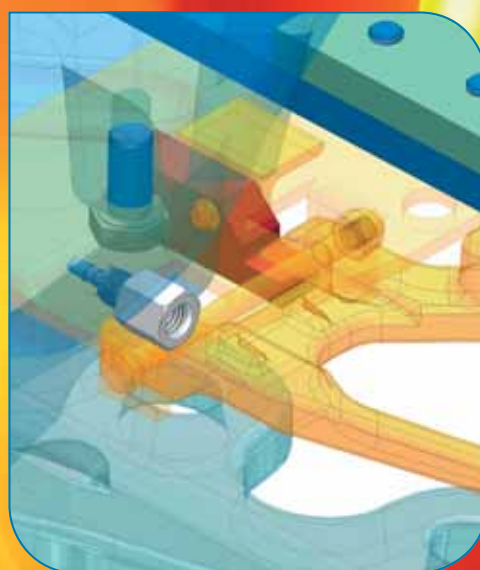




## Product catalogue 2006 / 2007

Systems and components  
for modern commercial  
vehicles





# Product catalogue 2006 / 2007

We are pleased to present our new product catalogue. The current catalogue shows our range of products and the corresponding spare parts. Special models are available on request.

As one of the largest European suppliers to car and commercial vehicle manufacturers, the name GF Automotive and in particular Georg Fischer Verkehrstechnik is synonymous with quality and safety in road transport.

Fifth wheels and TRILEX® wheels are produced in our own German foundries using modern technology and state-of-the-art casting techniques.

In addition to our established products, we would like to present our latest product, the first automatic container locking mechanism, RECOLOCK®. Information about this product can be found in the chapter entitled RECOTEC®.

Further information about our company and product range as well as the online catalogue in various languages can be found on our homepage: [www.vkt.georgfischer.com](http://www.vkt.georgfischer.com). If desired, the catalogue is also available on CD-ROM at request.

Products and spare parts can be purchased directly from national dealers and agents. The contact addresses are listed in the catalogue and on our website.

Georg Fischer Verkehrstechnik GmbH

*B. Frauenfelder*

Beat Frauenfelder  
Managing director



**NEW**  
Fifth wheels

5



Mounting plates

75



**NEW**  
Slider

81



Airflex / Lectorflex

92



Anti-theft lock

96



Steering wedge

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**NEW**  
RECOLOCK®

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TRILEX®-wheel system

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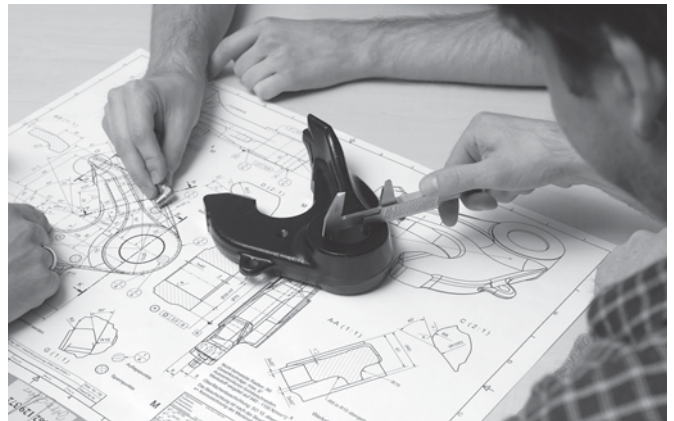
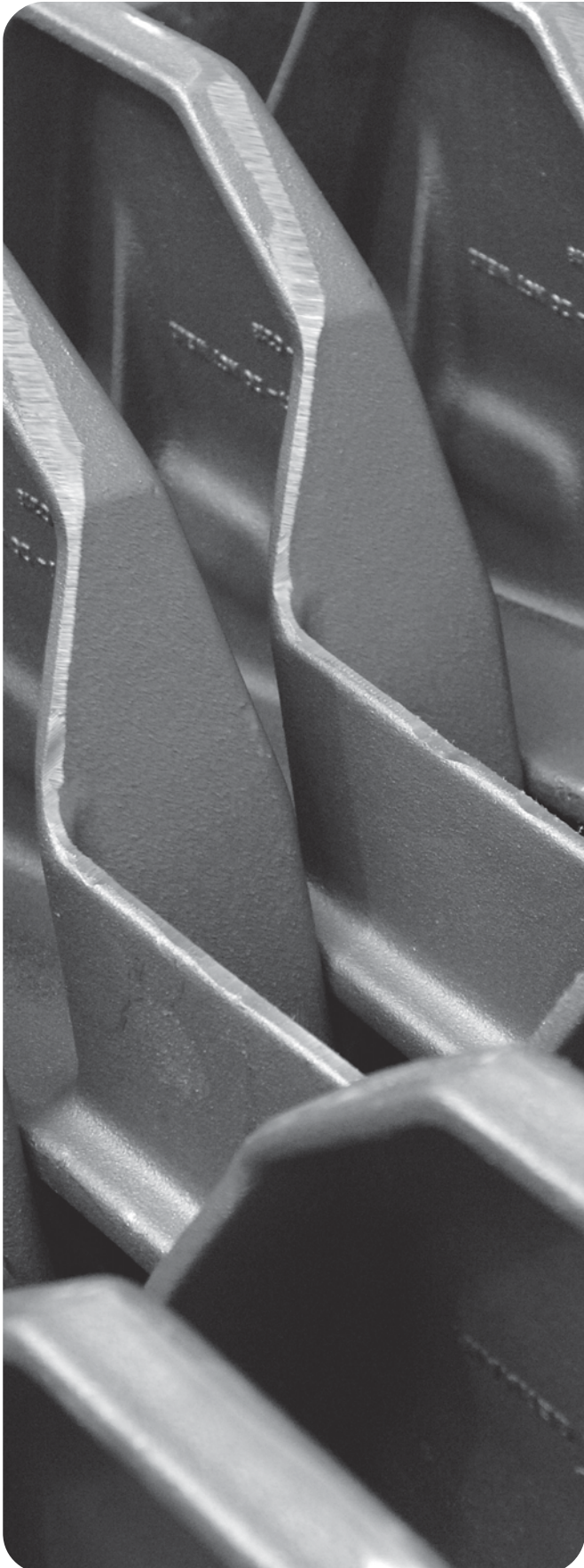
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# Georg Fischer Verkehrstechnik

## Competence in transport engineering



## Fifth Wheels

### Mobility

People are increasingly mobile, and they have ever greater demands for comfort and safety in their vehicles. With its highly stressable cast parts made of light metal and iron, GF Automotive makes it possible to build commercial vehicles that are both light-weight and safe.

# Georg Fischer Fifth Wheels are always in the Plus



## Fifth wheels - Key components of modern commercial vehicles

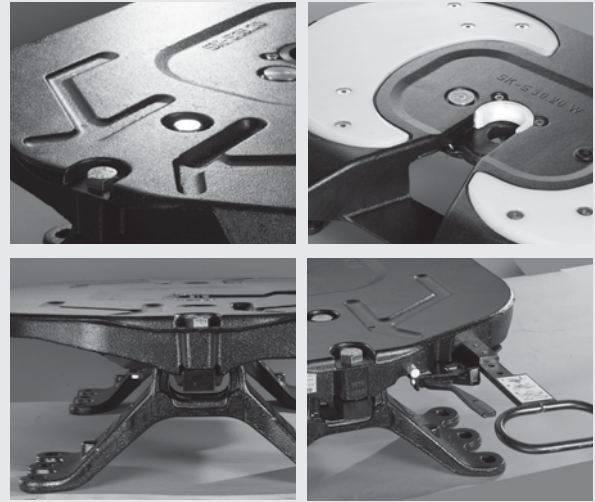
Did you know that a truck has five wheels? However, the so-called fifth wheel is of much greater importance than one would suppose: This key component is the only mechanical link between semi-trailer and tractor. The task of the fifth wheel, in conjunction with the kingpin is to ensure a positive connection between the tractor and trailer, that can withstand all of the forces and the relative turning and torsional movements in the combination.

Georg Fischer fifth wheels have a long service life, low-maintenance requirement, are easy to operate and relatively light. They weigh about 30 kilograms less than comparable products on the market. The few wearing parts of the fifth wheel are made from high-strength materials; if required, they can be replaced within about 20 minutes. The spheroidal graphite cast iron fifth wheels are available for kingpins with 2 or 3.5 inch diameter with imposed loads between 3000 and 36 000 kilograms. They are available in various mounting heights. Dual height and slider versions are available. With its low-maintenance design, Georg Fischer supports the efforts of fleet managers to reduce the maintenance costs for their trucks and protect the environment.

### The Fifth wheels leading light

All over the world, commercial vehicle manufacturers are continuously striving to make the main components of their vehicles lighter to save fuel and increase payload. Cast components offer such opportunities.

The optimised spheroidal graphite cast iron SK-S 36.20 PLUS fifth wheel is 8 kilograms lighter. The Plus is the lightest approved 20-ton fifth wheel of its category. Plus also stands for a number of options, such as the RECOSS® safety system. The operation and status of the fifth wheel is monitored with sensors.



## Instruction

Specifications regarding load capacity are applicable for operation on sealed roads and transport conditions common to central Europe. Please consult us if operating conditions differ.

We reserve the right to make modifications in dimensions and design if necessary.

Additional product designs and versions are available. We will gladly provide assistance in selecting and composing your order.

## Mounting

Observe instructions provided by Georg Fischer and the vehicle manufacturer as well as all relevant laws and regulations. Fifth wheels may be subject to approval by a governmental body!

