.: e 1-00-0218

Model SK-S 36.20 PLUS WS (low maintenance)

Type	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	mm	t	kN	kg	degree (w1/w2)	
SK-S 36.2 0 PLUS WS	128*	20	152	116	8° / 8°	662 131 080
SK-S 36.2 0 PLUS WS	150	20	152	116	8° / 13°	662 131 081
SK-S 36.2 0 PLUS WS	185	20	152	119	17° / 26°	662 131 082
SK-S 36.2 0 PLUS WS	225	20	152	121	23° / 30°	662 131 083
SK-S 36.2 0 PLUS WS	250	20	152	131	29° / 42°	662 131 084

- * Tilt angle in accordance with ISO 1726 for height 128 mm is only guaranteed with our mounting plate MP 486
- For automatic lubrication of the locking mechanism we recommend the use of our grease dispenser with adaptor.
- EU test no.: e 1-00-0218

Model SK-S 36.20 PLUS DS (direct mounting)

Type	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	mm	t	kN	kg	degree (w1/w2)	
SK-S 36.20 PLUS DS	148*	20	152	126*	9.5° / 13°	662 129 260
SK-S 36.20 PLUS DS	190	20	152	135	19° / 25°	662 129 261
SK-S 36.20 PLUS DS	225	20	152	143	24° / 30°	662 129 262

- * Additional vendor specific mounting plate
- Please indicate vehicle type when placing orders (Mercedes-Benz, MAN, IVECO, DAF)
- EU test no.: e 1-00-0218

Model SK-S 36.20 PLUS DWS (direct mounting, low maintenance)

Type	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	mm	t	kN	kg	degree (w1/w2)	
SK-S 36.20 PLUS DWS	148*	20	152	126*	9.5° / 13°	662 131 075
SK-S 36.20 PLUS DWS	190	20	152	135	19° / 25°	662 131 076
SK-S 36.20 PLUS DWS	225	20	152	143	24° / 30°	662 131 077

- * Additional vendor specific mounting plate
- Please indicate vehicle type when placing orders (Mercedes-Benz, MAN, IVECO, DAF)
- For automatic lubrication of the locking mechanism we recommend the use of our grease dispenser with adaptor.
- EU test no.: e 1-00-0218

Model SK-S 36.20 PLUS VS (Volvo mounting angles)

Type	Overall height	Imposed load	D-value	Weight	Angle of inclination	Length V	Order no.
	mm	t	kN	kg	degree (w1/w2)	mm	
SK-S 36.20 PLUS VS	160	20	152,3	146	13° / 15°	462,5	662 129 263
SK-S 36.20 PLUS VS	160	20	152,3	146	13° / 15°	437,5	662 129 264
SK-S 36.20 PLUS VS	200	20	152,3	150	20° / 23°	462,5	662 129 265
SK-S 36.20 PLUS VS	200	20	152,3	150	20° / 23°	437,5	662 129 266
SK-S 36.20 PLUS VS	230	20	152,3	153	24° / 30°	462,5	662 129 267
SK-S 36.20 PLUS VS	230	20	152,3	153	24° / 30°	437,5	662 129 268
SK-S 36.20 PLUS VS (ZS*)	160	20	152,3	146	13° / 15°	462,5	662 129 269
SK-S 36.20 PLUS VS (ZS*)	160	20	152,3	146	13° / 15°	437,5	662 129 270
SK-S 36.20 PLUS VS (ZS*)	200	20	152,3	150	20° / 23°	462,5	662 129 271
SK-S 36.20 PLUS VS (ZS*)	200	20	152,3	150	20° / 23°	437,5	662 129 272
SK-S 36.20 PLUS VS (ZS*)	230	20	152,3	153	24° / 30°	462,5	662 129 273
SK-S 36.20 PLUS VS (ZS*)	230	20	152,3	153	24° / 30°	437,5	662 129 274

- Angle of inclination in accordance with ISO 1726
- EU test no.: e 1-00-0218
- ZS* = Model with central lubrication kit

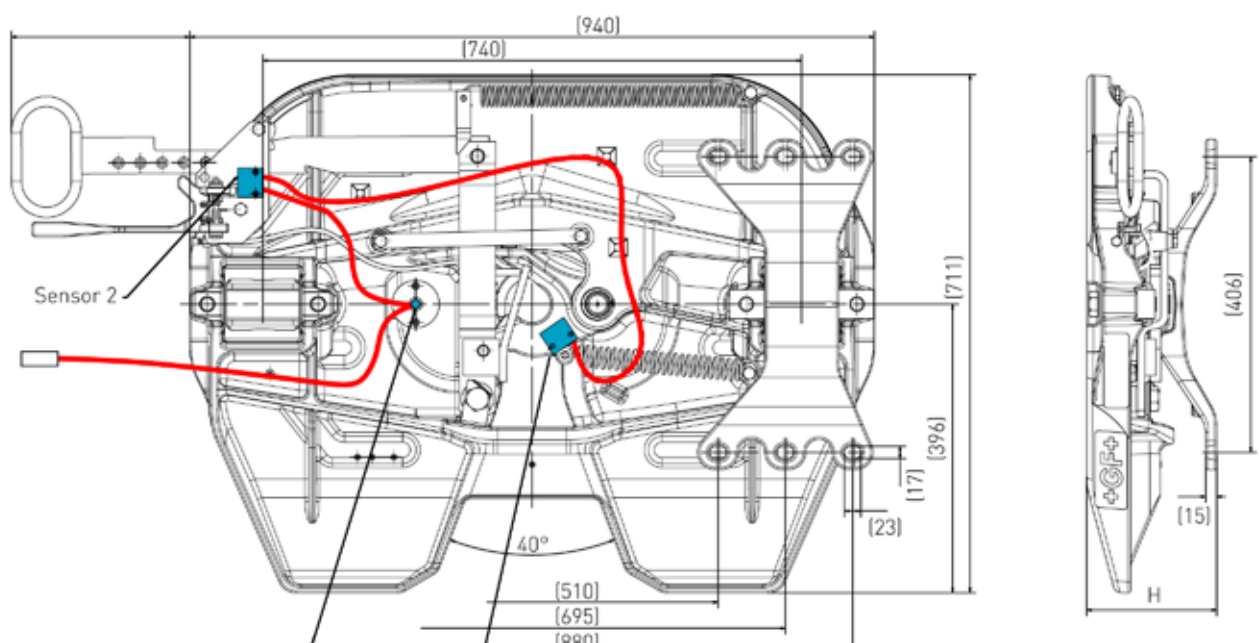
Model SK-S 36.20 PLUS VWS (Volvo mounting angles, low maintenance)

Type	Overall height	Imposed load	D-value	Weight	Angle of inclination	Length V	Order no.
	mm	t	kN	kg	degree (w1/w2)	mm	
SK-S 36.20 PLUS VWS	160	20	152,3	146	13° / 15°	462,5	662 131 093
SK-S 36.20 PLUS VWS	160	20	152,3	146	13° / 15°	437,5	662 131 094
SK-S 36.20 PLUS VWS	200	20	152,3	150	20° / 23°	462,5	662 131 096
SK-S 36.20 PLUS VWS	200	20	152,3	150	20° / 23°	437,5	662 131 097
SK-S 36.20 PLUS VWS	230	20	152,3	153	24° / 30°	462,5	662 131 098
SK-S 36.20 PLUS VWS	230	20	152,3	153	24° / 30°	437,5	662 131 099

- Angle of inclination in accordance with ISO 1726
- For automatic lubrication of the locking mechanism we recommend the use of our grease dispenser with adaptor.
- EU test no.: e 1-00-0218

Model -S 36.20 PLUS HS (Dual height fifth wheel)

- For RECOSS® order no. please see chapter SK-S 36.20 PLUS H

Dimensions


RECOSS® installation kit for SK-S 36.20 PLUS S models

The installation kit contains all components for connecting a SK-S 36.20 PLUS S fifth wheel with control unit (Pos. 15). Not included are indicator lights which must be separately ordered from the respective vehicle manufacturer.

Item	Type	Note	Disp.	Order no.
9-15	RECOSS® installation kit for all SK-S 36.20 PLUS S models	3 sensors, ADR suitable		662 129 415

RECOSS® conversion kit for SK-S 36.20 PLUS

All fifth wheel models of the SK-S 36.20 PLUS are prepared for retrofitting the new RECOSS® 3-sensor safety system. The conversion kit includes the installation kit as well as all the necessary components except the indicator lights which must be separately ordered from the respective manufacturer.

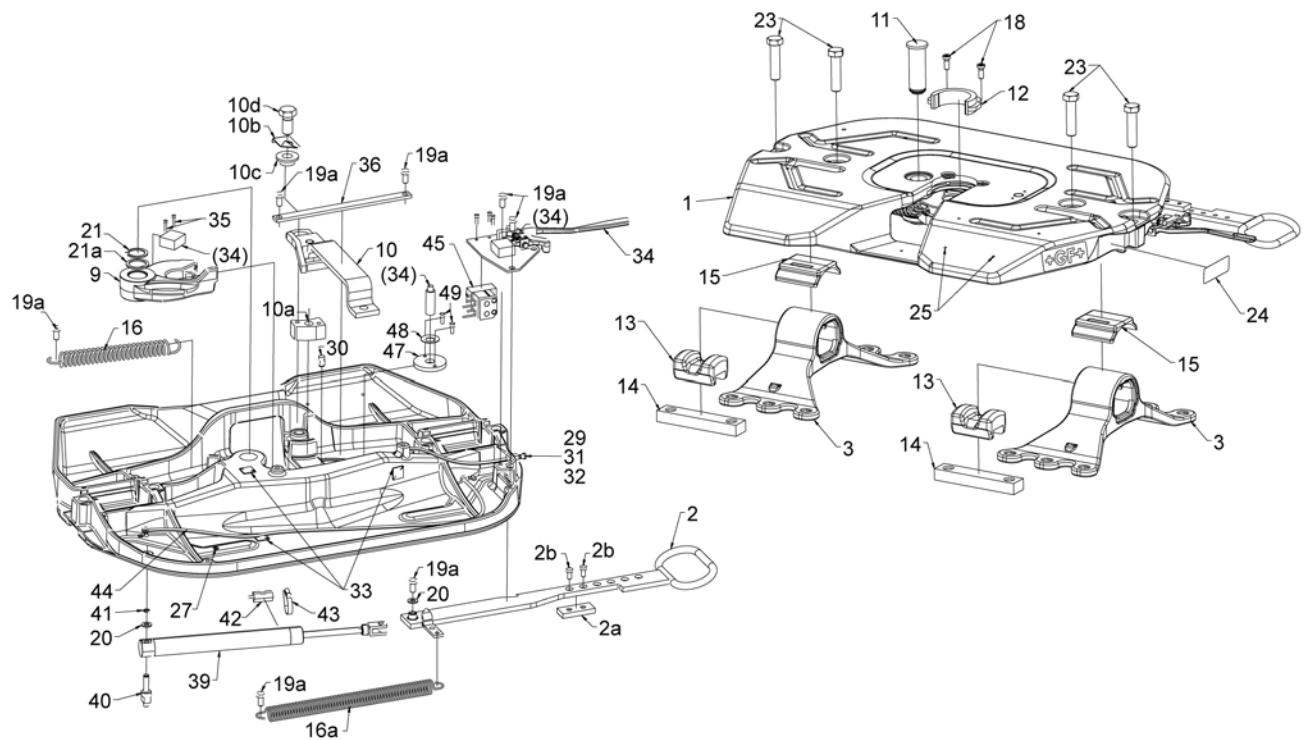
Item	Type	Note	Disp.	Order no.
1-15	RECOSS® conversion kit for SK-S 36.20 PLUS (complete)	contains installation kit		662 129 417

RECOSS® repair kits and spare parts

























Item	Type	Pcs.	Disp.	Order no.
	Repair kit for locking mechanism SK-S 36.20 PLUS S			662 101 716
	Repair kit for locking mechanism SK-S 36.20 PLUS WS			662 101 718
	Repair kit for locking mechanism and bearings SK-S 36.20 PLUS S			662 101 717
	Repair kit for locking mechanism and bearings SK-S 36.20 PLUS WS			662 101 719
3-8	Repair kit for sensors complete(3-sensor model)			662 129 427
1	Coupler jaw SK-S 36.20 PLUS RECOSS®	1		662 131 115
2	Circlip	1		659 100 027
5	Cable clip	6		662 129 168
9	Wiring loom assembly (9a,9b,9c,9d)			662 129 401
10	Control unit (3-sensor, ADR/GGVS suitable)	1		662 129 400
11	Mounting adaptor for control unit	1		662 129 404
13	Cable tie	3		659 100 045
14	Labels for indicator lights	1		662 129 190
15	Display unit (incl. mounting socket and screws)	1		662 129 445

Spare parts SK-S 36.20 PLUS A RECOHITCH®



Item	Component (price per piece)	Pcs.	Disp.	Order no.
1	Fifth wheel plate	1		662 129 472
2	Operating handle, complete (2a, 2b)	1		662 129 465
2a	Adjustment plate	1		662 129 158
2b	Cap screw	2		659 112 371
3	Mounting bracket 128 mm	2		662 129 383
3	Mounting bracket 150 mm	2		662 129 484
3	Mounting bracket 185 mm	2		662 129 485
3	Mounting bracket 225 mm	2		662 129 389
3	Mounting bracket 250 mm	2		662 129 386
9	Coupler jaw	1		662 129 161
10	Locking hook	1		662 129 156
10a	Stopper	1		662 129 381
10b	Locking plate	1		662 129 387
10c	Bush	1		662 129 374
10d	Cap bolt	1		662 129 600
11	Pin	1		662 129 375
12	Wear ring	1		662 129 377
13	Rubber damper	2		662 114 110
14	Tensioning bar	2		662 129 388
15	Bearing insert	2		662 130 101
16	Tension spring	1		662 126 411
16a	Tension spring	1		662 129 317
18	Cap screw	2		659 112 372
19a	Hex. bolt	7		659 112 359
20	Washer	2		662 126 175
21	Circlip	1		659 100 027
21a	Supporting washer	1		659 100 026
23	Hex. bolt	4		662 129 606
24	Type plate	1		659 120 420
26	Rivet	1		662 126 179

Item	Component (price per piece)	Pcs.	Disp.	Order no.
27	Plastic plug (Ø 8 mm)	5		662 126 223
28	Plastic plug (Ø 6 mm)	6		662 126 255
29	Lubrication tube assembly	1		659 144 106
30	Grease plug	1		662 129 380
31	Grease nipple	1		662 126 224
32	Cap	1		659 144 142
33	Mounting base	4		662 129 168
34	Automatic latch	1		662 129 461
35	Cap bolt	2		659 112 376
36	Guide plate	1		662 129 144
37	Lock nut	1		659 100 029
39	Unlocking cylinder	1		662 129 451
40	Cylinder fastener	1		662 129 452
41	Shaft circlip	1		659 100 099
42	Reed sensor	1		662 129 463
43	Worm drive clamp	1		659 144 161
44	Connecting line	1		662 129 466
45	Releasing module	1		662 129 450
46	Cap screw	3		659 112 351
47	Holder for counter plate sensor	1		662 129 488
48	Lock washer	1		662 129 490
49	Cap bolt	2		659 112 352

Notice

Notice

**HEAVY DUTY
FIFTH WHEEL**

UP TO 36T
IMPOSED LOAD

SK-HD 38.36

Fifth wheels for extra heavy transportation

- Permanent, maintenance-free bearings
- Conversion from 3½" to 2" and vice versa possible
- Simple adjustment of locking mechanism
- Suitable for steering wedge applications
- Special pneumatically operated version for harbour application

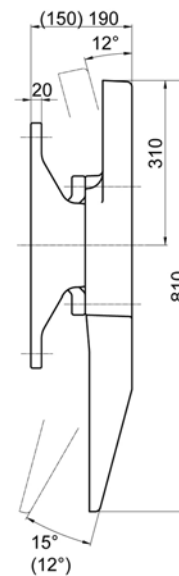
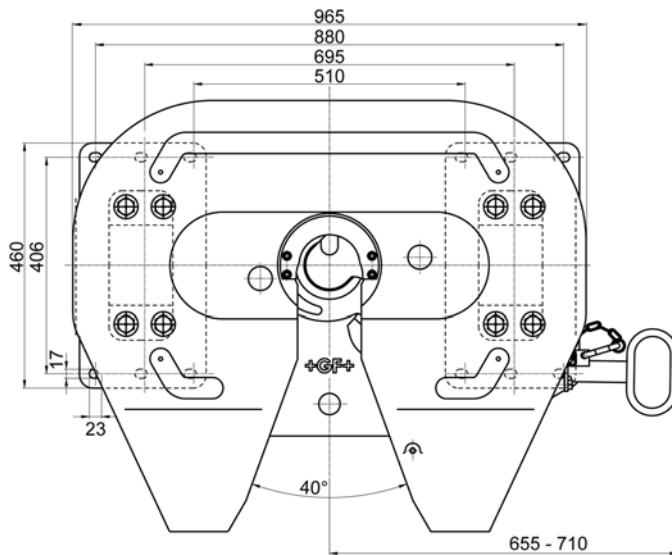


Technical data

Type	Lock size	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	inch	mm	t	kN		degree (w1/w2)	
SK-HD 38.36	3½"	150	36	260	185	12° / 12°	662 111 065
SK-HD 38.36	3½"	190	36	260	185	15° / 12°	662 111 066
SK-HD 38.36.2	2"	150	23	162	185	12° / 12°	662 111 085
SK-HD 38.36.2	2"	190	23	162	185	15° / 12°	662 111 074

- Approved for forced steering
- EU-test no.: e 1-00-0386 (3½")
- EU-test no.: e 1-00-0387 (2")

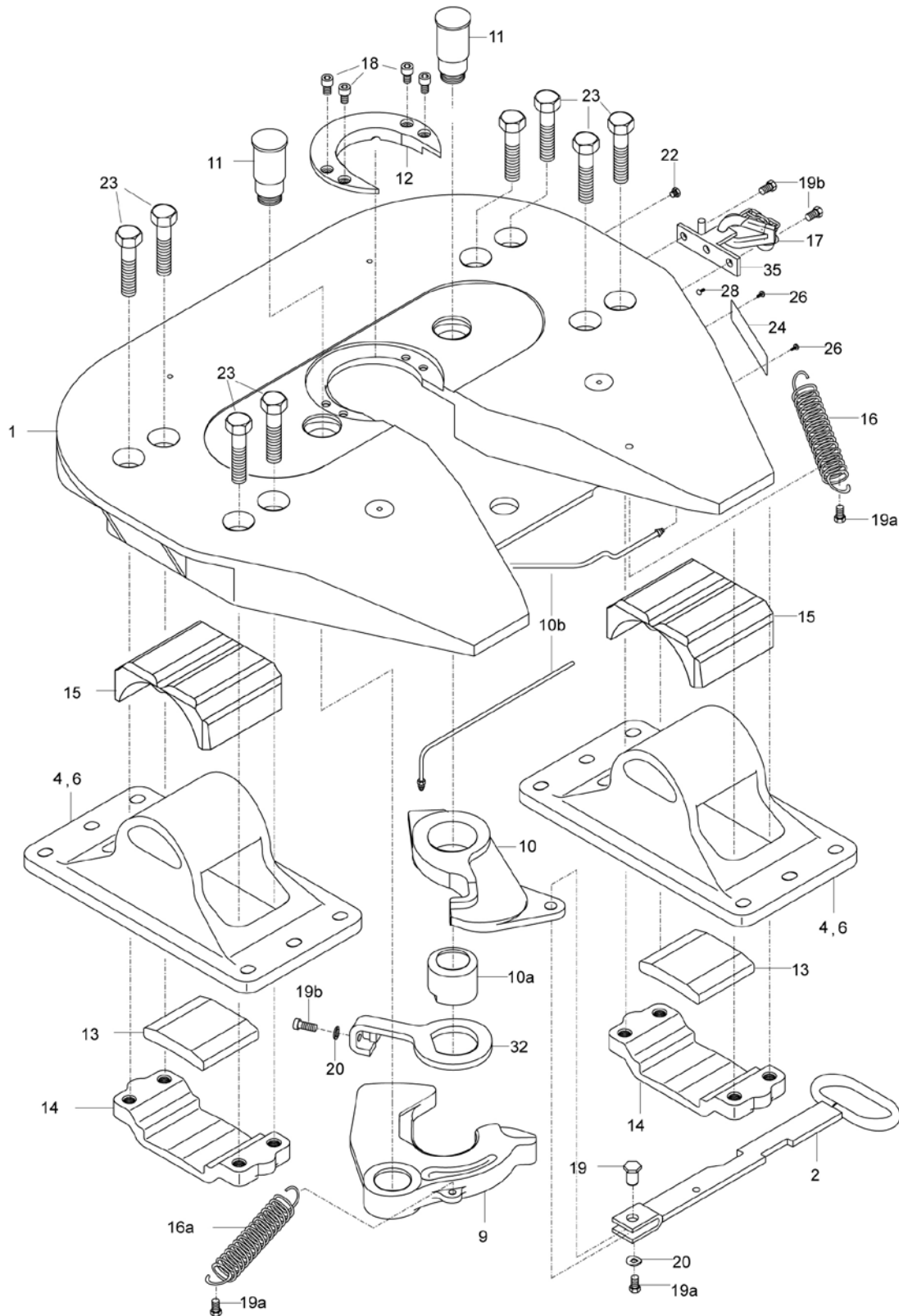
Dimensions

















Mounting hole pattern according to DIN 74081
Subject to modifications in dimensions and design

Spare parts SK-HD 38.36 from serial number 40001301

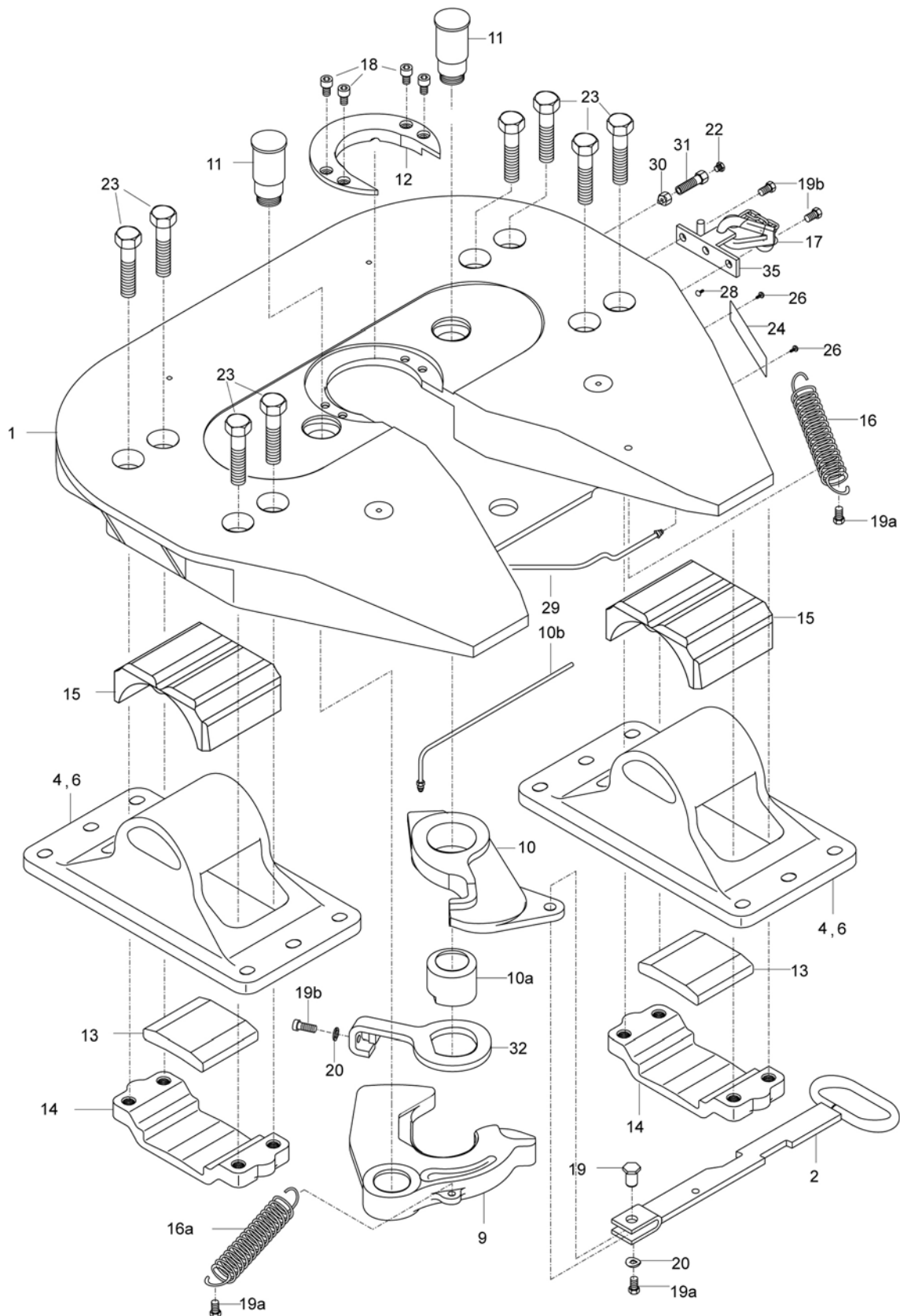
Please note: Also applies for serial numbers 40001055-1144, 40001195-1216















































Item	Component (price per piece)	Pcs.	Disp.	Order no.
	2" Repair kit for locking mechanism and bearings (9,11,12,13,15,18,23)			662 101 706
	2" Repair kit for locking mechanism (9,11,12,18)			662 101 708
	2" Repair kit for bearings (13,15,23)			662 101 457
	2" Repair kit for wear ring (12,18)			662 101 710
	3½" Repair kit for locking mechanism and bearings (9,11,12,13,15,18,23)			662 101 707
	3½" Repair kit for locking mechanism (9,11,12,18)			662 101 709
	3½" Repair kit for bearings (13,15,23)			662 101 457
	3½" Repair kit for wear ring (12,18)			662 101 711
	Conversion kit from 3½" to 2" (9,12,18,24,26)			662 101 704
	Conversion kit from 2" to 3½" (9,12,18,24,26)			662 101 705
1	Fifth wheel plate	1		662 111 254
2	Operating handle	1		662 111 276
4	Mounting bracket 150 mm	2		662 111 293
6	Mounting bracket 190 mm	2		662 111 256
9	Coupler jaw, 2"	1		662 111 249
9	Coupler jaw, 3½"	1		662 111 247
10	Locking hook	1		662 111 239
10a	Cam	1		662 111 317
10b	Lubrication tube assembly	2		659 144 106
11	Pin	2		662 111 344
12	Wear ring 2"	1		662 111 342
12	Wear ring 3½"	1		662 111 343
13	Rubber damper	2		662 111 259
14	Tensioning bar	2		662 111 258
15	Bearing	2		662 111 264
16	Tension spring	1		662 126 410
16a	Tension spring	1		662 111 130
17	Carabiner hook with chain	1		662 100 574
18	Cap bolt	4		659 112 624
19	Pin	1		662 126 449
19a	Hex. bolt	3		659 112 359
19b	Cap bolt	3		659 112 358
20	Washer	2		662 126 175
22	Grease nipple	2		662 126 224
23	Hex. bolt	8		659 112 510
24	Type plate	1		659 120 380
26	Rivet	2		662 126 173
28	Hammer rivet	1		662 126 151
32	Fork	1		662 111 314
35	Safety flange	1		662 111 281
	Tube clamp (not shown)	1		662 111 345
	Plug for lubrication tube (not shown)	1		662 111 346

Spare parts SK-HD 38.36 up to serial number 40001300

Please note: Spare parts for serial numbers 40001055-1144, 40001195-1216 see new spare part list from serial number 40001301.



Item	Component (price per piece)	Serial no.	Pcs.	Disp.	Order no.
	2" Repair kit for locking mechanism and bearings (9,11,12,13,15,18,23)				662 101 453
	2" Repair kit for locking mechanism (9,11,12,18)				662 101 455
	2" Repair kit for bearings (13,15,23)				662 101 457
	2" Repair kit for wear ring (12,18)				662 101 563
	3½" Repair kit for locking mechanism and bearings (9,11,12,13,15,18,23)				662 101 454
	3½" Repair kit for locking mechanism (9,11,12,18)				662 101 456
	3½" Repair kit for bearings (13,15,23)				662 101 457
	3½" Repair kit for wear ring (12,18)				662 101 564
	Conversion kit from 3½" to 2" (9,12,18,24,26)				662 101 431
	Conversion kit from 2" to 3½" (9,12,18,24,26)				662 101 432
1	Fifth wheel plate		1		662 111 254
2	Operating handle		1		662 111 276
4	Mounting bracket 150 mm		2		662 111 293
6	Mounting bracket 190 mm		2		662 111 256
9	Coupler jaw, 2"		1		662 111 249
9	Coupler jaw, 3½"		1		662 111 247
10	Locking hook		1		662 111 239
10a	Cam		1		662 111 317
10b	Lubrication tube		1		662 130 118
11	Pin		2		662 111 316
12	Wear ring 2"		1		662 111 319
12	Wear ring 3½"		1		662 111 250
13	Rubber damper		2		662 111 259
14	Tensioning bar		2		662 111 258
15	Bearing		2		662 111 264
16	Tension spring		1		662 126 410
16a	Tension spring		1		662 111 130
17	Carabiner hook with chain		1		662 100 574
18	Cap bolt		4		659 112 363
19	Pin		1		662 126 449
19a	Hex. bolt	651711 - ...	3		662 126 172
19a	Hex. bolt	0 - 651710	5		662 126 172
19b	Cap bolt	651711 - ...	3		659 112 358
20	Washer		2		662 126 175
22	Grease nipple		2		662 126 224
23	Hex. bolt		8		659 112 510
24	Type plate		1		659 120 380
26	Rivet		2		662 126 173
28	Hammer rivet		1		662 126 151
29	Lubrication tube		1		662 111 289
30	Lock nut		2		662 126 176
31	Eyebolt		2		662 126 465
32	Fork		1		662 111 314
35	Safety flange		1		662 111 281

SK-HD 38.36 G (off-road use)

The cast 36t heavy duty fifth wheel

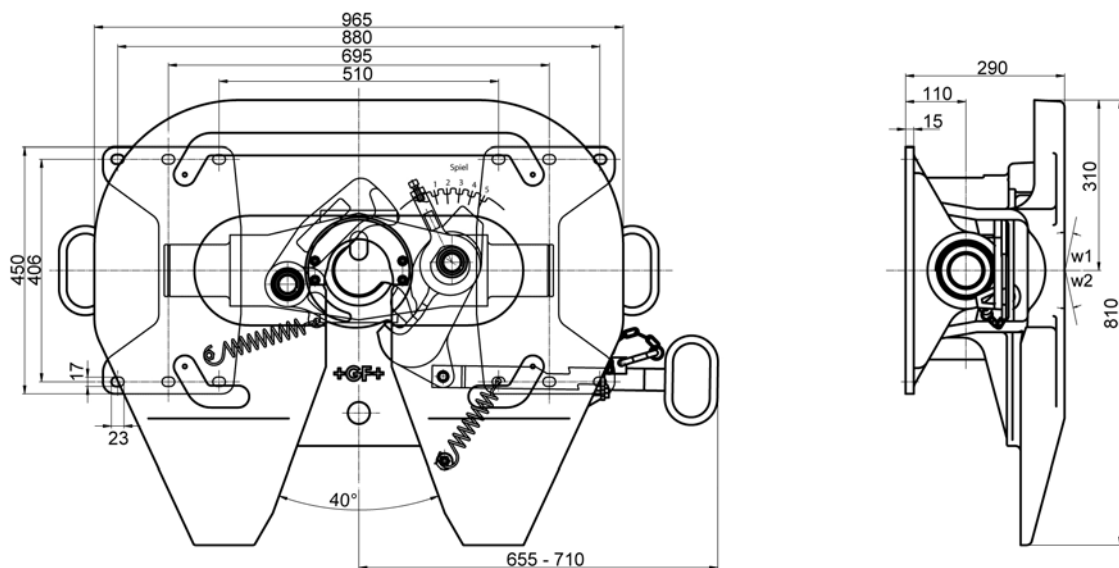
- Suitable for off-road use with double oscillation
- Max. tilt $\pm 7^\circ$ around the longitudinal axis
- Simple and safe handling
- 5-stage wear adjustment
- Quick conversion from 3½" to 2" and vice versa
- Suitable for steering wedge applications



Technical data

Type	Lock size	Overall height	D-value	Imposed load	Weight	Angle of inclination	Order no.
	inch	mm	kN	t	kg	degree (w1/w2)	
SK-HD 38.36 G	3½"	290	260	36	272	17° / 14°	662 111 088
SK-HD 38.36.2 G	2"	290	162	23	272	17° / 14°	662 111 089

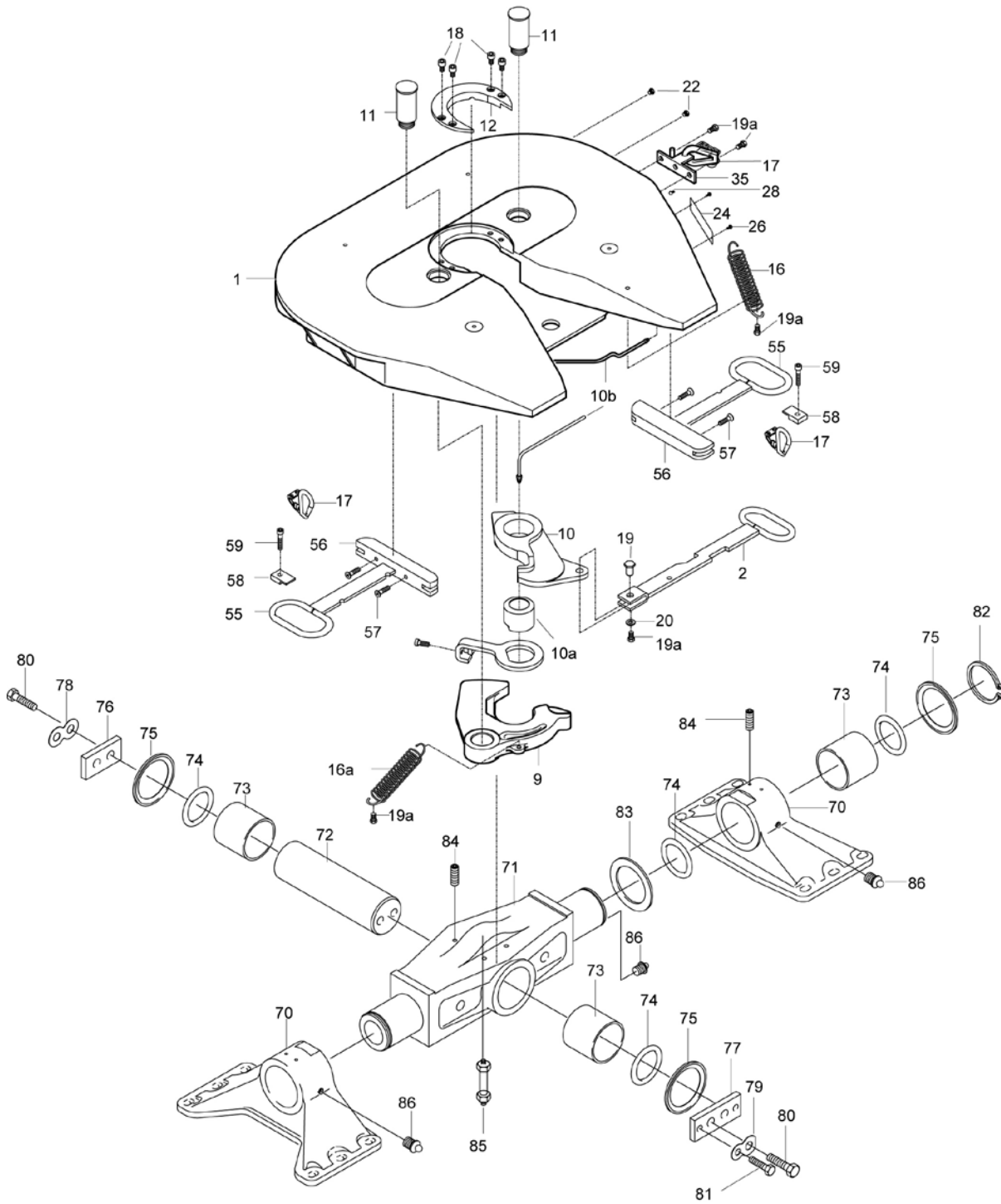
Dimensions




























Mounting hole pattern according to DIN 74081
Subject to modifications in dimensions and design

Spare parts SK-HD 38.36 G from serial number 40001301

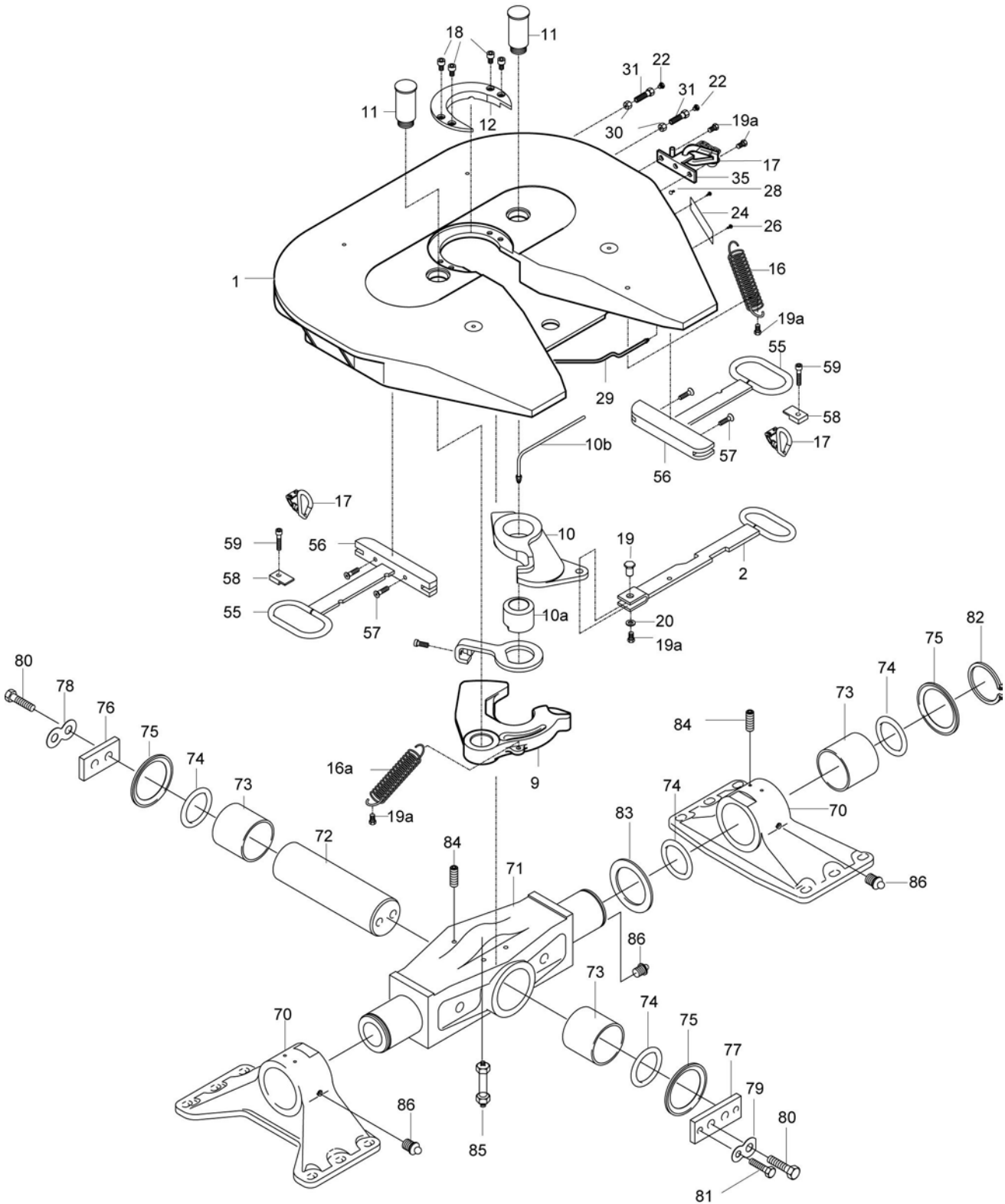
Please note: Also applies for serial numbers 40001055-1144, 40001195-1216



Item	Component (price per piece)	Pcs.	Disp.	Order no.
	Repair kit for locking mechanism 3½" (9,11,12,18)			662 101 709
	Repair kit for bearing sub-assembly 3 ½" (73,74,78,79,80,81,84,85,86)			662 101 487
	Repair kit for locking mechanism 2" (9,11,12,18)			662 101 708
	Repair kit for bearing sub-assembly 2" (73,74,78,79,80,81,84,85,86)			662 101 487
	Locking mechanism kit (55, 56, 57, 58, 59)			662 111 313
	Conversion kit 3½" to 2" (9,12,18,24,26)			662 101 704
	Conversion kit 2" to 3½" (9,12,18,24,26)			662 101 705
1	Fifth wheel plate	1		662 111 261
2	Operating handle	1		662 111 276
9	Coupler jaw assembly 3½"	1		662 111 247
9	Coupler jaw assembly 2"	1		662 111 249
10	Locking hook assembly	1		662 111 239
10a	Cam complete	1		662 111 317
10b	Lubrication tube assembly	2		659 144 106
11	Pin	2		662 111 347
12	Wear ring 3½"	1		662 111 343
12	Wear ring 2"	1		662 111 342
16	Tension spring	1		662 126 410
16a	Tension spring	1		662 111 130
17	Carabiner hook with chain	3		662 100 574
18	Cap screw	4		659 112 624
19	Pin	1		662 126 449
19a	Hex. bolt	2		659 112 359
20	Washer	1		662 126 175
22	Grease nipple	2		662 126 224
24	Type plate	1		659 120 380
26	Rivet	2		662 126 173
28	Hammer rivet	1		662 126 151
35	Safety flange	1		662 111 281
55	Operating handle	2		662 111 297
56	Stopper	2		662 111 296
57	Counter sink screw	4		662 100 371
58	Locking plate	2		662 111 298
59	Cap bolt	2		662 126 155
70	Mounting bracket	2		662 111 299
71	Rocker arm	1		662 111 303
72	Trunnion pin	1		662 111 306
73	Bearing sleeve	4		662 111 300
74	O-ring	6		662 111 301
75	Spacing washer	4		659 122 075
76	Plate	1		662 111 304
77	Counterplate	1		662 111 307
78	Locking plate	1		662 111 305
79	Locking plate	2		662 111 308
80	Hex. bolt	4		662 111 203
81	Hex. bolt	2		659 112 320
82	Circlip	2		662 111 302
83	Spacing washer	2		659 122 074
84	Cylindrical notched pin	8		662 111 311
85	Grease nipple assembly	1		662 111 312
86	Grease nipple	6		662 126 224
	Complete base assembly (not shown)			662 111 096

Spare parts SK-HD 38.36 G up to serial number 40001300

Please note: Spare parts for serial numbers 40001055-1144, 40001195-1216 see new spare part list from serial number 40001301 on previous pages



Item	Component (price per piece)	Pcs.	Disp.	Order no.
	Repair kit for locking mechanism 3½" (9,11,12,18)			662 101 456
	Repair kit for bearing sub-assembly 3 ½" (73,74,78,79,80,81,84,85,86)			662 101 487
	Repair kit for locking mechanism 2" (9,11,12,18)			662 101 455
	Repair kit for bearing sub-assembly 2" (73,74,78,79,80,81,84,85,86)			662 101 487
	Locking mechanism kit (55, 56, 57, 58, 59)			662 111 313
	Conversion kit 2" to 3½"			662 101 432
	Conversion kit 3½" to 2"			662 101 431
1	Fifth wheel plate	1		662 111 261
2	Operating handle	1		662 111 276
9	Coupler jaw assembly 3½"	1		662 111 247
9	Coupler jaw assembly 2"	1		662 111 249
10	Locking hook assembly	1		662 111 239
10a	Cam complete	1		662 111 322
10b	Lubrication tube	1		662 130 118
11	Pin	2		662 111 316
12	Wear ring 3½"	1		662 111 250
12	Wear ring 2"	1		662 111 319
16	Tension spring	1		662 126 410
16a	Tension spring	1		662 111 130
17	Carabiner hook with chain	3		662 100 574
18	Cap screw	4		659 112 363
19	Pin	1		662 126 449
19a	Hex. bolt	5		662 126 172
20	Washer	1		662 126 175
22	Grease nipple	2		662 126 224
24	Type plate	1		659 120 380
26	Rivet	2		662 126 173
28	Hammer rivet	1		662 126 151
29	Lubrication tube	1		662 111 289
30	Lock nut	2		662 126 176
31	Eyebolt	2		662 126 465
35	Safety flange	1		662 111 281
55	Operating handle	2		662 111 297
56	Stopper	2		662 111 296
57	Counter sink screw	4		662 100 371
58	Locking plate	2		662 111 298
59	Cap bolt	2		662 126 155
	Complete base assembly (70-86)			662 111 096
70	Mounting bracket	2		662 111 299
71	Rocker arm	1		662 111 303
72	Trunnion pin	1		662 111 306
73	Bearing sleeve	4		662 111 300
74	O-ring	6		662 111 301
75	Spacing washer	4		659 122 075
76	Plate	1		662 111 304
77	Counterplate	1		662 111 307
78	Locking plate	1		662 111 305
79	Locking plate	2		662 111 308
80	Hex. bolt	4		662 111 203
81	Hex. bolt	2		659 112 320
82	Circlip	2		662 111 302
83	Spacing washer	2		659 122 074
84	Cylindrical notched pin	8		662 111 311
85	Grease nipple assembly	1		662 111 312
86	Grease nipple	6		662 126 224

FW0E70

The heavy duty fifth wheel with max. 36t vertical load

- Heavy duty fifth wheel for general on- and off-road applications where higher capacities are required.
- Available with locks for 3½" and 2" king pins.
- High strength cast steel construction, minimum operating temperature -40° C.
- Forged, heat treated steel locks, for maximum strength and durability.
- Manufactured in accordance with DIN 74081 and DIN 74084 standards.
- Suitable for all types of rear axle steering.

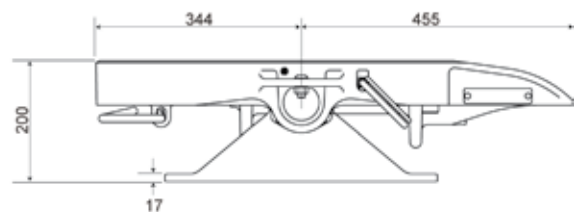
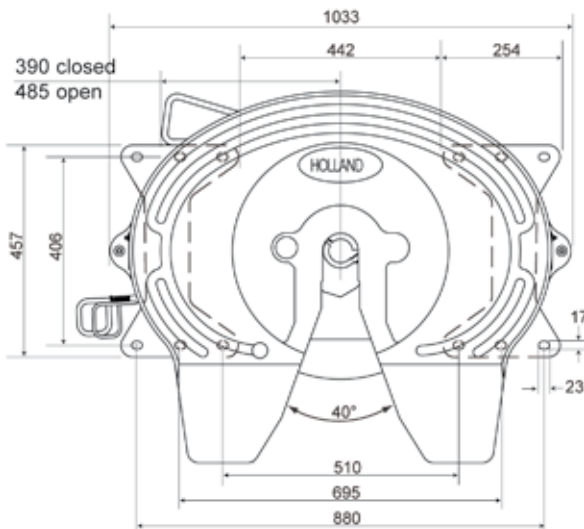


Technical data

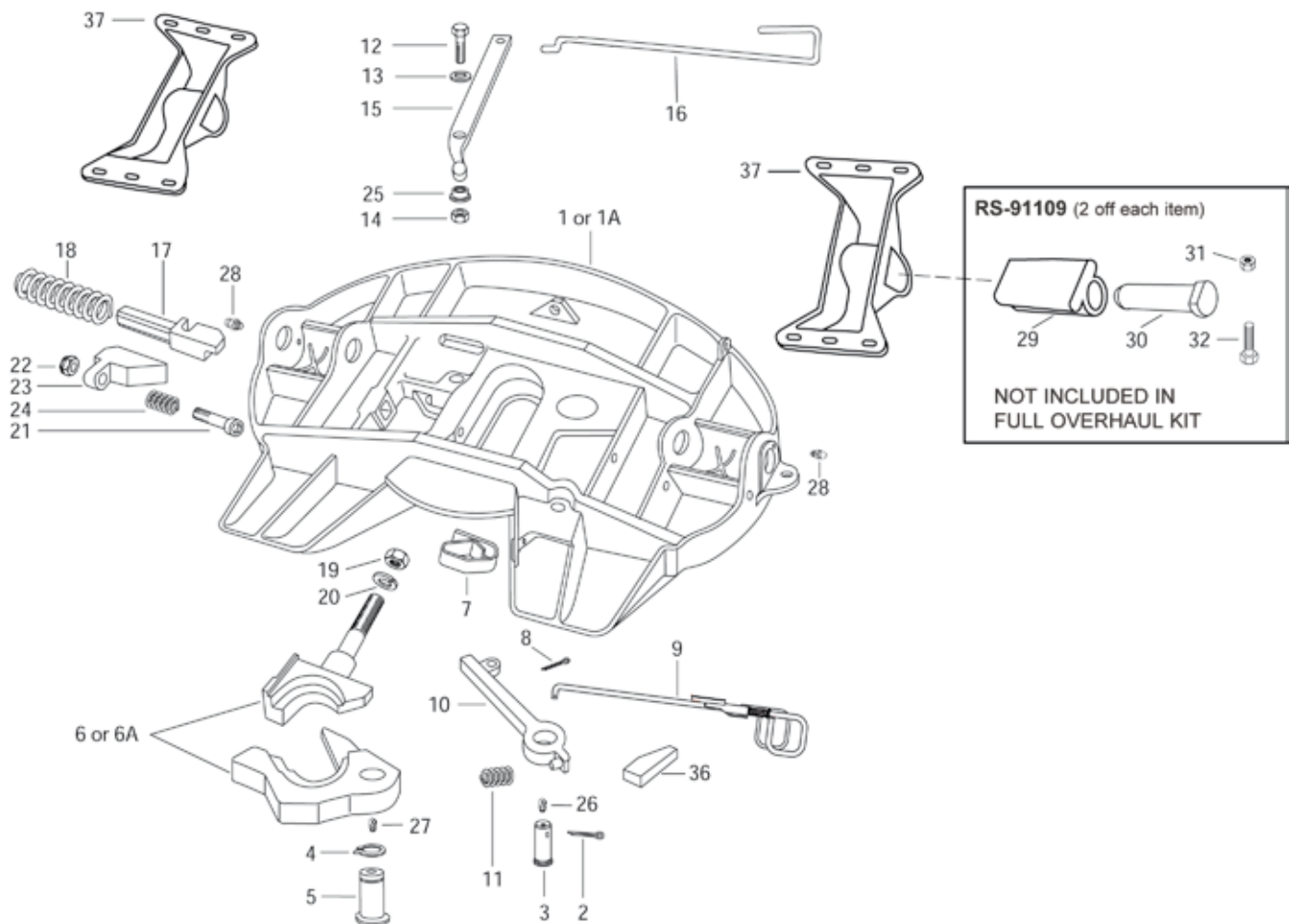
Type	Lock size	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	inch	mm	t	kN	kg	degree (w1/w2)	
FW0E70-03-TP	3½"	top plate only	36	240	148	0	FW0E70-03-TP
FW0E70-02-TP	2"	top plate only	30	170	142	0	FW0E70-02-TP
FW0E70-03-200	3½"	200	36	240	184	0	FW0E70-03-200
FW0E70-02-200	2"	200	30	170	184	0	FW0E70-02-200

- * * D-Value of king pin to be used must also be suitable for the tractor / trailer combination
- Type Approval No.: e11 00-000050 - 2" Version
- Type Approval No.: e11 00-000051 - 3½" Version

Dimensions



Spare parts FW0E70



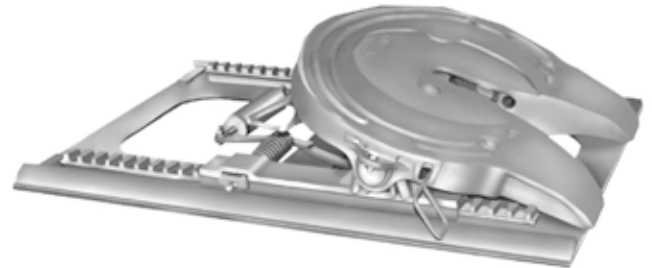
Item	Component (price per piece)	Pcs.	Order no.
	Lock repair kit (2")		RS-91105
	Lock repair kit (3½")		RS-91106
	Full overhaul kit (2")		RS-91107
	Full overhaul kit (3½")		RS-91108
	Cushion kit		RS-91109
1	Fifth wheel top plate - 2" king pin	1	XA-71-DAE
1A	Fifth wheel top plate - 3½" king pin	1	XA-71-OAE
2	Cotter pin 1/4" x 2"	1	XB-5
3	Lock pin	1	XA-1016-C-KTL
4	Cotter pin 1/4" x 2.5"	1	XB-09153
5	Lock pin	2	XA-FW-108-D-15-KTL
6	Lock set for 2" king pin	1	XA-FW-104-D-KTL
6A	Lock set for 3½" king pin	1	XA-FW-104-03-KTL
7	Spring	1	CA-FW-128
8	Cotter pin 1/8" x 1"	1	XB-16
9	Secondary lock release handle	1	XA-08783
10	Secondary lock arm	1	XA-FW-137-2-KTL
11	Spring	1	XB-1028-2
12	Hex head cap screw 1/2" - 20 x 1.75"	1	XB-2083
13	Plain washer	1	XB-T-49
14	Hex lock nit 1/2" - 20	1	XB-T-69-A
15	Release lever	1	XA-1005-FH-KTL
16	Release handle	1	XA-1117-H-KTL
17	Plunger	1	XA-1104-KTL
18	Compression spring (red)	2	XB-1007
19	Jam nut 1" - 14	1	XB-04473

Item	Component (price per piece)	Pcs.	Order no.
20	Spring washer	1	XB-10327
21	Socket head cap screw	1	XB-09407
22	Lock nut 5/8" - 11	1	XB-9174
23	Adjustment wedge	1	XB-3123-1-KTL
24	Compression spring	1	XB-403-KTL
25	Bushing	1	XB-02949
26	Lube fitting (90°)	1	XB-0769
27	Lube fitting (90°)	1	XB-H-38-A
28	Lube fitting	2	XB-H-38
29	Bushing	2	XB-0012-3
30	Pivot pin	2	XE-02759-KTL
31	Hex lock nut	2	32001
32	Bolt	2	31041
36	Adjusting block	1	XA-05768-1
37	Brackets for 200mm height	2	XD-05518-KTL

FW2E70

The sliding heavy duty fifth wheel with 34t vertical load

- Sliding fifth wheel with heavy duty top plate FW0E70.
- Available with locks for 3½" and 2" king pins.
- Standard travel length from 272 up to 1671mm, fifth wheel height 229mm and slide plate width of 940mm.
- Fifth wheel adjustable in 38mm increments.
- Locking plungers adjustable for wear.
- Locking with air release.

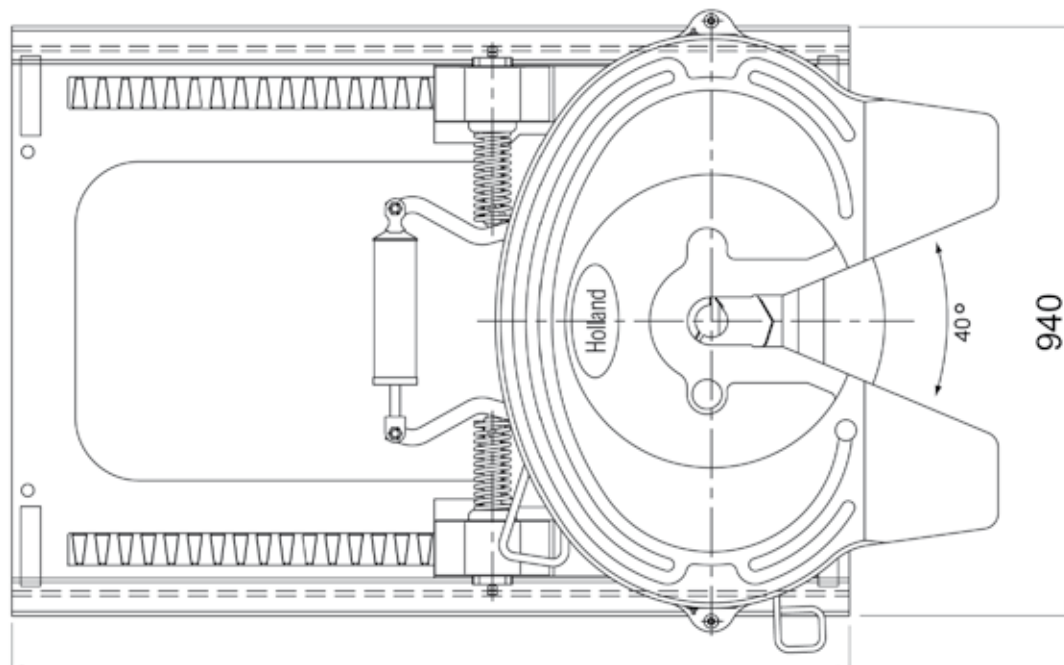


Technical data

Type	Lock size	Imposed load	D-value	Weight
	inch	t	kN	kg
max. 85 km/h	2"	34	165	80000
max. 85 km/h	3½"	34	200	80000
max. 70 km/h	3½"	34	240	80000
max. 60 km/h	3½"	34	240	100000
max. 45 km/h	3½"	34	240	110000

- The load limits given are valid for operation on paved roads and under conditions prevailing in Europe. For alternative conditions please consult us.
- Gross combination weight and D-Value limited according to maximum operating speed - see table below for details.

Dimensions



Overall slide plate length (see back page for dimensions)

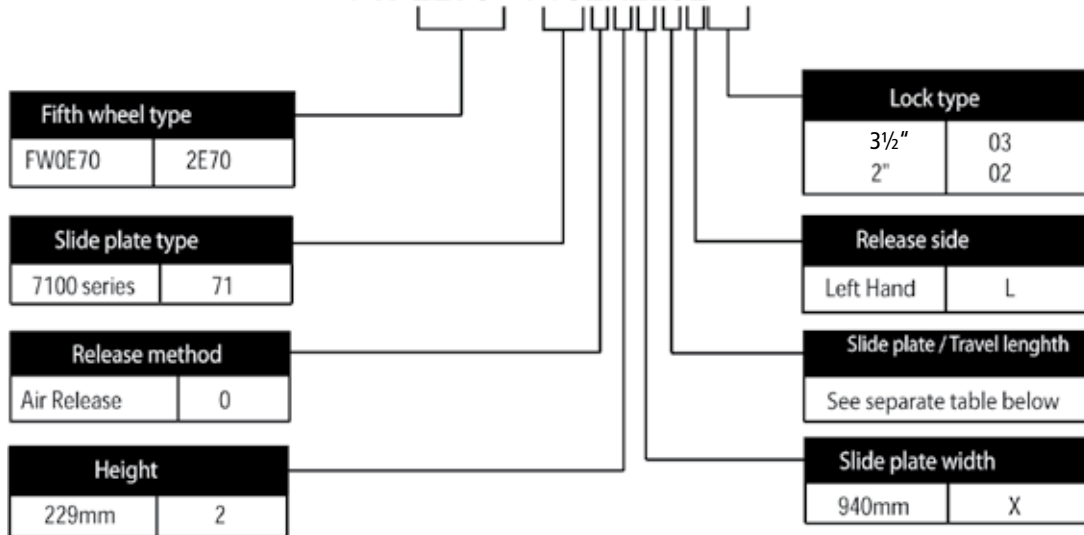


Spare parts FW2E70

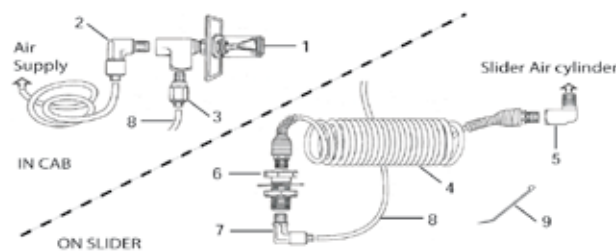
Mounting hole pattern according to DIN 74081
Subject to modifications in dimensions and design

Part number system

FW 2E70 - 7102X2L02



Length code	Slide plate length	Travel length
1	988mm	272mm
2	1143mm	427mm
3	1336mm	622mm
4	1765mm	1049mm
5	2083mm	1360mm
6	2388mm	1671mm



Item	Component (price per piece)	Pcs.	Order no.
	Air control kit (Pos. 1-9)	1	RK2500-10-A
1	Switch assembly	1	
2	Elbow fitting	1	
3	Straight fitting	1	
4	Air coil	1	
5	Elbow fitting	1	
6	Bulkhead fitting	1	
7	elbow fitting	1	
8	Tubing (9 metre coil)	1	
9	Cable tie	5	

Notice

**HEAVY DUTY
FIFTH WHEEL**

**UP TO 74T
IMPOSED LOAD**

FW0100

The 45t extra heavy duty fifth wheel in 2" and 3½" version.

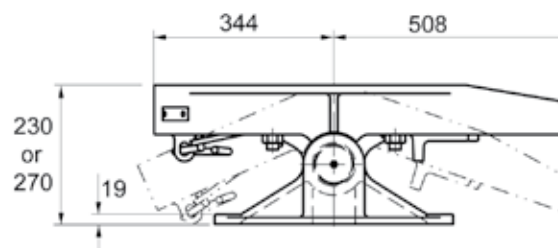
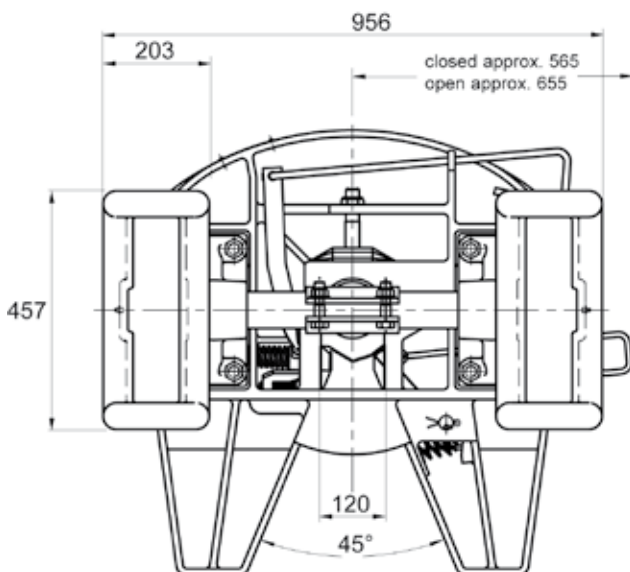
- 2" or 3½" extra heavy duty fifth wheel manufactured from high strength cast steel, designed for the most demanding applications.
- The high strength, lock system is manufactured from high quality forged and heat-treated components.
- Solid trunnion shaft serves as a torsion bar between the brackets for extremely high vertical loads.
- Minimum operating temperature -40° C.
- Suitable for rear axle steering systems, high steering accuracy due to minimal radial movement.



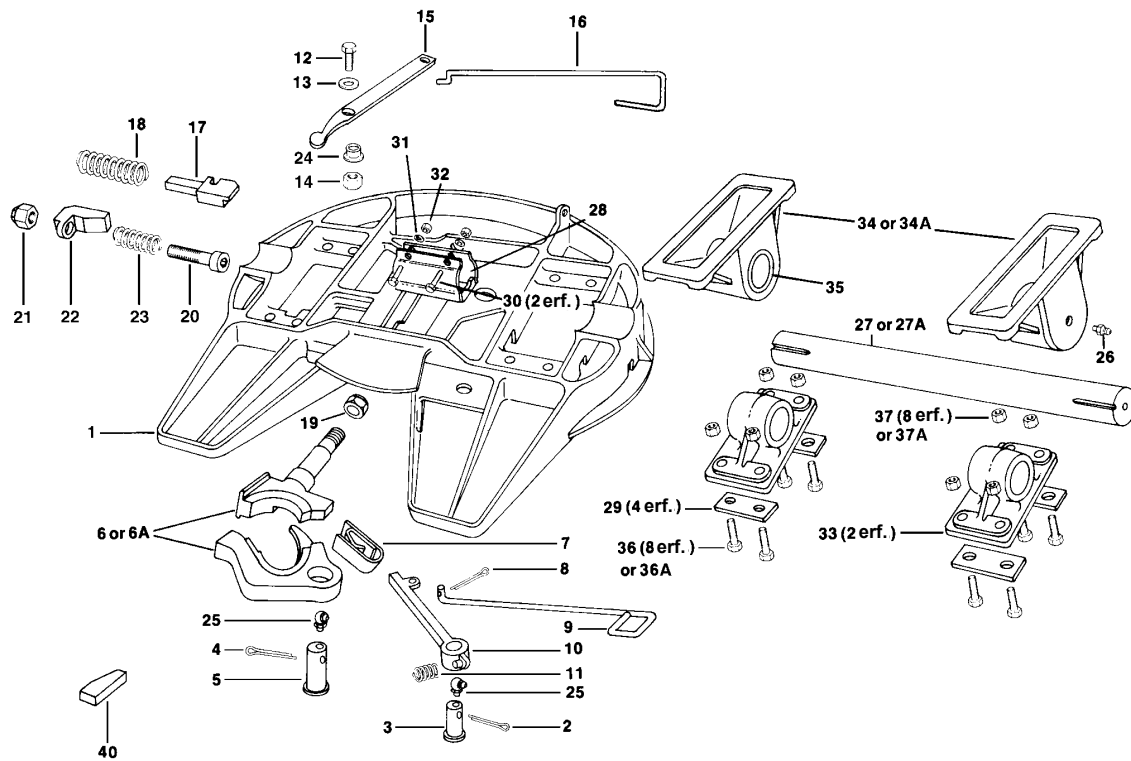
Technical data

Type	Lock size	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	inch	mm	t	kN	kg	degree (w1/w2)	
FW0100-03	3½"	top plate only	45	240	159	0	FW0100-03
FW0100-02	2"	top plate only	45	164	159	0	FW0100-02
FW0100-O	3½"	270	45	240	272	0	FW0100-O
FW0100-OC	3½"	230	45	240	268	0	FW0100-OC
FW0100-D	2"	270	45	165	272		FW0100-D
FW0100-DC	2"	230	45	165	268		FW0100-DC

Dimensions



Spare parts FW0100



Item	Component (price per piece)	Pcs.	Order no.
	Lock repair kit (2")		RK-65024
	Lock repair kit (3½")		RK-65024-1
	Full overhaul kit (2")		RK-65012
	Full overhaul kit (3½")		RK-65013
1	Fifth wheel top plate - 2" king pin	1	XA-101-D
1A	Fifth wheel top plate - 3½" king pin	1	XA-101-O
2	Cotter pin 1/4" x 2"	1	XB-5
3	Lock pin	1	XA-1016-C-KTL
4	Cotter pin 1/4" x 2.5"	1	XB-T-60
5	Lock pin	2	XA-FW-108-D-1
6	Lock set for 2" king pin	1	XA-FW-104-D
6A	Lock set for 3½" king pin	1	XA-FW-104-03
7	Spring	1	CA-FW-128
8	Cotter pin 1/8" x 1"	1	XB-16
9	Secondary lock release handle	1	XA-FW-138
10	Secondary lock arm	1	XA-FW-137-2
11	Spring	1	XB-1028-2
12	Hex head cap screw 1/2" - 20 x 1.75"	1	XB-2083
13	Plain washer	1	XB-T-49
14	Hex lock nit 1/2" - 20	1	XB-T-69-A
15	Release lever	1	XA-1005-FDS
16	Release handle	1	XA-1117-13
17	Plunger	1	XA-1104
18	Compression spring (red)	2	XB-1007
19	Jam nut 1" - 14	1	XB-04473
20	Socket head cap screw	1	XB-2001

Item	Component (price per piece)	Pcs.	Order no.
21	Lock nut 5/8" - 11	1	XB-HNH-58-C
22	Adjustment wedge	1	XB-3123-1
23	Compression spring	1	XB-403
24	Bushing	1	XB-02949
25	Lube fitting (45°)	2	XB-0767-C
26	Lube fitting	2	XB-H-38
27	Trunnion shaft	1	XA-FW-106
28	Trunnion shaft clamp	2	XA-FW-113-D
29	Shims	4	XB-03371
30	Hex bolt 3/4" - 16x3"	2	XB-772
31	Washer	2	XB-PW-1316-112
32	Nut 3/4" - 16	2	XB-769
33	Trunnion shaft bracket	2	XA-FW-103
34	Mounting bracket - 10.5" height	2	XA-FW-102
34A	Mounting bracket - 9" height	2	XA-FW-102-C
35	Bushing	2	XA-FW-107
36	Bolt 7/8" - 14x4" (after 8/97 check hole size)	8	XB-08914
37	Lock nut 7/8" - 14 (after 8/97 check hole size)	8	XB-T-307
36A	Hex head cap bolt 1" - 8 x 4" (piror 8/97)	8	XB-FW-109
37A	Locknut 1" - 8 (piror 8/97)	8	XB-C-41
40	Adjusting block	1	XA-05768

FW0165

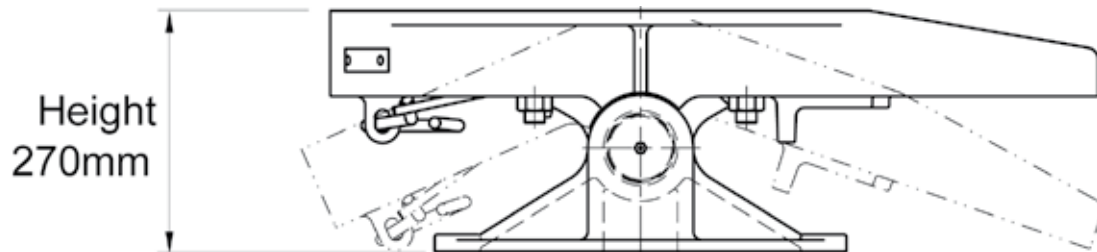
The severe duty fifth wheel with max. 74t vertical load.

- 2" or 3½" extra heavy duty fifth wheel manufactured from high strength cast steel, designed for the most demanding applications.
- The high strength lock system is manufactured from high quality forged and heat-treated components.
- Extremely high vertical load capability.
- Minimum operating temperature -40° C.

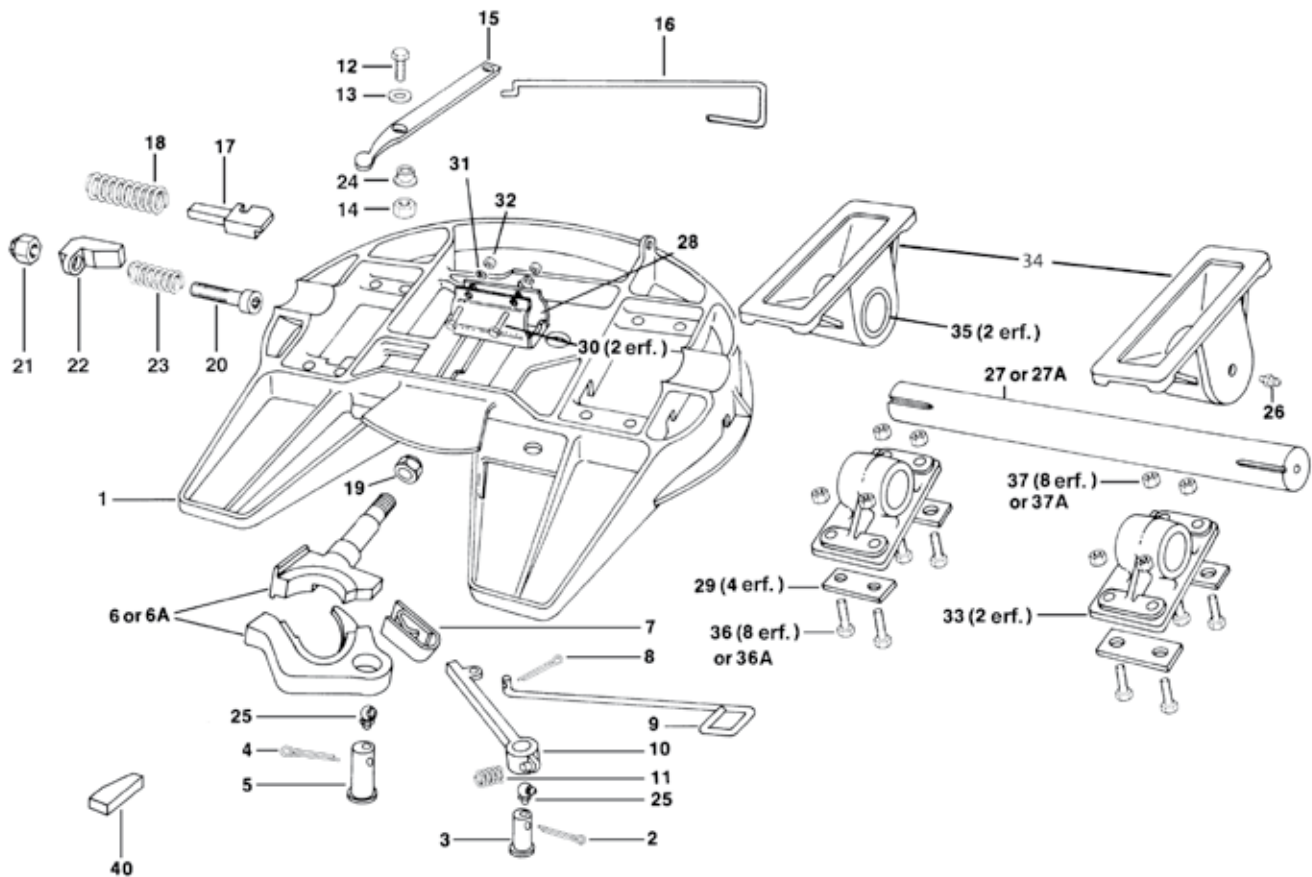
Technical data

Type	Lock size		Overall height		Imposed load		D-value	Weight	Angle of inclination		Order no.
	inch	mm	t	kN	kg	degree (w1/w2)					
FW0165-0091	3½"	270	74	240	302	0				FW0165-0091	
FW0165-0091-1	2"	270	74	165	295	0				FW0165-0091-1	

Dimensions



Spare parts FW0165



Item	Component (price per piece)	Pcs.	Order no.
	Lock repair kit (2")		RK-65024
	Lock repair kit (3½")		RK-65024-1
	Full overhaul kit (2")		RK-65012
	Full overhaul kit (3½")		RK-65013
1	Fifth wheel top plate - 2" king pin	1	XA-115-1
1A	Fifth wheel top plate - 3½" king pin	1	XA-115
2	Cotter pin 1/4" x 2"	1	XB-5
3	Lock pin	1	XA-1016-C
4	Cotter pin 1/4" x 2.5"	1	XB-T-60
5	Lock pin	2	XA-FW-108-D-1
6	Lock set for 2" king pin	1	XA-FW-104-D
6A	Lock set for 3½" king pin	1	XA-FW-104-03
7	Spring	1	CA-FW-128
8	Cotter pin 1/8" x 1"	1	XB-16
9	Secondary lock release handle	1	XA-FW-138
10	Secondary lock arm	1	XA-FW-137-2
11	Spring	1	XB-1028-2
12	Hex head cap srew 1/2" - 20 x 1.75"	1	XB-2083
13	Plain washer	1	XB-T-49
14	Hex lock nit 1/2" - 20	1	XB-T-69-A
15	Release lever	1	XA-1005-FDS
16	Release handle	1	XA-1117-13
17	Plunger	1	XA-1104
18	Compression spring (red)	2	XB-1007

Item	Component (price per piece)	Pcs.	Order no.
19	Jam nut 1" - 14	1	XB-04473
20	Socket head cap screw	1	XB-2001
21	Lock nut 5/8" - 11	1	XB-HNH-58-C
22	Adjustment wedge	1	XB-3123-1
23	Compression spring	1	XB-403
24	Bushing	1	XB-02949
25	Lube fitting (45°)	2	XB-0767-C
26	Lube fitting	2	XB-H-38
27	Trunnion shaft	1	XA-FW-106
28	Trunnion shaft clamp	2	XA-FW-113-D
29	Shims	4	XB-03371
30	Hex bolt 3/4" - 16x3"	2	XB-772
31	Washer	2	XB-PW-1316-112
32	Nut 3/4" - 16	2	XB-769
33	Trunnion shaft bracket	2	XA-FW-103
34	Mounting bracket -270mm	2	XA-FW-102
35	Bushing	2	XA-FW-107
36	Bolt 7/8" - 14x4" (after 8/97 check hole size)	8	XB-08914
37	Lock nut 7/8" - 14 (after 8/97 check hole size)	8	XB-T-307
36A	Hex head cap bolt 1" -8 x 4" (piror 8/97)	8	XB-FW-109
37A	Locknut 1" - 8 (piror 8/97)	8	XB-C-41
40	Adjusting block	1	XA-05768

Notice

**HEAVY DUTY
FIFTH WHEEL**

TERMINAL TRACTOR

FW3510-TR

The fifth wheel for terminal tractors

- High strength cast steel construction - permitted operating temperature to - 40° C.
- Top surface machined to improve wear, steering and fit with trailer plate. Patented grease groove pattern for improved wear and durability and prepared for central lubrication system.
- Air operated lock release mechanism.
- Locks require only 140 kg to couple
- Available with brackets for electronic sensors to indicate locks closed.