## Operation and maintenance

Follow operating instructions as provided by Georg Fischer and affixed to the fifth wheels.

## Original repair kits

All of the movable wear-parts in the fifth wheels are quickly and easily replaced. Use only original Georg Fischer spare parts, available as purpose made repair kits designed to fit the corresponding type of fifth wheel.



# 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

#### Automatic locking

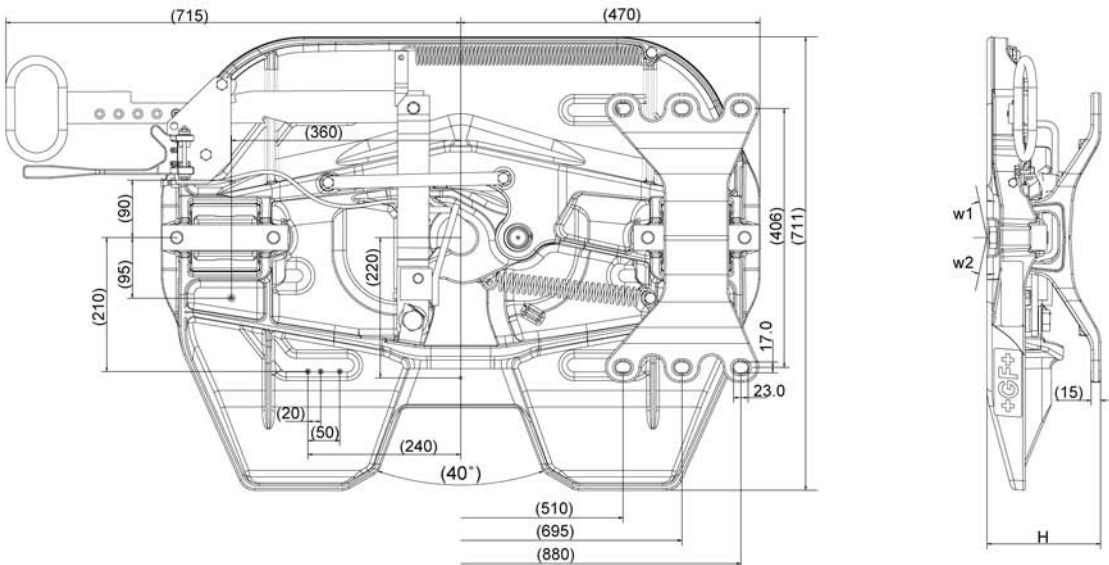
| Type            | Lock size | Overall height | Imposed load | D-value | Weight | Angle of inclination | Order no.   |
|-----------------|-----------|----------------|--------------|---------|--------|----------------------|-------------|
|                 | inch      | mm             | t            | kN      | kg     | degree (w1/w2)       |             |
| SK-S 36.20 PLUS | 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 |

#### Locking with carabiner hook

| 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 | 2"        | 128*           | 20           | 152     | 116    | 8° / 8°              | 662 129 026 |
| SK-S 36.20 PLUS | 2"        | 150            | 20           | 152     | 116    | 8° / 13°             | 662 129 027 |
| SK-S 36.20 PLUS | 2"        | 185            | 20           | 152     | 119    | 17° / 26°            | 662 129 028 |
| SK-S 36.20 PLUS | 2"        | 225            | 20           | 152     | 121    | 23° / 30°            | 662 129 030 |
| SK-S 36.20 PLUS | 2"        | 250            | 20           | 152     | 131    | 29° / 42°            | 662 129 029 |

- \* 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

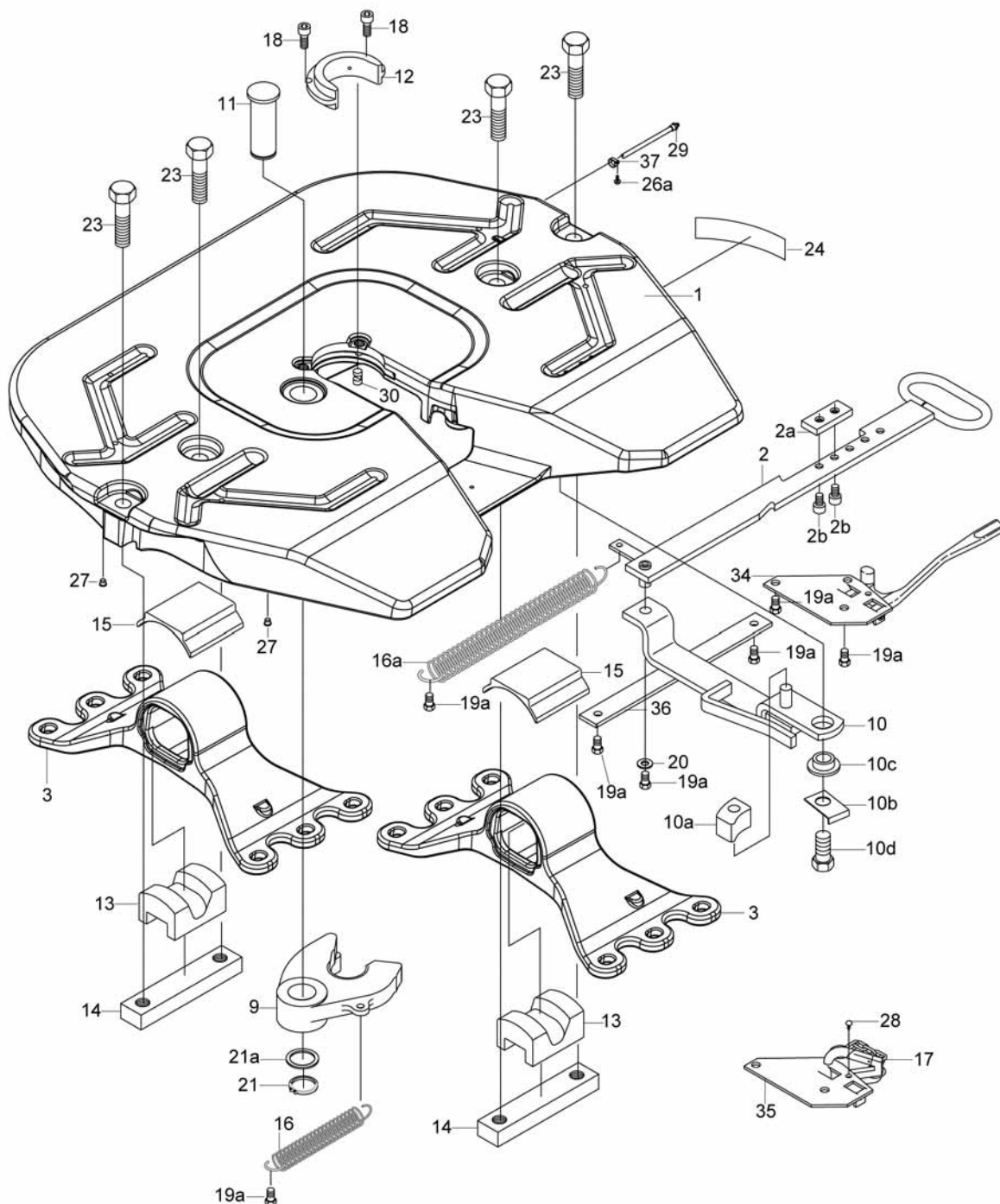
### Dimensions



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

# Spare parts SK-S 36.20 PLUS

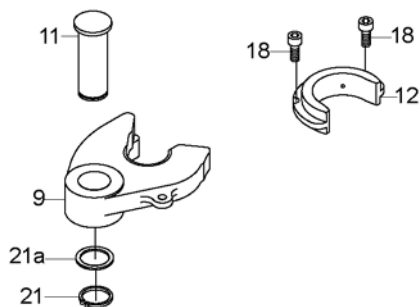
The spare parts for the SK-S 36.20 PLUS are fully compatible with the SK-S 36.20.  
Repair kits also apply to SK-S 36.20 PLUS D.



| Item | Component (price per piece)                          | Serial no.  | Pcs. | 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 |

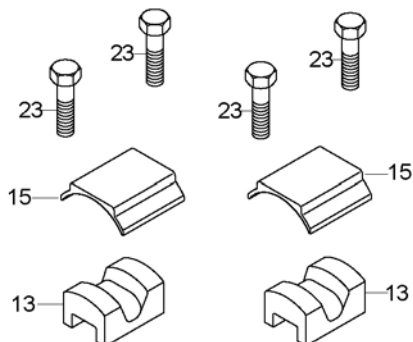
| Item | Component (price per piece)         | Serial no.    | Pcs. | Order no.   |
|------|-------------------------------------|---------------|------|-------------|
| 1    | Fifth wheel plate (PLUS)            |               | 1    | 662 129 471 |
| 2    | Operating handle, complete (2a, 2b) | 13000 - ...   | 1    | 662 129 166 |
| 2    | Operating handle                    | 12000 - 12999 | 1    | 662 129 146 |
| 2    | Operating handle                    | 0 - 11999     | 1    | 662 129 130 |
| 2a   | Adjustment plate                    | 13000 - ...   | 1    | 662 129 158 |
| 2a   | Adjustment plate                    | 0 - 12999     | 1    | 662 129 133 |
| 2b   | Cap bolt                            | 13000 - ...   | 2    | 659 112 371 |
| 2b   | Cap bolt                            | 0 - 12999     | 1    | 659 100 017 |
| 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    | 662 129 134 |
| 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 bolt                            | 13000 - ...   | 2    | 659 112 372 |
| 18   | Cap bolt                            | 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   | 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 |

## Repair kit for locking mechanism and wear ring



| Item | Component (price per piece)                          | Serial no.  | Pcs. | 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 bolt                                             | 13000 - ... | 2    | 659 112 372 |
| 18   | Cap bolt                                             | 0 - 12999   | 2    | 662 126 155 |
| 21   | Circlip                                              |             | 1    | 659 100 027 |
| 21a  | Supporting washer                                    |             | 1    | 659 100 026 |

## Repair kit for bearings



| Item | Component (price per piece)          | Pcs. | 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\*
- Plastic wear plates easy to change
- 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

#### Automatic locking

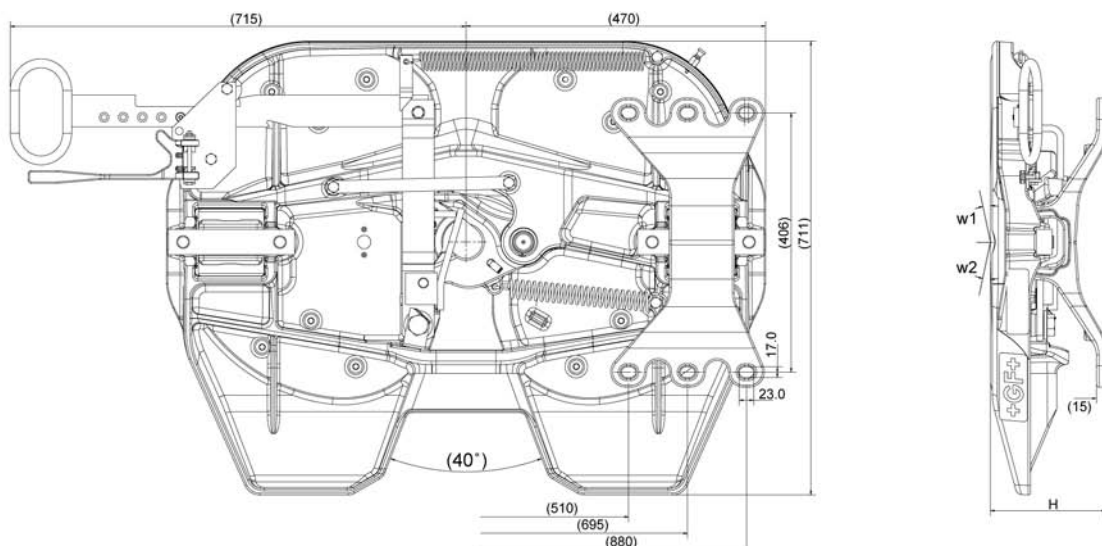
| Type              | Lock size | Overall height | Imposed load | D-value | Weight | Angle of inclination | Order no.   |
|-------------------|-----------|----------------|--------------|---------|--------|----------------------|-------------|
|                   | inch      | mm             | t            | 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 |

#### Locking with carabiner hook

| 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°              | 662 131 005 |
| SK-S 36.20 PLUS W | 2"        | 150            | 20           | 152     | 116    | 8° / 13°             | 662 131 006 |
| SK-S 36.20 PLUS W | 2"        | 185            | 20           | 152     | 119    | 17° / 26°            | 662 131 007 |
| SK-S 36.20 PLUS W | 2"        | 225            | 20           | 152     | 121    | 23° / 30°            | 662 131 045 |
| SK-S 36.20 PLUS W | 2"        | 250            | 20           | 152     | 131    | 29° / 42°            | 662 131 008 |

- \* 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

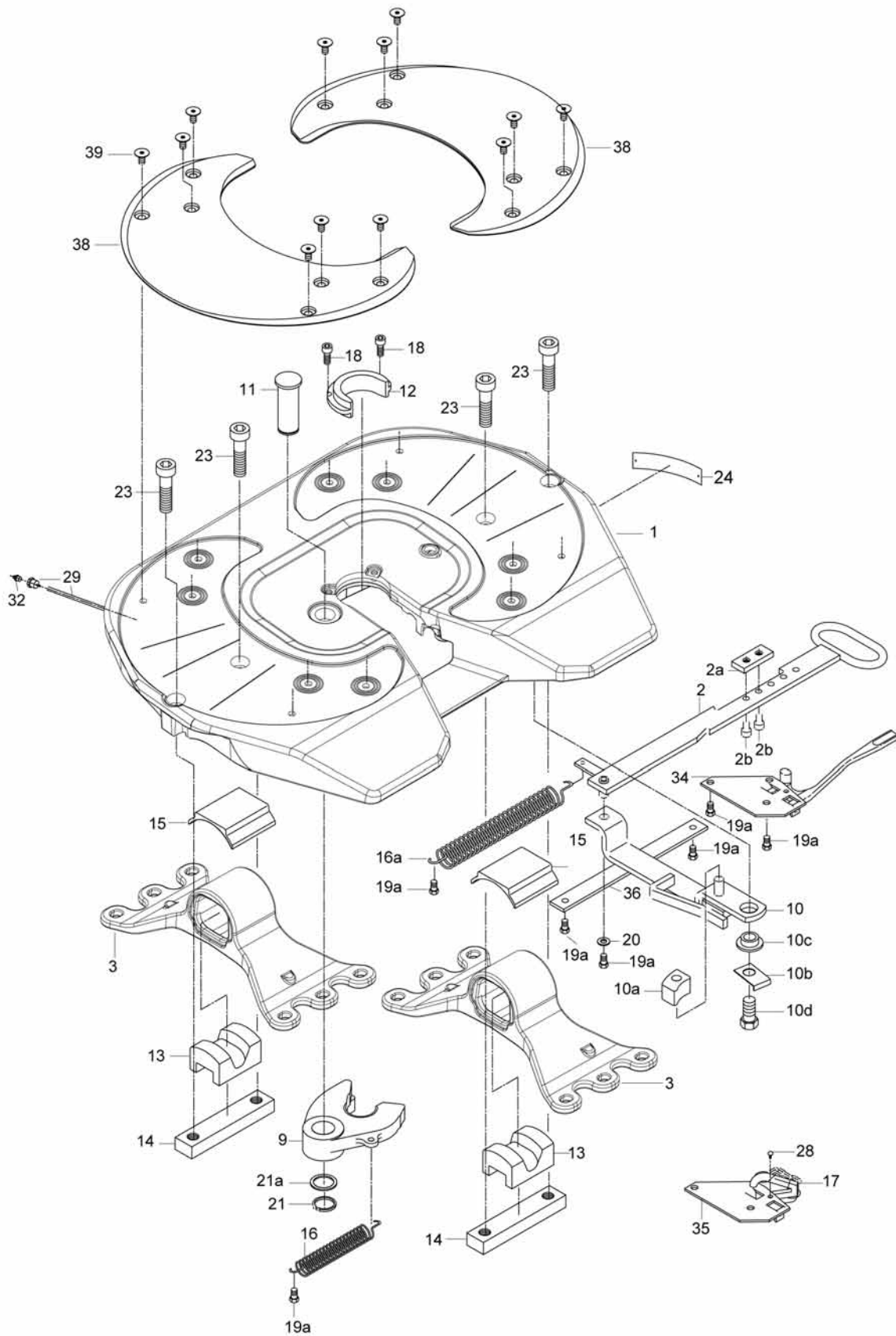


Mounting hole pattern according to DIN 74081  
Subject to modifications in dimensions and design



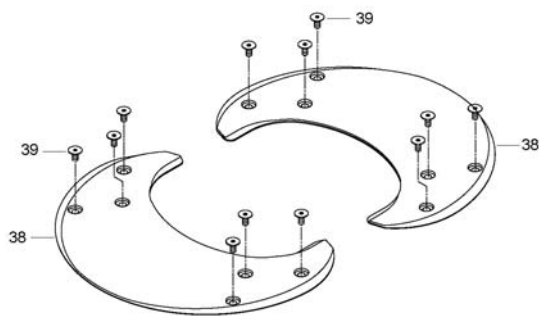
# Spare parts SK-S 36.20 PLUS W

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.



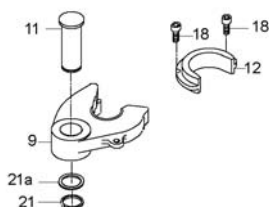
| Item | Component (price per piece)                                            | Serial no.  | Pcs. | Order no.   |
|------|------------------------------------------------------------------------|-------------|------|-------------|
|      | Repair kit for locking mechanism and bearings (9,11,12,13,15,18,21,23) |             |      | 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 |
| 1    | Fifth wheel plate (PLUS)                                               |             | 1    | 662 131 471 |
| 2    | Operating handle, complete ( incl. 2a, 2b)                             |             | 1    | 662 129 166 |
| 2a   | Adjustment plate                                                       |             | 1    | 662 129 158 |
| 2b   | Cap bolt                                                               |             | 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 bolt                                                               |             | 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   | Manufacturer's plate                                                   |             | 1    | 659 120 380 |
| 26   | Rivet                                                                  |             | 2    | 662 126 173 |
| 28   | Hammer rivet                                                           |             | 1    | 662 126 151 |
| 29   | Lubrication tube                                                       | 35178 - ... | 1    | 659 144 146 |
| 29   | Lubrication tube                                                       | 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   | Flanged screw                                                          |             | 12   | 662 130 114 |

## Repair kit for wear plate



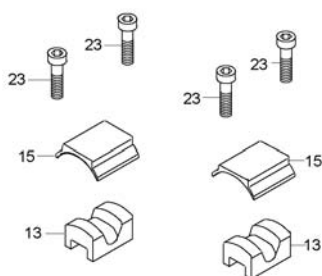
| Item | Component (price per piece)        | Pcs. | Order no.   |
|------|------------------------------------|------|-------------|
|      | Repair kit for wear plate (38, 39) |      | 662 101 469 |
| 38   | Wear plate                         | 2    | 662 131 103 |
| 39   | Flanged screw          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

## Repair kit for locking mechanism



| Item | Component (price per piece)                      | Pcs. | 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 bolt                                         | 2    | 659 112 372 |
| 21   | Circlip                                          | 1    | 659 100 027 |
| 21a  | Supporting washer                                | 1    | 659 100 026 |

## Repair kit for bearings



| Item | Component (price per piece)        | Pcs. | 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 |

## Mobility

## SK-S 36.20 PLUS RECOSS®

People are increasingly mobile, and they have ever greater demands for comfort and safety in their vehicles. With its highly stressable cast parts made of light metal and iron, GF Automotive makes it possible to build commercial vehicles that are both light-weight and safe.