Technical data

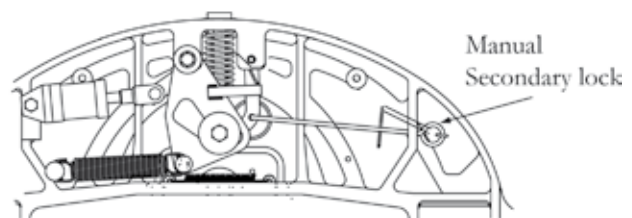
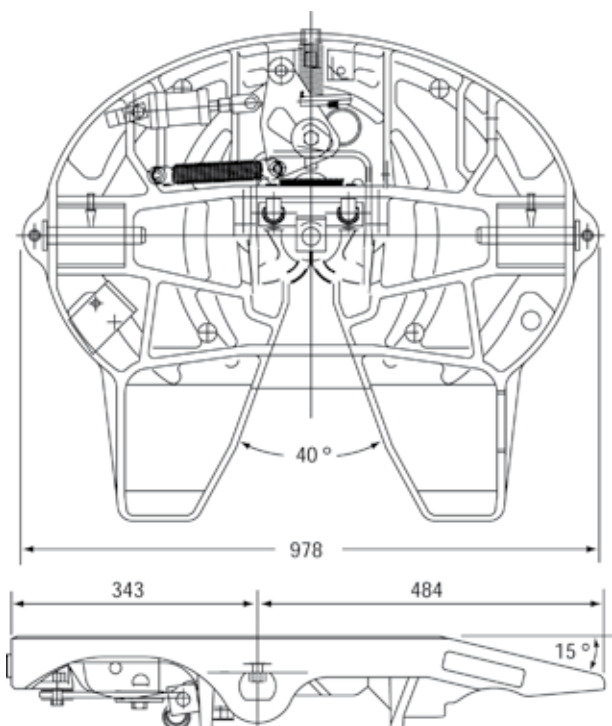
Type	Imposed load	Weight	Order no.
	t	kg	
FW3510-TR	36	120	FW3510-TR

- Specification standard version
- The load limits given are valid for operation with speed limited to 35km/h maximum and for use on well maintained roadways and yards within distribution depots and dockyard areas.

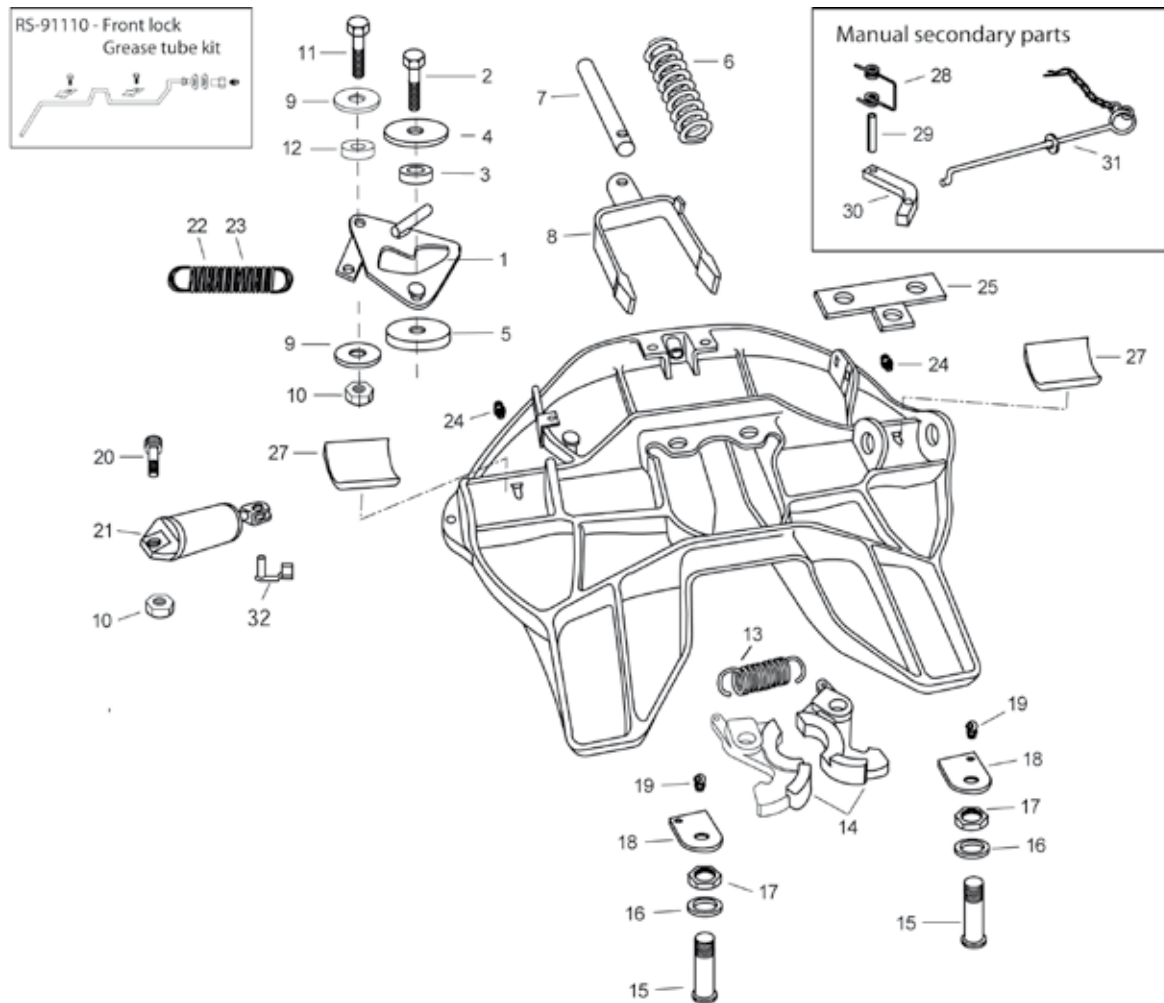
Type	Imposed load	D-value	Weight	Order no.
	t	kN	kg	
FW3510-TR-EG	20	150	121	FW3510-TR-EG

- Specification with optional manual secondary lock
- EC approved 94/20/EG
- Type approval no.: e1*94/20*0812

Dimensions



Spare parts FW3510-TR



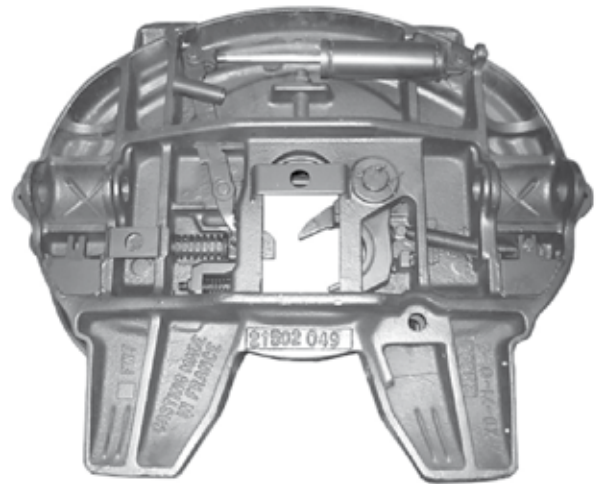
Item	Component (price per piece)	Order no.
	Full overhaul kit, does not include items 26-31	RK-3510-TR
	Overhaul kit (Pos. 1-25, does not include items 10, 20, 21)	RK-3510-TR-2
	Lock repair kit (Pos. 14-17 and 19)	RS-91103
	Front lock grease tube kit	RS-91110
1	Camplate	XA-10099
2	Bolte	XB-10035
3	Roller	XA-1507-1
4	Washer	XB-07431-KTL
5	Camplate spacer	XA-09040-KTL
6	Yoke spring	XB-1505-KTL
7	Yoke shaft	XA-1706-1
8	Yoke	XA10094
9	Washer	XB-76004
10	Locknut (alt. part 32001)	XB-HLN-M12-Z
11	Bolt	31039
12	Roller	XA-1029
13	Spring	XB-07628-KTL
14	Lock set	XA-07296-KTL
15	Lock pin	XA-E-60043
16	Washer	33027
17	Hex nut	32027
18	Cable tab (brass)	XA-10096
19	45° lube fitting	38026
20	Bolt	31036
21	Air cylinder assembly	XA-3542-R-T

Item	Component (price per piece)	Order no.
22	Extension spring (inner)	XB-10087-KTL
23	Extension spring (outer)	XB-10088-KTL
24	Lube fitting	38009
25	Never-seez lube (not shown)	XB-02967
26	Sensor bracket	XA-76020-KTL
27	Pocket insert	XB-10210
28	Spring	XB-2149-KTL
29	Roll pin	XB-21-S-500-2750
30	Secondary lock bar	XA-3528-KTL
31	Handle-Secondary lock	XA-3546
32	Air cylinder clevis	XB-76022

FW0E70-T

The heavy duty fifth wheel for terminal tractors 12t gross combination weight (3½") and 45t vertical load.

- High strength cast steel construction - permitted operating temperature to -40° C.
- Top surface machined to improve wear, steering and fit with trailer plate. Patented grease groove pattern for improved wear and durability.
- Air operated lock release mechanism.
- Can be upgraded for operation at gross combination weight above 12000 kg subject to operating conditions and further limitations - contact SAF-HOLLAND with your requirements.

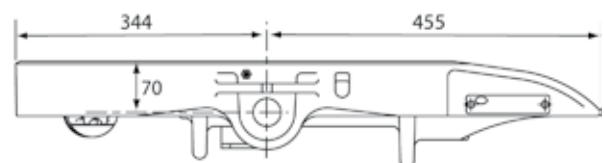
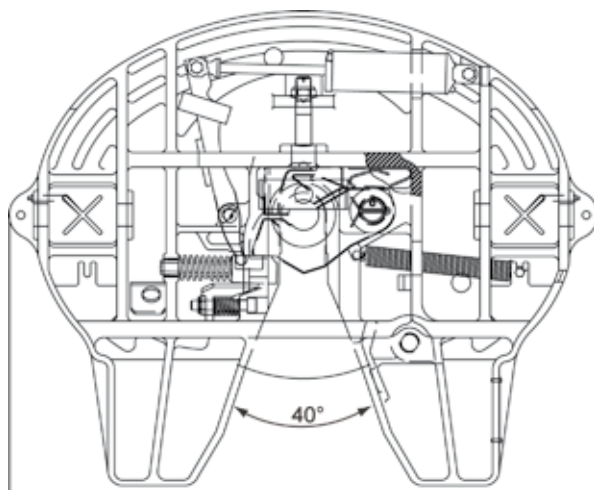


Technical data

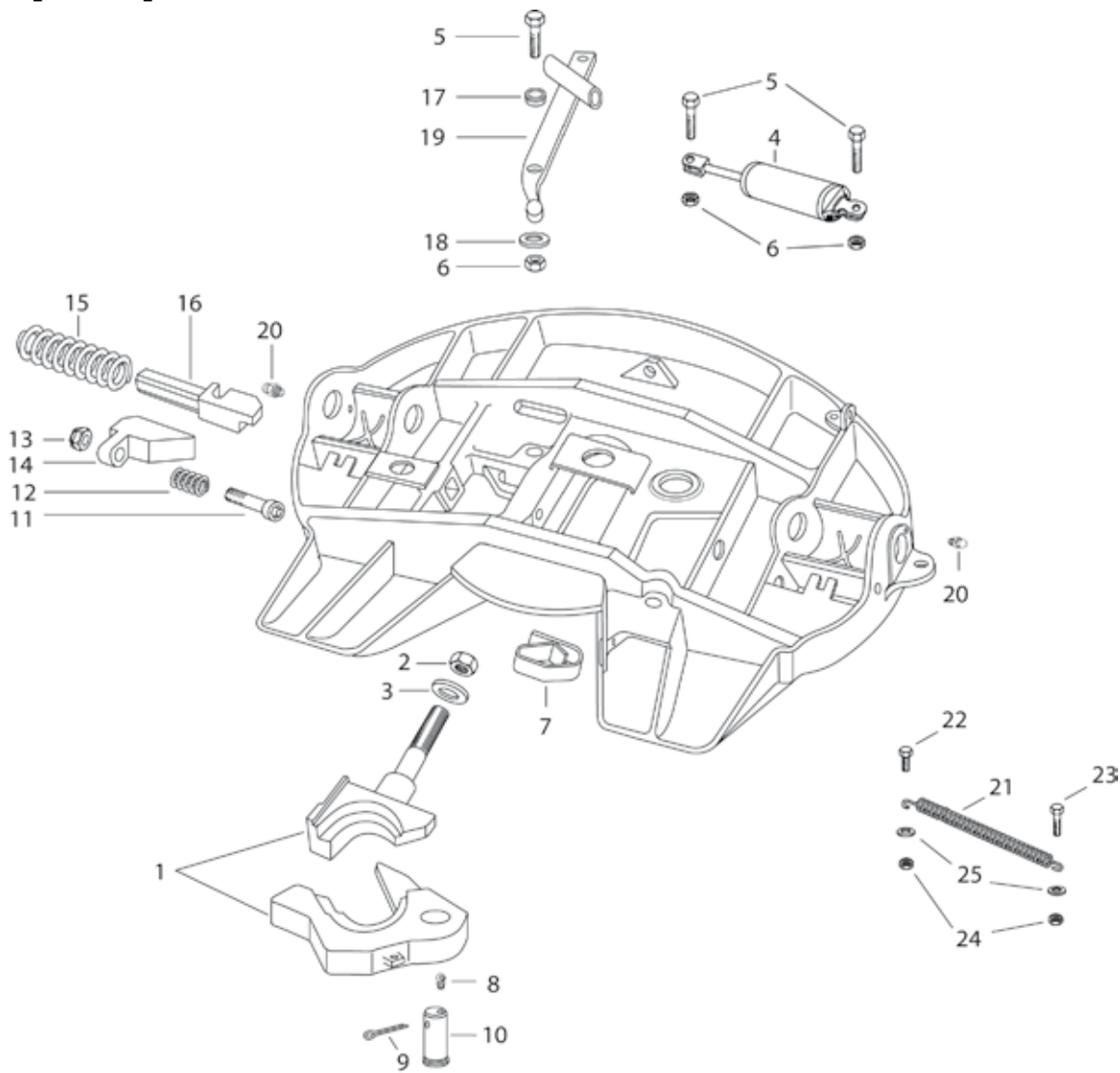
Type	Lock size	Imposed load	Weight	Order no.
	inch	t	kg	
FW0E70-03-T*	3½"	45	148	FW0E70-03-T
FW0E70-02-T	2"	45	148	FW0E70-02-T

- The load limits given are valid for operation with speed limited to 35 km/h maximum and for use on well maintained roadways and yards within distribution depots and dockyard areas.
- FW0E70-03-T = Standard version for 3½" kingpin
- FW0E70-02-T = Version for 2" kingpin available, please contact SAF-HOLLAND for details.

Dimensions



Spare parts FW0E70-T



Item	Component (price per piece)	Pcs.	Order no.
1	Lock set - 3 1/2"	1	XA-FW-104-03-T-KTL
	Lock set - 2"	1	XA-FW-104-D-T-KTL
2	Lock nut	1	XB-04473
3	Washer	1	XB-10327
4	Air cylinder	1	XA-2524-R-2
5	Bolt	3	XB-2083
6	Lock nut	3	XB-T-69-A
7	Spring	1	XA-FW-128
8	Lube fitting - 90°	1	XB-0769
9	Cotter pin	1	XB-T-60
10	Lock pin	1	XA-FW-108-D
11	Socket head cap screw	1	XB-09407
12	Spring	1	XB-403-KTL
13	Lock nut	1	XB-HNH-58-C
14	Adjusting wedge	1	XD-3123-1-KTL
15	Spring	1	XB-1007
16	Plunger	1	XA-1104-1
17	Bushing	1	XB-02949
18	Washer	1	XB-T-49
19	Lever	1	XA-60020-KTL
20	Lube fitting	2	XB-H-38
21	Spring	1	XA-60021-KTL

Item	Component (price per piece)	Pcs.	Order no.
22	Bolt M10x25	1	31008
23	Bolt M10x50	1	31032
24	Lock nut	2	32008
25	Washer	2	33023

Notice

**SPECIALISED
FIFTH WHEEL**

KOMPENSATOR

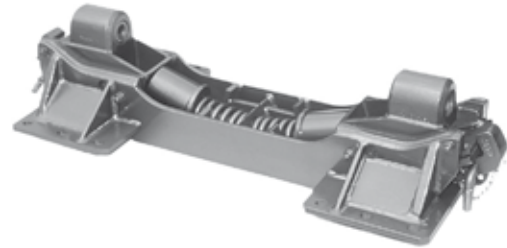
UP TO 34T

IMPOSED LOAD

FW3540+FW3140

The 2" Kompensator® fifth wheel for maximum 20t vertical load

- Patented construction for applications where torsional relief between tractor / trailer is desired, e.g. tank trailers.
- Considerable stress reduction in the trailer plate, cargo tank and in the tractor frame.
- Incorporates the rugged cast steel top plate from the high strength FW3540/FW3140 fifth wheel for long life and durability.
- The FW3540/FW3140 fifth wheel improves stability, axle-weight distribution and tyre life.
- This fifth wheel is recommended for use where trailer centre of gravity is at or below a maximum of 1m above the fifth wheel top surface.
- With a D-Value of 135kN suitable for all types of rear axle steering.
- Manufactured in accordance with DIN 74081 and ISO 3842 standards.

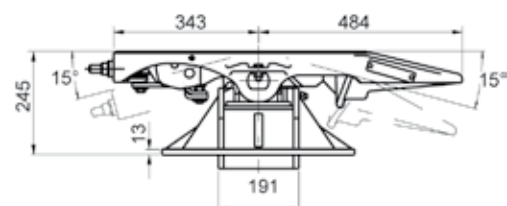
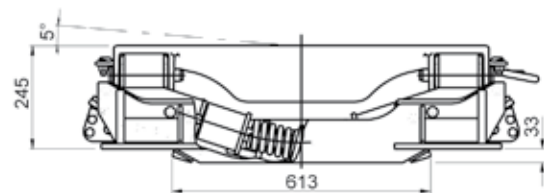
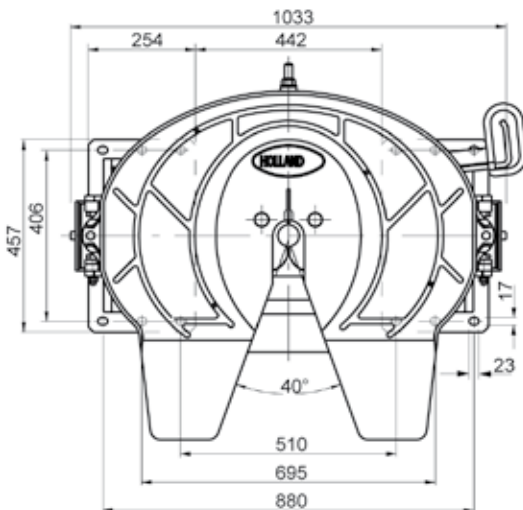


Technical data

Type	Lock size	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	inch	mm	t	kN	kg	degree (w1/w2)	
FW3540-B	0	245	20	150	210	0	FW3540-B
FW3540-B (with rear axle steering)		245	20	135	210		FW3540-B
FW3140-B		245	20	150	210		FW3140-B
FW3140-B (with rear axle steering)		245	20	135	210		FW3140-B

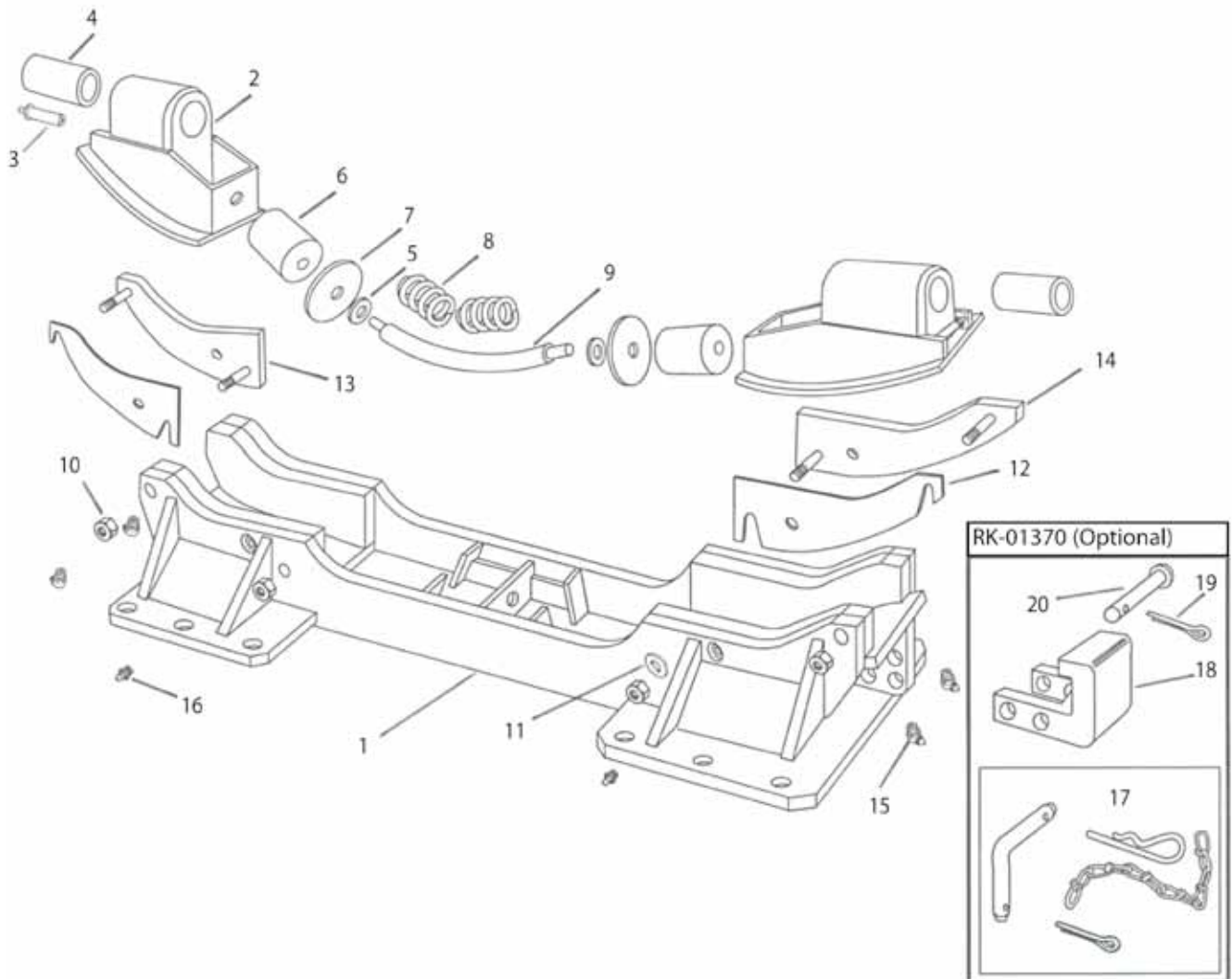
- The load limits given are valid for operation on paved roads and under conditions prevailing in Europe.
- For alternative conditions please consult SAF-HOLLAND.
- Type approval no.: e1*94/20*0200

Dimensions



Spare parts FW3540+FW3140

For spare parts for top plate see fifthwheel FW3510 or FW3110



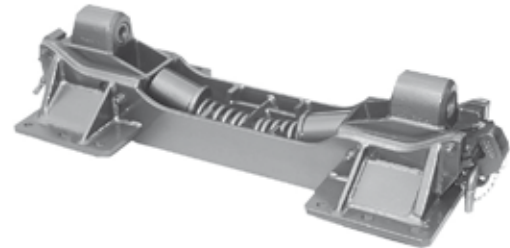
Item	Component (price per piece)	Pcs.	Order no.
	Kompensator® frame cpl. (item 4 not included)	1	XA-40-7743-1
	Lockout kit (Pos. 17, 18, 19, 20)	1	RK-01370
1	Kompensator® frame cpl.	1	XA-45-7743-1
2	Shoe Subassembly - incl. part no. 3	2	XA-0024
3	Grease fitting	2	XB-H-38-F
4	Rubber cushion	2	XB-0011
5	Washer	2	XB-PW-1316-112
6	Cushion	2	XB-0009
7	Washer	2	XA-1284-2
8	Compression spring	2	XB-01923
9	Tie bar	1	XA-39
10	Hex lock nut 1/2" -13	4	XB-C-59
11	Lock washer 1/2"	4	XB-T-45-1
12	Shim (as required)	2	XA-0014
13	Bearing plate - RH	1	XA-01998
14	Bearing plate - LH	1	XA-01997
15	45° Grease fitting	4	XB-H-38-C
16	Grease fitting	4	XB-H-38
17	"L" Pin subassembly	2	XA-01429
18	Lockut stop	2	XA-01427
19	Cotter pin 19"x1,25"	2	XB-382

Item	Component (price per piece)	Pcs.	Order no.
20	Shackle pin	2	XB-847
21	Dust cover - LH	1	XA-0128-L
22	Dust cover - RH	1	XA-0128-R

FW7E40

The heavy duty Kompensator® fifth wheel with 34t maximum vertical load.

- Patented construction for applications where torsional relief between tractor / trailer is desired, e.g. tank trailers.
- Considerable stress reduction in the trailer plate, cargo tank and in the tractor frame.
- Incorporates the rugged cast steel top plate from the FW0E70 fifth wheel for long life and high strength capabilities.
- The FW0E70 fifth wheel improves stability, axle-weight distribution and tyre life.
- This fifth wheel is recommended for use where trailer centre of gravity is at or below a maximum of 1 m above the fifth wheel top surface.
- Lock system manufactured from high quality forged and heat-treated components for strength and durability
- Manufactured in accordance with DIN 74081 and ISO 3842 standards.

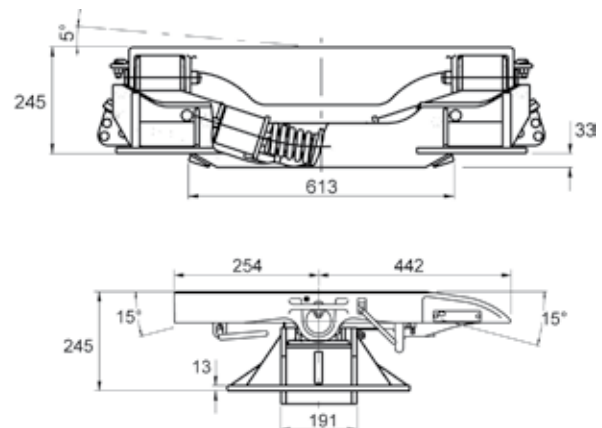
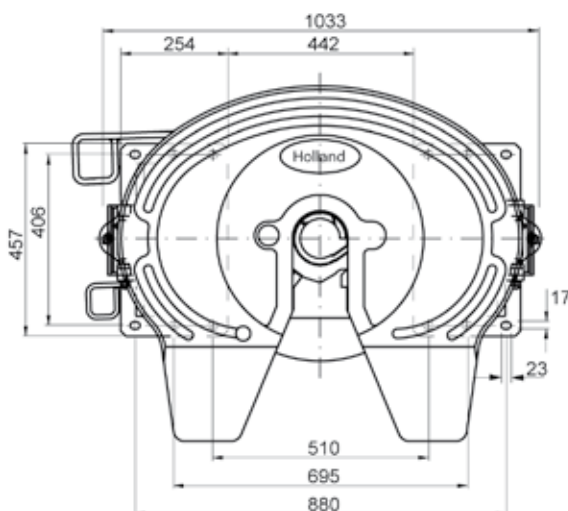


Technical data

Type	Lock size	Overall height	Imposed load	D-value	Weight	Angle of inclination	Order no.
	inch	mm	t	kN	kg	degree (w1/w2)	
FW7E40-A-2 (85km/h)	2"	245	34	165	240	0	FW7E40-A-2
FW7E40-A (85 km/h)	3½"	245	34	200	240		FW7E40-A
FW7E40-A (70 km/h)	3½"	245	34	240	240		FW7E40-A
FW7E40-A (60 km/h)	3½"	245	34	240	240		FW7E40-A
FW7E40-A (45 km/h)	3½"	245	34	240	240		FW7E40-A

- Gross combination weight and D-Value limited according to maximum operating speed - see table below for details.

Dimensions

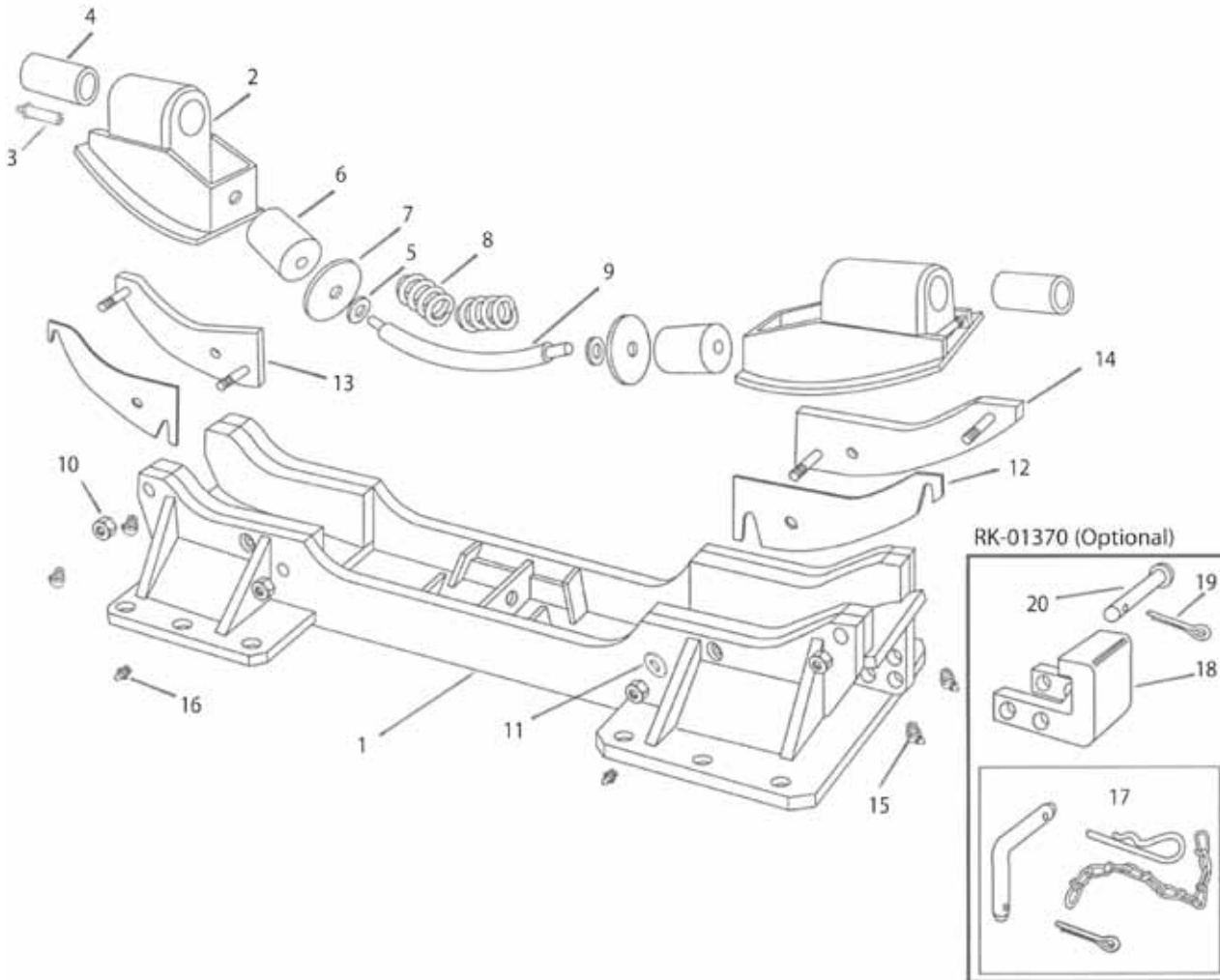


Mounting hole pattern according to DIN 74081
Subject to modifications in dimensions and design

Spare parts FW7E40

Mounting hole pattern according to DIN 74081

Subject to modifications in dimensions and design



Item	Component (price per piece)	Pcs.	Order no.
	Kompensator® frame cpl. (item 4 not included)	1	XA-40-7743-1
	Lockout kit (Pos. 17, 18, 19, 20)	1	RK-01370
1	Kompensator® frame cpl.	1	XA-45-7743-1
2	Shoe subassembly - incl. part no. 3	2	XA-0024
3	Grease fitting	2	XB-H-38-F
4	Rubber cushion	2	XB-0011
5	Washer	2	XB-PW-1316-112
6	Cushion	2	XB-0009
7	Washer	2	XA-1284-2
8	Compression spring	2	XB-01923
9	Tie bar	1	XA-39
10	Hex lock nut 1/2" -13	4	XB-C-59
11	Lock washer 1/2"	4	XB-T-45-1
12	Shim (as required)	2	XA-0014
13	Bearing plate - RH	1	XA-01998
14	Bearing plate - LH	1	XA-01997
15	45° Grease fitting	4	XB-H-38-C
16	Grease fitting	4	XB-H-38
17	"L" Pin subassembly	2	XA-01429
18	Lockut stop	2	XA-01427

Item	Component (price per piece)	Pcs.	Order no.
19	Cotter pin 19"x1,25"	2	XB-382
20	Shackle pin	2	XB-847
21	Dust cover - LH	1	XA-0128-L

Notice

SLIDERS

TO PERMISSIBLE
AXLE LOADS AND
VEHICLE LENGTHS



Slider SK-V 20

Sliders allow optimal utilisation of permissible axle loads and vehicle lengths.

They enable the coupling point of tractors to be changed quickly and easily. The fifth wheel can be secured in 14 different longitudinal positions, allowing the coupling of semi-trailers with different kingpin positions.

The slotted base rails with teeth and slotted rails are mounted directly to the supporting frame of the tractor. The carriage with the locking mechanism is designed for mounting fifth wheels with an overall height of 150-250 mm.



Technical data

- Direct mounting on vehicle frame
- Imposed load: 18 t
- D-value: 135 kN
- High rigidity - lightweight
- Overall height of only 35 mm
- 14 selectable coupling points, total slider travel of 525 mm
- Available in 2 different widths
- Single handed operation, optional pneumatic version available
- KTL anti-corrosion coating
- Approved for forced steering
- Mounting hole pattern according to DIN 74081, 74084 und ISO 3842

Ordering instructions

- Standard versions without predrilled mounting holes
- Models available drilled to specific vehicle type on request
- With conversion kit the operating handle height can be changed from 180mm to 90mm and vice versa.
- Fifth wheels with overall heights of 150mm and 185mm are only possible with an operating handle height of 90mm.
- Further types and mounting possibilities on request

Sliders SK-V 20 standard (without predrilled mounting holes)

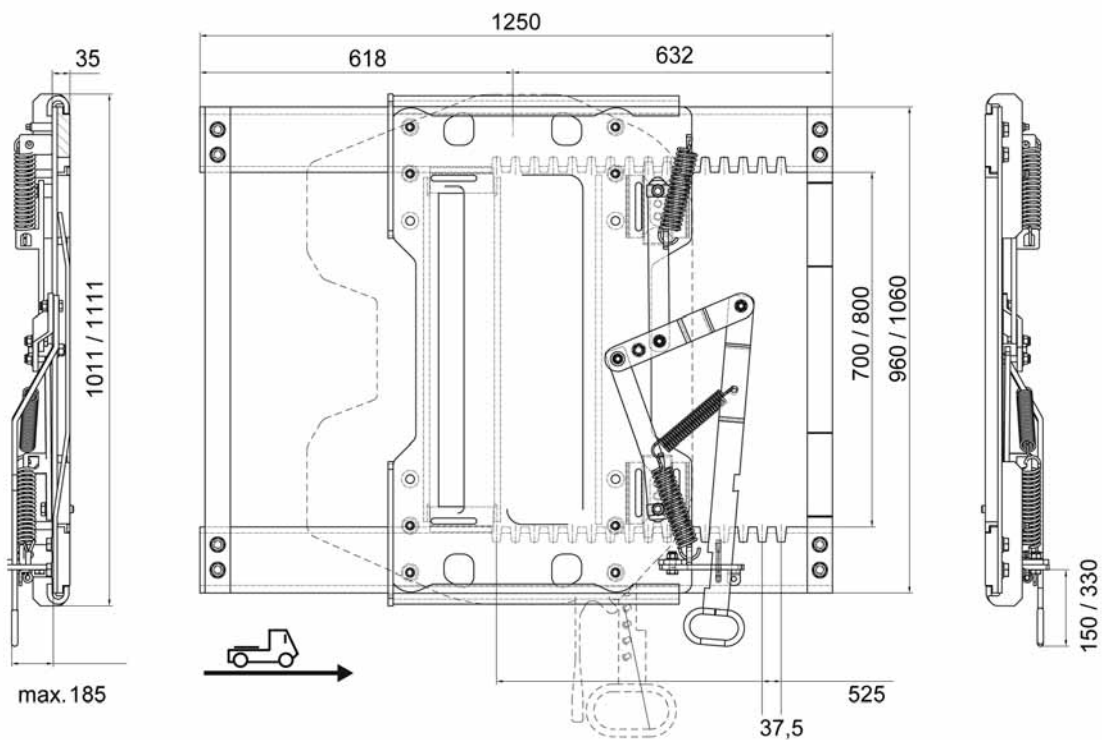
Type	Model	Axle configuration	Weight	Mounting width	Dimensions length x width	Handle height	Order no.
			kg	mm	mm	mm	
SK-V 20	Standard (not pre-drilled)	4x2	110	780-900	1250 x 960	90	662 204 500
SK-V 20	Standard (not pre-drilled)	4x2	110	780-900	1250 x 960	180	662 204 524

Slider SK-V 20 (with predrilled OEM hole patterns)

Type	Model	Axle configuration	Weight	Mounting width	Dimensions length x width	Handle height	Order no.
			kg	mm	mm	mm	
SK-V 20	Iveco	4x2 / 6x2	110	780-900	1250 x 960	180	662 204 502
SK-V 20	Mercedes-Benz	4x2 / 6x2	110	780-900	1250 x 960	180	662 204 504
SK-V 20	Scania / DAF	4x2	110	780-900	1250 x 960	180	662 204 508
SK-V 20	Scania	6x2	110	780-900	1250 x 960	90	662 204 515
SK-V 20	MAN	4x2	110	780-900	1250 x 960	180	662 204 510
SK-V 20	MAN	6x2	110	780-900	1250 x 960	180	662 204 518
SK-V 20	Volvo	4x2 / 6x2	129	930	1250 x 1060	90	662 204 519
SK-V 20	Volvo* / Renault	4x2 / 6x2	129	930	1250 x 1060	180	662 204 522

* Suitable only for Volvo vehicles with flat mounting angles

Dimensions



Fitting instructions

SAF-HOLLAND sliders are type approved to 94/20/EG. Modifications on the slider exclude warranty claims, the liability for defects and cause also the expiration of the type approval.

We recommend you to verify the appropriate installation of the slider SK-V 20 by an authorised expert.

Please take note of the following points when installing sliders:

The slider may only be mounted on the vehicle by qualified personnel in suitable workshops.

The base rail must be rigidly attached to the frame of the tractor according to the vehicle manufacturer's instructions and taking into account the forces occurring during operation.

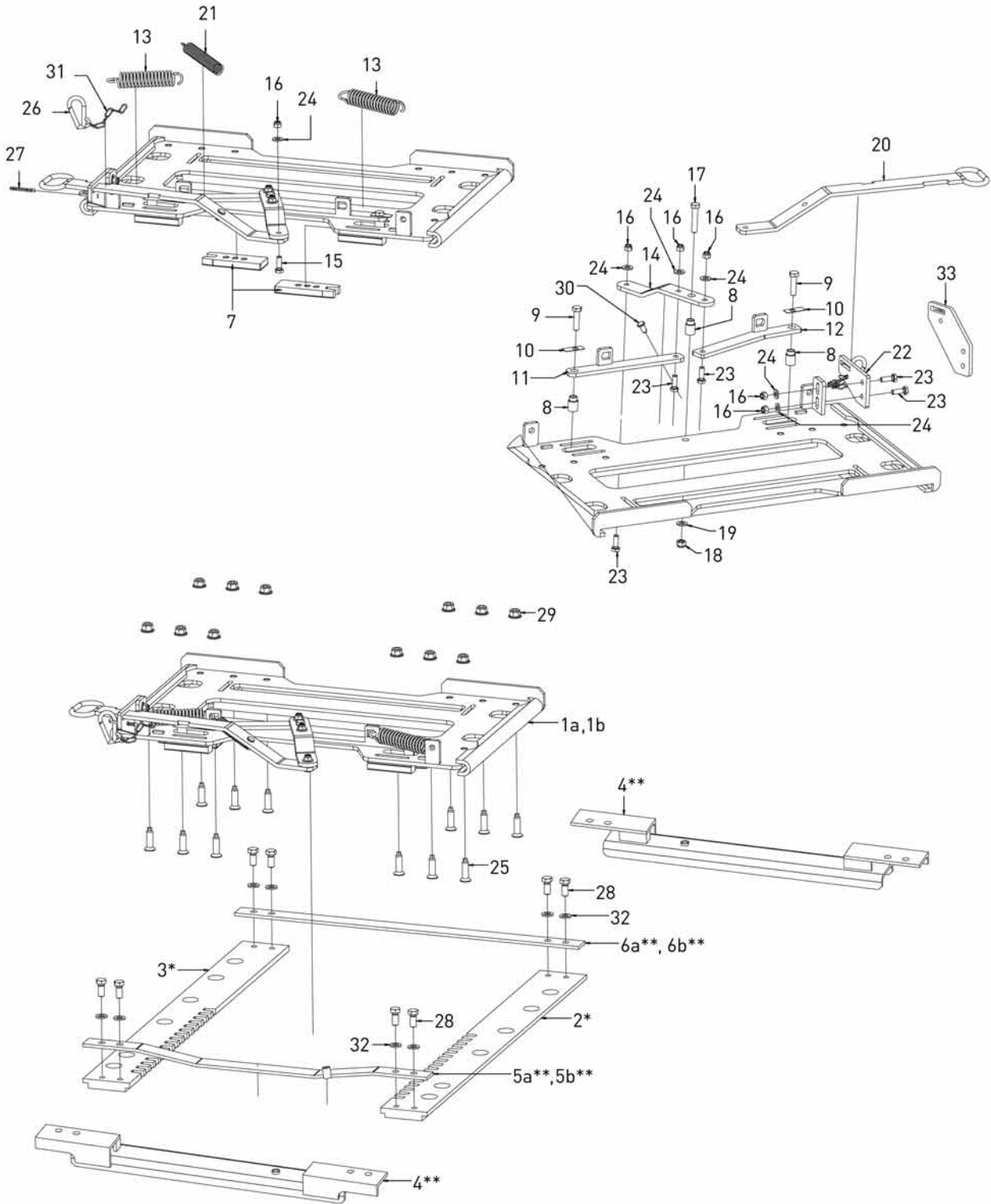
The quantity and grade of the fasteners must adhere to the slider model and vehicle manufacturers look up table below. Incomplete attachment of the slider to the frame (e.g. leaving a fastener out) is not allowed. Rivets of equivalent size and quality can also be used for fastening.

The fastening elements must not obstruct the freedom of movement of the carriage.

Mounting kits for slider SK-V 20

Type	Mounting	Model	Order no.
Mounting kit 725	Mercedes-Benz (Actros)	12 x M20	662 101 725
Mounting kit 726	Iveco (Stralis), MAN (TGA)	12 x M16	662 101 726
Mounting kit 728	Volvo (FH12)	16 x M14	662 101 728
Mounting kit 729	Scania (CA, LA, DA) / DAF	12 x M18	662 101 729
Mounting kit 731	Renault	12 x M16	662 101 731

Spare parts SK-V 20



Item	Component (price per piece)	Model	Pcs.	Order no.
	Repair kit for locking system (7,8,9,10)		1	662 101 736
1a	Carriage complete (mounting width 780 - 900)		1	662 132 100
1b	Carriage complete (mounting width 900 +)		1	662 132 102
2*	Slotted base rail left (without predrilled holes)		1	662 205 014
2*	Slotted base rail left	Iveco	1	662 205 016
2*	Slotted base rail left	Daimler Chrysler	1	662 205 018
2*	Slotted base rail left	Scania / DAF	1	662 205 022
2*	Slotted base rail left	MAN	1	662 205 024
2*	Slotted base rail left	Volvo (Standard)	1	662 205 030
2*	Slotted base rail left	Volvo (light), RVI	1	662 205 033
2*	Slotted base rail left	Australia / NZ	1	662 206 050
3*	Slotted base rail right (without predrilled holes)		1	662 205 015
3*	Slotted base rail right	Iveco	1	662 205 017
3*	Slotted base rail right	Daimler Chrysler	1	662 205 019
3*	Slotted base rail right	Scania / DAF	1	662 205 023
3*	Slotted base rail right	MAN	1	662 205 025
3*	Slotted base rail right	Volvo (Standard)	1	662 205 031
3*	Slotted base rail right	Volvo (light), RVI	1	662 205 034
3*	Slotted base rail right	Australia / NZ	1	662 206 051
4**	Cross bar	Scania 6x2	2	662 205 090
4**	Cross bar	MAN 6x2	2	662 205 091
4**	Cross bar	Volvo	2	662 205 092
5a**	Stop bar front (mounting width 780 - 900)		1	662 205 032
5b**	Stop bar front (mounting width 900 +)		1	662 206 052
6a**	Stop bar back (mounting width 780 - 900)		1	662 205 012
6b**	Stop bar back (mounting width 900 +)		1	662 206 053
7	Locking finger		2	662 205 035
8	Bush		3	662 205 036
9	Hex. bolt		2	659 112 628
10	Locking plate		2	662 205 038
11	Locking lever left		1	662 205 039
12	Locking lever right		1	662 205 040
13	Tension spring		2	662 205 041
14	Pivot arm		1	662 205 042
15	Hex. bolt		1	659 112 632
16	Nut		5	662 132 215
17	Hex. bolt		1	659 112 629
18	Nut		1	659 115 514
19	Washer		1	662 101 472
20	Operating handle		1	662 205 048
21	Tension spring		1	662 205 049
22	Lever support (90mm)		1	662 205 050
23	Hex. bolt		5	659 112 630
24	Washer		5	662 132 204
25	Counter sink screw		12	662 205 054
26	Carabiner hook		1	659 130 026
27	Splint pin		1	662 126 184
28	Hex. bolt		8	659 112 631
29	Nut, special		12	659 115 308
30	Pin		1	650 110 217
31	Chain for carabiner hook		1	659 130 027
32	Washer		8	662 126 159
33	Lever support (180mm)		1	662 205 051

*Items 2 and 3: Slotted base rails in the standard version without holes and only available as set (left and right models)

**Scania 6x2 and MAN 6.2 models: Items 5a and 6a replaced by 2x item 4 cross bar

**Volvo model: Item 5b and 6b replaced by 2x item 4 cross bar

Slider SK-V 20 (pneumatic)

Convenient pneumatic by remote control

The remote control model of the SK-V 20 slider enables the optional coupling point to be adjusted quickly and conveniently. The adjusting mechanism of the slider carriage can be unlocked and moved via a pneumatic cylinder at the touch of a button in the driver's cab.

- Reduced vehicle wear and tear
- Increased safety for the driver
- Convenient and quick adjustment
- Operating switch in driver's cab
- Imposed load: 18 t
- D-value: 135 kN

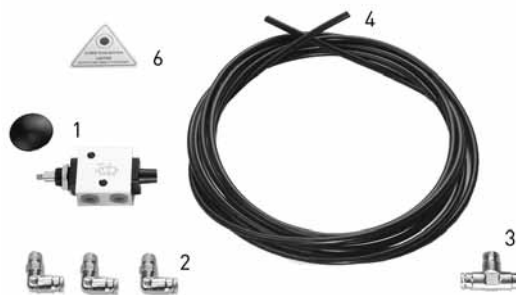
SK-V 20 (pneumatic model)

Type	Model	Axle configuration	Weight	Mounting width	Dimensions length x width	Order no.
			kg	mm	mm	
SK-V 20	Standard (not pre-drilled)	4 x 2	105	780-900	1250 x 960	662 205 500
SK-V 20	Iveco	4 x 2	105	780-900	1250 x 960	662 205 501
SK-V 20	Mercedes-Benz	4 x 2	105	780-900	1250 x 960	662 205 503
SK-V 20	Scania / DAF	4 x 2	105	780-900	1250 x 960	662 205 507
SK-V 20	MAN	4 x 2	105	780-900	1250 x 960	662 205 509
SK-V 20	Renault	4 x 2	105	780-940	1250 x 960	662 205 511
SK-V 20	Scania / DAF	6 x 2	105	780-900	1250 x 960	662 205 515
SK-V 20	MAN	6 x 2	105	780-900	1250 x 960	662 205 517
SK-V 20	Volvo	4 x 2	124	930	1250 x 1060	662 205 519
SK-V 20	Renault / Volvo (Standard)	4 x 2	124	930	1250 x 1060	662 205 520
SK-V 20	AU + NZ	4 x 2	124	930	1250 x 1060	662 206 403

Installation kit for SK-V 20 slider (pneumatic model)

The installation kit contains all components necessary for connecting the pneumatic slider to the pneumatic system of the tractor.

Type	Order no.
SK-V 20 Installation kit (complete)	662 101 802



Item	Type	Note	Pcs.	Order no.
1	3/2-valve with push button		1	659 144 155
2	Connector	1/8" swivel - 6 mm - self sealing thread	3	659 144 158
3	Connector	T-piece - 6 mm	1	659 144 159
4	Pneumatic tube	DIN 74324 - 6x1 - PHLV-10m	1	659 144 162
5	Sticker		1	659 120 421

Pneumatic conversion kit for SK-V 20 slider (pneumatic model)

The manually operated version of the slider SK-V 20 can be retro-fitted with a pneumatic locking mechanism. The slider does not have to be removed from the vehicle's supporting frame for retro-fitting. Retro-fitting should only be carried out by specially trained personnel.

A conversion kit and an installation kit are both required for retro-fitting.

Type	Order no.
SK-V 20 Conversion kit (complete)	662 101 801



Item	Type	Note	Pcs.	Order no.
1	Pneumatic cylinder assembly	EM-SPC/050150 Fa. Norgren	1	662 205 070
2	Connector	1/4" - 6mm - Self sealing thread	1	659 144 156
3	Connector	1/4" swivel - 6mm - self sealing thread	2	659 144 157
4	Locking lever left		1	662 205 063
5	Locking lever right		1	662 205 064
6	Angle		1	662 205 065
7	Spacer		2	662 205 067
8	Hexagon socket screw	ISO 4762 - M14x35 10.9	4	659 112 383
9	Hex. bolt	ISO 4014 - M12x35 - 8.8	1	659 112 630
10	Washer	DIN 125-A13	2	662 132 204
11	Nut	ISO 7040 - 8	1	662 132 215
12	Hex. bolt	DIN 6912 - M8x16 - 8.8	2	659 112 371
13	Washer	DIN 125-A8.4	2	662 132 213
14	Spiral tube	DIN 74324 - 6x1 - PHL (Y)	1	659 144 154
15	Pneumatic adapter (not shown)		1	662 205 037

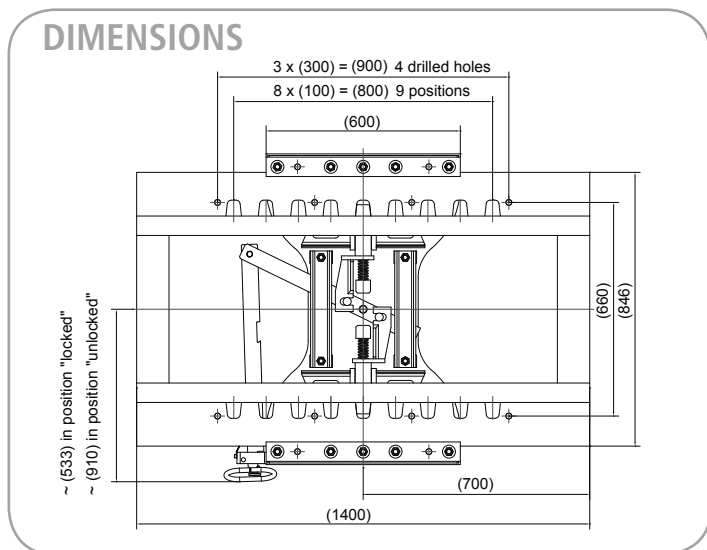
HEAVY DUTY SLIDER SK-V 36

- Sliders allow optimal utilisation of permissible axle loads and vehicle lengths.
- They enable the coupling point of tractors to be changed quickly and easily. The fifth wheel sled can be locked in 9 different positions in order to observe country specific requirements regarding weight and length of the truck-trailer combination.



TECHNICAL DATA

- Imposed load: 36.000 kg
- D-Value: 260 kN
- Weight: 223 kg
- Overall height of only 57 mm
- Frame width 760 - 800 mm
- Dimensions 1400 x 846 mm
- 9 selectable coupling points
- Total slider travel of 800 mm
- Approved for forced steering
- Suitable for fifth wheels with hole pattern according to DIN 74081, DIN 74084 and ISO 3842.
- EU test no.: e 11*94/20*7609
- Suitable for heavy duty fifth wheels up to a mounting height of 190 mm

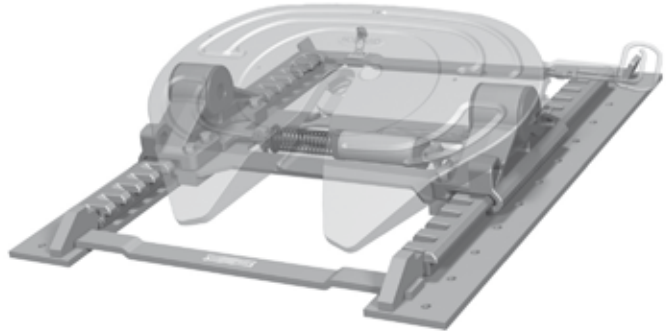


Type	Order number
SK-V 36	662 207 001
Mounting kit fifth wheel SK HD 38.36 on slider SK-V 36	662 101 584

Slider

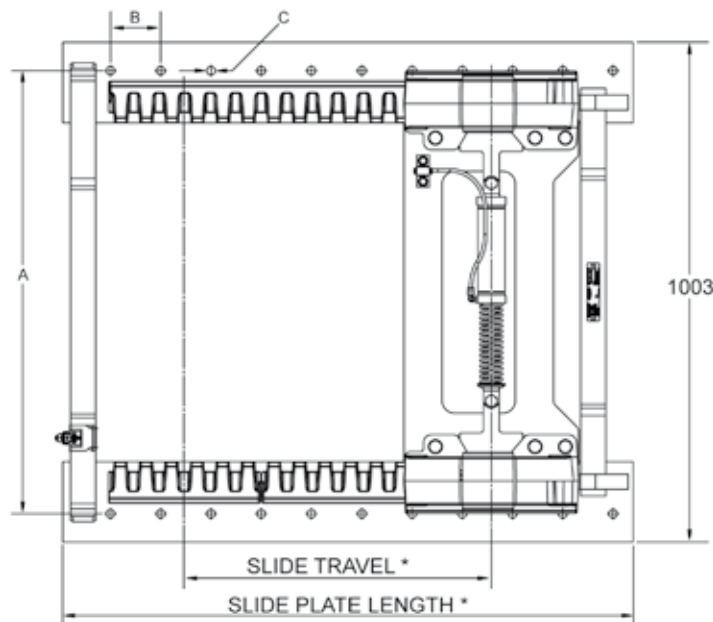
Sliding fifth wheel sub-assembly 20t vertical load and 65t gross combination weight

- Available for all SAF-HOLLAND standard fifth wheel top plates, FW3510 and FW3110.
- Standard travel lengths of 610mm and 1220mm, travel lengths of 915mm and 1525mm available to special order.
- Air release standard on all models.
- Fifth wheel position adjustable in 50.8mm increments.
- Supplied pre-drilled for bolting directly to tractor unit mounting angels.



Dimensions

Drilling information:
 Hole centres "A"
 Hole spacing "B"
 Hole size "C"
 available to suit
 OEM chassis
 mounting angels



* Dimensions see tables on back page for details



Mounting hole pattern according to DIN 74081
 Subject to modifications in dimensions and design

- The load limits given are valid for operation with speed limited to 35 km/h maximum and for use on well maintained roadways and yards within distribution depots and dockyard areas.
- Type approval e1*94*20*0056*00

Part number and spare parts Slider

Part number for complete sliding fifth wheel assemblies

FW 17E - 22U

Note: For all air operated sliding fifth wheel assemblies also order air control kit RK-2500-10A

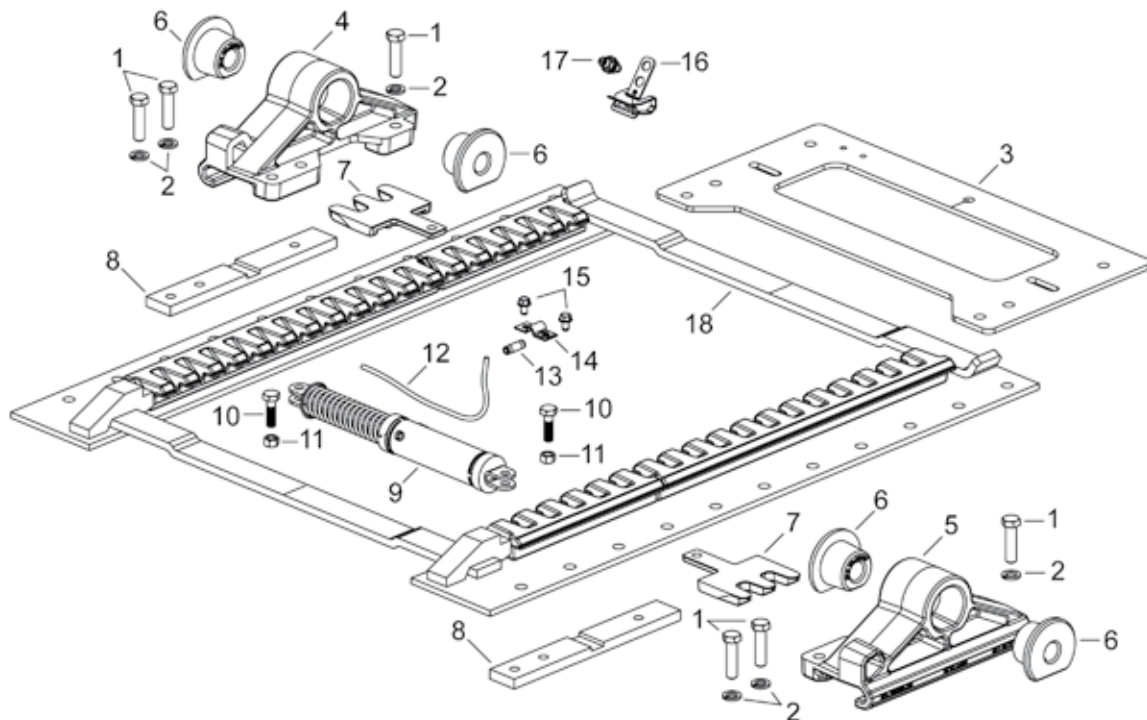
Fifth wheel type	
FW17E	17E
FW17EK	17EK
FW3510	3510
FW3110	3110

Drilling pattern	
U*	Undrilled
	Another letter indicates OEM specific hole pattern - contact SAF-HOLLAND for details

Height Code	Actual height for model type*			
	FW17E	FW17EK	FW3510	FW3110
1	177	185	173	182
2	202	210	198	207
3	228	236	223	233

Length Code	Travel length *	Slide plate Length *
2	610	1135
3	915	1440
4	1220	1745
5	1525	2050

* All dimensions in millimetres



Item	Component (price per piece)	Order no.
1	Bracket bolts M16x60	XB-HCS-M16-60-Z
2	Lock washer	XB-LW-M16-A
3	Slide bracket plate	XD-10606-1
4	Slide bracket LH -low	XD-10689-1L
	Slide bracket LH - medium	XD-10689-2L
	Slide bracket LH - high	XD-10689-3L
5	Slide bracket RH - low	XD-10689-1R
	Slide bracket RH - medium	XD-10689-2R
	Slide bracket RH - high	XD-10689-3R
6	Bracket bushes	XB-10605
7	Locking plunger	XA-10604-1
8	Stop block	XA-10711-1
9	Air cylinder	XA-10700
10	Bolt	XB-2083

Item	Component (price per piece)	Order no.
11	Lock nut	XB-T-69-A
12	Air line tubing	XB-10809
13	Push-in connector	XB-10815
14	Air line clamp	XB-10816
15	Thread cutting screw	XB-10814
16	Air line stand off clip	XA-10736
17	Quick connect union	XB-10748
18	Slide plate - 610mm travel**	XA-E-2
	Slide plate - 915mm travel**	XA-E-3
	Slide plate - 1220mm travel**	XA-E-4
	Slide plate - 1525mm travel**	XA-E-5

** Designation for OEM specific hole spacing

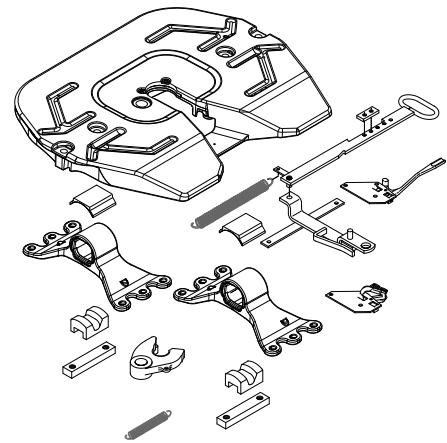
Notice

ORIGINAL PARTS

OEM QUALITY

ACCURATELY FITTING

TOP PRICE-PERFORMANCE-RATIO



ORIGINAL PARTS

No matter if fifth wheel or landing leg: SAF-HOLLAND components are engineered maintenance friendly, produced on state of the art production equipment, and are continuously and seriously inspected at the end of the line. If a replacement part is needed during service or maintenance procedures, we heavily recommend to always use SAF-HOLLAND ORIGINAL PARTS. These parts are produced and tested according to the same high quality standards as the original product and provide the comforting reliability and warranty of SAF-HOLLAND.

Therefore always ask for SAF-HOLLAND ORIGINAL PARTS.

RECOSS® 2-sensor safety system for SK-S 36.20

Following-up model: SK-S 36.20 PLUS S with RECOSS® 3

- Spare parts for the phased-out range RECOSS® 2 sensor safety system will only be available for repair requirements.
- Fifth wheels of the previous model SK-S 36.20 which do not yet have the standard bore hole for the third sensor in the fifth wheel plate can easily be equipped with the RECOSS® 3 sensor safety system.
- Fifth wheels of the SK-S 36.20 PLUS generation are specially prepared for the new RECOSS® 3-sensor safety system. Order numbers can be found in chapter SK-S 36.20 PLUS RECOSS® .

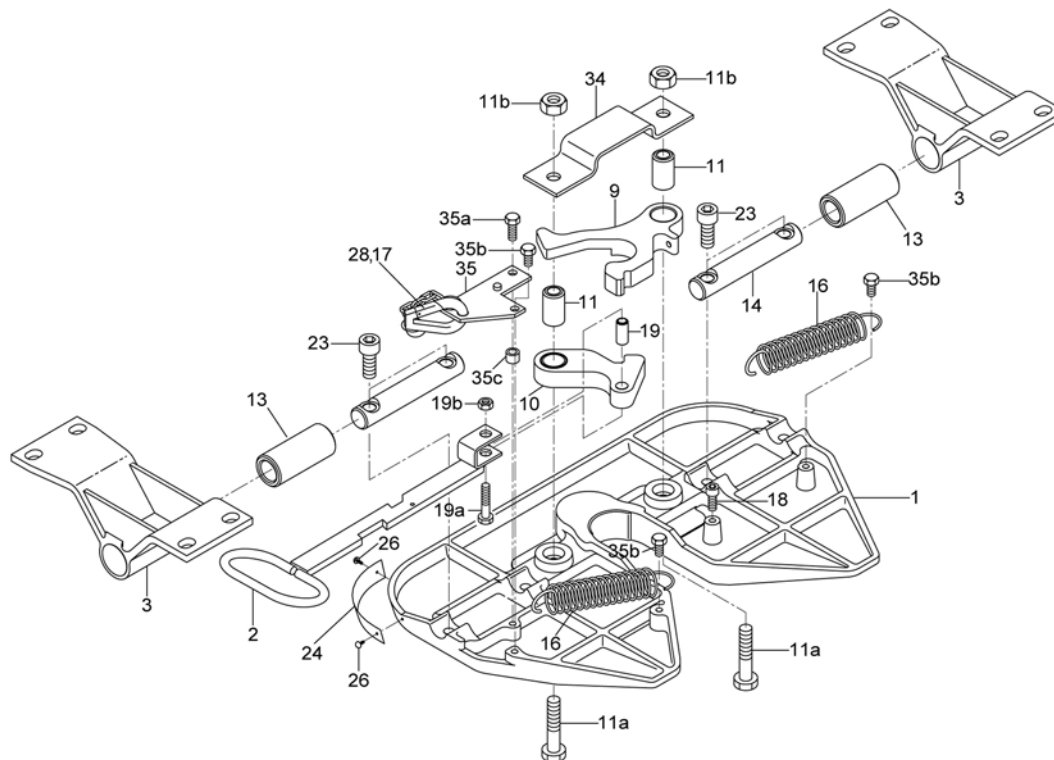
Repair kits and spare parts

Item	Type	Pcs.	Order no.
	Repair kit for locking mechanism SK-S 36.20 WS		662 101 718
	Repair kit for 2 sensors (3,4,5,6)	1	662 129 426
1	Coupler jaw	1	662 131 115
2	Circlip	1	659 100 027
3	Automatic latch, complete (2 sensors)	1	662 129 165
4	Bolts for locking mechanism (M10)	2	659 112 359
5	Cable clip	3	662 129 168
6	Bolts for coupler jaw sensor (M4)	2	659 112 376
9	Wiring loom assembly (9a,9b,9c)		662 129 170
10	Control unit (2-sensor, ADR/GGVs suitable)	1	662 129 180



Spare parts SK-L 26.3

Following-up model: GC 6

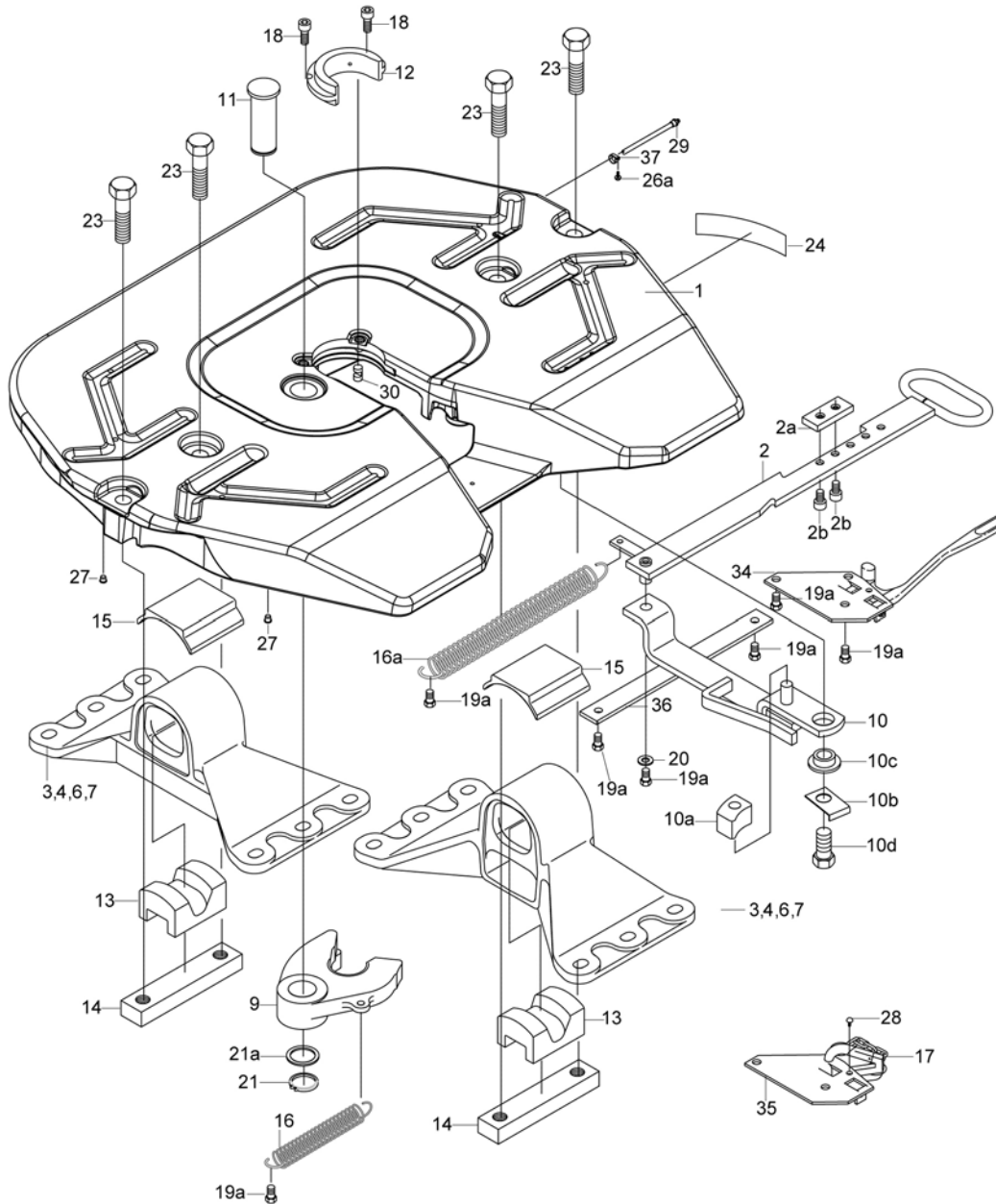


Item	Component (price per piece)	Serial no.	Pcs.	Disp.	Order no.
1	Fifth wheel plate		1		662 119 118
2	Operating handle for 662 119 005		1		662 119 134
2	Operating handle for 662 119 006		1		662 119 148
3	Mounting bracket		2		662 119 147
9	Coupler jaw assembly		1		662 119 137
10	Locking hook assembly		1		662 119 139
11	Pin		2		662 119 141
11a	Hex. bolt		2		659 112 355
11b	Nut		2		662 126 152
13	Rubber bearing		2		662 119 111
14	Trunnion pin		2		662 119 143
16	Tension spring		2		662 126 410
17	Carabiner hook with chain		1		662 100 574
18	Cap screw	0 - 108683	1		659 112 358
19	Pin		1		662 119 144
19a	Hex. bolt		1		659 112 357
19b	Nut		1		659 100 036
23	Cap screw		4		659 112 356
24	Type plate		1		659 120 375
26	Rivet (3x8)		2		662 126 173
28	Hammer rivet		1		662 126 151
34	Mounting		1		662 119 142
35	Safety flange		1		662 119 135
35a	Hex. bolt	0 - 108683	1		659 112 360
35b	Hex. bolt	108684 - ...	4		659 112 359
35c	Bush	0 - 108683	1		662 119 146








































Spare parts SK-S 36.20 (phased-out range)

Following-up model: SK-S 36.20 PLUS

The spare parts for the SK-S 36.20 are fully compatible with the SK-S 36.20. PLUS



Item	Component (price per piece)	Serial no.	Pcs.	Disp.	Order no.
	Repair kit for locking mechanism and bearings	13000 - ...			662 101 493
	Repair kit for locking mechanism and bearings	0 - 12999			662 101 477
	Repair kit for locking mechanism (9, 11, 12, 18, 21)	13000 - ...			662 101 492
	Repair kit for locking mechanism (9, 11, 12, 18, 21)	0 - 12999			662 101 475
	Repair kit for bearings (13, 15, 23)				662 101 473
	Repair kit for wear ring (12, 18)	13000 - ...			662 101 566
	Repair kit for wear ring (12, 18)	0 - 12999			662 101 565
	Fifth wheel plate complete without mounting brackets		1		662 129 003
1	Fifth wheel plate		1		662 129 371
2	Operating handle, complete (2a, 2b)	13000 - ...	1		662 129 166
2	Operating handle		1		662 129 146
2a	Adjustment plate	13000 - ...	1		662 129 158
2a	Adjustment plate	0 - 12999	1		662 129 133

Item	Component (price per piece)	Serial no.	Pcs.	Disp.	Order no.
2b	Cap screw	13000 - ...	2		659 112 371
2b	Cap screw	0 - 12999	1		659 100 017
3	Mounting bracket 128 mm		2		662 129 383
4	Mounting bracket 150 mm		2		662 129 384
6	Mounting bracket 185 mm		2		662 129 385
6	Mounting bracket 225 mm		2		662 129 389
7	Mounting bracket 250 mm		2		662 129 386
9	Coupler jaw		1		662 129 134
10	Locking hook	13000 - ...	1		662 129 156
10	Locking hook	12000 - 12999	1		662 129 143
10	Locking hook	0 - 11999	1		662 129 129
10a	Stopper		1		662 129 381
10b	Locking plate		1		662 129 387
10c	Bush		1		662 129 374
10d	Hex. bolt		1		662 129 600
11	Pin		1		662 129 375
12	Wear ring	13000 - ...	1		662 129 377
12	Wear ring	0 - 12999	1		662 129 373
13	Rubber damper		2		662 114 110
14	Tensioning bar		2		662 129 388
15	Bearing insert		2		662 130 101
16	Tension spring		1		662 126 411
16a	Tension spring		1		662 129 317
17	Carabiner hook with chain		1		662 100 574
18	Cap screw	12999 - ...	2		659 112 372
18	Cap screw	0 - 13000	2		662 126 155
19a	Hex. bolt	13000 - ...	7		659 112 359
19a	Hex. bolt	0 - 12999	5		662 126 172
20	Washer		1		662 126 175
21	Circlip		1		659 100 027
21a	Supporting washer		1		659 100 026
23	Hex. bolt		4		662 129 606
24	Manufacturer's plate		1		659 120 380
26	Rivet		2		662 126 173
26a	Rivet		1		662 126 179
27	Plastic plug	13000 - ...	4		662 126 223
27	Plastic plug	0 - 12999	2		662 126 223
28	Hammer rivet		1		662 126 151
29	Lubrication tube	13000 - ...	1		659 144 106
30	Grease plug	13000 - ...	1		662 129 380
34	Automatic latch		1		662 129 153
35	Safety flange for carabiner hook	12000 - ...	1		662 129 147
35	Safety flange for carabiner hook	0 - 11999	1		662 129 376
36	Guide plate		1		662 129 144
37	Lock nut		1		659 100 029
38	Hex. bolt	0 - 12999	2		662 111 202
	Lock nut (not shown)	0 - 12999	1		662 126 176
	Grease nipple (not shown)	0 - 12999	1		662 126 224
	Eyebolt (not shown)	0 - 12999	1		662 126 465
	Plastic plug (not shown)	0 - 12999	4		662 129 393

Spare parts SK-S 36.20 V (long mounting angles)

Follow-up model: SK-S 36.20 PLUS V

Overall height 140 mm: Order no.: 662129901, 662129902

Overall height 140 mm: Order no.: 662129911 with central lubrication kit

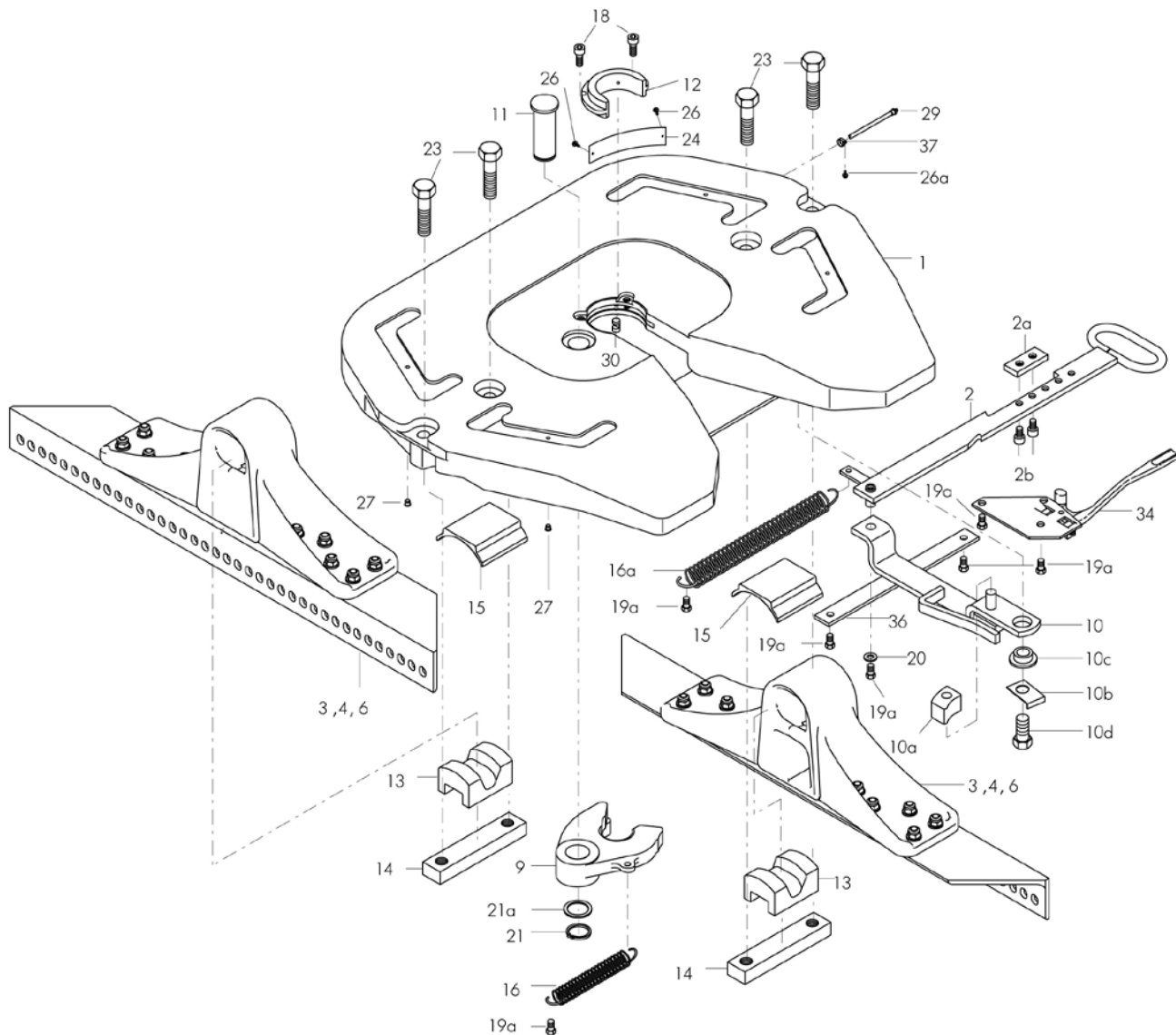
Overall height 160 mm: Order no.: 662129903, 662129904


