# RECOSS® Safety Sensor System

## Remote Controlled Safety System

### Optimum Coupling

The competitive situation in the transport sector is coming to a head, like everywhere else. Cost optimisation is required in all areas. Nobody can afford to have trucks or drivers standing idle.

The proportion of articulated trucks in vehicle fleets is constantly increasing. One of the main components is the fifth wheel as link between semi-trailer and tractor. Its immunity to wear, its reliability and easy operation are essential for determining the perfect function of the articulated truck and therefore also its safety and economic efficiency.

To strengthen the weakest link in the chain, GF Automotive has developed RECOSS® (Remote Controlled Safety System).

### Visible Safety

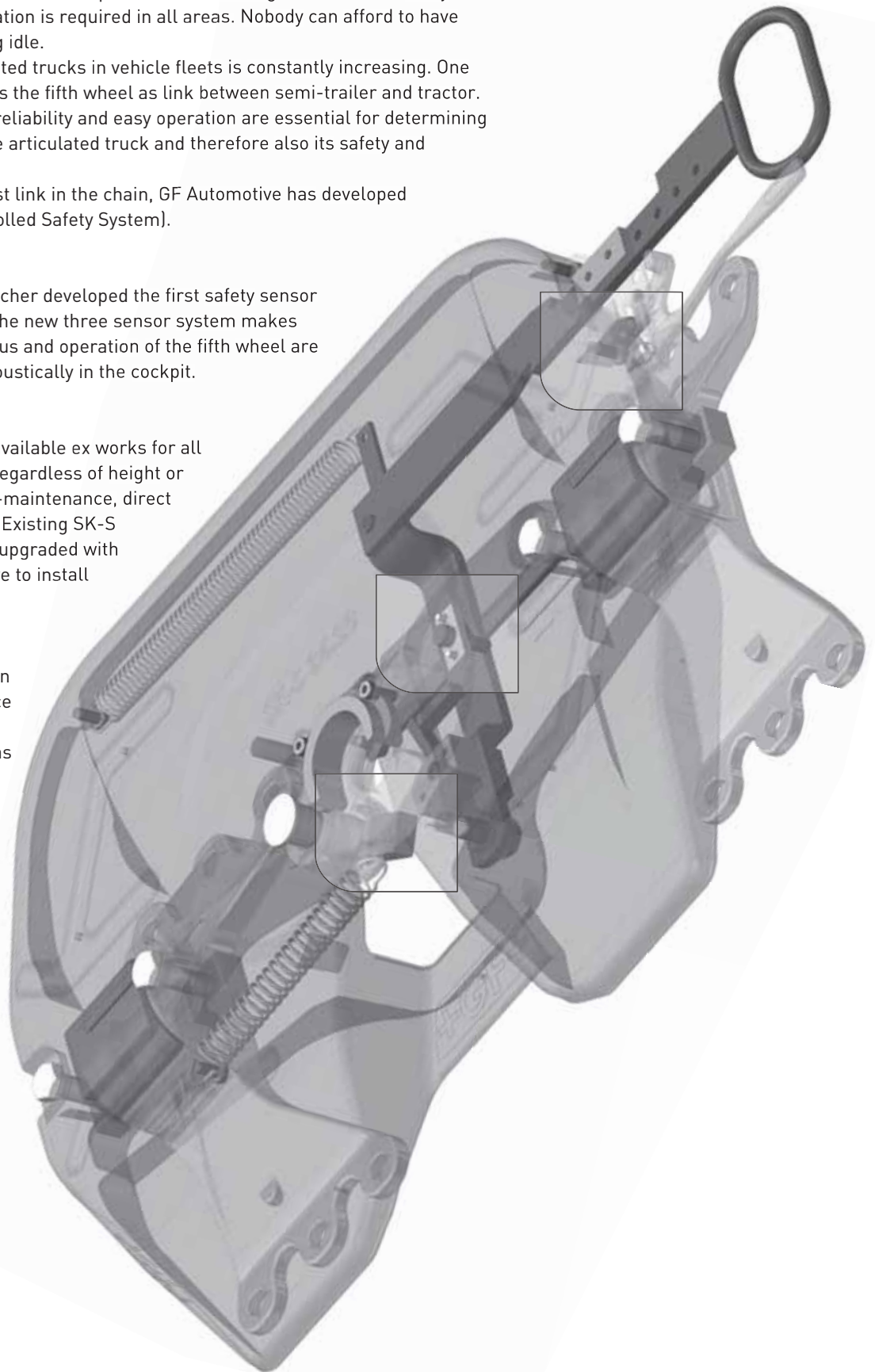
With RECOSS®, Georg Fischer developed the first safety sensor system for fifth wheels. The new three sensor system makes hitching even easier. Status and operation of the fifth wheel are displayed visually and acoustically in the cockpit.

### Perfect Safety

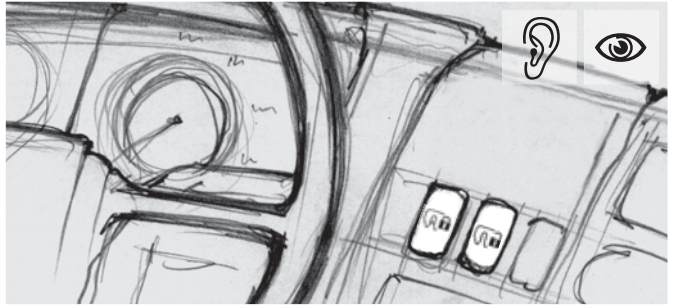
The RECOSS® system is available ex works for all SK-S 36.20 fifth wheels, regardless of height or specification such as low-maintenance, direct mounting or dual-height. Existing SK-S 36.20 fifth wheels can be upgraded with the easy and cost-effective to install RECOSS® retrofit kit.

### Noticeable Lightweight

The SK-S 36.20 PLUS is an economically sound choice offering good value for money: The fifth wheel has few wearing parts and is extremely low-maintenance. The optimised spheroidal graphite cast iron fifth wheel weighs 8 kilograms less. The Plus is for the lightest approved 20-ton fifth wheel of its category.







## Safety

It is the driver's duty to make sure that everything is engaged and locked correctly – after every coupling process and after every stop. RECOSS® gives the driver electronic assistance in doing this. This reduces the driver's stress considerably. Accidents and unnecessary idle time for vehicle repairs can be avoided.

A RECOSS® sensor indicates the correct hitching height. Two other sensors permanently monitor the condition of the fifth wheel. Any problems are displayed visually and acoustically in the cockpit – that means safe driving.



Sensors 1 and 2 on coupler jaw and automatic latch monitor the safe and correct condition of the fifth wheel on a permanent basis.



Sensor 3 monitors the distance between trailer plate and fifth wheel and ensures the correct position during hitching.



## Comfort

RECOSS® enables the monitoring of the entire coupling process from the cab.

The driver does not have to leave the vehicle during bad weather to control the process. That saves time and makes work more pleasant – that means driving with comfort.



## Economic efficiency

The SK-S 36.20 with RECOSS® is also the first choice from an economic point of view. A longer service life is the result of less wear parts and high-quality materials. The increase in comfort and safety with RECOSS® enhances the drivers performance and reduces idle time resulting from tractor faults – that means economic driving.