Overall height 160 mm: Order no.: 662129912, 662129913 with central lubrication kit

Overall height 200 mm: Order no.: 662129905, 662129906

Overall height 200 mm: Order no.: 662129914, 662129915 with central lubrication kit

A reversal of the mounting angles increases or decreases the coupling point by 25mm



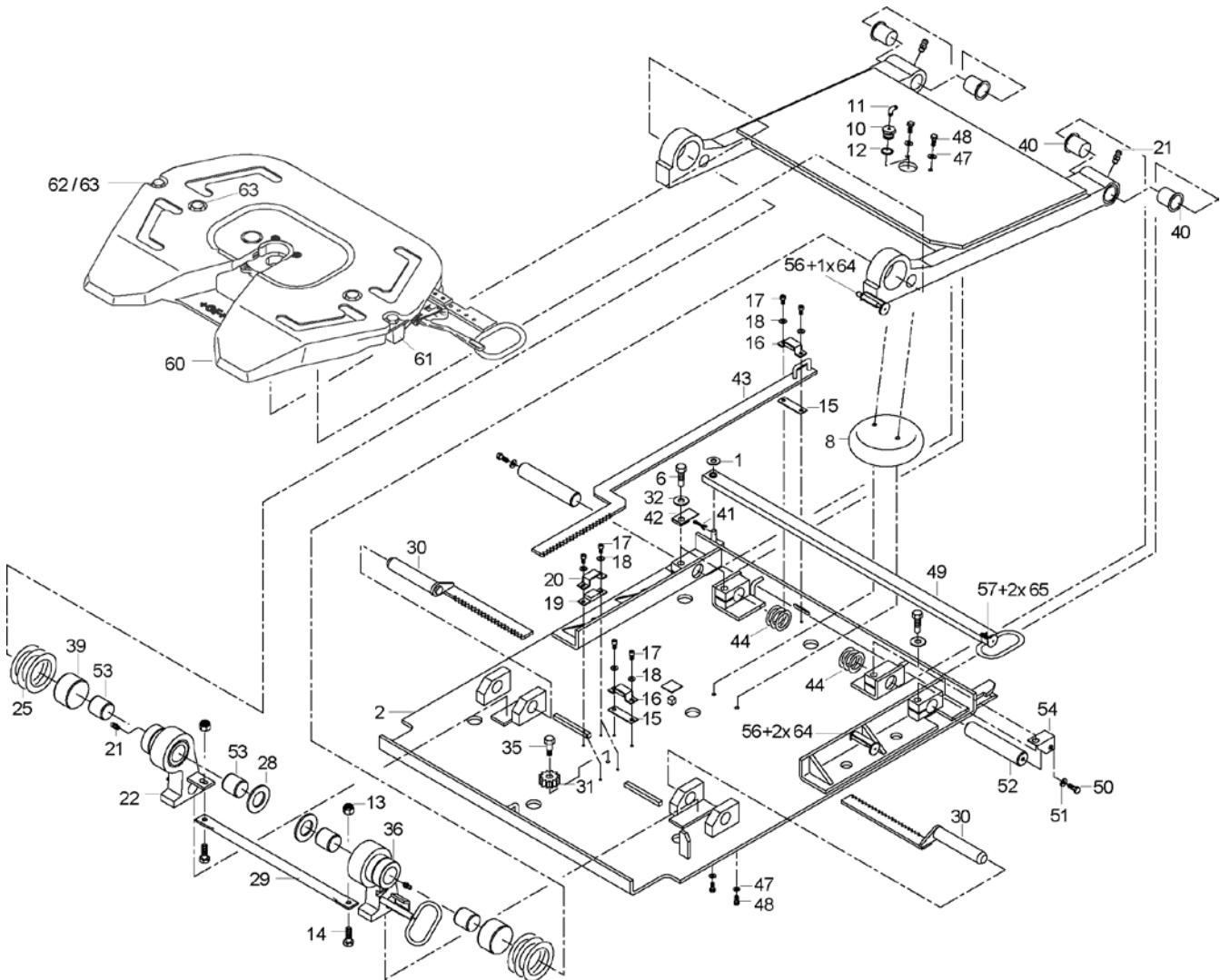
Item	Component (price per piece)	Pcs.	Disp.	Order no.
	Repair kit for locking mechanism and bearings (9,11,12,13,15,18,21,23)			662 101 493
	Repair kit for locking mechanism (9,11,12,18,21)			662 101 492
	Repair kit for locking bearings (13,15,23)			662 101 473
	Fifth wheel plate (PLUS) complete without mounting brackets			662 129 003
1	Fifth wheel plate	1		662 129 371
2	Operating handle, complete	1		662 129 166
2a	Adjustment plate	1		662 129 158
2b	Cap screw	2		659 112 371
3	Mounting angle 140mm left [right] complete	1		662 126 249
3	Mounting angle 140mm right [left] complete	1		662 126 248
4	Mounting angle 160mm left [right] complete	1		662 126 240
4	Mounting angle 160mm right [left] complete	1		662 126 241
6	Mounting angle 200mm left [right] complete	1		662 126 237
6	Mounting angle 200mm right [left] complete	1		662 126 238
9	Coupler jaw	1		662 129 134
10	Locking hook	1		662 129 156
10a	Stopper	1		662 129 381
10b	Locking plate	1		662 129 387
10c	Bush	1		662 129 374
10d	Hex. bolt	1		662 129 600
11	Pin	1		662 129 375
12	Wear ring	1		662 129 377
13	Rubber damper	2		662 114 110
14	Tensioning bar	2		662 129 388
15	Bearing insert	2		662 130 101
16	Tension spring	1		662 126 411
16a	Tension spring	1		662 129 317
18	Cap screw	2		659 112 372
19a	Hex. bolt	7		659 112 359
20	Washer	1		662 126 175
21	Circlip	1		659 100 027
21a	Supporting washer	1		659 100 026
23	Hex. bolt	4		662 129 606
24	Type plate	1		659 120 380
26	Rivet	2		662 126 173
26a	Rivet	1		662 126 179
27	Plastic plug	4		662 126 223
28	Hammer rivet			662 126 151
29	Lubrication tube	1		659 144 106
30	Grease plug	1		662 129 380
34	Automatic latch	1		662 129 153
36	Guide plate	1		662 129 144
37	Lock nut	1		659 100 029
	Central lubrication * (not shown)	1		659 144 143

Spare parts SK-S 36.20 H / SK-S 36.22 H

Following-up model: SK-S 36.20 PLUS H

When placing your order, always indicate the article no. as well as the serial no. of your dual height fifth wheel.

Spare parts for fifth wheel plate see spare part list of the respective fifth wheel type.



Item	Component (price per piece)	Pcs.	Disp.	Order no.
	Repair kits for rocker bearing (40,44,52)			662 132 195
	Repair kits for support bearing (13,14,25,39,53)			662 132 196
1	Washer	2		662 132 204
2	Base plate 10 mm	1		662 132 100
6	Hex. bolt	4		662 132 210
8	Air bellows	1		662 132 200
10	Air inlet adaptor	1		662 132 135
11	90° elbow connector	1		662 126 493
12	Sealing ring	1		662 132 201
13	Locking nut	2		662 132 215
14	Hex. bolt	2		662 132 211
15	Spacer plate	2		662 132 115
16	Guide bracket	2		662 132 118
17	Hex. socket screw	8		662 132 212
18	Washer	8		662 132 213
19	Spacer	2		662 132 116
20	Bracket	2		662 132 117
21	Grease nipple	4		662 132 214

Item	Component (price per piece)	Pcs.	Disp.	Order no.
22	Left support 100 mm complete (21,53,55)	1		662 132 181
22	Left support 150 mm complete (21,53,55)	1		662 132 183
22	Left support 200 mm complete (21,53,55)	1		662 132 185
25	Set of spacers *	1		662 132 198
28	Set of spacers **	1		662 132 197
29	Guide pipe	1		662 132 120
30	Locking pin	2		662 132 138
31	Toothed wheel	1		662 132 119
32	Washer	4		662 132 206
35	Bolt screw	1		659 112 381
36	Right support 100 mm complete (21,53,55)	1		662 132 182
36	Right support 150 mm complete (21,53,55)	1		662 132 184
36	Right support 200 mm complete (21,53,55)	1		662 132 186
39	Bush (D 85x80x50)	2		662 132 130
40	Bush (D 44x40x50)	4		662 132 132
41	Split pin	1		662 132 205
42	Left locking plate	1		662 132 155
43	Actuating rod	1		662 132 112
44	Set of spacing washer ***	3		662 132 199
47	Spring washer	4		662 132 208
48	Hex. bolt	4		662 132 207
49	Locking lever	1		662 132 170
50	Hex. bolt	2		662 132 203
51	Spring washer	2		662 132 202
52	Pin	2		662 132 110
53	Bush	2		662 132 146
54	Right locking plate	1		662 132 111
55	Cap	4		659 144 142
56	Spring lock	2		662 132 172
57	Spring lock	1		662 132 171
58	Central lubrication system BEKA-MAX	1		662 132 041
60	Fifth wheel without bearings (model on demand)	1		
61	Shaft	2		662 132 292
62	Spring pin	2		662 132 293
63	Hex. bolt	4		659 112 627
64	Nut	3		659 115 313
65	Nut	2		659 115 312
	Holding plate (not shown)	1		662 132 139
	3/2-way valve (not shown)	1		662 132 156
	pneumatic tube 1 m (no shown)	1		662 132 169

*Set contains spacers D 116x80x0.5, D 116x80x1, D 116x80x2

**Set contains spacers D 80x45x0.5, D 80x45x1, D 80x40.5x2

***Set contains spacing washers D 65x40.5x0.5, D 65x40.5x1, D 65x40.5x2

Notice

MOUNTING PLATES

PRE-DRILLED
UN-DRILLED
MOUNTING KITS



Mounting plates without predrilled holes

Mounting plates serve to attach the fifth wheel to the vehicle and must be securely connected to the frame assembly of the semi-trailer tractor

SAF-HOLLAND mounting plates with diverse heights enable you to take optimally advantage of the permissible total overall heights of tractors.



- Made of high grade, weldable steel plate
- Wide range, optimal design for all tractor and fifth wheels
- 7 individual mounting plate heights: 12, 16, 22, 40, 50, 100 and 150 mm
- The combinations of mounting plates and fifth wheels enable 23 different total overall heights, thereby covering all requirements from the lowest to the highest construction type
- Approved for forced steering
- Mounting hole pattern according to DIN 74081, 74084 and ISO 3842
- Wider range of application due to higher imposed load and higher D-value
- Type approved

Mounting plates without pre-drilled holes for fifth wheel up to 22t imposed load

Mounting hole pattern according to DIN 74081 / ISO 3842

FW = fifth wheel, MP = mounting plate, VC= vehicle chassis

Type	Overall height	Imposed load	D-value	Weight	A	B	Mounting kit	Type approval	Order no.
	mm	t	kN	kg	mm	mm	SK-MP	EG	
MP 300	12	22	162,4	64,0	710	960	555	e11-00-0379	662 101 300
MP 299	12	22	162,4	69,0	710	1060	555	e11-00-0379	662 101 299
MP 433 *	12	22	162,4	60,0	710	960	514	e11-00-0382	662 101 433
MP 486 **	12	20	152,0	44,5	650	960	555	e11-00-0953	662 101 486
MP 549 **	12	18	135,0	50,0	650	1060	555	e11-00-6317	662 101 549
MP 106	22	22	162,4	41,0	665	960	353 / 442	e11-00-0380	662 101 106
MP 199	22	22	162,4	45,0	665	1060	353 / 442	e11-00-0380	662 101 199
MP 060	40	22	162,4	45,0	665	960	498	e11-00-0378	662 101 060
MP 078	40	22	162,4	49,0	665	1060	498	e11-00-0378	662 101 078
MP 331	100	16	108,0	81,0	710	970	498	e11-00-0383	662 101 331
MP 445	150	15	108,0	106,5	665	960	498	e11-00-0117	662 101 445

* MP, suitable for SK-S 36.22 with an overall height of 132 mm

** MP with cut-out suitable for SK-S 36.20 PLUS with an overall height of 128 mm

For mounting widths wider than 930 mm, mounting plates of 1060 mm (B) are required (e.g. Renault Magnum / Premium)

Mounting plates without pre-drilled holes for fifth wheel up to 36t imposed load

Mounting hole pattern according to DIN74084 / ISO 3842

Type	Overall height	Imposed load	D-value	Weight	A	B	Mounting kit	Type approval	Order no.
	mm	t	kN	kg	mm	mm	SK-MP	EG	
MP 301	16	36	280	84,2	710	960	553	e11-00-0385	662 101 301
MP 302	16	36	280	94,0	710	1060	553	e11-00-0385	662 101 302
MP 274 *	50	36	220	72,0	730	960	551	e11-00-0387	662 101 274

Suitable for SK-HD 38.36 / G

*No stockkeeping, please request price and delivery time

Special mounting plates without pre-drilled holes

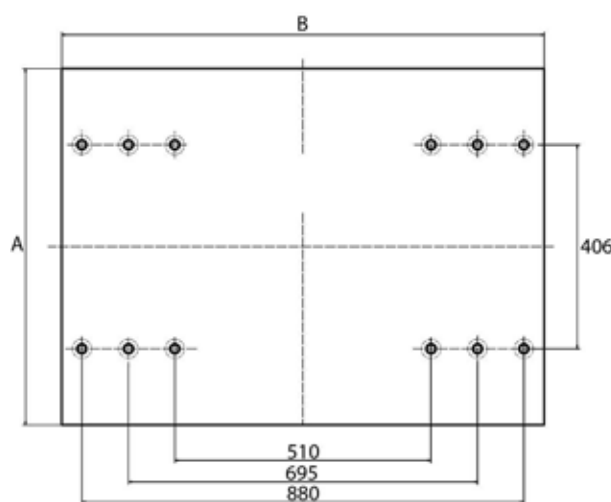
No stock keeping. Prices, delivery times and additional special mounting plates available on request.

Type	Overall height	Imposed load	D-value	Weight	A	B	Mounting kit	Type approval	Order no.
	mm	t	kN	kg	mm	mm	SK-MP	EG	
MP 515	12	22	162,4	64,0	710	960	555	e11-00-0379	662 101 515
MP 246 **	40	22	162,4	45,0	710	960		e11-00-0217	662 101 246

*for SK-HD 38.36

** Replaced by MP060

Dimensions



Hole pattern as per DIN 74081/84 und ISO 3842

Mounting instructions

Mounting the fifth wheel on the mounting plate

For mounting fifth wheels as per DIN74081, at least 8 high-tensile bolts are required, for fifth wheels as per DIN74084, at least 12 high-tensile bolts, M16 or M16 x 1.5 of at least grade 8.8, in symmetrical order to the longitudinal and lateral axes of the fifth wheel.

Tighten M16 x 1.5 bolts, of at least grade 8.8, with a torque of 190 Nm.

Tighten M16 x 1.5 bolts, of at least grade 8.8, with a torque of 190 Nm.

Mounting the MP on the vehicle frame / angle

Install mounting plates on the vehicle according to the instructions of the vehicle manufacturer. In the absence of the vehicle manufacturer guidelines, we recommend:

For 2" fifth wheels as per DIN74081, at least 4 high-tensile bolts, M16 x 1.5, of at least grade 8.8, or 4 high-tensile bolts, M20 x 1.5, of at least grade 8.8, on each side.

For 3½" fifth wheel as per DIN 74084, at least 6 high-tensile bolts, M16 x 1.5, of at least grade 8.8, or 4 high-tensile bolts, M20 x 1.5, of at least grade 8.8, on each side.

The mounting brackets and the mounting plate can be screwed by welded stop plates

After assembling fifth wheels and mounting plates have to be approved by a national inspection authority.

Mounting plates with predrilled holes

The following mounting plates are already equipped with respective mounting hole patterns of the vehicle manufacturers. Prices and delivery times as well as additional pre-drilled mounting plates available on request.

Type	OEM manufacturer	Overall height	Imposed load	D-value	Weight	A	B	Model	Type approval	Order no.
	hole pattern	mm	t	kN	kg	mm	mm		EG	
MP 525 *	MAN	12	20	152,0	40,0	650	960	8x18	e11-00-0953	662 101 525
MP 526 *	Mercedes-Benz	12	20	152,0	40,0	650	960	8x21	e11-00-0953	662 101 526
MP 527 *	SCANIA	12	20	152,0	40,0	650	960	8x19	e11-00-0953	662 101 527
MP 532	IVECO	12	22	162,4	63,0	715	960	12x19	e11-00-0379	662 101 532
MP 544 *	IVECO	12	20	152,0	63,0	715	960	12x19	e11-00-0953	662 101 544
MP 630 *	Renault	12	18	135,0	50,0	650	1060	12x18	e11-00-6317	662 101 630
MP 631 *	Mercedes-Benz	12	18	135,0	50,0	650	1060	8x21	e11-00-6317	662 101 631
MP 440	SCANIA	22	22	162,4	41,0	665	960	8x19	e11-00-0380	662 101 440
MP 512	DAF	22	22	152	40,0	700	960	12x18	e11-00-0952	662 101 512
MP 574	MAN	22	22	162,4	41,0	665	960	8x20	e11-00-0380	662 101 574
MP 441	SCANIA	40	22	162,4	45,0	665	960	8x19	e11-00-0378	662 101 441
MP 511	DAF	40	20	152,0	40,0	700	960	12x18	e11-00-0951	662 101 511
MP 543	SCANIA	40	22	162,4	45,0	665	960	8x20	e11-00-0378	662 101 543

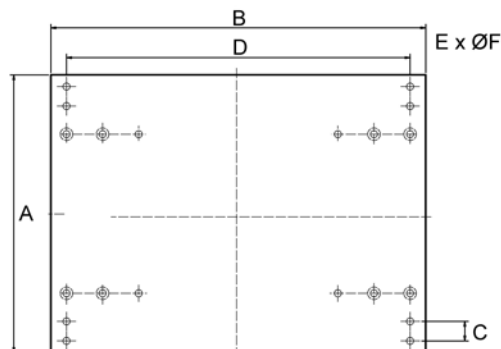
*For SK-S 36.20 / overall height 128 mm (with cut-out)

Technical data and useable mounting kits

SK = fifth wheel, MP = mounting plate, VC= vehicle chassis

Type	Mounting kit	Mounting kit	Overall height	A	B	C	D	E	F
	MP-FHR	SK-MP	mm	mm	mm	mm	mm	mm	mm
MP 440		353 / 442	22	665	960	50	880	8	19
MP 441		498	40	665	960	50	880	8	19
MP 511	551	353 / 442	40	700	960	50	880	12	18
MP 512	551	353 / 442	22	700	960	50	880	12	18
MP 525 *	552	555	12	650	960	50,75	880	8	18
MP 526 *	550	555	12	650	960	50	860	8	21
MP 527 *		555	12	650	960	50	880	8	19
MP 532	IVECO	555	12	715	960	45	860	12	19
MP 543		353 / 442	40	665	960	50	880	8	20
MP 544 *	IVECO	555	12	715	960	45	860	12	19
MP 574	522	353 / 442	22	665	960	50,75	880	8	18
MP 630 *	551	353 / 442	12	650	1060	50	940	12	18
MP 631 *	550	555	12	650	1060	50	949	8	21

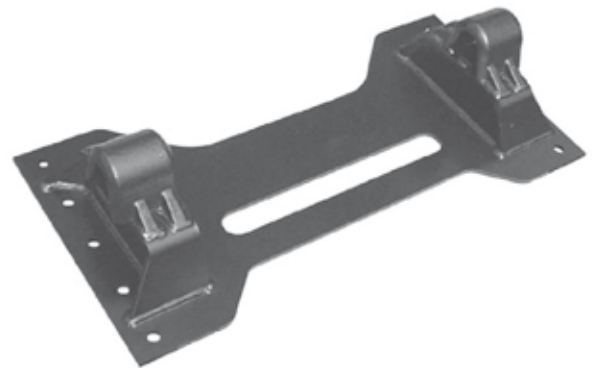
*For SK-S 36.20 / overall height 128 mm (with cut-out)



Mounting hole pattern according to DIN 74084 / ISO 3842

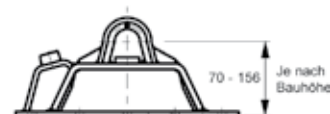
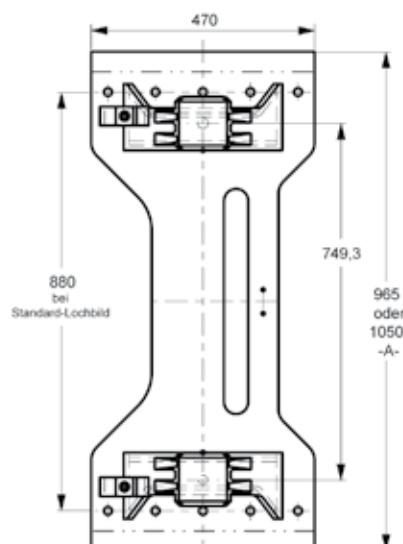
Weightsaver® for 20 tons

- The Weightsaver® is suitable for all Holland standard 2" fifth wheels and saves weight and installation time on fifth wheel mounting.
- The combined mounting plate and brackets result in a reduction of weight.
- Time-saving through direct mounting on chassis.
- The Weightsaver® offers safety and highest standards.
- Mounting heights including fifth wheel are 140mm, 160mm, 190mm, 230mm.
- Production in accordance with EC 94/20 standard.
- Two standard hole patterns, Special hole patterns on request.
- The Weightsaver® is available in two alternative widths, 965mm and 1050mm.



Technical data

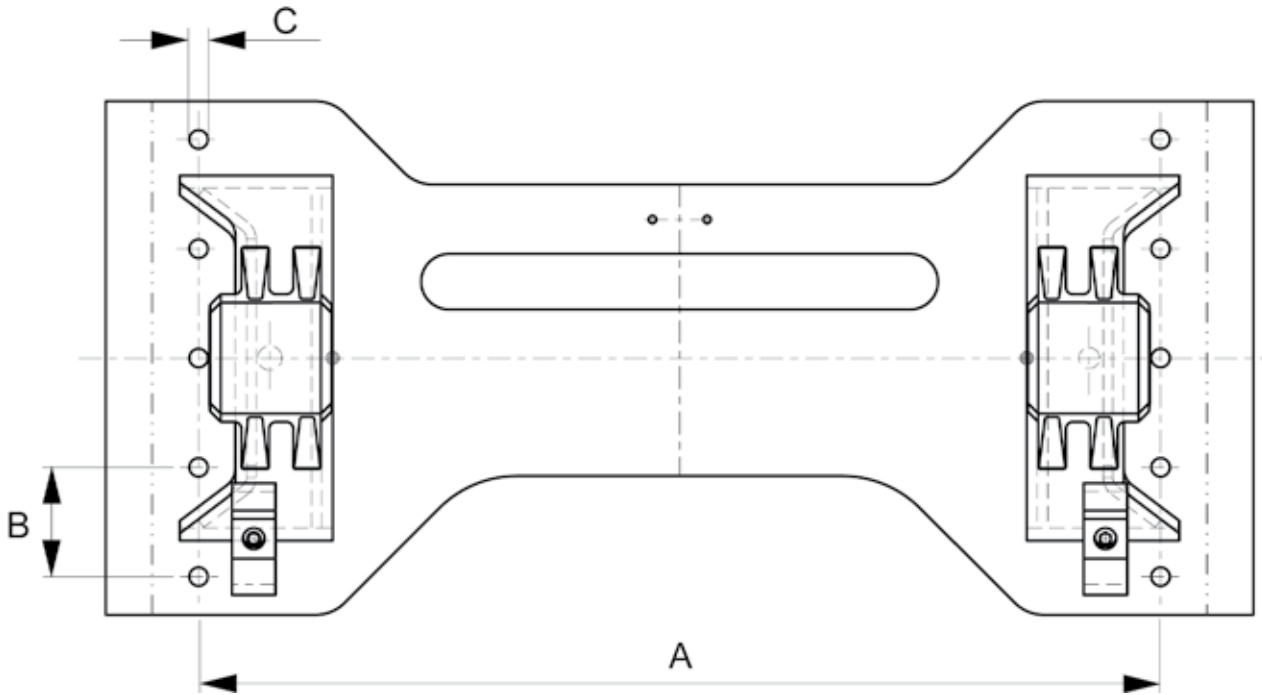
Type	Overall height	A	Order no.
	mm	mm	
Standard Weightsaver® undrilled	140	965	XA-E 60080
Weightsaver® undrilled	140	1050	XA-E-60080-1
Standard Weightsaver with hole pattern**	140	965	XA-E-60080-
Weightsaver with hole pattern**	140	1050	XA-E-60080-1
Standard Weightsaver® undrilled	160	965	XA-E-08523-1
Weightsaver® undrilled	160	1050	XA-E-08523-2
Standard Weightsaver with hole pattern**	160	965	XA-E-08523-1
Weightsaver with hole pattern**	160	1050	XA-E-08523-2
Standard Weightsaver® undrilled	190	965	XA-E-08523-3
Weightsaver® undrilled	190	1050	XA-E-08523-4
Standard Weightsaver with hole pattern**	190	965	XA-E-08523-3
Weightsaver with hole pattern**	190	1050	XA-E-08523-4
Standard Weightsaver® undrilled	230	965	XA-E-08523-5
Weightsaver® undrilled	230	1050	XA-E-08523-6
Standard Weightsaver with hole pattern**	230	965	XA-E-08523-5
Weightsaver with hole pattern**	230	1050	XA-E-08523-6



Technical data

Type	A mm	B mm	C mm
D (Standard)	880	100	Diameter 17
S (Standard)	880	100	Diameter 19
F	880	100	Diameter 21
G	880	101,6	Diameter 18
M	855	100	Diameter 21
R	900	101,5	Diameter 17

- Alternative hole patterns on request



Mounting kits

IMPORTANT: SAF-HOLLAND mounting kits contain special screws and bolts which guarantee high quality and extra safe mounting of our products.

The corresponding mounting kit for your fifth wheel and mounting plate can be found in the reference table in the chapter for mounting plates

SK = fifth wheel, MP = mounting plate, VC= vehicle chassis

Type	Mounting	Model	Overall height	Order no.
			mm	
Mounting kit 514	FW on MP 16mm or MP 12mm produced before 2005	4x (M16x50x1.5) 8x (M16x55x1.5)	12 - 16	662 101 514
Mounting kit 353	FW (2") on MP, type 8.8	12x (M16x55x1.5) 8.8	22 - ...	662 101 353
Mounting kit 442	FW on MP, type 10.9	12x (M16x55x1.5) 10.9	22 - ...	662 101 442
Mounting kit 498	FW (2") on MP	12x (M16x50x1.5)	24 - 150	662 101 498
Mounting kit 354	FW + MP + VC	12x (M16x55x1.5)	50	662 101 354
Mounting kit 452	FW + MP + VC	4x (M16x50x1.5) 16x (M16x55x1.5)	12	662 101 452
Mounting kit 550	MP + VC (Mercedes-Benz Actros)	8x (M20x45x1.5)	12	662 101 550
Mounting kit 551	FW (3½") on MP	12x (M16x60x1.5)	24 - ...	662 101 551
Mounting kit 552	MP + VC	8x (M16x50x1.5)	12 - 40	662 101 552
Mounting kit 553	FW (3½") on MP, for MP 301, MP 302	4x (M16x60x1.5) 8x (M16x55x1.5)	16	662 101 553
Mounting kit 555	FW (2") on MP	12x (M16x55x1.5)	12	662 101 555
Mounting kit 556	FW + MP + VC, consists of 514 + 557 (MP 302)		16	662 101 556
Mounting kit 557	MP on VC, for MP 302 (3½")	8x (M20x65x1.5)	16	662 101 557

Mounting instructions

Mounting the fifth wheel on the mounting plate

For mounting fifth wheels as per DIN74081, at least 8 high-tensile bolts are required, for fifth wheels as per DIN74084, at least 12 high-tensile bolts, M16 or M16 x 1.5 of at least grade 8.8, in symmetrical order to the longitudinal and lateral axes of the fifth wheel.

Mounting the MP on the vehicle frame / angle

Install mounting plates on the vehicle according to the instructions of the vehicle manufacturer. In the absence of the vehicle manufacturer guidelines, we recommend:

For 2" fifth wheels as per DIN74081, at least 4 high-tensile bolts, M16 x 1.5, of at least grade 8.8, or 4 high-tensile bolts, M20 x 1.5, of at least grade 8.8, on each side.

For 3½" fifth wheel as per DIN 74084, at least 6 high-tensile bolts, M16 x 1.5, of at least grade 8.8, or 4 high-tensile bolts, M20 x 1.5, of at least grade 8.8, on each side.

The mounting brackets and the mounting plate can be screwed by welded stop plates

Tighten M16 x 1.5 bolts, of at least grade 8.8, with a torque of 190 Nm.

Tighten M16 x 1.5 bolts, of at least grade 8.8, with a torque of 190 Nm.

After assembling fifth wheels and mounting plates have to be approved by a national inspection authority.

Notice

ACCESSOIRES

ANTI-THEFT LOCK
STEERING WEDGE
HUBOMETER
GREASE CARTRIDGE



Anti-theft lock

- protects your cargo

- Kingpin bolts completely covered
- Surface prevents tampering or forced breakage
- Extra sturdy and impact resistant spheroidal graphite cast iron housing
- Easy and quick to install - just attach and lock
- Suitable for all construction types 2" and 3½" kingpins



Special tamper proof cylinder safety lock incl. 2 keys. Special locking combinations e.g. series if identical lock or with master lock for multiple use in big fleets.

2" anti-theft lock

Type	Weight	Overall height	Diameter	Order no.
	kg	mm	mm	
Standard 2" anti-theft lock assembly	5,4	92	260	662 102 031
2" anti-theft lock complete with master key	5,4	92	260	662 102 033
2" anti-theft lock assembly, identical locks	5,4	92	260	662 102 034
Extra key				662 102 038

3½" anti-theft lock

Type	Weight	Overall height	Diameter	Order no.
	kg	mm	mm	
Standard 3½" anti-theft lock assembly	5,9	86	260	662 102 041
3½" anti-theft lock complete with master key	5,9	86	260	662 102 043
3½" anti-theft lock assembly, identical locks	5,9	86	260	662 102 044
Extra key				662 102 038



Steering wedge for semi trailers with forced steering

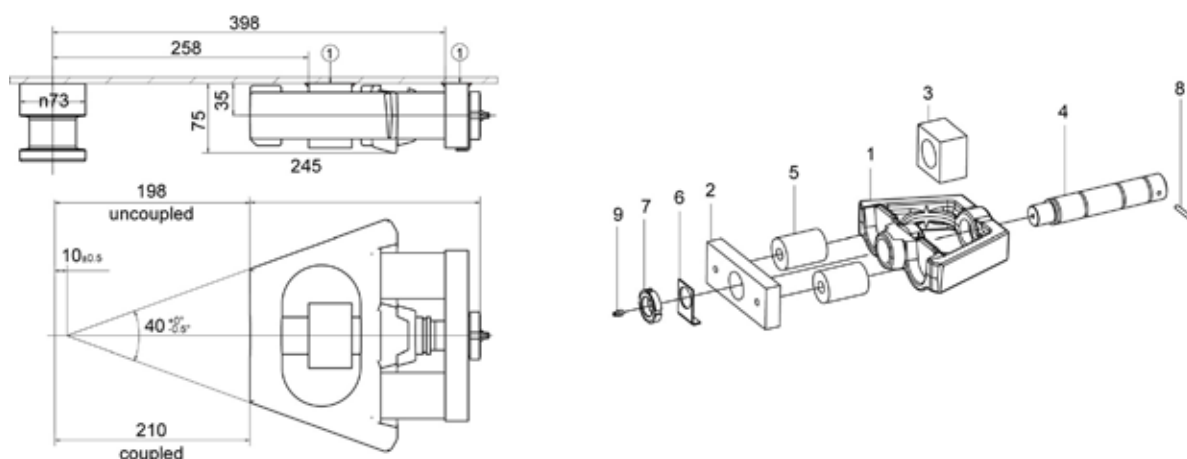
- Robust body made of spheroidal graphite cast iron guarantees a long life even under the toughest operating conditions.
- The integrated rubber spring suspension with a spring extension of 18 mm, prevents jamming during driving.
- The steering wedge does not require any special maintenance and the integrated lubrication system makes servicing easy.



Technical data

Type	Model	Type approval	Weight kg	Order no.
Steering wedge assembly	spring suspension	DIN 74085	12,2	662 101 280
Steering wedge completely mounted	spring suspension	DIN 74085	12,2	662 101 280F

Dimensions



Spare parts for steering wedge

Type	Item	Pcs.	Order no.
Wedge	1	1	662 101 282
Bearing, rear	2	1	662 101 279
Bearing, front	3	1	662 101 278
Wedge guide shaft	4	1	662 101 281
Rubber spring	5	2	662 101 310
Locking plate	6	1	662 101 374
Groove nut	7	1	659 115 126
Rollpin	8	1	659 100 022
Grease nipple	9	1	662 126 224

Fitting instructions

Fastening is carried out by a continuous weld seam (seam thickness 5 mm) of the bearing (1) on the trailer plate. We recommend the welding processes E II or MAG C. Only high quality filler material may be used.

Important: The specified assembly dimensions are to be strictly observed. These dimensions produce a theoretical initial tension of 12 mm. The total spring extension is 18 mm

Hubodometer

Mileage indicator for trailers

SAF-HOLLAND precision hubodometers are available for all conventional tyre sizes from 15" to 22½".

- No transmission
- Sturdy
- Maintenance-free
- Temperature resistant
- Simple assembly
- Compact
- Reliable operation



When placing your order, it is important to indicate tyre size or rolling circumference.

Technical data

Type	Rolling circumference	Order no.
	mm	
Hubodometer	2355 (2325 - 2400)	662 025 014
Hubodometer	2500 (2450 - 2550)	662 025 005
Hubodometer	2551 (2500 - 2600)	662 025 013
Hubodometer	2727 (2675 - 2775)	662 025 012
Hubodometer	2783 (2750 - 2825)	662 025 011
Hubodometer	2915 (2875 - 2975)	662 025 010
Hubodometer	3061 (3000 - 3125)	662 025 009
Hubodometer	3158 (3100 - 3200)	662 025 003
Hubodometer	3333 (3275 - 3400)	662 025 000
Hubodometer	3401 (3350 - 3450)	662 025 002

Fitting instructions

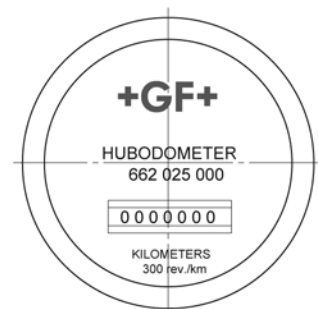
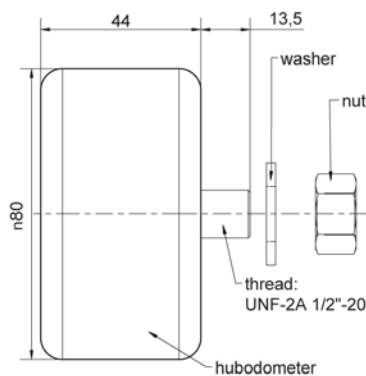
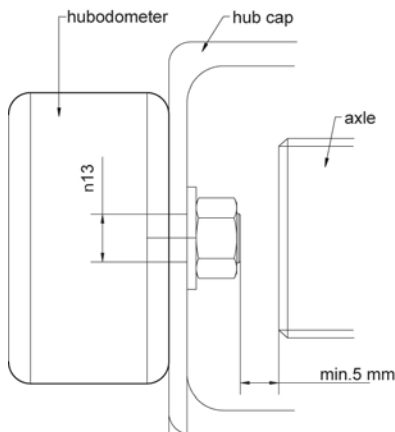
For direct mounting on the hub cap.

The outside surface of the hub cap (contact area of the hubodometer) must be absolutely level. If necessary, turn or grind the surface until level. Drill a hole concentrically with a diameter of ½" and if necessary mill the inner side of the hub cap for the type of lock washer.

Important:

Maintain a safety margin of at least 5 mm between screw neck and axle arm. Other types of assembly are possible, e.g. at the flat steel hoop outside of the hub (customer supplied), however, ensure that the hubodometer is always arranged concentrically to the axle.

Dimensions



Grease cartridge for SK-S 36.20 W

- Automatic single point long term dispenser for grease and oil
- No manual lubrication of lock mechanism required
- TÜV approved
- Contents: 125 ml
- Operating system: Hydrogen gas formation cell
- Operating pressure max. 3 bar
- Setting: continuous 1-12 months
- Average period of use approx. 6 months
- Operating temperature: -20° C ... +55°C ambient temperature
- Recommended storage temperature of 20°C ±5°C



Technical data

Type	Note	Dimensions	Weight	Connection	Order no.
		mm	kg		
Grease cartridge 125 ml		100 x Ø 52	0,190	R 1/4"	662 131 150
Adaptor				R 1/4" - M8 x 1	662 131 151
Connecting bend	needed for SK-S 36.20 PLUS W version				662 131 152

Instructions

For higher or lower ambient temperatures or varying lubrication requirements, the grease quantity can be continuously adapted on a daily basis. An initial setting of level 6 is recommended.

- Application: The dispenser can be mounted in all conditions
- Important: do not expose directly to heat
- Use within 2 years filling date

The dispensed grease quantity per day is affected by the following:

- Ambient temperature
- Resistance / back pressure in lines
- Viscosity of grease

The simalube can be adjusted or shut off during the period of dispensing. The setting on the adjusting washer refer to standard conditions. It is recommended to check the function of the dispenser (piston movement, targeting unit) at regular intervals.

The trouble free functioning of the lubricant dispensing system is only guaranteed by using the recommended lubricant, the original simalube accessory program and observing the mounting, operating and maintenance regulations. Failure to observe these instructions excludes the manufacturer from liability for any resulting damages.

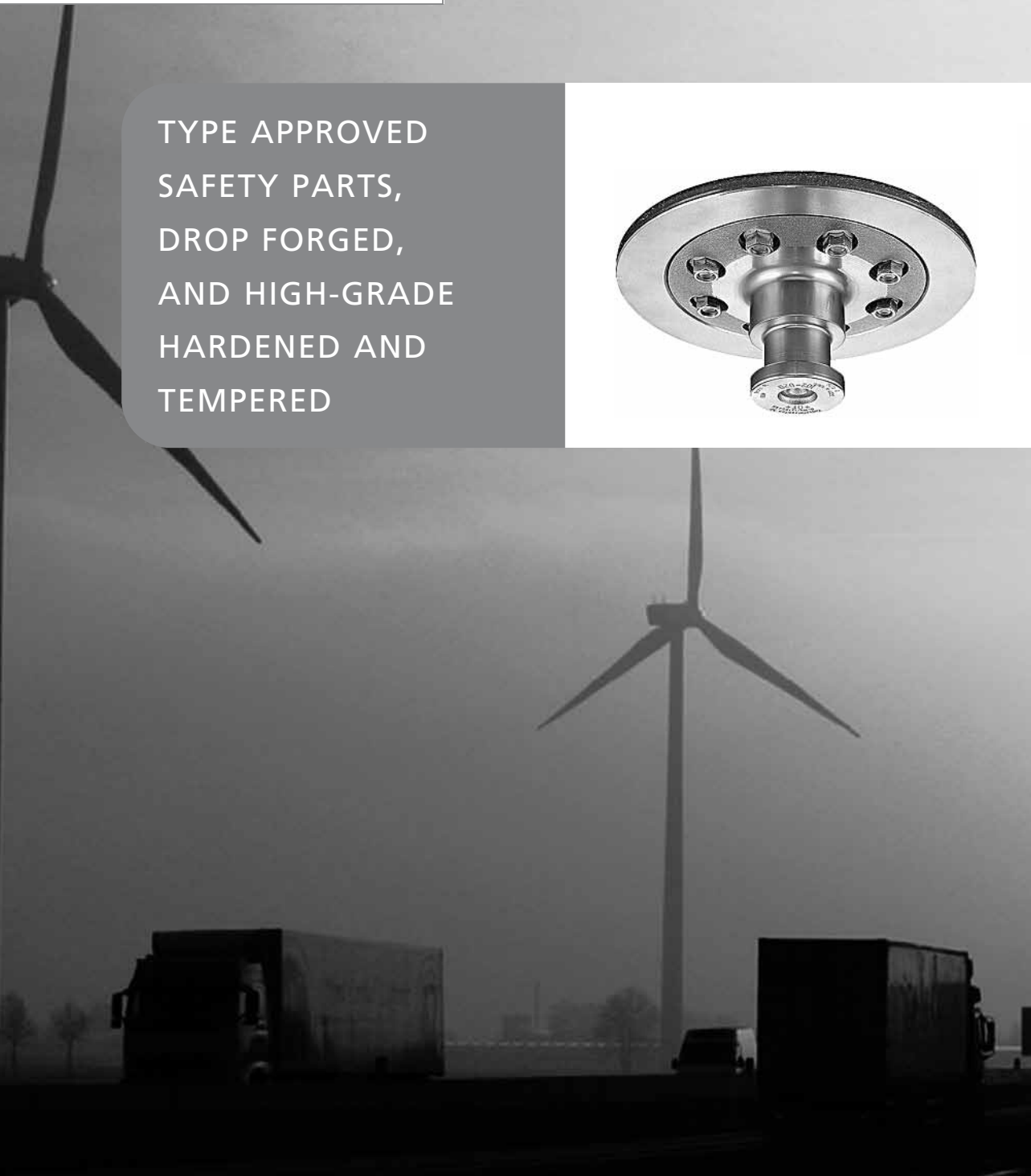
Safety information

If the dispenser is put into operation without removing the seal, or if the grease channels of the installation are blocked, the pressure in the dispenser can rise to up to 5 bar. When an overpressure of 5 bar is reached, the dispenser bursts at the designated breakage point between housing and funnel. The pressure behind the piston is released and grease or oil can leak out from the designated breakage

Notice

KINGPINS

TYPE APPROVED
SAFETY PARTS,
DROP FORGED,
AND HIGH-GRADE
HARDENED AND
TEMPERED



Kingpins

SAF-HOLLAND kingpins are made from type approved sturdy components conforming to the highest safety requirements. Their manufacture is correspondingly precise. The forged blanks are high grade tempered and subjected to crack detection. For different mounting options ensure - according to the D-value - safety in accordance with the latest technical standards.

- Overall dimensions in accordance with DIN 74080, 74083 and ISO 337/4086
- Wider range of applications due to higher imposed load and higher D-value
- Type approved
- Large assortment - optimal design for all semi-trailers
- Range of interchangeable pins 2" and 3½"



Information for selecting kingpins

The characteristic value for the loading capacity of a kingpin is the D-value which can be found on the lower flange of the kingpin. The weight of a vehicle alone is not an accurate indication of the forces occurring in the connecting mechanisms. The force acting on the connecting mechanism is determined by the sum of the influencing factors and their relationship. This force (known as drawbar, or D-value) is a function of the vertical load on the tractor, the weight of the semi-trailer; it is also used as a basis for type testing.

D-value calculation equation

According to DIN 74080, DIN 74081, DIN 74083 and DIN74084, the D-value can be calculated using the following equation:

$$D = g \times [0,6 \times m_k \times m_A] / [m_k + m_A - A] \text{ in kN}$$

The factor $g = 9.80665$ must be applied when converting kN.

Key:

m_k = permissible gross weight of the tractor in tonnes

m_A = permissible gross weight of the semi-trailer in tonnes

A = permissible vertical load on the tractor in tonnes

Example calculation

A kingpin is to be fitted on a semi-trailer with a permissible gross weight of 31 tonnes, pulled by a tractor with a permissible gross weight of 21 tonnes. The vertical load on the tractor is 14 tonnes. Unknown value: D-value.

$$\begin{aligned} D &= g \times [0,6 \times m_k \times m_A] / [m_k + m_A - A] \\ &= 9.80665 \times [0.6 \times 21 \times 31] / [21 + 31 - 14] \\ &= 100,8 \text{ kN} \end{aligned}$$

The calculated D-value is 100.8 kN. The kingpin to be used must therefore have a D-value of at least 100.8 kN. The overall dimensions of the kingpin correspond to DIN 74080, 74083 and ISO 337/4086.

Safety instructions

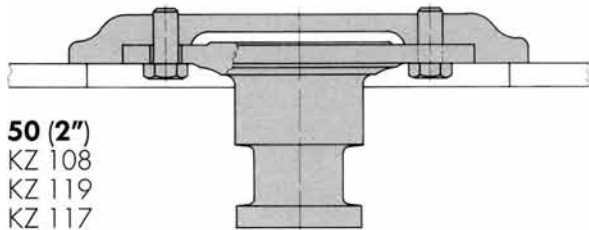
Kingpins are vehicle connection components which are subject to design certification and the very highest standards of safety. Damaged, deformed or repaired (e.g. welded) components may not be used, otherwise operating and traffic safety are jeopardized and the product type approval becomes invalid.

We recommend the use of original SAF-HOLLAND spare parts. Our product guarantee becomes invalid if non-original parts are used.

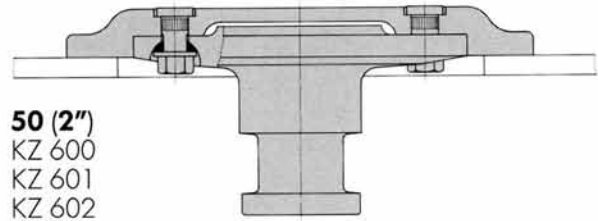
Ordering instructions

When ordering spare parts, please indicate the type of kingpin. You will find the type designation on the base of the kingpin.

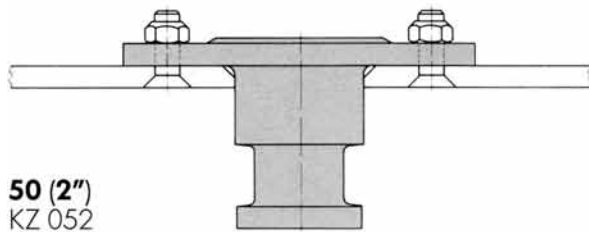
Overview of product range



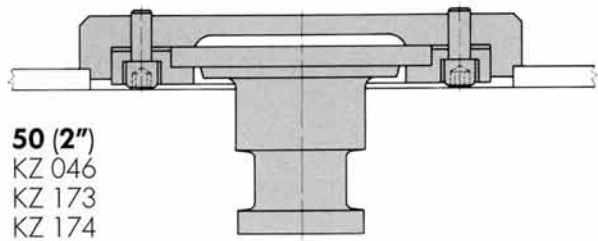
50 (2")
KZ 108
KZ 119
KZ 117
KZ 491



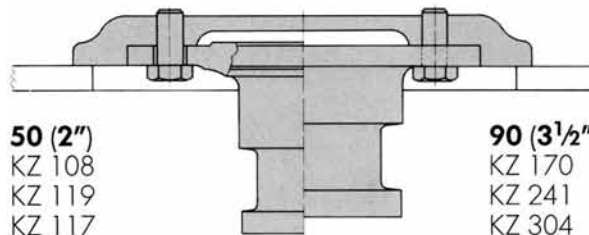
50 (2")
KZ 600
KZ 601
KZ 602
KZ 630



50 (2")
KZ 052

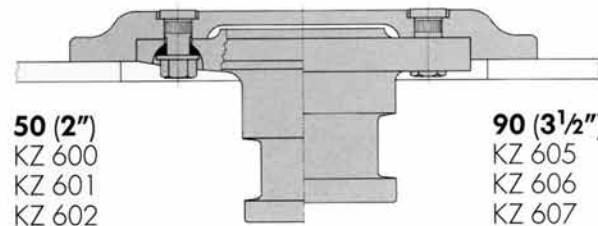


50 (2")
KZ 046
KZ 173
KZ 174



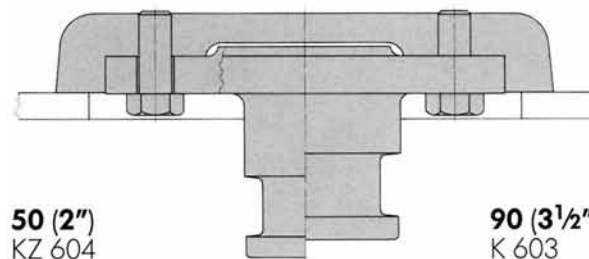
50 (2")
KZ 108
KZ 119
KZ 117

90 (3 1/2 inch)
KZ 170
KZ 241
KZ 304



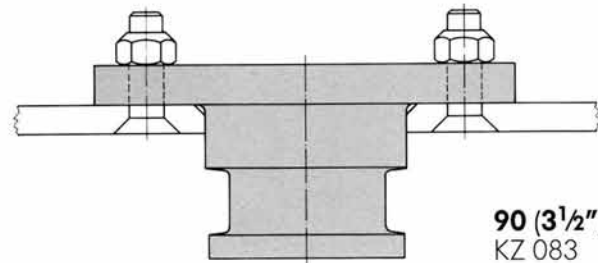
50 (2")
KZ 600
KZ 601
KZ 602

90 (3 1/2 inch)
KZ 605
KZ 606
KZ 607

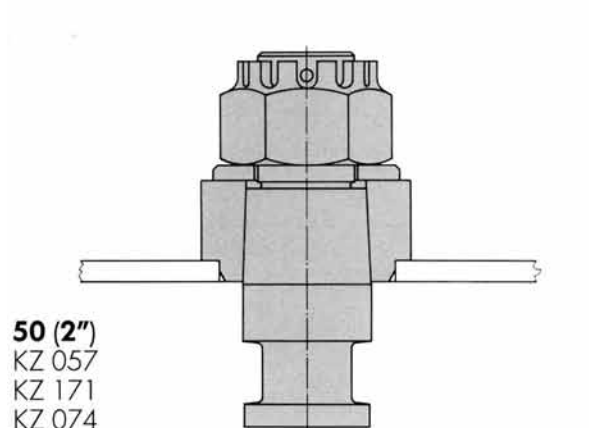


50 (2")
KZ 604

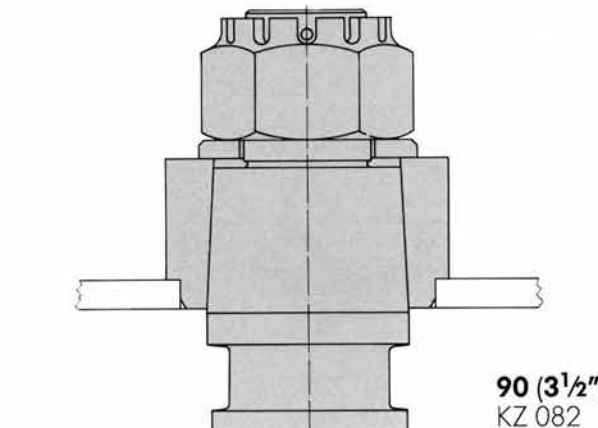
90 (3 1/2 inch)
K 603



90 (3 1/2 inch)
KZ 083



50 (2")
KZ 057
KZ 171
KZ 074



90 (3 1/2 inch)
KZ 082

Kingpins 50 mm (2")

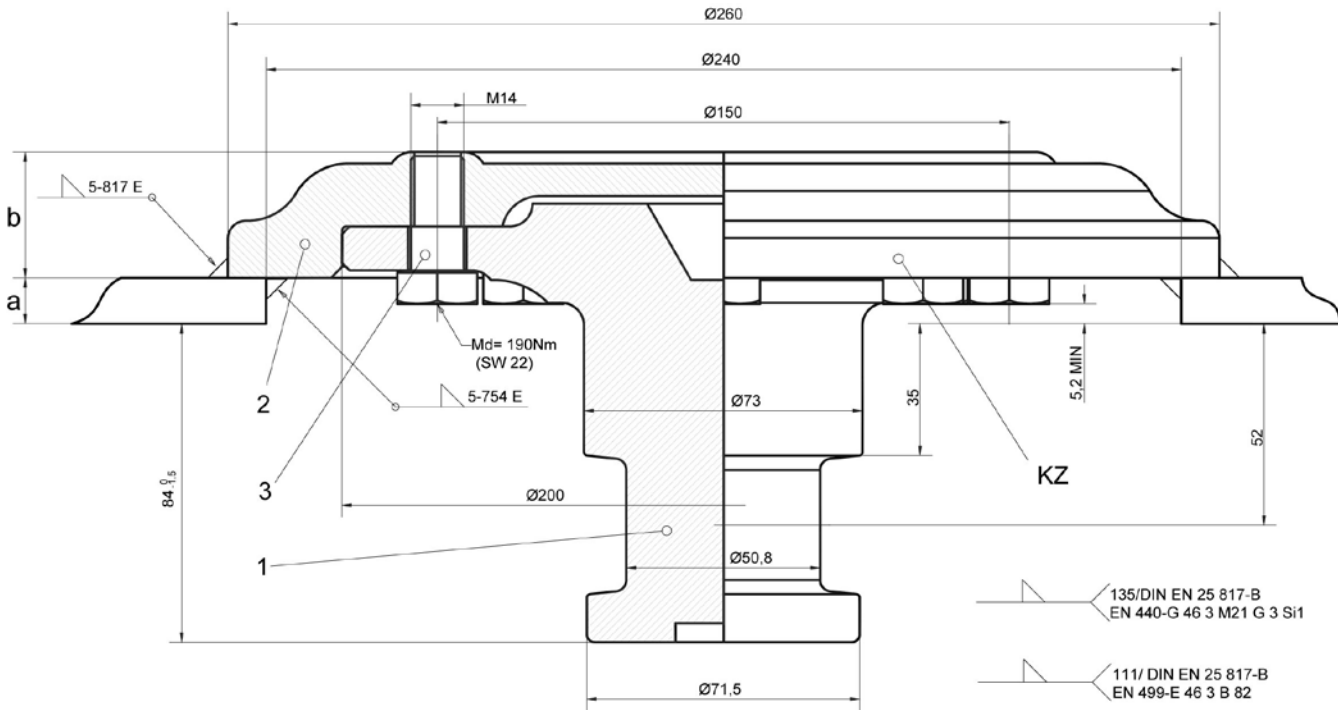
KZ 108, 117, 119, 491

- Diameter (Inch): 2
- Mounting: bolted flange
- Type: flanged
- Pitch circle diameter (mm): 150
- D-value (kN): 162.4
- Weight (kg): 12.5



Type approval:

- EU-test no.: e1-00-0475



Item	Component (price per piece)	Nominal size	Plate thickness a	Mounting height b	Colour code	Order no.
		inch	mm	mm		
KZ	KZ 491 complete	2"	6	35 +2/-0	red	662 101 491
KZ	KZ 117 complete	2"	8	35 +2/-0	white	662 101 117
KZ	KZ 119 complete	2"	10	33 +2/-0	blue	662 101 119
KZ	KZ 108 complete	2"	12	33 +2/-0	yellow	662 101 108
1	Kingpin	2"				662 101 109
2	Mounting flange for KZ 491		6	35 +2/-0	red	662 101 490
2	Mounting flange for KZ 117		8	35 +2/-0	white	662 101 118
2	Mounting flange for KZ 119		10	33 +2/-0	blue	662 101 120
2	Mounting flange for KZ 108		12	33 +2/-0	yellow	662 101 107
3	Bolt (8 per kingpin)					659 112 320

- Kingpins can be replaced from below
- With fitting option of pin 90mm (3½") no. 662 101 169
- Note: Self-locking bolts may only be used once

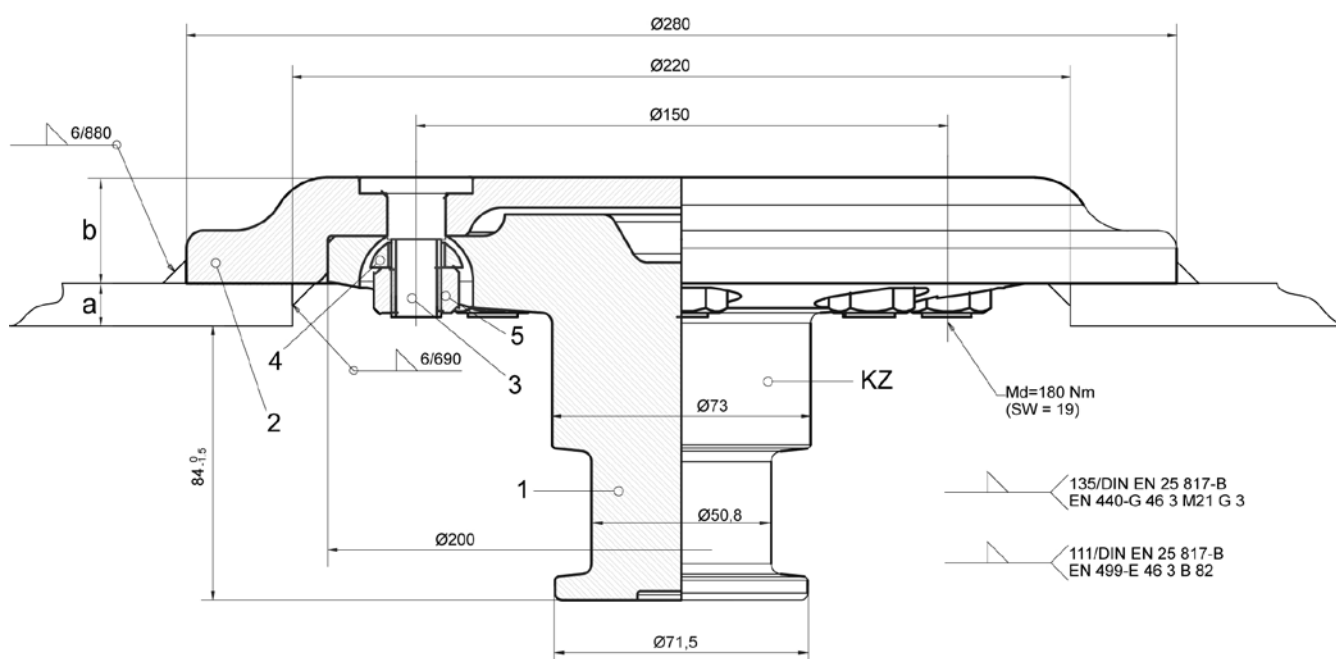
KZ 600, 601, 602, 630

- Diameter (Inch): 2
- Mounting: flanged wheel stud
- Type: flanged
- Pitch circle diameter (mm): 150
- D-value (kN): 162.4
- Weight (kg): 14.2



Type approval:

- EU-test no.: e1-00-0216



Item	Component (price per piece)	Nominal size	Plate thickness a	Mounting height b	Colour code	Order no.
		inch	mm	mm		
KZ	KZ 630 complete	2"	6	32 +2/-0	red	662 102 630
KZ	KZ 602 complete	2"	8	32 +2/-0	white	662 102 602
KZ	KZ 601 complete	2"	10	30 +2/-0	blue	662 102 601
KZ	KZ 600 complete	2"	12	30 +2/-0	yellow	662 102 600
1	Kingpin	2"				662 102 020
2	Mounting flange for KZ 630		6	32 +2/-0	red	662 102 227
2	Mounting flange for KZ 602		8	32 +2/-0	white	662 102 205
2	Mounting flange for KZ 601		10	30 +2/-0	blue	662 102 204
2	Mounting flange for KZ 600		12	30 +2/-0	yellow	662 102 203
3	Wheel stud (8 per kingpin)					662 102 206
4	Spring washer (8 per kingpin)					662 101 212
5	Flat flange nut (8 per kingpin)					662 101 211

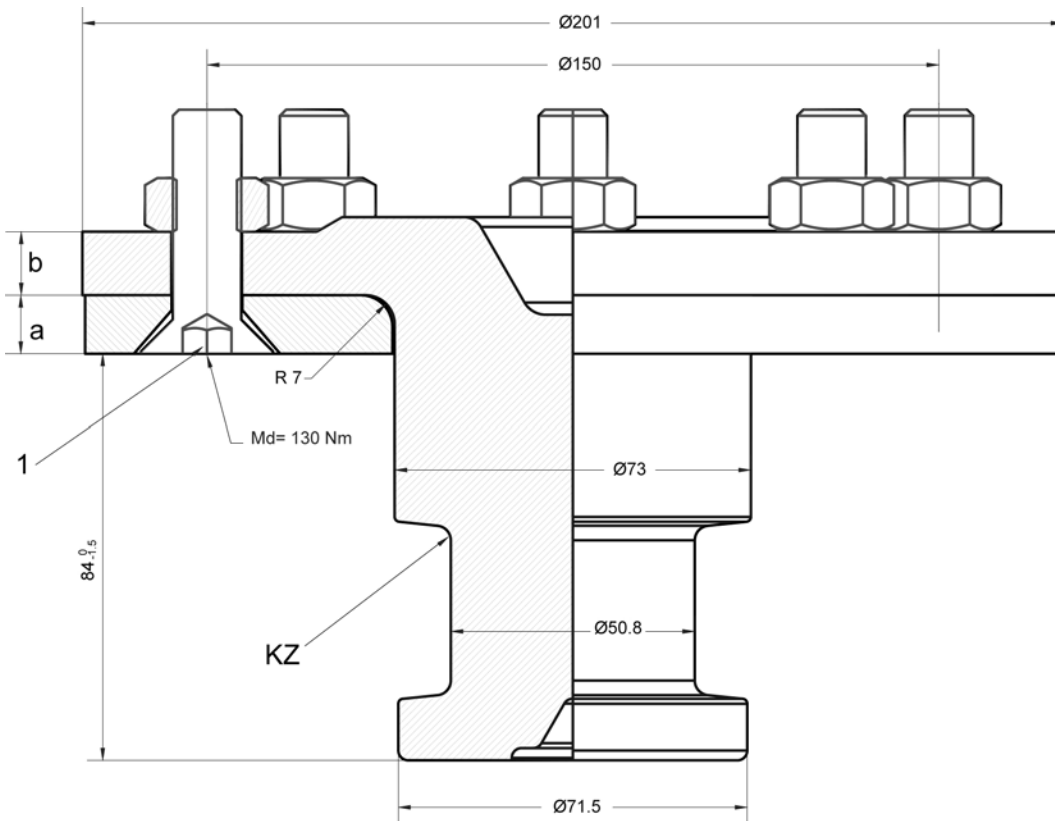
- Mounting flange for kingpin incl. mounting kit
- Kingpins can be replaced from below
- With fitting option of pin 90mm (3½") no. 662 102 023

KZ 052

- Diameter (Inch): 2
- Mounting: bolted flange
- Type: flanged
- Pitch circle diameter (mm): 150
- D-value (kN): 103
- Weight (kg): 5.7

Type approval:

- EU-test no.: e11-00-0374



Item	Component (price per piece)	Nominal size	Plate thickness a	Flange height b	Order no.
		inch	mm	mm	
KZ	KZ 052 (without mounting kit)	2"	12	13	662 101 052
1	Mounting kit consisting of 8 bolts and 8 self-locking nuts				662 101 231

- Note: Self-locking nuts may only be used once

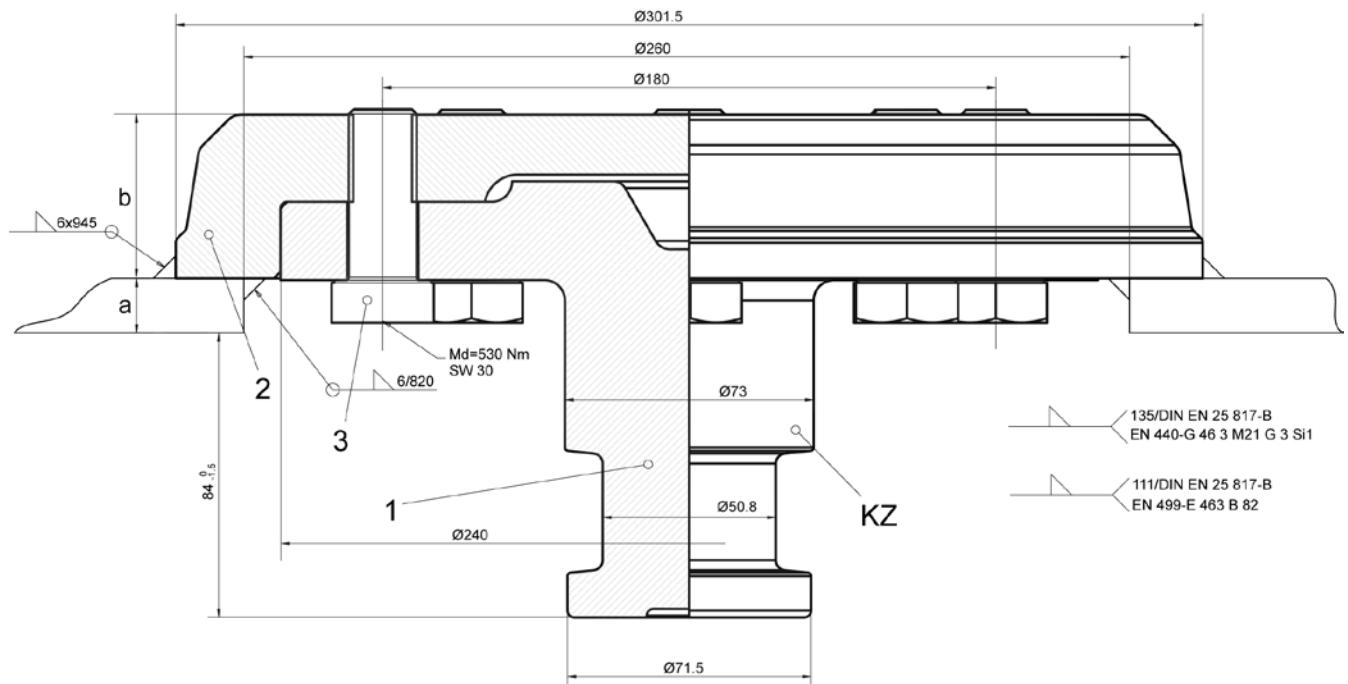
KZ 604

- Diameter (Inch): 2
- Mounting: bolted flange
- Type: flanged
- Pitch circle diameter (mm): 180
- D-value (kN): 162.4
- Weight (kg): 27.5



Type approval:

- EU-test no.: e11-00-0375



Item	Component (price per piece)	Nominal size	Plate thickness a	Mounting height b	Colour code	Order no.
		inch	mm	mm		
KZ	KZ 604 complete	2"	16	48	-	662 102 604
1	Kingpin	2"				662 102 022
2	Mounting flange for KZ 604		16	48	-	662 102 207
3	Bolt (8 per kingpin)					662 102 208

- Kingpins can be replaced from below
- With fitting option of pin 90mm (3½") no. 662 102 021
- Note: Self-locking bolts may only be used once

KZ Type 64

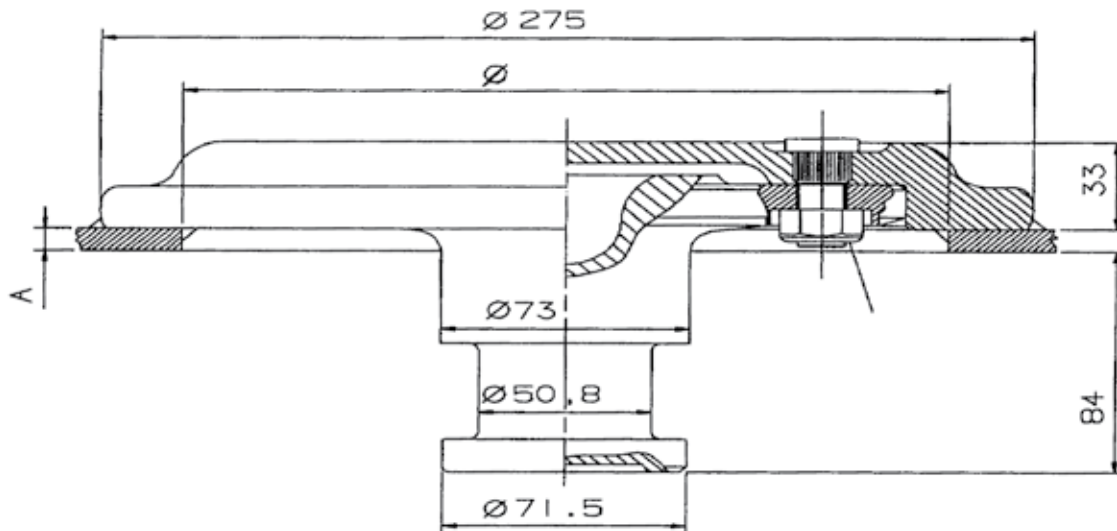
- Diameter (Inch): 2
- D-value (kN): 159
- 8, 10 and 12mm Semi-trailer plate thickness

Type approval:

- EC approved 94/20/EG
- e1*94/20*0168

Features of Typ 64 - 2":

- The kingpin attaches to the back plate using lock nuts fitted to studs which are pressed into the back plate. The kingpin can be replaced easily from below.
- Manufactured in accordance with EC 94/20 and DIN 74080 standards.
- Forged material manufactured from high tensile chromium molybdenum steel, heat treated for optimum strength and durability.
- These kingpins are suitable for all types of rear axle steering.



Item	Component (price per piece)	Nominal size	Plate thickness a	Mounting height b	Order no.
		inch	mm	mm	
KZ	KZ type 64 complete 8mm back plate	2"	8	33	KP-E-64208
KZ	KZ type 64 complete 10mm back plate	2"	10	33	KP-E-64210
KZ	KZ type 64 complete 12mm back plate	2"	12	33	KP-E-64212
1	Kingpin	2"			XA-E-51264
2A	Back plate - 8mm semi-trailer plate thickness		8	33	XA-E-52208
2B	Back plate - 10mm semi-trailer plate thickness		10	33	XA-E-52210
2C	Back plate - 12mm semi-trailer plate thickness		12	33	XA-E-52212
3	Bolt (8 per kingpin)				4 247 4008 80
4	Lock Nut Set (8 pcs.)				4 051 0060 00

KZ Type 65

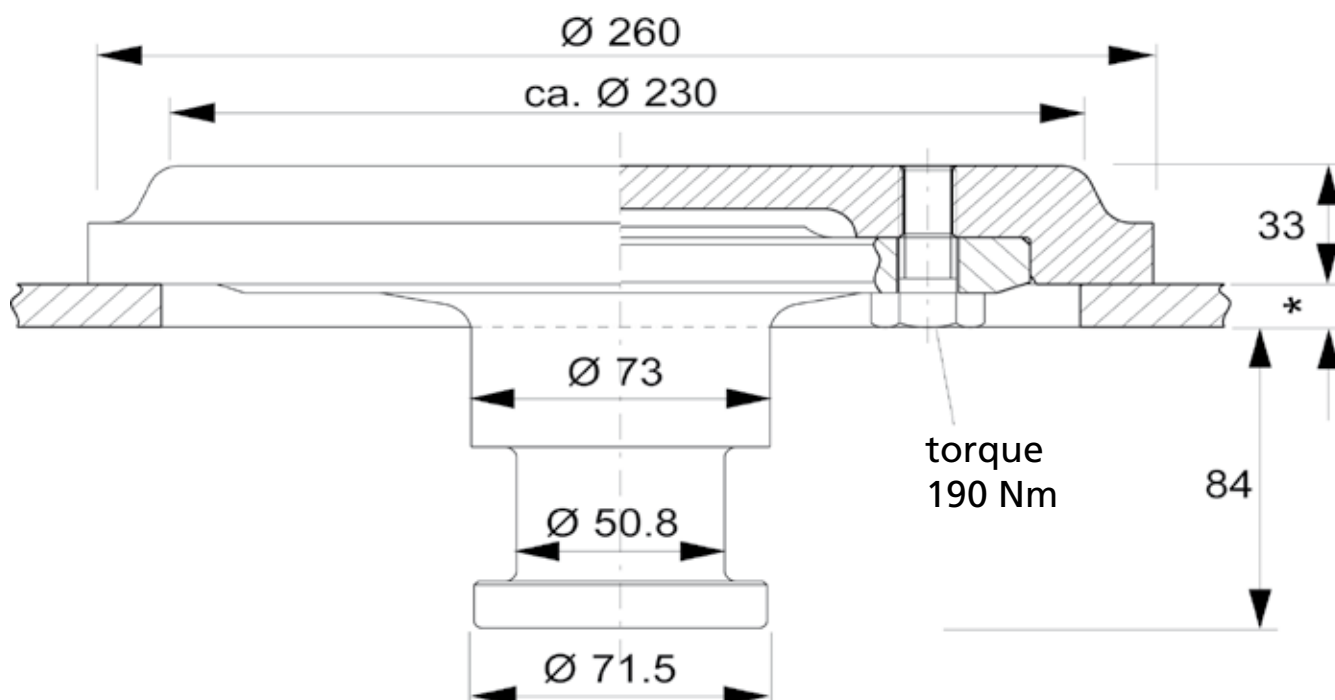
- Diameter (Inch): 2
- D-value (kN): 159
- 6, 7, 8, 10 and 12mm semi-trailer skidplate

Type approval:

- EC approved 94/20/EG
- e1*94/20*0291

Features of Typ 63 - 2":

- The kingpin is bolted directly into the back plate and can be replaced easily from below.
- Manufactured in accordance with EC 94/20 and DIN 74080 and ISO 337 standards.
- Forged material manufactured from high tensile chromium molybdenum steel, heat treated for optimum strength and durability.
- These kingpins are suitable for all types of rear axle steering.