# RECOSS® - The proven 3-sensor safety system

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.: e1-00-0218

## 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 36.20 PLUS WS | 128*           | 20           | 152     | 116    | 8° / 8°              | 662 131 080 |
| SK-S 36.20 PLUS WS | 150            | 20           | 152     | 116    | 8° / 13°             | 662 131 081 |
| SK-S 36.20 PLUS WS | 185            | 20           | 152     | 119    | 17° / 26°            | 662 131 082 |
| SK-S 36.20 PLUS WS | 225            | 20           | 152     | 121    | 23° / 30°            | 662 131 083 |
| SK-S 36.20 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.
- EU test no.: e1-00-0218

## 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.: e1-00-0218

## 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 OEM specific mounting plate
- Please indicate vehicle type when placing orders (Mercedes-Benz, MAN, IVECO, DAF,...)
- EU test no.: e1-00-0218

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

| Type               | Overall height | Imposed load | D-value | Weight | Angle of inclination | Length L | 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 | 160            | 20           | 152,3   | 146    | 13° / 15°            | 462,5    | 662 129 269 |
| SK-S 36.20 PLUS VS | 160            | 20           | 152,3   | 146    | 13° / 15°            | 437,5    | 662 129 270 |
| SK-S 36.20 PLUS VS | 200            | 20           | 152,3   | 150    | 20° / 23°            | 462,5    | 662 129 271 |
| SK-S 36.20 PLUS VS | 200            | 20           | 152,3   | 150    | 20° / 23°            | 437,5    | 662 129 272 |
| SK-S 36.20 PLUS VS | 230            | 20           | 152,3   | 153    | 24° / 30°            | 462,5    | 662 129 273 |
| SK-S 36.20 PLUS VS | 230            | 20           | 152,3   | 153    | 24° / 30°            | 437,5    | 662 129 274 |

- Angle of inclination in accordance with ISO 1726
- EU test no.: e1-00-0218

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

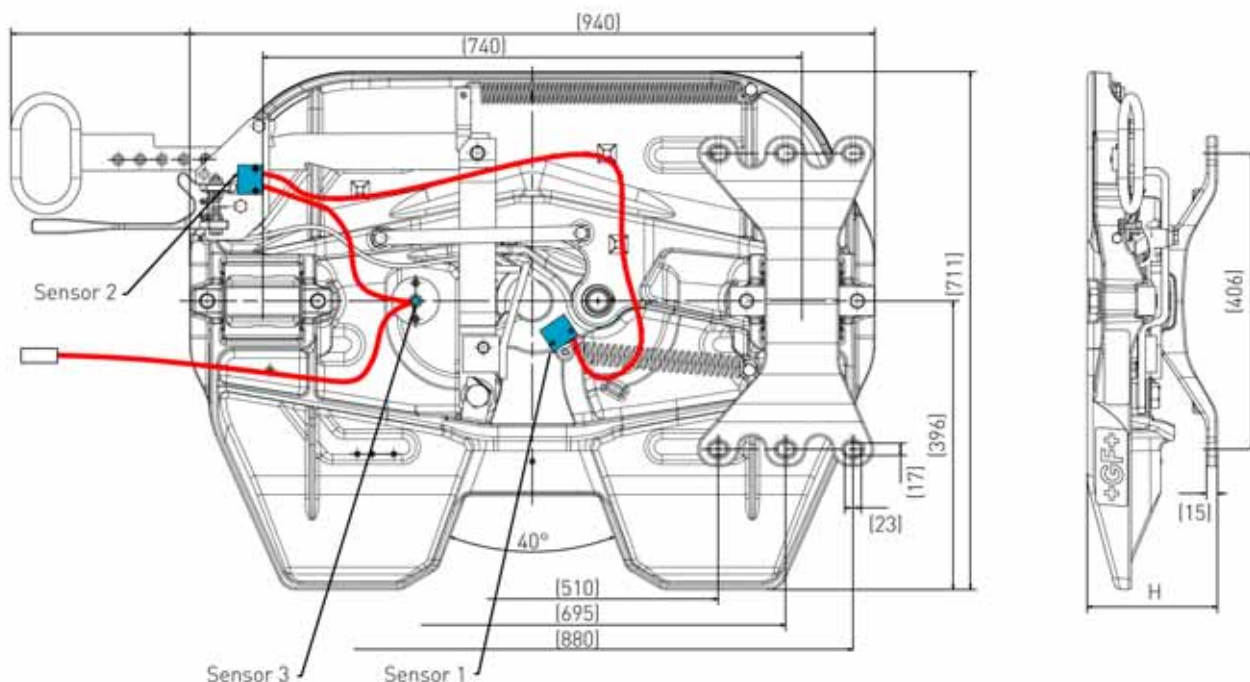
| Type                | Overall height | Imposed load | D-value | Weight | Angle of inclination | Length L | Order no.   |
|---------------------|----------------|--------------|---------|--------|----------------------|----------|-------------|
|                     | mm             | t            | 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.: e1-00-0218

### Model SK-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

The installation kit contains all components for connecting a SK-S 36.20 PLUS S fifth wheel to the vehicle electronic system. Not included are the indicator lights which must be separately ordered from the respective vehicle manufacturer.

| Item | Type                                                             | Note                    | Order no.          |
|------|------------------------------------------------------------------|-------------------------|--------------------|
| 9-13 | <b>RECOSS® installation kit for all SK-S 36.20 PLUS S models</b> | 3 sensors, ADR suitable | <b>662 129 415</b> |

## 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                      | Order no.          |
|------|--------------------------------------------------------------|---------------------------|--------------------|
| 1-13 | <b>RECOSS® conversion kit for SK-S 36.20 PLUS (complete)</b> | contains installation kit | <b>662 129 417</b> |

## RECOSS® repair kits and spare parts



| Item | Type                                                                     | Note                       | Pcs. | Order no.          |
|------|--------------------------------------------------------------------------|----------------------------|------|--------------------|
|      | <b>Repair kit for lock mechanism SK-S 36.20 PLUS S / WS</b>              |                            |      | <b>662 101 718</b> |
|      | <b>Repair kit for lock mechanism and bearings SK-S 36.20 PLUS S / WS</b> |                            |      | <b>662 101 719</b> |
|      | <b>Repair kit for sensors (3-sensor model)</b>                           |                            | 1    | <b>662 129 427</b> |
| 1    | <b>Coupler jaw SK-S 36.20 PLUS S</b>                                     |                            | 1    | <b>662 129 161</b> |
| 1    | <b>Coupler jaw SK-S 36.20 PLUS WS</b>                                    |                            | 1    | <b>662 131 115</b> |
| 2    | <b>Circlip</b>                                                           |                            | 1    | <b>659 100 027</b> |
| 3    | <b>Automatic latch, complete (3 sensors)</b>                             |                            |      | <b>662 129 174</b> |
| 4    | <b>Bolts for lock mechanism (M10)</b>                                    |                            | 2    | <b>659 112 359</b> |
| 5    | <b>Cable clip</b>                                                        |                            | 6    | <b>662 129 168</b> |
| 6    | <b>Bolts for coupler jaw sensor (M4)</b>                                 |                            | 2    | <b>659 112 376</b> |
| 7a   | <b>Bracket for fifth wheel plate sensor</b>                              | please indicate serial no. | 1    | <b>662 129 195</b> |
| 7a   | <b>Bracket for fifth wheel plate sensor</b>                              | please indicate serial no. | 1    | <b>662 129 488</b> |
| 7b   | <b>Star washer for sensor bracket 7a</b>                                 | please indicate serial no. | 1    | <b>662 129 490</b> |
| 8    | <b>Bolts for top plate sensor (M6)</b>                                   |                            | 2    | <b>659 112 352</b> |
| 9    | <b>Wiring loom assembly 2 sensors (9a,9b,9c,9d)</b>                      |                            |      | <b>662 129 401</b> |
| 9a   | <b>Extension cable for control unit</b>                                  |                            | 1    | <b>662 129 504</b> |
| 9b   | <b>Adaptor cable for control unit</b>                                    |                            | 1    | <b>662 129 505</b> |
| 9c   | <b>Connecting cable for vehicle electronic system</b>                    |                            | 1    | <b>662 129 503</b> |
| 9d   | <b>Connecting cable for power supply</b>                                 |                            | 1    | <b>662 129 501</b> |
| 10   | <b>Control unit (3-sensor, ADR/GGVs suitable)</b>                        |                            | 1    | <b>662 129 400</b> |
| 11   | <b>Mounting adaptor for control unit</b>                                 |                            | 1    | <b>662 129 404</b> |
| 13   | <b>Cable tie</b>                                                         |                            | 3    | <b>659 100 045</b> |
| 14   | <b>Labels for indicator lights</b>                                       |                            | 1    | <b>662 129 190</b> |

## Mobility

## SK-S 36.20 PLUS RECOHITCH®

People are increasingly mobile, and they have ever greater demands for comfort and safety in their vehicles. With its highly stressable cast parts made of light metal and iron, GF Automotive makes it possible to build commercial vehicles that are both light-weight and safe.



# SK-S 36.20 PLUS A RECOHITCH®

## Safety and convenience

SK-S 36.20 PLUS A RECOHITCH® automatises the opening of the fifth wheel, and together with our RECOSS® 3-sensor-system, increases the safety of your vehicle.

- Monitors the hitching process
- Reduces the risk of accidents
- Monitors the system permanently while driving



SK-S 36.20 PLUS A RECOHITCH® provides convenience with its pneumatically operated lock.