Item	Component (price per piece)	Nominal size	Plate thickness a	Mounting height b	Order no.
		inch	mm	mm	
KZ	KZ type 65 complete 6mm	2"	6	33	KP-E-65206
KZ	KZ type 65 complete 7mm	2"	7	33	KP-E-65207
KZ	KZ type 65 complete 8mm	2"	8	33	KP-E-65208
KZ	KZ type 65 complete 10mm	2"	10	33	KP-E-65210
KZ	KZ type 65 complete 12mm	2"	12	33	KP-E-65212
1	Kingpin	2"			XA-E-51265
2A	Back plate 6mm		6	33	XA-E-52206
2B	Back plate 7mm		7	33	XA-E-52207
2C	Back plate 8mm		8	33	XA-E-52208
2D	Back plate 10mm		10	33	XA-E-52210
2E	Back plate 12mm		12	33	XA-E-52212
3	Bolt (8 per kingpin)				4 343 1059 10

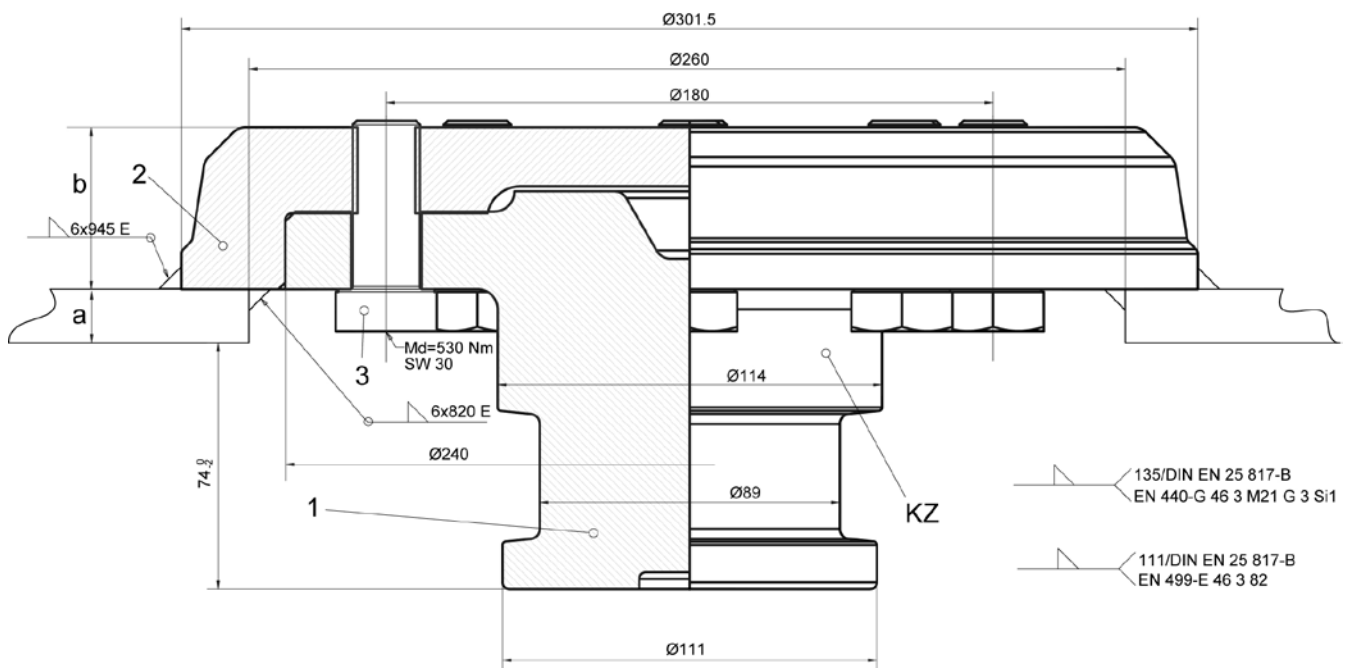
Kingpins 90 mm (3½") KZ 603

- Diameter (Inch): 3½
- Mounting: bolted flange
- Type: flanged
- Pitch circle diameter (mm): 180
- D-value (kN): 320
- Weight (kg): 30.7



Type approval:

- EU-test no.: e11-00-0393



Item	Component (price per piece)	Nominal size	Plate thickness a	Mounting height b	Colour code	Order no.
		inch	mm	mm		
KZ	KZ 603 complete	3½"	16	48	-	662 102 603
1	Kingpin	3½"				662 102 021
2	Mounting flange for KZ 603		16	48	-	662 102 207
3	Bolt (8 per kingpin)					662 102 208

- Kingpins can be replaced from below
- With fitting option of pin 50mm (2") no. 662 102 022
- Note: Self-locking bolts may only be used once

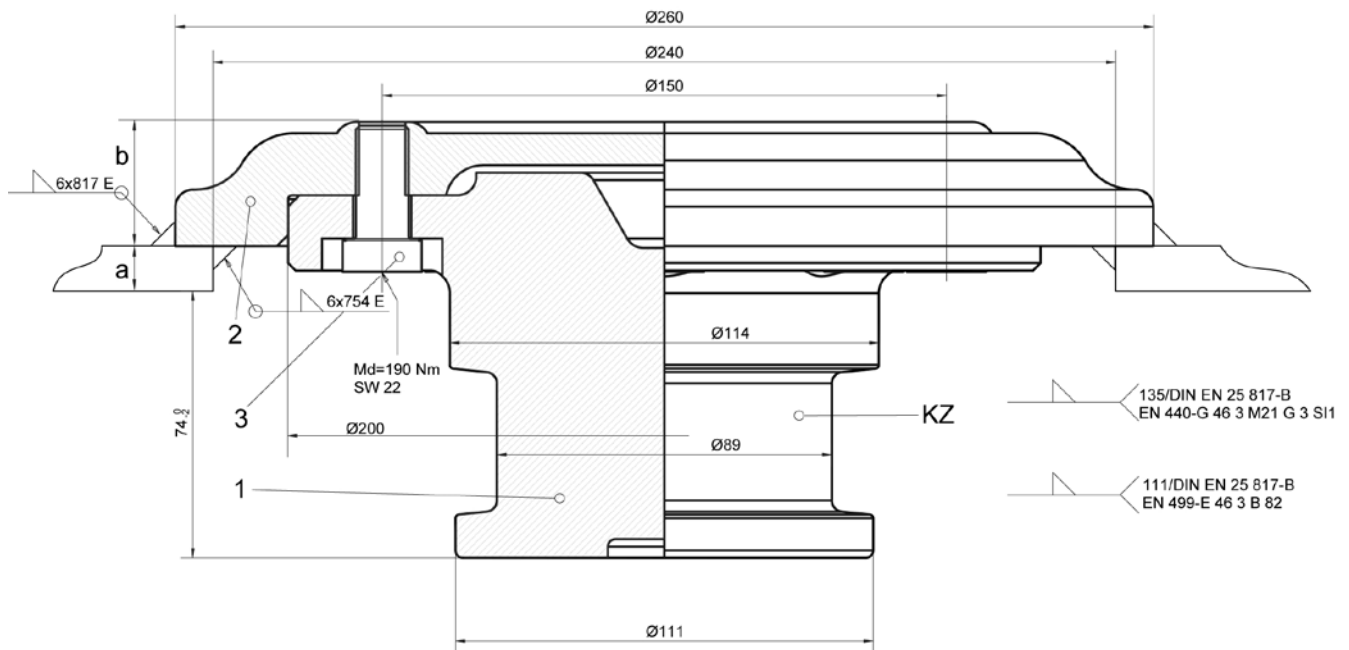
KZ 170, 241, 304

- Diameter (Inch): 3½
- Mounting: bolted flange
- Type: flanged
- Pitch circle diameter (mm): 150
- D-value (kN): 162.4
- Weight (kg): 17.0



Type approval:

- EU-test no.: e11*94/20*6773



Item	Component (price per piece)	Nominal size	Plate thickness a	Mounting height b	Colour code	Order no.
		inch	mm	mm		
KZ	KZ 304 complete	3½"	8	35 +2/-0	white	662 101 304
KZ	KZ 241 complete	3½"	10	33 +2/-0	blue	662 101 241
KZ	KZ 170 complete	3½"	12	33 +2/-0	yellow	662 101 170
1	Kingpin	3½"				662 101 169
2	Mounting flange for KZ 304		8	35 +2/-0	white	662 101 118
2	Mounting flange for KZ 241		10	33 +2/-0	blue	662 101 120
2	Mounting flange for KZ 170		12	33 +2/-0	yellow	662 101 107
3	Bolt (8 per kingpin)					659 112 320

- Kingpins can be replaced from below
- With fitting option of pin 50mm (2") no. 662 101 109
- Note: Self-locking bolts may only be used once

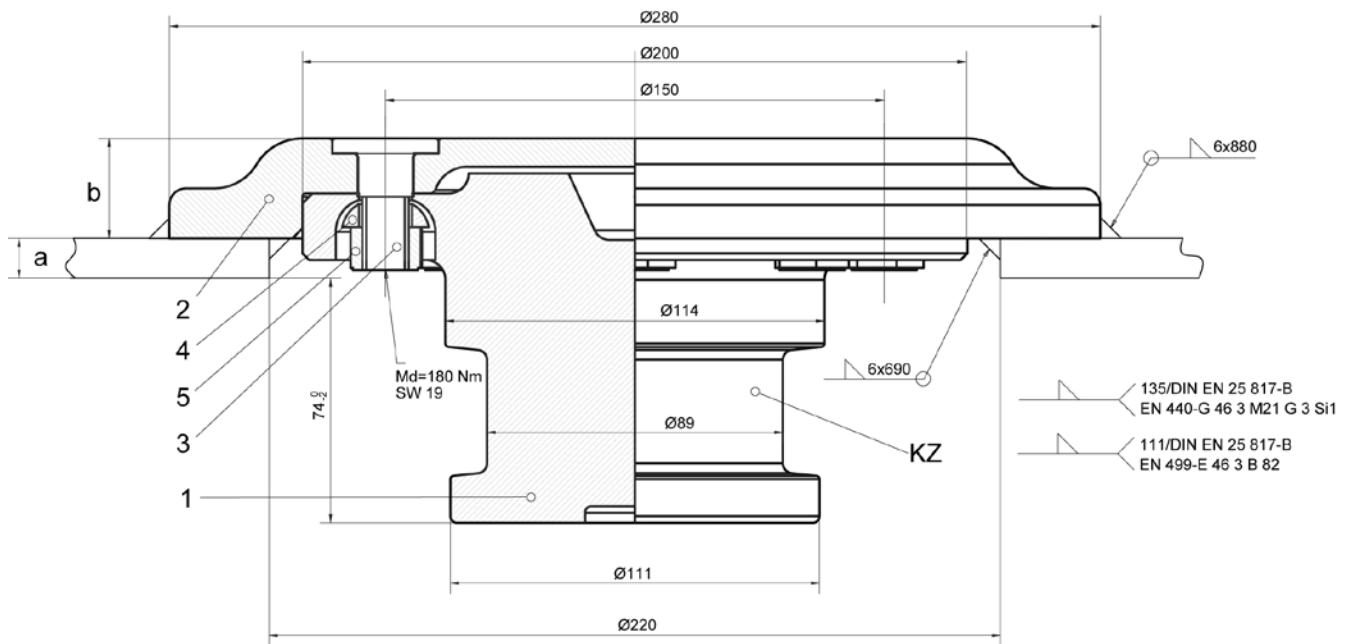
KZ 605, 606, 607

- Diameter (Inch): 3½
- Mounting: flanged wheel stud
- Type: flanged
- Pitch circle diameter (mm): 150
- D-value (kN): 162.4
- Weight (kg): 18.5



Type approval:

- EU-test no.: e11-00-0394



Item	Component (price per piece)	Nominal size	Plate thickness a	Mounting height b	Colour code	Order no.
		inch	mm	mm		
KZ	KZ 607 complete	3½"	8	32 +2/-0	white	662 102 607
KZ	KZ 606 complete	3½"	10	30 +2/-0	blue	662 102 606
KZ	KZ 605 complete	3½"	12	30 +2/-0	yellow	662 102 605
1	Kingpin	3½"				662 102 023
2	Mounting flange for KZ 607		8	32 +2/-0	white	662 102 205
2	Mounting flange for KZ 606		10	30 +2/-0	blue	662 102 204
2	Mounting flange for KZ 605		12	30 +2/-0	yellow	662 102 203
3	Wheel stud (8 per kingpin)					662 102 206
4	Spring washer (8 per kingpin)					662 101 212
5	Flat flange nut (8 per kingpin)					662 101 211

- Kingpins can be replaced from below
- With fitting option of pin 50mm (2") no. 662 102 020

KZ Type 63

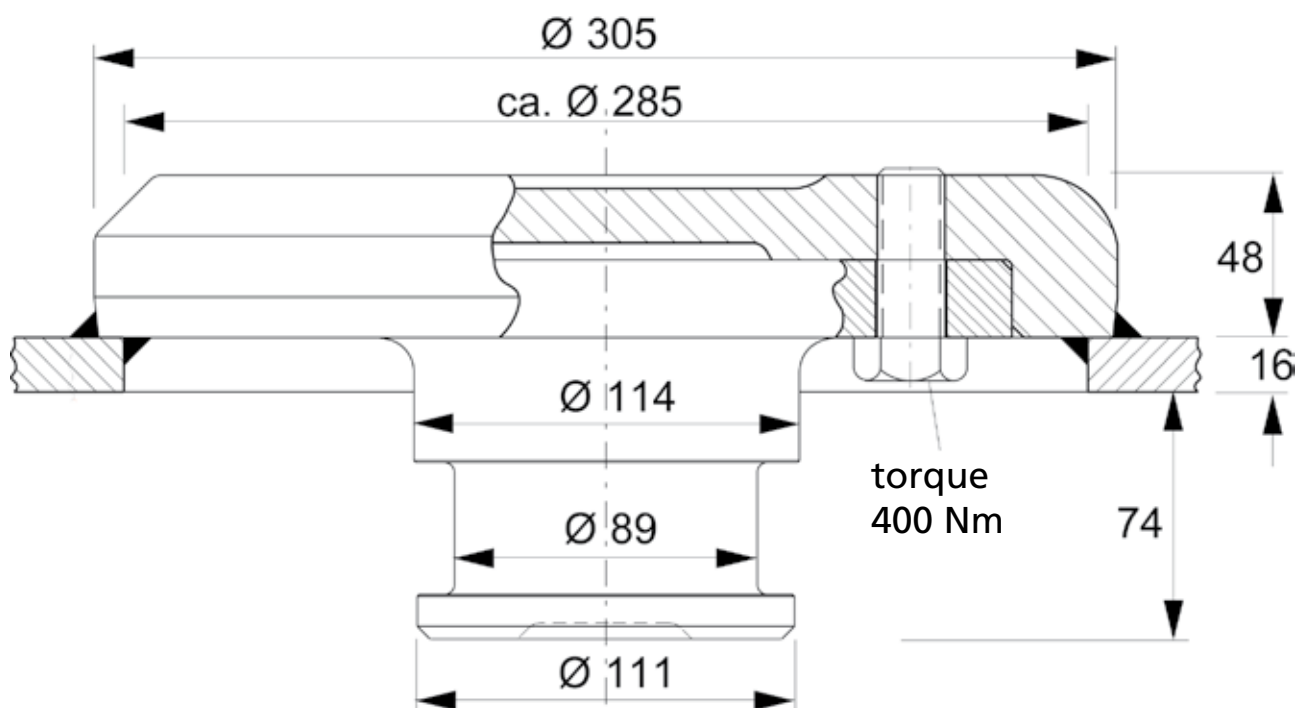
- Diameter (Inch): 3½
- D-value (kN): 200
- 16 mm semi-trailer plate thickness

Type approval:

- EC approved 94/20/EG

Features of Typ 63 - 3½":

- The kingpin is bolted directly into the back plate and can be replaced easily from below.
- Manufactured in accordance with EC 94/20 and DIN 74083 standards.
- Forged material manufactured from high tensile chromium molybdenum steel, heat treated for optimum strength and durability.
- These kingpins are suitable for all types of rear axle steering.



Item	Component (price per piece)	Nominal size	Plate thickness a	Mounting height b	Order no.
		inch	mm	mm	
KZ	KZ type 63 complete 16mm back plate	3½"	16	48	KP-E-63316
1	Kingpin	3½"			XA-E-51363
2	Back plate 16mm semi-trailer plate thickness		16	48	XA-E-52016
3	Bolt (8 per kingpin)				4 343 2073 88

King pin mounting 3½" to 2" KZ Type 66

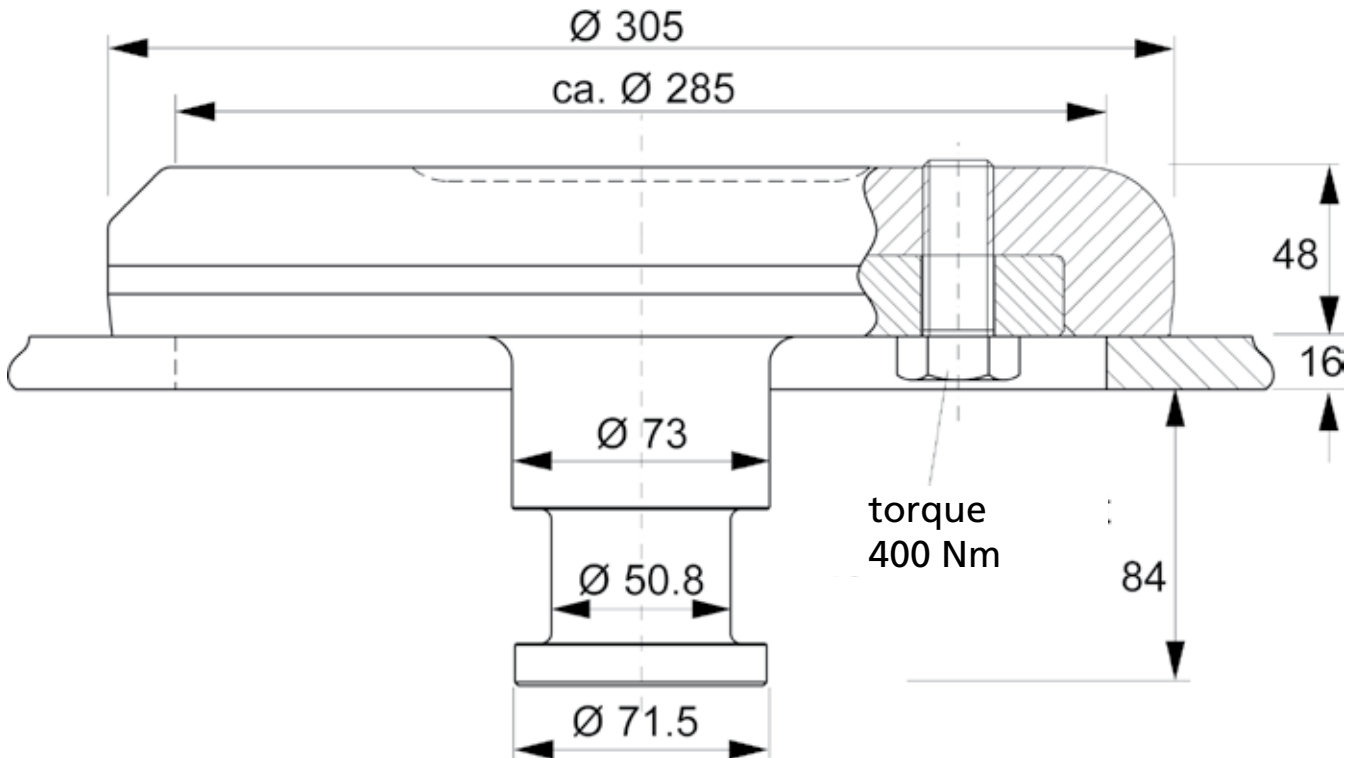
- Diameter (Inch): 2"
- D-value (kN): 150
- 16mm semi-trailer plate thickness

Type approval:

- EC approved 94/20/EG
- e1*94/20*0987

Features of Typ 66 - 2":

- 2" - kingpin mounted in the heavy duty back plate normally used for 3½" king pins.
- The kingpin is bolted directly into the back plate and can be replaced easily from below.
- Manufactured in accordance with EC 94/20, DIN 74080 and ISO 337 standards.
- Forged material manufactured from high tensile chromium molybdenum steel, heat treated for optimum strength and durability.
- These kingpins are suitable for all types of rear axle steering.



Item	Component (price per piece)	Nominal size	Plate thickness a	Mounting height b	Order no.
		inch	mm	mm	
KZ	KZ type 66 complete with 16mm	2"	16	48	KP-E-66216
1	Kingpin	2"			XA-E-51266
2	Back plate - 16mm semi-trailer plate thickness		16	48	XA-E-52016
3	Bolt (8 per kingpin)				4 343 2073 88

KZ Type 67

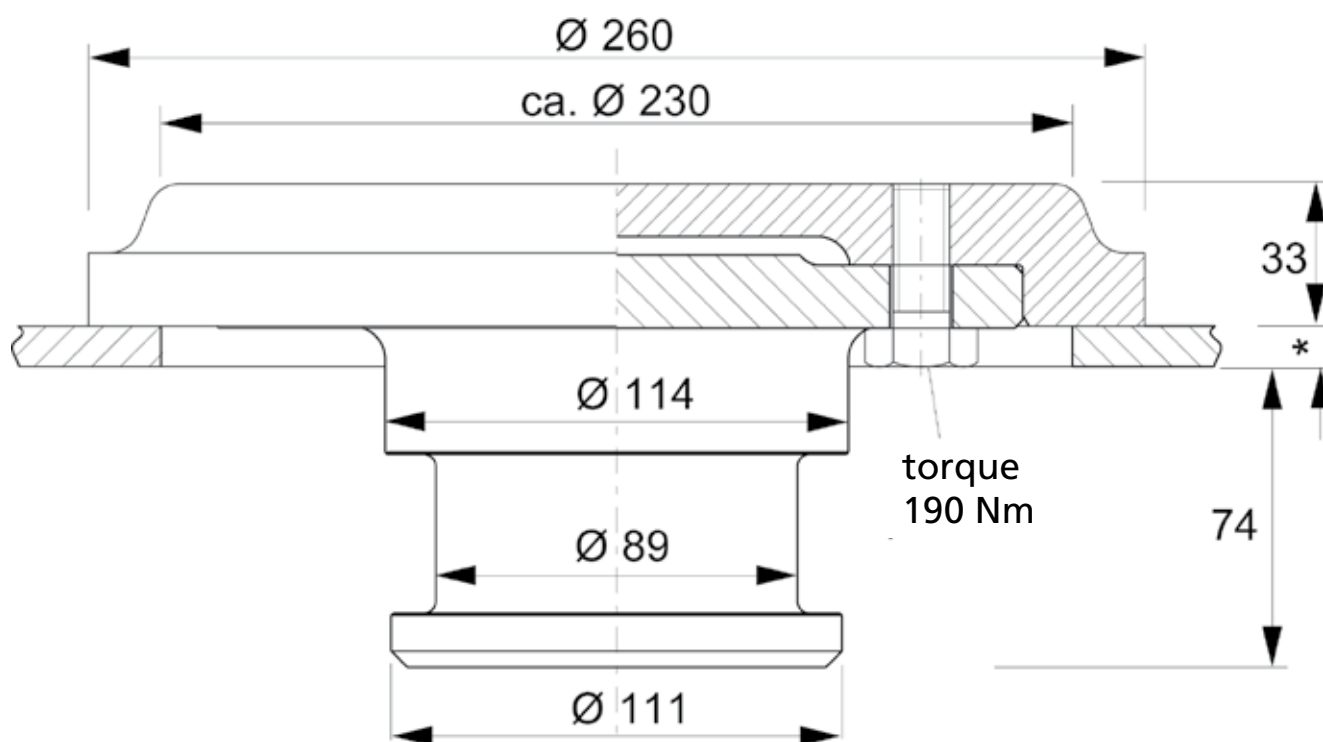
- Diameter (Inch): 3½"
- D-value (kN): 165
- 16, 7, 8, 10, 12mm semi-trailer plate thickness

Type approval:

- EC approved 94/20/EG
- e1*94/20*0988

Features of Typ 67 - 3½":

- 3½" - kingpin mounted into the standard back plate normally used for kingpins.
- The kingpin is bolted directly into the back plate and ca replaced easily from below.
- Manufactured in accordance with EC 94/20, DIN 74083 standards.
- Forged material manufactured from high tensile chromium molybdenum steel, heat treated for optimum strenght and durability.
- These kingpins are suitable for all types of rear axle steering.



Item	Component (price per piece)	Nominal size	Plate thickness a	Mounting height b	Order no.
		inch	mm	mm	
KZ	KZ Type 67 complete 6mm	3½"	6	33	KP-E-67306
KZ	KZ Type 67 complete 7mm	3½"	7	33	KP-E-67307
KZ	KZ Type 67 complete 8mm	3½"	8	33	KP-E-67308
KZ	KZ Type 67 complete 10mm	3½"	10	33	KP-E-67310
KZ	KZ Type 67 complete 12mm	3½"	12	33	KP-E-67312
1	Kingpin	3½"			XA-E-51367
2A	Back Plate - 6mm semi-trailer plate thickness		6	33	XA-E-52206
2B	Back Plate - 7mm semi-trailer plate thickness		7	33	XA-E-52207
2C	Back Plate - 8mm semi-trailer plate thickness		8	33	XA-E-52208
2D	Back Plate - 10mm semi-trailer plate thickness		10	33	XA-E-52210
2E	Back Plate - 12mm semi-trailer plate thickness		12	33	XA-E-52212
3	Bolt (8 per kingpin)				4 343 1059 10

Fitting instructions

Kingpins are vehicle connection components which are subject to type approval and the very highest standards of safety. Modifications of any kind preclude guarantee claims and invalidate product type approval.

In the Federal Republic of Germany, the addition of kingpins is subject to approval under paragraphs 19-21 of the Regulations Authorising the Use of Vehicles for Road Traffic (StVZO).

The semi-trailer plate must be flat and without welding seams or sharp edges. Semi-trailer plates which are not level cause uneven running of the tractor, rolling motion of the semi-trailer and severe wear on the fifth wheel plate, the locking mechanism and the kingpin.

The fifth wheel should be completely covered by the semi-trailer plate in all positions. We recommend bevelling the semi-trailer plates upwards or de-chamfering them steeply at the front, i.e. at the tractor side.

The kingpins comply with the current standards under which the pin must project out of the semi-trailer plate by a tolerated length when fitted. The surface evenness and the thickness of the semi-trailer plate must therefore be checked before fitting.

In the interests of strength we recommend the use of 12 mm thick semi-trailer plates. If thinner plates are used the kingpin must be reinforced accordingly.

Permissible semi-trailer plate thickness tolerances:

- 6 mm +0.3 / -0.5
- 8 mm +0.4 / -0.3
- 10 mm +0.4 / -0.3
- 12 mm +0.2 / -0.5
- 16 mm +0.3 / -0.5

Observe the following welding regulations when welding the mounting flange or conical bushes:

Installation is with continuous welding seams. Use only high-grade additive material.

- Welding process: E II
- Filler metal: VllsDIN 1913
- Welding process: MAG C
- Filler metal: Griduct SV5 green or I Messer Griduct SV4 red J Griesheim or K5 / K52 / K56 (Westf. Union) or E MK7 / E MK6 (Böhler) or equivalent, TÜV-approved products

It must be ensured that both the plate and the mounting of the kingpin are reinforced according to the load and the respective D-value. The kingpins must be inserted centred and flat and their angular seating must be checked. The fitted pins must be protected against weld splashes. After welding all fastening bolts and nuts must be checked for the proper specified tightening torque. This check must also be performed at all future inspections of the vehicle.

The tapered kingpins must be given a proper interference fit (by hammering) and the castellated nut tightened with the specified tightening torque and secured with split pins.

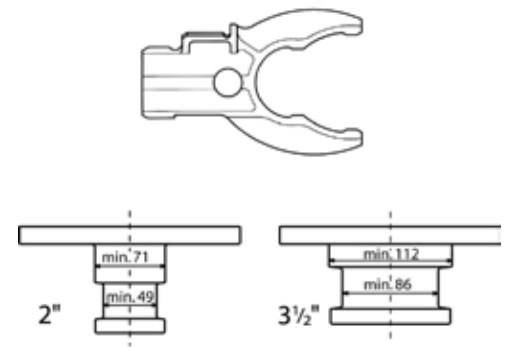
Before putting the semi trailer into service grease the kingpin thoroughly using a long-life, high-pressure grease with molybdenum or graphite additive.

Generous lubrication of the kingpin and the fifth wheel is crucial for the service life of these safety elements.

Reference gauge

The coupling lock and kingpin are subject to a certain amount of wear. Our reference gauges for 2" and 3½" kingpins and fifth wheels facilitate measurement of wear limits. Check the kingpin for deformation and firm seating

If the readings are lower than the limits shown here, the kingpins or wear rings must be replaced by original SAF-HOLLAND parts.



Technical data

Type	Nominal size	Dimensions	Weight	Order no.
	inch			
Reference gauge	2"	166 x 108	0.155	659 920 032
Reference gauge	3½"	222 x 149		659 920 033

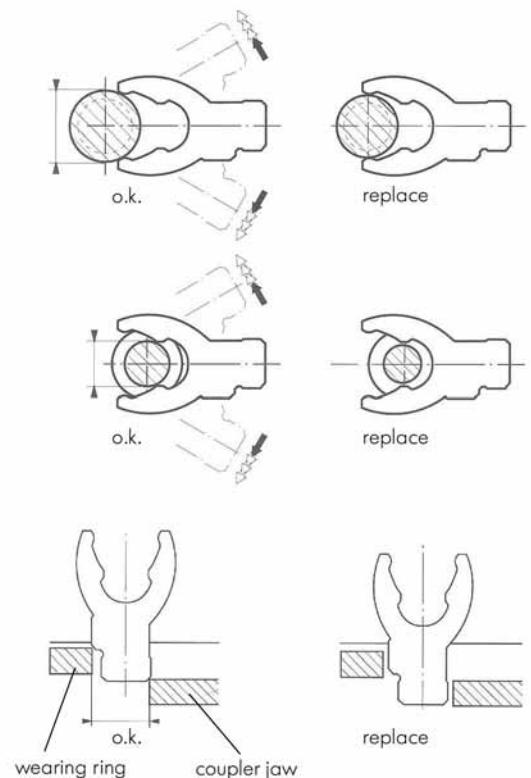
Operating instructions

The gauge surfaces may not slide over the SAF-HOLLAND kingpins. Measure lengthways and crossways, as well as at various heights

After performing these checks, thoroughly coat the semi-trailer plate and the kingpin as well as the top of the fifth wheel plate, the locking mechanism and the wear ring, using a long life, high pressure grease with molybdenum or graphite additive.

At short intervals, but at least at every lubrication servicing of the semi-trailer tractor, the fifth wheel, semi-trailer plate and the kingpin must be recoated with lubricant.

The reference gauge should not be able to slide into the closed fifth wheel locking mechanism from above. Measure lengthways and crossways.



Safety instructions

Before hitching and especially before attaching the semi-trailer for the first time and after each lubrication, ensure that the locking mechanism of the fifth wheel is in the "hitching" position.

After hitching by attaching the carabiner hook or by setting the safety lever (with automatic locking), check whether the locking mechanism is completely closed.

After hitching the fifth wheel

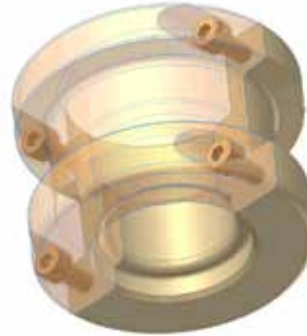
- with carabiner hook: attach it
- with automatic latch: check whether it is engaged and the cam does not protrude next to the operating handle.

Important: Perform PULL TEST in a low gear.

Kingpin adaptor

2" to 3½"

- Kingpin adaptor to couple a 2" kingpin on a 3½" fifth wheel
- Ideal for shunting of different semi-trailer tractors
- The D-value of the 2" kingpin remains unchanged
- **Important:**
The adaptor is suitable for temporary use on private sites only, e.g. on non public park grounds or for short tow runs.

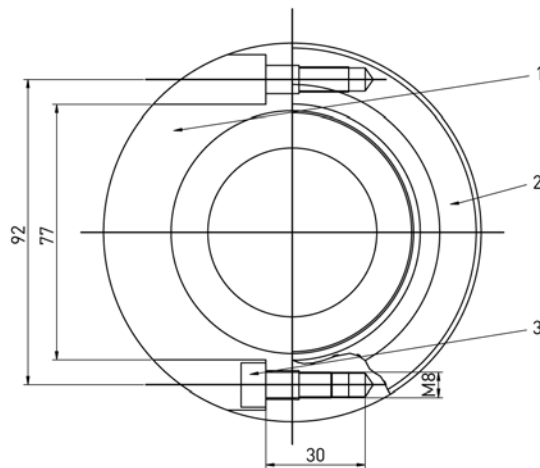
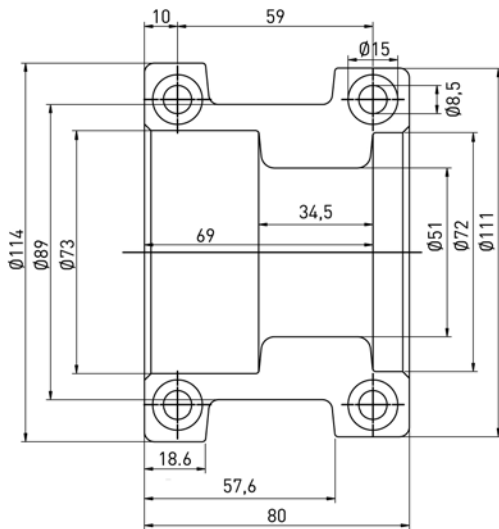


Technical data

Item	Type	Note	Pcs.	Order no.
1-3	Kingpin adaptor 2" on 3½" fifth wheel	Bolts incl.	1	662 101 100
3	Bolts M8x20 8.8-A3C	Torque 23 Nm	4	662 101 380

- Kingpin is not included when ordering the adaptor

Dimensions



Notice

BALL RACES

TÜV-CERTIFIED MOUNTED
PARTS FOR DRAWBAR TRAILERS
AND AGRICULTURAL VEHICLES
OPERATED ON-ROAD



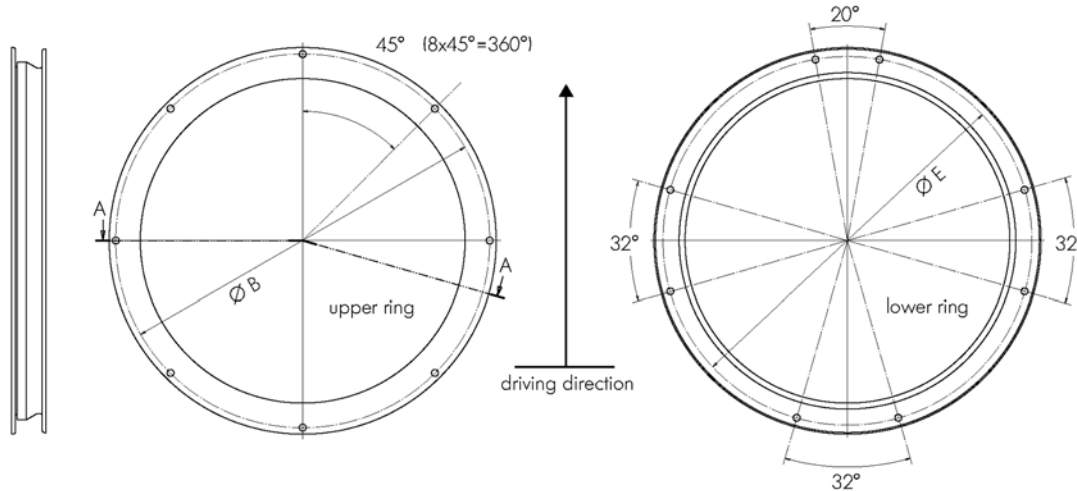
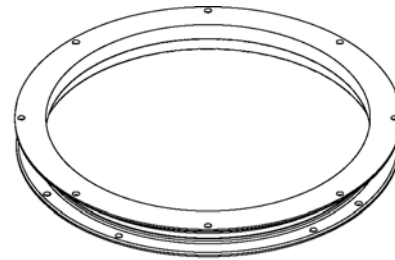
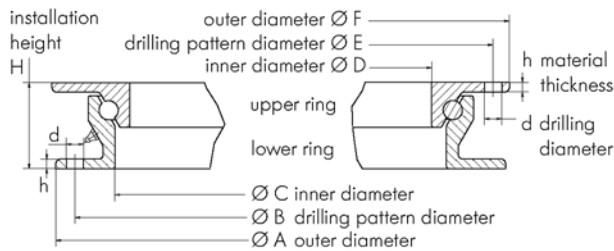
Ball Races for drawbar trailers

SAF-HOLLAND ball races are components for fitting onto trailers and agricultural vehicles operated on-road.

Please follow the specific trailer manufacturer instructions for the operation of the particular vehicle. Compliance with the corresponding national legislation safety standard is required.



Single Row Ball Races STANDARD MAINTENANCE

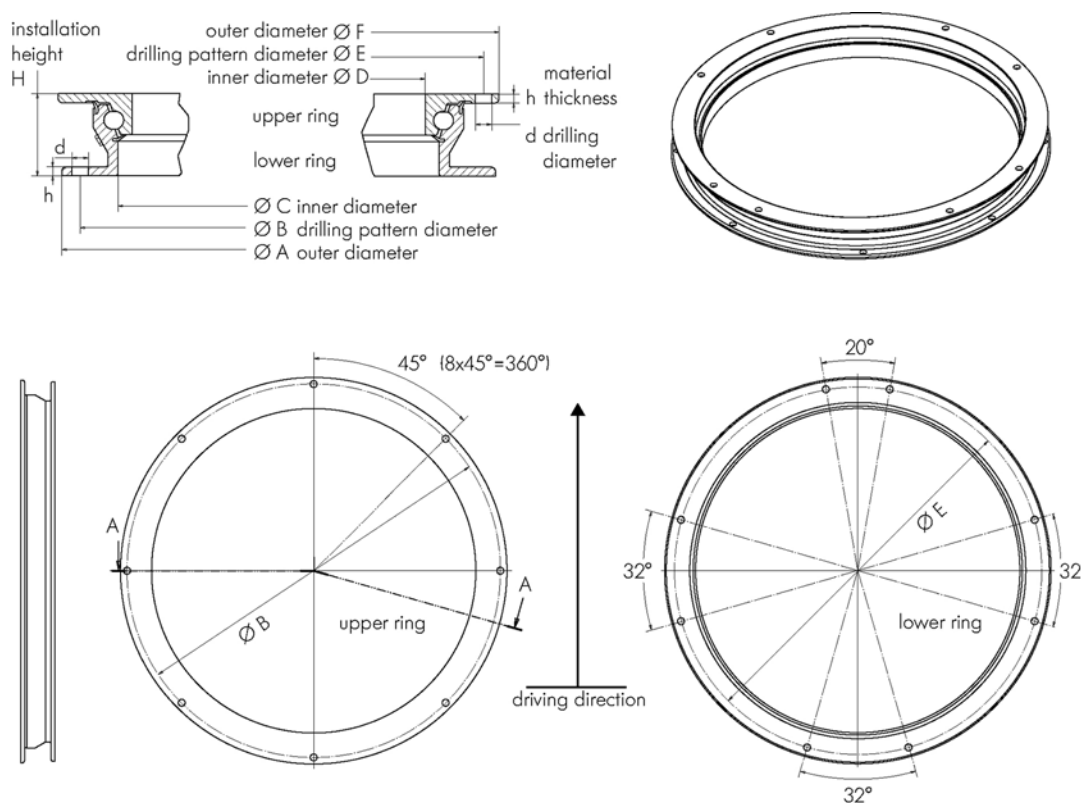


Type	Model	Max. axial load	A	B	C	D	E	F	d	h	H	Weight	Order no.
		t	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
BR-S 8	undrilled	8	1000	960	877	846	974	1008	18	10	90	73	662 106 100
BR-S 10	undrilled	10	1000	960	877	846	974	1008	18	10	90	73	662 106 120
BR-S 10-1	drilled	10	1100	1060	977	946	1074	1108	18	10	90	80	662 106 140
BR-S 12-1	drilled	12	1100	1060	977	946	1074	1108	18	10	90	80	662 106 160
BR-S 13-2	drilled	13	1200	1160	1077	1046	1174	1208	18	10	90	87	662 106 180

- 7 lubrication points with grease nipples
- TÜV approved

Single Row Ball Races LOW MAINTENANCE

The low maintenance ball race series BR-W enjoy a low maintenance life cycle of up to 3 years or 300.000 km
After that period they are to be serviced in the same way as standard ball races.



Type	Model	Max. axial load	A	B	C	D	E	F	d	h	H	Weight	Order no.
		t	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
BR-W 8	undrilled	8	1000	960	877	846	974	1008	18	10	90	73	662 106 110
BR-W 10	undrilled	10	1000	960	877	846	974	1008	18	10	90	73	662 106 130
BR-W 10-1	drilled	10	1100	1060	977	946	1074	1108	18	10	90	80	662 106 150
BR-W 12-1	drilled	12	1100	1060	977	946	1074	1108	18	10	90	80	662 106 170
BR-W 13-2	drilled	13	1200	1160	1077	1046	1174	1208	18	10	90	87	662 106 190

- 7 lubrication points with grease nipples
- TÜV approved

Technical data

The specifications are nominal dimensions and are subject to the tolerances at our works.

Ball races from SAF-HOLLAND are suitable for the installation on the front axle of 2- and 3-axle drawbar trailers with a max. permissible speed of 105 km/h (65mph). On 2-axle-trailers the specified axle loads can be exceeded by 10%, at speeds below 30 km/h (18 mph) by 20%.

Please request the permitted loads for forced steering semi-trailers, giving details of the vehicle used.

All data apply to use on paved roads and standard road conditions in Western Europe.