- Time is saved during every coupling process
- Fifth wheel is easy to open from driver's cab
- Mechanical operating function remains available at all times



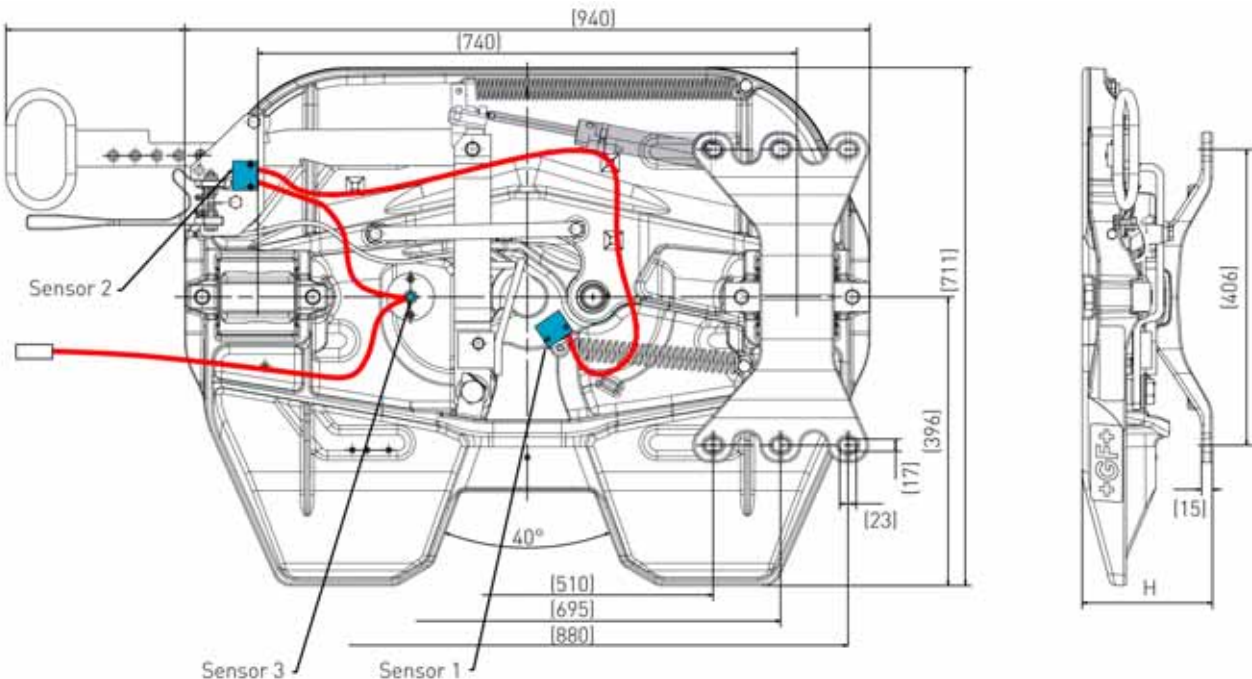
Audio and visual display in the driver's cab

### Technical data

| 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 A RECOHITCH® | 128*           | 20           | 152     | 118    | 8° / 8°              | 662 129 091 |
| SK-S 36.20 PLUS A RECOHITCH® | 150            | 20           | 152     | 118    | 8° / 13°             | 662 129 092 |
| SK-S 36.20 PLUS A RECOHITCH® | 185            | 20           | 152     | 121    | 17° / 26°            | 662 129 093 |
| SK-S 36.20 PLUS A RECOHITCH® | 225            | 20           | 152     | 123    | 23° / 30°            | 662 129 094 |
| SK-S 36.20 PLUS A RECOHITCH® | 250            | 20           | 152     | 133    | 29° / 42°            | 662 129 094 |

- \* 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 for control unit: e1-03-4695

### Dimensions



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



# SK-S 36.20 PLUS D (direct mounting)

## The compact, lightweight fifth wheel

The new lightweight fifth wheel, without mounting plate, for 2-axle 18t semi-trailer tractors for highway application.

- Easy to mount directly on the vehicle chassis
- Weight optimized fifth wheel: higher payload
- Single-handed operation
- Automatic safety lock
- Simple and safe wear adjustment
- Permanent, maintenance-free bearing
- Optimised lubrication channels for effective grease flow
- EU test no.: e1-00-0218



### Technical data

#### Mercedes-Benz model

| Type              | Overall height | Imposed load | D-value | Weight | Angle of inclination | Locking mechanism | Order no.      |
|-------------------|----------------|--------------|---------|--------|----------------------|-------------------|----------------|
|                   | mm             | t            | kN      | kg     | degree (w1/w2)       |                   |                |
| SK-S 36.20 PLUS D | 148*           | 20           | 152     | 126*   | 9.5° / 13°           | AS                | 662 129 200 01 |
| SK-S 36.20 PLUS D | 190            | 20           | 152     | 135    | 19° / 25°            | AS                | 662 129 201 01 |
| SK-S 36.20 PLUS D | 225            | 20           | 152     | 143    | 24° / 30°            | AS                | 662 129 202 01 |
| SK-S 36.20 PLUS D | 148*           | 20           | 152     | 126*   | 9.5° / 13°           | KH                | 662 129 203 01 |
| SK-S 36.20 PLUS D | 190            | 20           | 152     | 135    | 19° / 25°            | KH                | 662 129 204 01 |
| SK-S 36.20 PLUS D | 225            | 20           | 152     | 143    | 24° / 30°            | KH                | 662 129 205 01 |

- \* Additional vendor-specific mounting plate (12 mm / 39 kg)
- (AS) automatic locking / (KH) carabiner hook

#### MAN model

| Type              | Overall height | Imposed load | D-value | Weight | Angle of inclination | Locking mechanism | Order no.      |
|-------------------|----------------|--------------|---------|--------|----------------------|-------------------|----------------|
|                   | mm             | t            | kN      | kg     | degree (w1/w2)       |                   |                |
| SK-S 36.20 PLUS D | 148*           | 20           | 152     | 126*   | 9.5° / 13°           | AS                | 662 129 200 02 |
| SK-S 36.20 PLUS D | 190            | 20           | 152     | 135    | 19° / 25°            | AS                | 662 129 201 02 |
| SK-S 36.20 PLUS D | 225            | 20           | 152     | 143    | 24° / 30°            | AS                | 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 | Locking mechanism | Order no.      |
|-------------------|----------------|--------------|---------|--------|----------------------|-------------------|----------------|
|                   | mm             | t            | kN      | kg     | degree (w1/w2)       |                   |                |
| SK-S 36.20 PLUS D | 148*           | 20           | 152     | 126*   | 9.5° / 13°           | AS                | 662 129 200 03 |
| SK-S 36.20 PLUS D | 190            | 20           | 152     | 135    | 19° / 25°            | AS                | 662 129 201 03 |
| SK-S 36.20 PLUS D | 225            | 20           | 152     | 143    | 24° / 30°            | AS                | 662 129 202 03 |

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

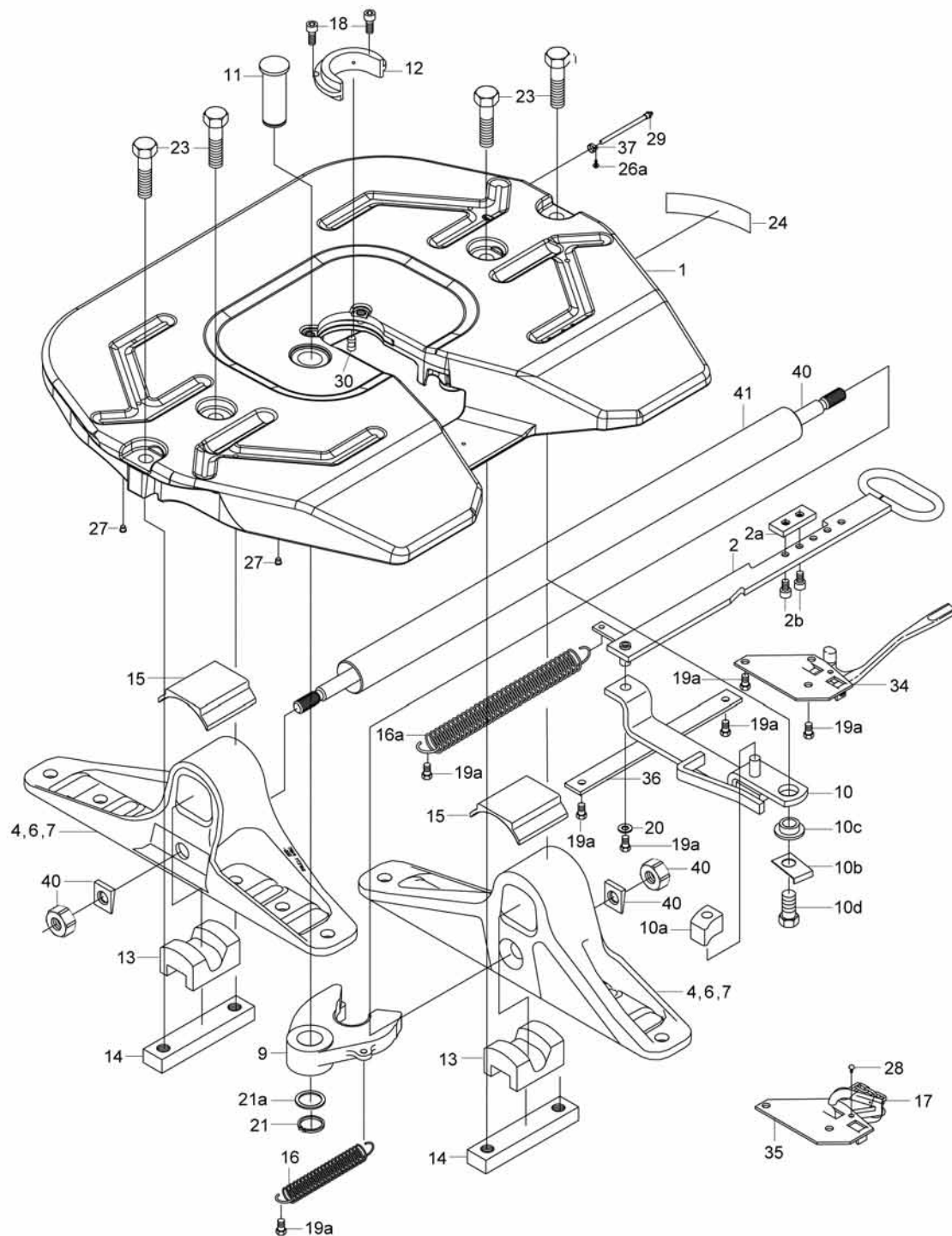
#### DAF model

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

# Spare parts SK-S 36.20 PLUS D

Repair kits also apply to SK-S 36.20 PLUS standard model.