Notice

LANDING LEG

SAF CLASSIC
NEW TRAILER SUPPORT SYSTEM
ROBUST, ECONOMICAL, FAST



CLASSIC TRAILER SUPPORT SYSTEM

72,000 kg static load
24,000 kg lifting capacity



Compensating Foot

Compensating Foot

Part-No. *	Total Height Extended A (mm)	Mounting Height B (mm)	Travel C (mm)	Location of Brace-Ear D (mm)
3 427 0221 00	1043	716	327	N/A
3 427 0203 00	1107	748	359	N/A
3 427 0224 00	1170	780	390	N/A
3 427 0179 00	1247	818	429	530
3 427 0206 00	1361	875	486	580
3 427 0227 00	1475	932	543	630

Sand Shoe

Part-No. *	Total Height Extended A (mm)	Mounting Height B (mm)	Travel C (mm)	Location of Brace-Ear D (mm)
3 427 0230 00	1025	698	327	N/A
3 427 0233 00	1089	730	359	N/A
3 427 0209 00	1152	762	390	N/A
3 427 0182 00	1229	800	429	530
3 427 0202 00	1343	857	486	580
3 427 0236 00	1457	914	543	630



Sand Shoe

Wheel

Part-No. *	Total Height Extended A (mm)	Mounting Height B (mm)	Travel C (mm)	Location of Brace-Ear D (mm)
3 427 0239 00	1025	698	327	N/A
3 427 0242 00	1089	730	359	N/A
3 427 0214 00	1152	762	390	N/A
3 427 0191 00	1229	800	429	530
3 427 0217 00	1343	857	486	580
3 427 0245 00	1457	914	543	630



Wheel

Rocking Foot

Part-No. *	Total Height Extended A (mm)	Mounting Height B (mm)	Travel C (mm)	Location of Brace-Ear D (mm)
3 427 0248 00	1066	739	327	N/A
3 427 0251 00	1130	771	359	N/A
3 427 0254 00	1193	803	390	N/A
3 427 0188 00	1270	840	429	530
3 427 0257 00	1384	898	486	580
3 427 0260 00	1498	955	543	630



Rocking Foot

* Please note:

Set = pair of right and left.

The cross drive shaft, speed crank (SC), and crank holder are not included and have to be ordered separately. Different variants or foot types are available on request.



- TÜV and European Road Traffic Registration Regulations.
- The Landing Gear should always be operated in accordance with the instructions for the semi-trailer.

TABLE OF PARTS

Compensating Foot

Description	installation height					
	716 mm	748 mm	780 mm	818 mm	875 mm	932 mm
Set*	3 427 0221 00	3 427 0203 00	3 427 0224 00	3 427 0179 00	3 427 0206 00	3 427 0227 00
Leg gearside	3 427 0222 00	3 427 0204 00	3 427 0225 00	3 427 0180 00	3 427 0207 00	3 427 0228 00
Leg w/o gear	3 427 0223 00	3 427 0205 00	3 427 0226 00	3 427 0181 00	3 427 0208 00	3 427 0229 00
Leg w/o foot gearside	4 434 2213 00	4 434 2205 00	4 434 2215 00	4 434 2201 00	4 434 2207 00	4 434 2217 00
Leg w/o foot	4 434 2214 00	4 434 2206 00	4 434 2216 00	4 434 2202 00	4 434 2208 00	4 434 2218 00

Sand Shoe

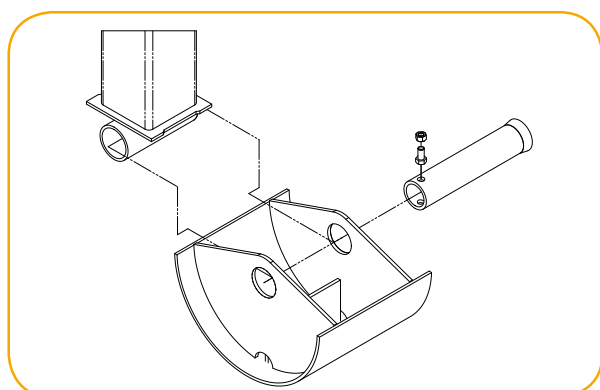
Description	installation height					
	698 mm	730 mm	762 mm	800 mm	857 mm	914 mm
Set*	3 427 0230 00	3 427 0233 00	3 427 0209 00	3 427 0182 00	3 427 0202 00	3 427 0236 00
Leg gearside	3 427 0231 00	3 427 0234 00	3 427 0210 00	3 427 0183 00	3 427 0212 00	3 427 0237 00
Leg w/o gear	3 427 0232 00	3 427 0235 00	3 427 0211 00	3 427 0184 00	3 427 0213 00	3 427 0238 00
Leg w/o foot gearside	4 434 2219 00	4 434 2221 00	4 434 2209 00	4 434 2203 00	4 434 2211 00	4 434 2223 00
Leg w/o foot	4 434 2220 00	4 434 2222 00	4 434 2210 00	4 434 2204 00	4 434 2212 00	4 434 2224 00

Wheel

Description	installation height					
	698 mm	730 mm	762 mm	800 mm	857 mm	914 mm
Set*	3 427 0239 00	3 427 0242 00	3 427 0214 00	3 427 0191 00	3 427 0217 00	3 427 0245 00
Leg gearside	3 427 0240 00	3 427 0243 00	3 427 0215 00	3 427 0192 00	3 427 0218 00	3 427 0246 00
Leg w/o gear	3 427 0241 00	3 427 0244 00	3 427 0216 00	3 427 0193 00	3 427 0219 00	3 427 0247 00
Leg w/o foot gearside	4 434 2219 00	4 434 2221 00	4 434 2209 00	4 434 2203 00	4 434 2211 00	4 434 2223 00
Leg w/o foot	4 434 2220 00	4 434 2222 00	4 434 2210 00	4 434 2204 00	4 434 2212 00	4 434 2224 00

Rocking Foot

Description	installation height					
	739 mm	771 mm	803 mm	840 mm	898 mm	955mm
Set*	3 427 0248 00	3 427 0251 00	3 427 0254 00	3 427 0188 00	3 427 0257 00	3 427 0260 00
Leg gearside	3 427 0249 00	3 427 0252 00	3 427 0255 00	3 427 0189 00	3 427 0258 00	3 427 0261 00
Leg w/o gear	3 427 0250 00	3 427 0253 00	3 427 0256 00	3 427 0190 00	3 427 0259 00	3 427 0262 00
Leg w/o foot gearside	4 434 2219 00	4 434 2221 00	4 434 2209 00	4 434 2203 00	4 434 2211 00	4 434 2223 00
Leg w/o foot	4 434 2220 00	4 434 2222 00	4 434 2210 00	4 434 2204 00	4 434 2212 00	4 434 2224 00

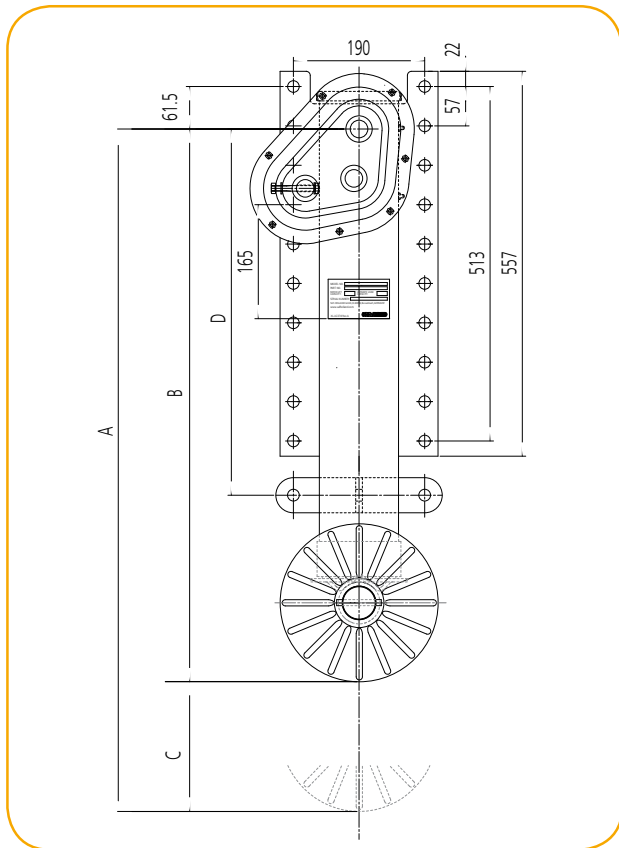
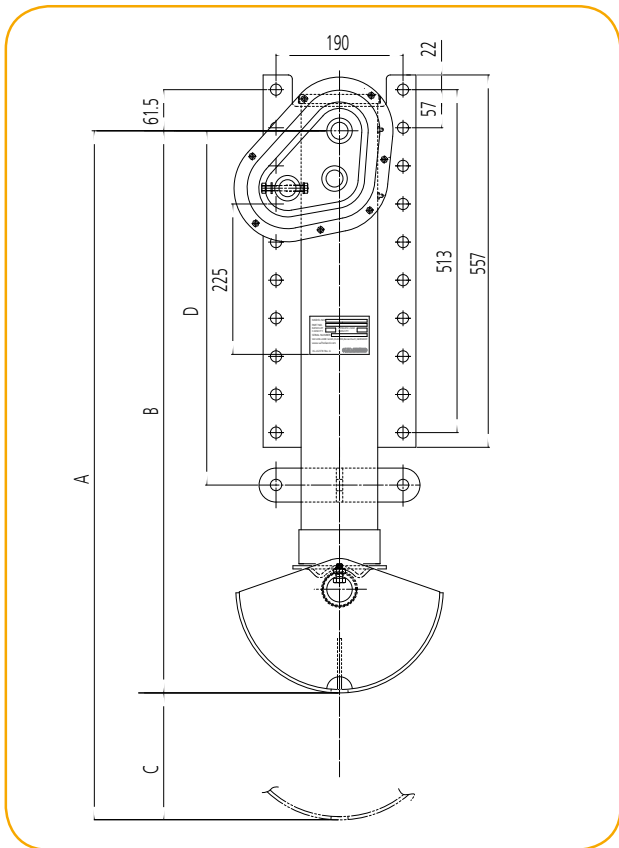
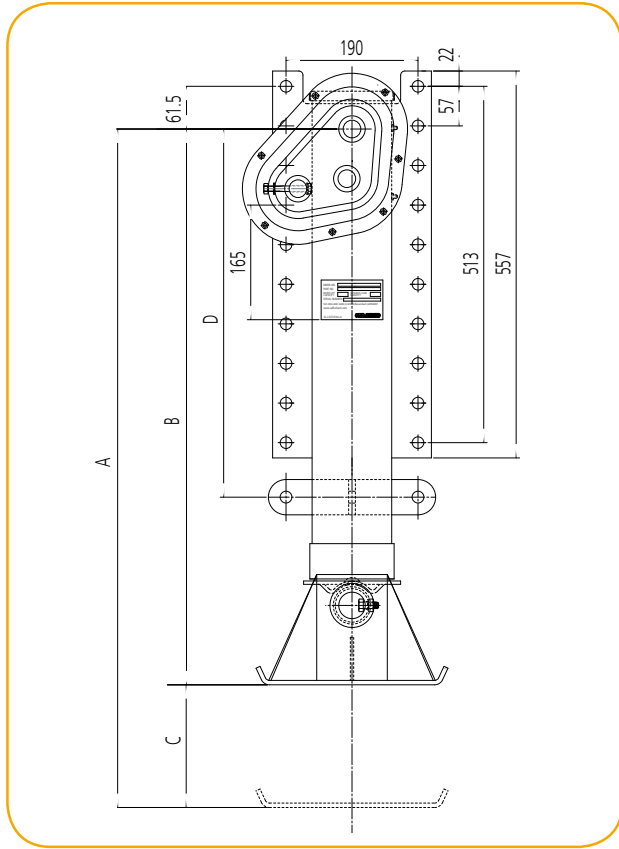
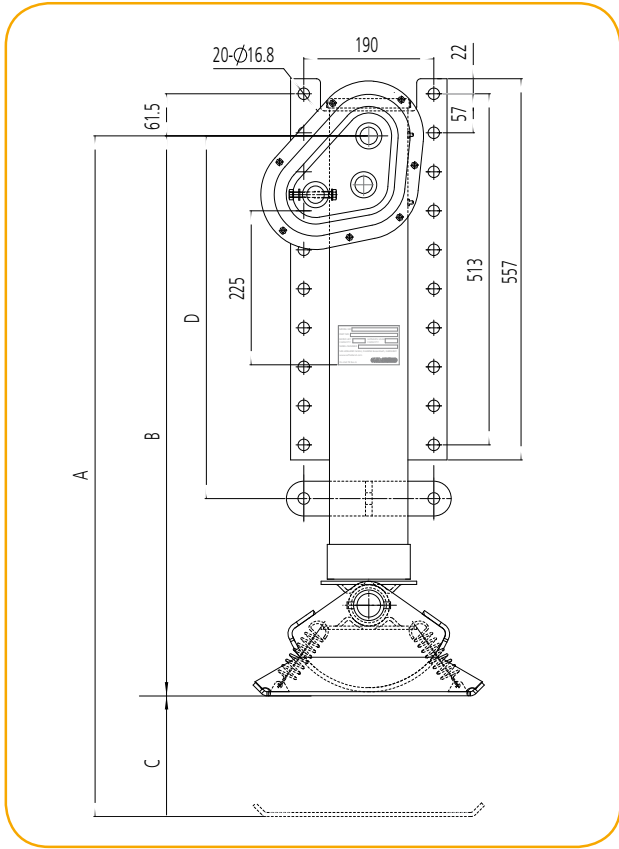


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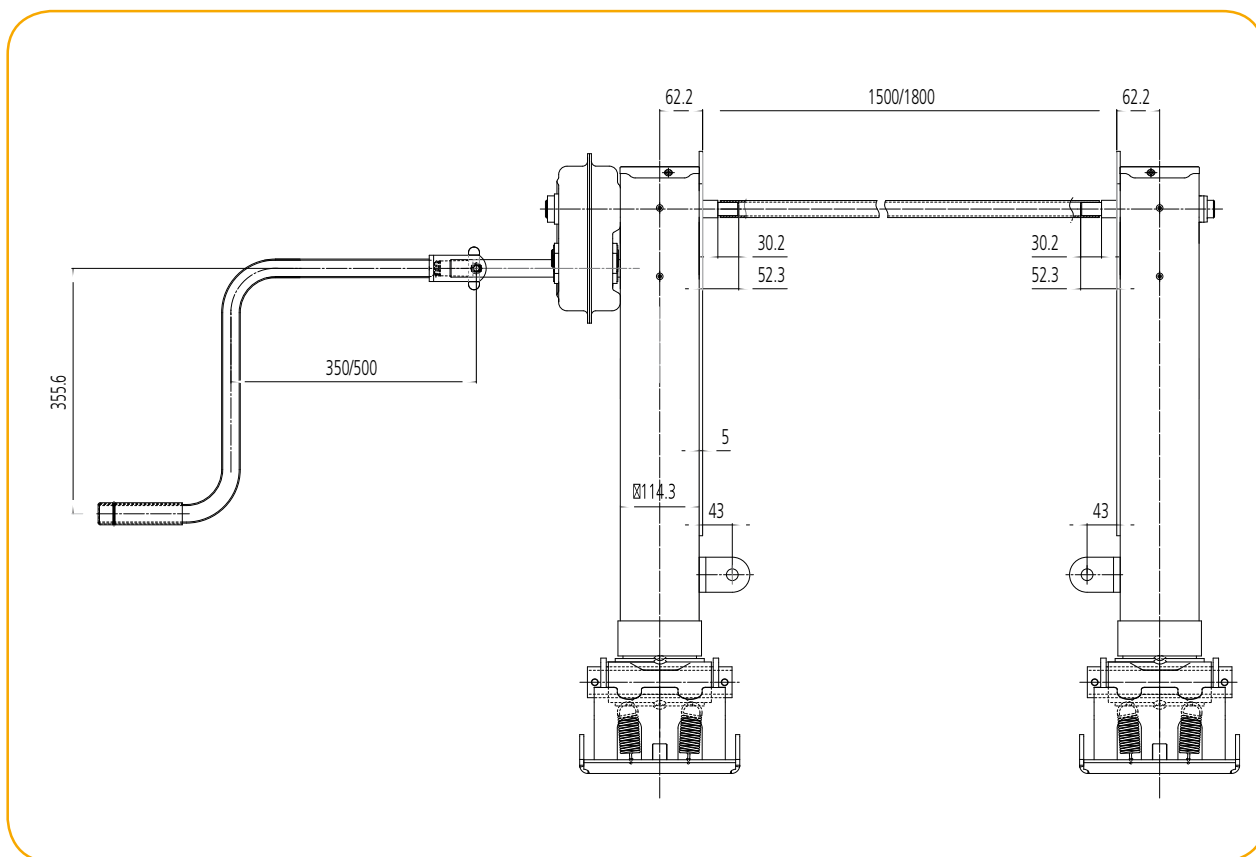
Set = pair of right and left.

The cross drive shaft, speed crank (SC), and crank holder are not included and have to be ordered separately. Different variants or foot types are available on request.

TECHNICAL SPECIFICATIONS



PARTS OVERVIEW



All figures in mm.

SPARE PARTS AND ACCESSORIES

Part No.	Description
3 427 0194 00	Crank 350mm / 14"
3 427 0195 00	Crank 500 mm / 20"
3 427 0198 00	Crank holder – short
XA-60024	Crank holder – long
XA-E-1910	Cross drive shaft 1500 mm
XA-E-1910-1800	Cross drive shaft 1800 mm
3 434 2001 00	Spare part kit "Compensating Foot" including foot mounting parts and accessories
3 434 2002 00	Spare part kit "Sand Shoe" including foot mounting parts and accessories
3 434 2003 00	Spare part kit "Rocking Foot" including foot mounting parts and accessories
3 434 2004 00	Spare part kit "Wheel" including foot mounting parts and accessories

Notice

ORIGINAL TRILEX® WHEEL SYSTEM

UNIVERSAL WHEEL SYSTEM

WHEELSPIDERS

RIMS

ACCESOIRES



TRILEX® - the universal wheel system

The original TRILEX® wheel system is an ideal wheel system for trucks, buses and trailers. Consisting of a TRILEX® wheelspider and detachable rim. Its high-precision, individual sturdy components were developed and tested in close collaboration with vehicle manufacturers.

- Available in sizes 15", 20", 22½" and 24"
- For tubed and tubeless tyres
- For single tyre or twin tyres
- Available for vehicles of all well-known manufacturers



TRILEX® wheels offer features that will reduce your expenses mile after mile.

- Optimum design of wheelspider and rim saves weight and thus increases payload
- Better cooling prolongs the useful life of tyres and brakes
- Lower tightening torque of bolts eases wheel change
- Risk-free tyre change due to 3-piece TRILEX® rim
- Robust design ensures highest safety with additional loads
- Precision machining of wheelspider improves rolling characteristics



Wheelspider with TRILEX rim 15"/20"/24"



Wheelspider with TUBLEX rim 22,5"



Wheelspider with UNILEX rim 20"



for tubed tyres



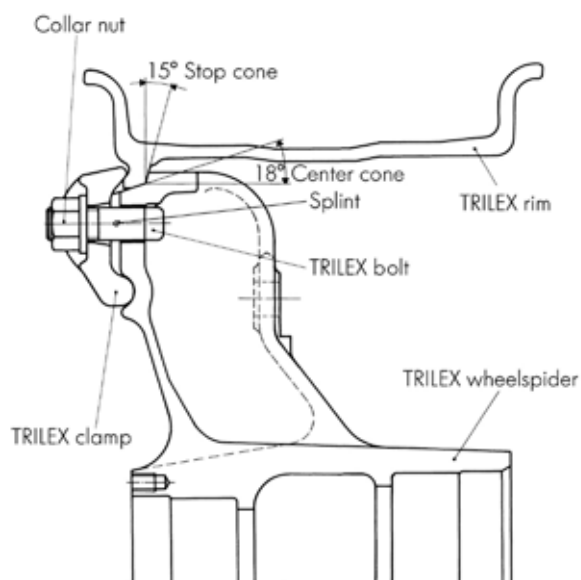
for tubeless tyres



for tubeless tyres

TRILEX® double cone centring

Ensures perfect alignment of rim on the TRILEX® wheelspider.



Note: Rims of 28° cone wheel systems are not interchangeable with the TRILEX® system.

TRILEX® - for tubeless tyres

TUBLEX® drop centre rims for tubeless tyres can be fitted on the same TRILEX® wheelspider and with the same clamps as the TRILEX® rims. The same advantages of TRILEX® are therefore enjoyed when using tubeless tyres.

Important assembly instructions

Before assembly, clean all parts such as spoke heads, rim mounting bevel, bolts and clamps.

To ensure perfect rim alignment and centring, contact surfaces between wheel centre and rim must be free of paint.

Tighten nuts several times in turn, always round the wheel and not crosswise.

On all new vehicles, and following each changeover of wheels, tighten nuts to the specified torque after a brief trial run and then again after a further 50-100 km (30-60 miles). Check the torque from time to time.

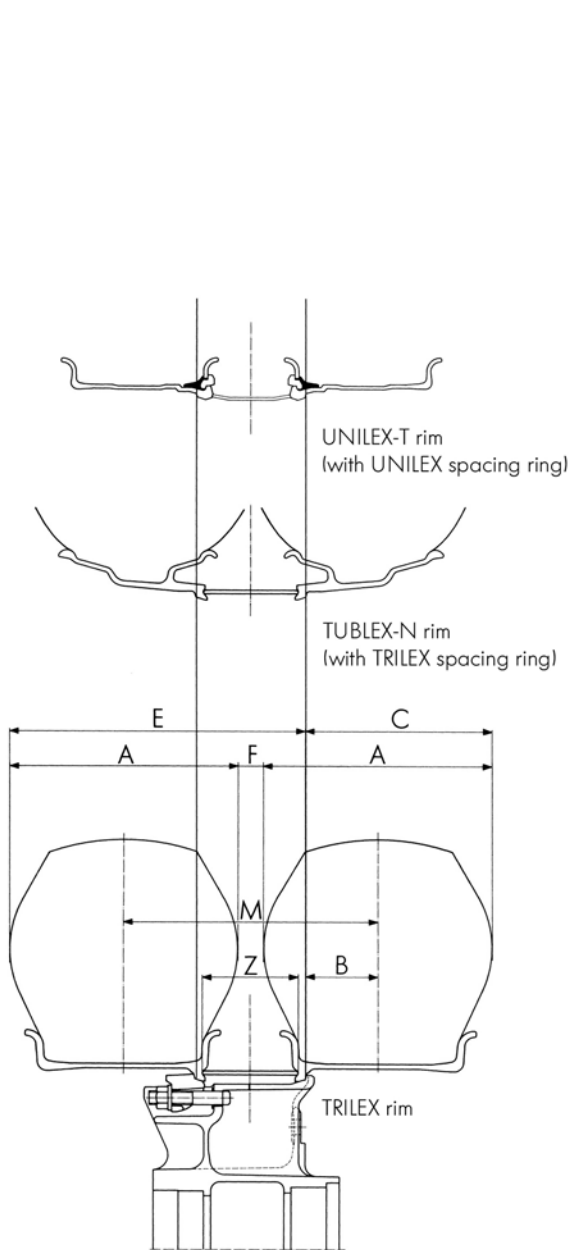
Never repair or weld them.

Use the following torques:

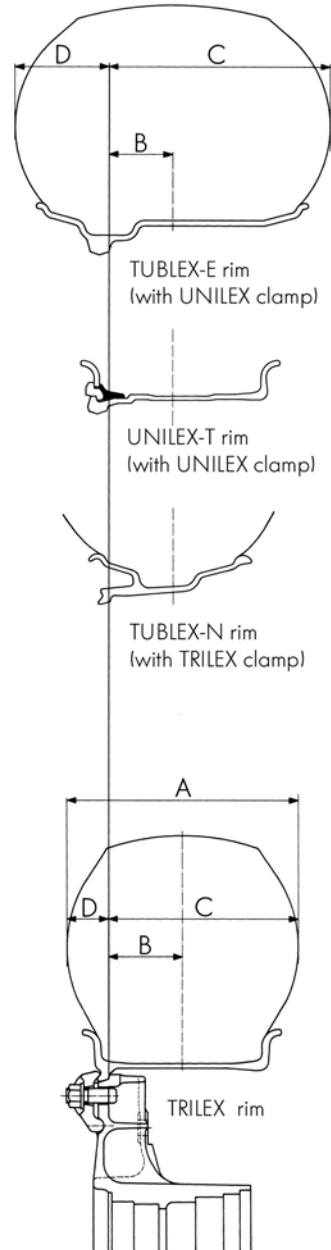
- M18 bolts: 270-300 Nm
- M20 bolts: 320-350 Nm

Tyre and rim combinations

TRILEX standard wheelspider for twin tyres



TRILEX standard wheelspider for single tyre



All rims of TRILEX® wheel systems are designed for the carrying capacity of the corresponding respective tyre. For the tyre carrying capacity and the permissible speed, please refer to the manual of your tyre manufacturer.

TRILEX® rims for tubed tyres

ø	Tyre	Rim	A	B	C	D	E	F	Z	M
Zoll			mm	mm	mm	mm	mm	mm	mm	mm
20"	12.00 R 20	8.5-20	313	98,5	255,0	58,0	414,0	43	139	356
20"	13/80 R 20	8.5-20	321	98,5	259,0	62,0	426,0	43	147	364
24"	12.00 R 24	8.5-24	313	98,5	255,0	58,0	414,0	43	139	356

Subject to modifications in dimensions and design

TUBLEX® -G rims / TUBLEX® -N rims for tubeless tyres

ø	Rim	A	B	C	D	E	F	Z	M
Zoll		mm	mm	mm	mm	mm	mm	mm	mm
22,5"	22.5 x 7.50	254	86,5	213,5	40,5	342,5	48	109	302
22,5"	22.5 x 7.50	255	86,5	214,0	41,0	343,0	47	109	302
22,5"	22.5 x 7.50	267	86,5	220,0	47,0	354,0	40	114	307
22,5"	22.5 x 7.50	268	86,5	220,5	47,5	354,5	39	114	307
22,5"	22.5 x 7.50	271	86,5	222,0	49,0	361,0	41	119	312
22,5"	22.5 x 8.25	275	92,0	229,5	44,5	363,5	43	114	318
22,5"	22.5 x 8.25	276	92,0	230,0	46,0	369,0	47	119	323
22,5"	22.5 x 8.25	279	92,0	231,5	47,5	375,5	49	124	328
22,5"	22.5 x 8.25	290	92,0	237,0	53,0	387,0	44	130	334
22,5"	22.5 x 8.25	291	92,0	237,5	53,5	387,5	43	130	334
22,5"	22.5 x 8.25	292	92,0	238,0	54,0	388,0	42	130	334
22,5"	22.5 x 9.00	298	98,5	247,5	50,5	397,5	49	130	347
22,5"	22.5 x 9.00	300	98,5	248,5	51,5	398,5	47	130	347
22,5"	22.5 x 9.00	305	98,5	251,0	54,0	401,0	42	130	347
22,5"	22.5 x 9.00	312	98,5	254,5	57,5	413,5	44	139	356

Subject to modifications in dimensions and design

TRILEX® wheelspiders

TRILEX® wheels have stood up to the toughest possible operating conditions all over the world and are offered by all of the leading vehicle manufacturers. TRILEX® wheels are engineered to specific axle size in respect to bearings, seals, brakes, track, carrying capacity, etc.

For safety reasons, use exclusively original TRILEX® parts. Our product guarantee becomes invalid if non-original parts are used. Original TRILEX® spare parts can be obtained throughout the world from our branch offices or sales representatives. Please ask us for their addresses.

TRILEX® wheelspiders for twin tyres



Type	Size	Weight	Order no.
	Zoll	kg	
Rear wheelspider	20	57,0	604 107 434
Trailer wheelspider	20	48,0	604 110 616
Trailer wheelspider	24	55,0	604 110 682
Trailer wheelspider	24	64,5	604 110 686
Trailer wheelspider	20	46,0	604 110 702
Trailer wheelspider	24	64,0	604 110 704
Trailer wheelspider	20	45,0	604 202 134
Trailer wheelspider	20	44,0	604 202 194
Trailer wheelspider	24	63,0	604 202 198
Trailer wheelspider	24	55,0	604 202 222
Trailer wheelspider	24	61,0	604 202 224
Trailer wheelspider	20	36,0	604 202 254
Trailer wheelspider	20	39,0	604 202 260
Trailer wheelspider	24	65,0	604 202 268
Trailer wheelspider	20	57,0	604 202 270
Trailer wheelspider	24	54,0	604 202 304
Trailer wheelspider	24	50,0	604 233 020
Trailer wheelspider	24	48,0	604 233 068
Trailer wheelspider	20	34,0	604 233 508

TRILEX® wheelspiders for single tyres



Type	Size	Weight	Order no.
	Zoll	kg	
Front wheelspider	20	31,0	604 105 507
Front wheelspider	20	31,0	604 105 511
Front wheelspider	24	46,4	604 155 203
Front wheelspider	20	35,0	604 155 207
Front wheelspider	20	32,0	604 155 215
Front wheelspider	20	37,5	604 155 217
Front wheelspider	24	46,0	604 155 219
Front wheelspider	20	36,0	604 202 201
Front wheelspider	20	35,5	604 202 223

TRILEX® adaptors

Vehicles equipped with disc wheels can be changed over to the TRILEX® wheel by means of TRILEX® adaptors (20" and 24"). Selection of the suitable adaptor depends on: type of vehicle and/or axle, track, tyres used, profile of brake drum and fixation (centring). Our technical customer service representatives will be glad to assist you.

TRILEX® wheel adaptor for twin tyres



Type	Size	Weight	Order no.
	Zoll	kg	
Rear wheel adaptor	20	36,0	604 260 154
Rear wheel adaptor	20	35,5	604 260 160
Rear wheel adaptor	24	44,0	604 260 174
Rear wheel adaptor	20	54,0	604 260 188
Rear wheel adaptor	20	37,0	604 260 212
Rear wheel adaptor	24	44,0	604 260 232
Rear wheel adaptor	20	41,0	604 260 234
Rear wheel adaptor	20	34,0	604 260 236
Rear wheel adaptor	24	43,0	604 260 240
Rear wheel adaptor	24	49,0	604 260 280
Rear wheel adaptor	24	45,5	604 260 282

Subject to modifications in dimensions and design

TRILEX® -wheel adaptor for single tyres



Type	Size	Weight	Order no.
	Zoll	kg	
Front wheel adaptor	24	22,0	604 260 181
Front wheel adaptor	20	13,0	604 260 191
Front wheel adaptor	20	14,0	604 260 195
Front wheel adaptor	24	23,0	604 260 197
Front wheel adaptor	20	17,0	604 260 199
Front wheel adaptor	24	22,0	604 260 205
Front wheel adaptor	20	16,0	604 260 315
Front wheel adaptor	20	17,5	604 260 325
Front wheel adaptor	24	23,0	604 260 333
Front wheel adaptor	20	15,7	604 260 351

Subject to modifications in dimensions and design

Rims

TRILEX® wide base rims

Segmented rim for tyres with tubes for mounting on TRILEX® wheelspiders.



ø	Type	Weight	Spare part	Order no.
Zoll		kg	für	
20"	8.5-20	38,5	81T850	650 410 355
24"	8.5-24	46,5	81T854	650 410 357

Subject to modifications in dimensions and design

TUBLEX® -N drop centre rims (tubeless)

15° drop centre rim for tubeless tyres for mounting on TRILEX® wheelspiders. Made of rolled strip steel.

Fastening parts: The same fastening parts (clamps, bolts, spacing rings, etc.) can be used for TUBLEX® -N rims as are used for TRILEX® rims.



ø	Type	Weight	Order no.
Zoll		kg	
22.5"	22.5 x 7.50	33,5	650 511 833
22.5"	22.5 x 8.25	36,0	650 511 836
22.5"	22.5 x 9.00	36,0	650 511 839

Spacing rings

Spacing rings for TRILEX® -rims



ø	Type	Width	Weight	Spare part	Order no.
Zoll		mm	kg	für	
20"	Spacing ring	114	7,6	656102040	656 062 040
20"	Spacing ring	130	8,3	656042046	656 062 046
20"	Spacing ring	139	8,7	656042049	656 062 049
24"	Spacing ring	130	10,7	656042446	656 062 446
24"	Spacing ring	139	11,2	656042449	656 062 449
24"	Spacing ring	147	11,7	656042451	656 062 451

Subject to modifications in dimensions and design

Clamps

For TRILEX and TUBLEX rims



Type	Weight	Order no.
	kg	
Clamping plate	0,660	659 002 193
Clamping plate	0,700	659 002 201
Clamping plate	0,850	659 002 215
Clamping plate	0,860	659 002 216
Clamping plate	0,500	659 002 101
Clamping plate	0,520	659 002 098
Clamping plate	0,550	659 002 074
Clamping plate	0,600	659 002 169
Clamping plate	1,400	659 002 114
Clamping plate	0,725	659 002 117
Clamping plate	0,926	659 002 141

For UNILEX and TUBLEX-E rims (double cone)

Type	Weight	Order no.
	kg	
Clamping plate	0,600	659 002 199
Clamping plate	0,650	659 002 224
Clamping plate	0,430	659 002 069
Clamping plate	0,473	659 002 136

For single tyre 15" wheelspiders

Type	Weight	Order no.
	kg	
Clamping plate	0,500	659 002 182
Clamping plate	0,630	659 002 053

For 20" wheelspiders and wheel adaptors

Type	Weight	Order no.
	kg	
Clamp	0,650	659 002 171
Clamp	0,850	659 002 212
Clamp	1,250	659 002 161

For 24" wheelspiders and wheel adaptors

Type	Weight	Order no.
	kg	
Clamp	0,650	659 002 171

For 20" wheel adaptors with part no.s 604 260 070/ 074/ 076/ 078

Type	Weight	Order no.
	kg	
Clamp	0,630	659 002 126
Clamp	0,610	659 002 153

For 15" wheelspiders

Type	Weight	Order no.
	kg	
Clamp	0,640	659 002 180

Nuts and sundries for TRILEX® wheels

Flange nut (3 cams) for TRILEX® M20 bolts



Type	Model	Order no.
Flange nut	M20 x 2	659 115 304

Flange nut (6 cams) for TRILEX® cup head bolts and TRILEX® M18 bolts



Type	Spare part für	Model	Order no.
Flange nut	78T08, 151-12	M18 x 2	659 115 300

Washer



Type	Model	Order no.
Washer	34 x 20 2.5	659 120 228

Spring clip



Type	Order no.
Spring clip	659 130 017

Protection cap



Type	Order no.
Protection cap	659 001 006

Bolts

TRILEX® cup head bolt M18 x 2



Type	Shaft length	Weight	Spare part	Order no.
	mm	kg	für	
M18 x 2	48	0,130	12485	659 112 477
M18 x 2	52	0,144	12486	659 112 468
M18 x 2	55	0,148	12497	659 112 438
M18 x 2	60	0,154	59T46, 12487	659 112 450
M18 x 2	65	0,170	59T47, 12488	659 112 451
M18 x 2	70	0,177	12489	659 112 448
M18 x 2	75	0,184	59T48	659 112 452
M18 x 2	80	0,192	59T54, 12490	659 112 453
M18 x 2	95	0,218	59T49, 12491	659 112 454
M18 x 2	110	0,248	59T59, 12492	659 112 455
M18 x 2	125	0,274	59T60, 12493	659 112 456
M18 x 2	140	0,296	59T61	659 112 457
M18 x 2	155	0,320	59T62	659 112 444

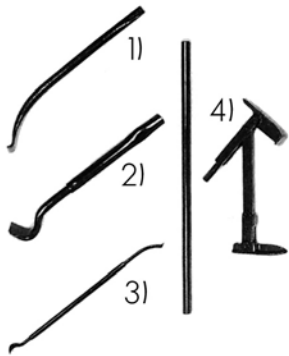
TRILEX® bolt M20 x 2



Type	Shaft length	Weight	Spare part	Order no.
	mm	kg	für	
M20 x 2	57	0,200	12504, 112615	659 112 616
M20 x 2	80	0,245	12509	659 112 617
M20 x 2	100	0,293	12502	659 112 611
M20 x 2	115	0,324	12501	659 112 612
M20 x 2	130	0,358	12503	659 112 613
M20 x 2	145	0,394	12508	659 112 614

Tools

For mounting of TRILEX® -rims



Item	Type	Weight	Order no.
		kg	
1	Rim assembling lever	0,8	659 800 006
2	Rim dismantling lever	1,0	659 800 007
3	Combination lever	3,1	659 800 008
4	Dismantling device for 20" -24"	9,2	659 801 006

For mounting of TUBLEX® -G and -N rims



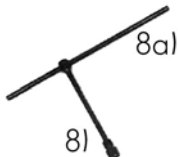
Item	Type	Weight	Order no.
		kg	
6	Double-ended lever (2)	2,0	659 800 000

For mounting of TUBLEX® -E-rims



Item	Type	Weight	Order no.
		kg	
7	Double-ended lever	2,0	659 800 000

For assembly of wheelspiders and rims



Item	Type	Weight	Order no.
		kg	
8	Socket wrench	1,2	659 800 038
8a	Mandrel	1,2	659 800 039

For mounting of tyres



Type	Weight	Order no.
	kg	
Mounting lubricant	5,0	659 144 002

Valves for TUBLEX® and UNILEX® rims

Valve for hole 10 (9.7) mm

Type: straight



Type	Suitable for rim	Order no.
41 MS/9.7	TUBLEX 11.75 - 650 511 905	659 142 048

Valve for hole 10 (9.7) mm

Type: curved



Type	Suitable for rim	Order no.
102 MS/9.7	TUBLEX-N 7.50 - 650 511 833	659 142 043
119 MS/9.7	TUBLEX-N 8.25 - 650 511 836	659 142 044
133 MS/9.7	TUBLEX-N 9.00 - 650 511 839	659 142 045
80 MS/9.7	TUBLEX-N 7.50 - 650 511 911	659 142 056
80 MS/9.7	TUBLEX-N 8.25 - 650 511 914	659 142 056
80 MS/9.7	TUBLEX-N 9.00 - 650 511 913	659 142 056

Valve for hole 20.5 mm

Type: straight



Type	Suitable for rim	Order no.
120 MSF/20.5/C4	UNILEX 10.00V - 650 311 235	659 142 029
120 MSF/20.5/C4	UNILEX-T 8.50 - 650 311 231	659 142 029



SAF's history begins in 1881 in a village forge in Germany with the invention of a new plough. The family business soon starts building steel axles for agricultural vehicles, and under the name Otto Sauer Achsenfabrik (SAF) develops into one of the leading manufacturers of trailer axles and suspension systems in Europe.

A safety coupling between plough and horse team can be found at the beginning of Holland's history. The Safety Release Clevis Company was founded in South Dakota, USA, in 1910. After its move to Holland, Michigan, the company emerges as one of the largest supplier companies to the commercial vehicles industry under the name The Holland Hitch Company.

The merger of the two companies to form SAF-HOLLAND in 2006 creates one of the leading global suppliers of high-quality components and services for the commercial vehicle industry. Alongside axle and suspension systems for trailers and semi-trailers, the product range also includes kingpins and landing gear as well as fifth wheels for tractors, air suspensions, coupling products and numerous other components for buses and trucks.

In 2008, SAF-HOLLAND takes over Georg Fischer Verkehrstechnik, a leading supplier to the commercial vehicle industry, expanding its product range with GF fifth wheels and kingpins as well as the TRILEX wheel system and accessories for tractors, semitrailers and trailers.

Today the SAF-HOLLAND group is represented on all continents and distributes its products and services worldwide under the brand names SAF and HOLLAND as well as GF, TRILEX and NEWAY. It possesses its own distribution network with global service and dealer locations.

HIGH QUALITY COMPONENTS AND SYSTEMS FOR THE COMMERCIAL VEHICLE INDUSTRY



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