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



| Item | Component (price per piece)                                            | Model         | Pcs. | 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 |
| 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 bolt                                                               |               | 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    | 662 129 134 |
| 10   | Locking hook complete                                                  |               | 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 bolt                                                               |               | 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   | Manufacturer's 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 complete                                              |               | 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 |

## Notes

# SK-S 36.20 PLUS DW

## The compact, low maintenance, lightweight fifth wheel

The new lightweight fifth wheel, without mounting plate, for 2-axle 18t semi-trailer tractors for highway application

- Easy to mount directly on the vehicle chassis
- Weight optimized fifth wheel: higher payload
- Less grease consumption
- Plastic wear plates easy to change
- Single-handed operation
- Automatic safety lock
- Simple and safe wear adjustment
- Permanent, maintenance-free bearing
- EU test no.: e1-00-0218



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 | Locking mechanism | Order no.      |
|--------------------|----------------|--------------|---------|--------|----------------------|-------------------|----------------|
|                    | mm             | t            | kN      | kg     | degree (w1/w2)       |                   |                |
| SK-S 36.20 PLUS DW | 148*           | 20           | 152     | 126*   | 9.5° / 13°           | AS                | 662 131 016 01 |
| SK-S 36.20 PLUS DW | 190            | 20           | 152     | 135    | 19° / 25°            | AS                | 662 131 017 01 |
| SK-S 36.20 PLUS DW | 225            | 20           | 152     | 143    | 24° / 30°            | AS                | 662 131 018 01 |
| SK-S 36.20 PLUS DW | 148*           | 20           | 152     | 126*   | 9.5° / 13°           | KH                | 662 131 019 01 |
| SK-S 36.20 PLUS DW | 190            | 20           | 152     | 135    | 19° / 25°            | KH                | 662 131 020 01 |
| SK-S 36.20 PLUS DW | 225            | 20           | 152     | 143    | 24° / 30°            | KH                | 662 131 021 01 |

- \* Additional vendor-specific mounting plate (12 mm/ 39 kg)
- [AS] automatic locking / [KH] carabiner hook

#### MAN model

| Type               | Overall height | Imposed load | D-value | Weight | Angle of inclination | Locking mechanism | Order no.      |
|--------------------|----------------|--------------|---------|--------|----------------------|-------------------|----------------|
|                    | mm             | t            | kN      | kg     | degree (w1/w2)       |                   |                |
| SK-S 36.20 PLUS DW | 148*           | 20           | 152     | 126*   | 9.5° / 13°           | AS                | 662 131 016 02 |
| SK-S 36.20 PLUS DW | 190            | 20           | 152     | 135    | 19° / 25°            | AS                | 662 131 017 02 |
| SK-S 36.20 PLUS DW | 225            | 20           | 152     | 143    | 24° / 30°            | AS                | 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 | Locking mechanism | Order no.      |
|--------------------|----------------|--------------|---------|--------|----------------------|-------------------|----------------|
|                    | mm             | t            | kN      | kg     | degree (w1/w2)       |                   |                |
| SK-S 36.20 PLUS DW | 148*           | 20           | 152     | 126*   | 9.5° / 13°           | AS                | 662 131 016 03 |
| SK-S 36.20 PLUS DW | 190            | 20           | 152     | 135    | 19° / 25°            | AS                | 662 131 017 03 |
| SK-S 36.20 PLUS DW | 225            | 20           | 152     | 143    | 24° / 30°            | AS                | 662 131 018 03 |

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

#### DAF model

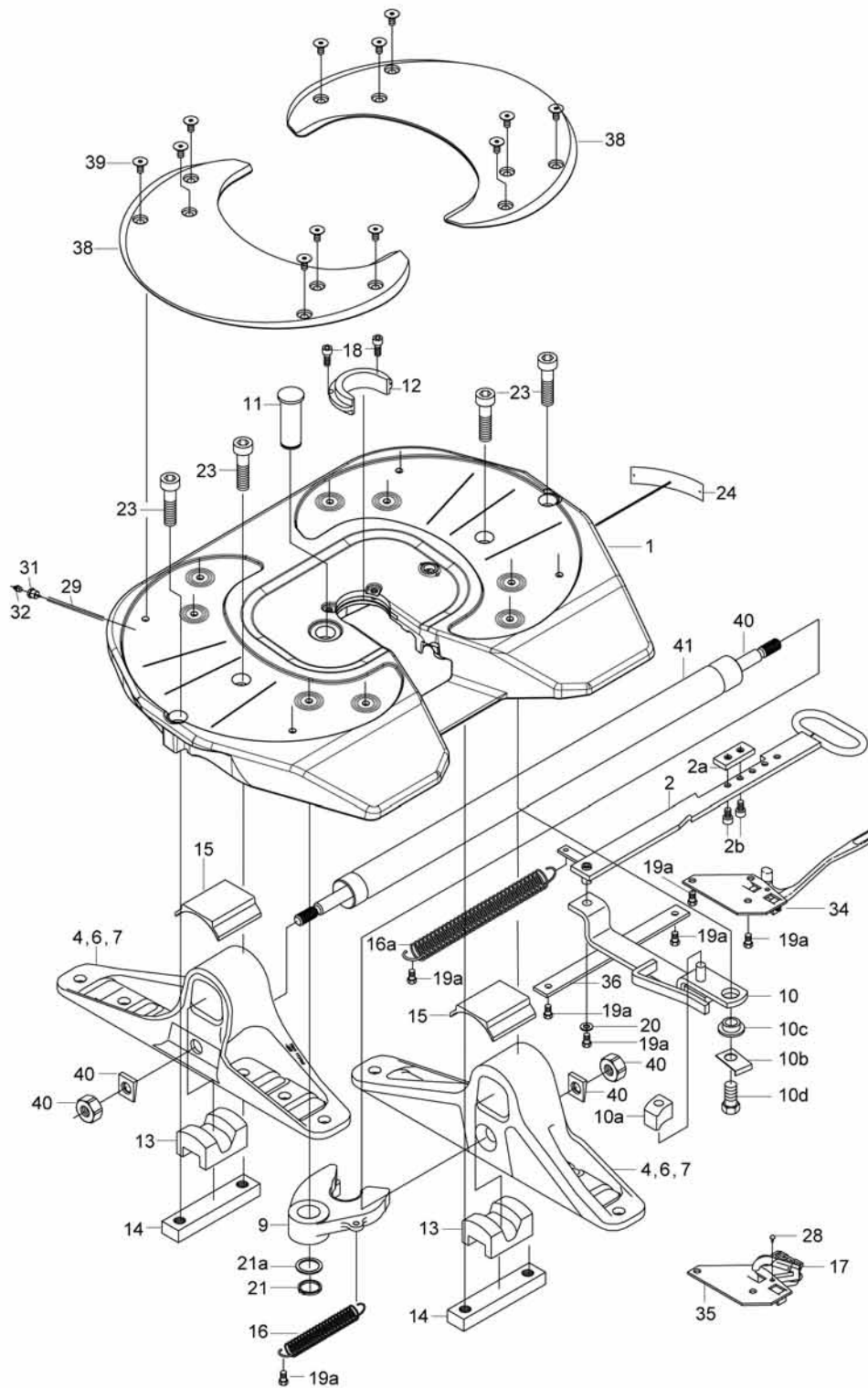
| Type               | Overall height | Imposed load | D-value | Weight | Angle of inclination | Locking mechanism | Order no.      |
|--------------------|----------------|--------------|---------|--------|----------------------|-------------------|----------------|
|                    | mm       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



# Spare parts SK-S 36.20 PLUS DW

Repair kits also apply to SK-S 36.20 PLUS W low maintenance model.

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



| Item | Component (price per piece)                                           | Model         | Pcs. | Order no.   |
|------|-----------------------------------------------------------------------|---------------|------|-------------|
|      | Repair kit for locking mechanism and bearing (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 bearing (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 |
| 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 bolt                                                              |               | 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 bolt                                                              |               | 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   | Manufacturer's plate                                                  |               | 1    | 659 120 380 |
| 26   | Rivet                                                                 |               | 2    | 662 126 173 |
| 28   | Hammer rivet                                                          |               | 1    | 662 126 151 |
| 29   | Lubrication tube                                                      |               | 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   | Flanged screw                                                         |               | 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 |

## Notes

# SK-S 36.20 PLUS V (mounting angles)

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

- Weight optimized fifth wheel
- No additional mounting plate required
- 10-15 kg higher payload with lower 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

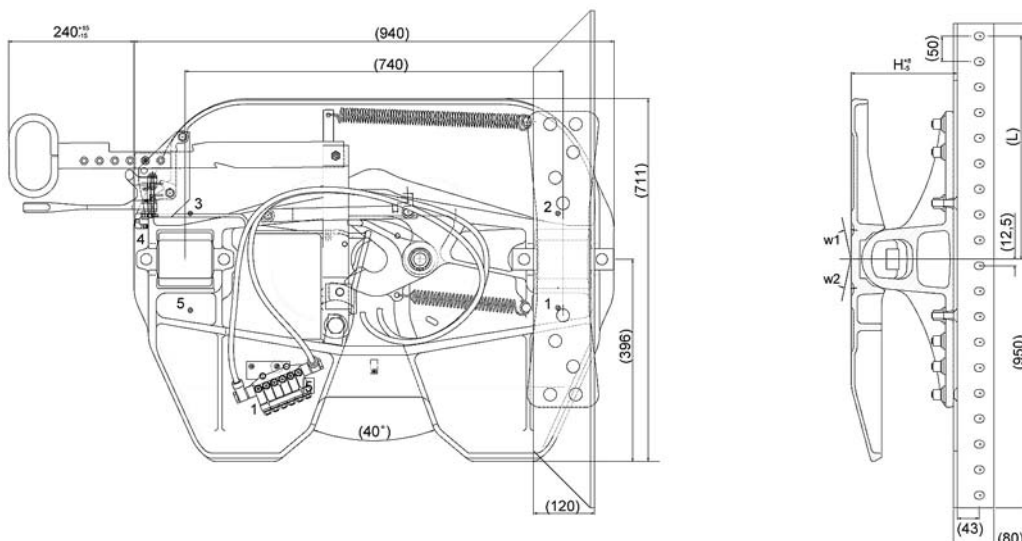
- Angle of inclination in accordance with ISO 1726
- Approved for forced steering
- EU test no.: e1-00-0218

| Type              | Overall height | Imposed load | D-value | Weight | Angle of inclination | Length L | 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 L | 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 |

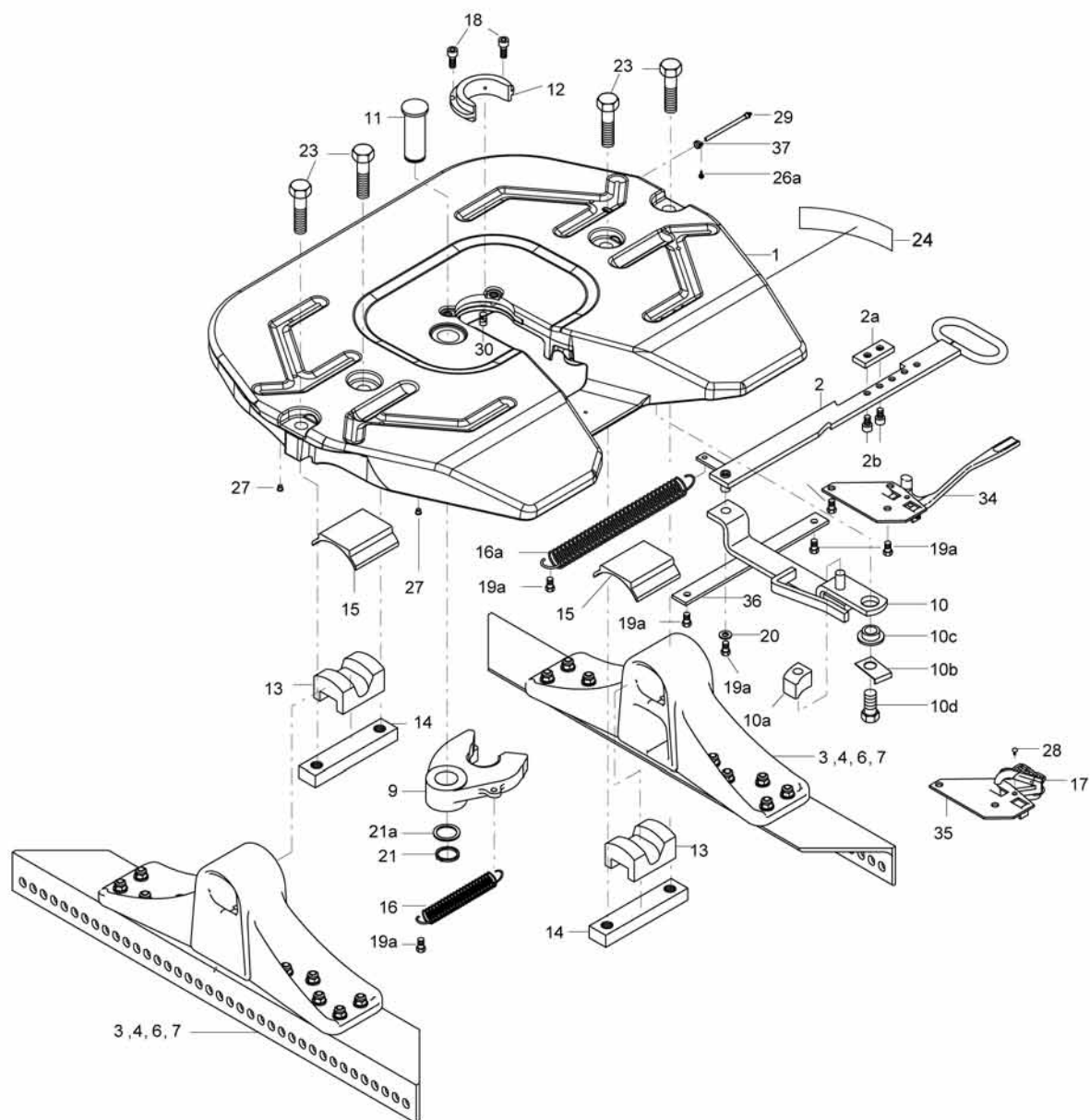
### Dimensions



# Spare parts SK-S 36.20 PLUS V

\* Central lubrication set can be ordered for models 662 129 206 to 662 129 214.  
Repair kits also apply to SK-S 36.20 PLUS.

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



| Item | Component (price per piece)                                            | Serial no.  | Pcs. | 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 |
| 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 bolt                                                               |             | 2    | 659 112 371 |
| 3    | Mounting angle 140 mm, on right (L= 437.5), complete                   |             | 1    | 662 129 362 |
| 3a   | Mounting angle 140 mm, on right (L= 462.5), complete                   |             | 1    | 662 129 363 |
| 4    | Mounting angle 160 mm, on right (L= 437.5), complete                   |             | 1    | 662 129 364 |
| 4a   | Mounting angle 160 mm, on right (L= 462.5), complete                   |             | 1    | 662 129 365 |
| 6    | Mounting angle 200 mm, on right (L= 437.5), complete                   |             | 1    | 662 129 366 |
| 6a   | Mounting angle 200 mm, on right (L= 462.5), complete                   |             | 1    | 662 129 367 |
| 7    | Mounting angle 230 mm, on right (L= 437.5), complete                   |             | 1    | 662 129 368 |
| 7a   | Mounting angle 230 mm, on right (L= 462.5), complete                   |             | 1    | 662 129 369 |
| 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 |
| 17   | Carabiner hook with chain                                              |             |      | 662 100 574 |
| 18   | Cap bolt                                                               |             | 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   | Manufacturer's 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 |



## Notes

# SK-S 36.20 PLUS VW (low maintenance)

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

- Weight optimized fifth wheel
- No additional mounting plate required
- 10-15 kg higher payload with lower payload
- Designed for highway application
- Less grease consumption
- Plastic wear plates easy to change
- Central lubrication system connection not required
- Single-handed operation
- Automatic safety lock option
- Simple and safe wear adjustment
- Permanent, maintenance-free bearings



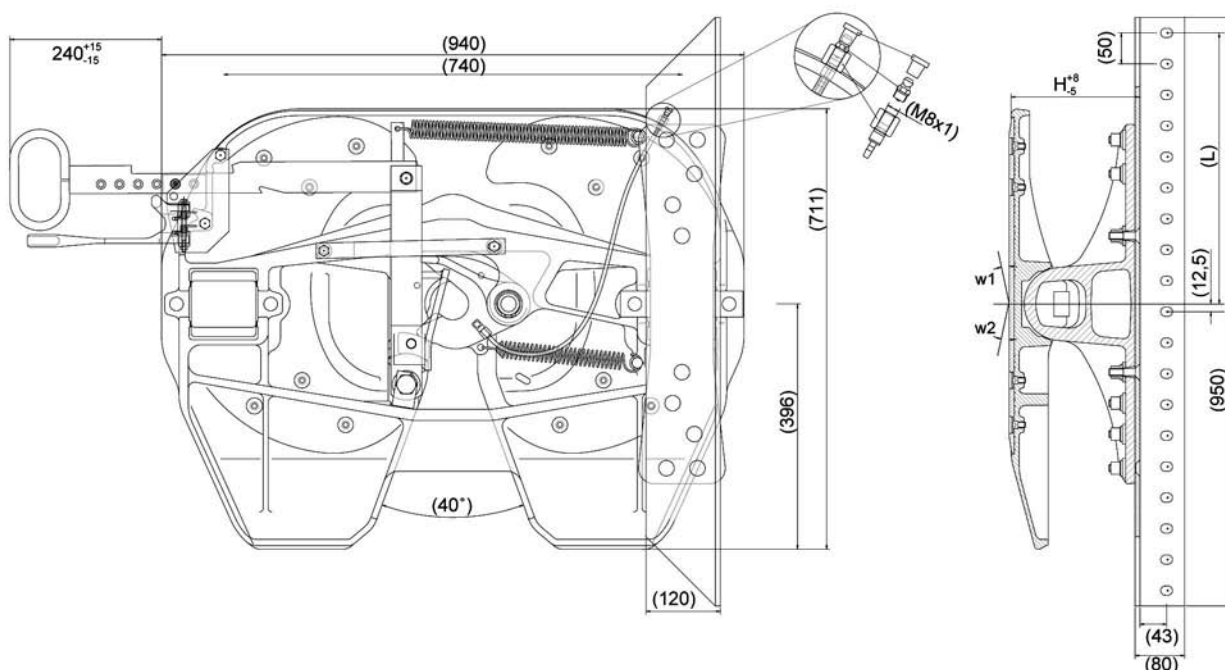
For automatic lubrication of the locking mechanism, we recommend the use of our grease dispenser with adaptor.

### Technical data

- Angle of inclination in accordance with ISO 1726
- Approved for forced steering
- EU test no.: e1-00-0218

| Type               | Overall height | Imposed load | D-value | Weight | Angle of inclination | Length L | 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

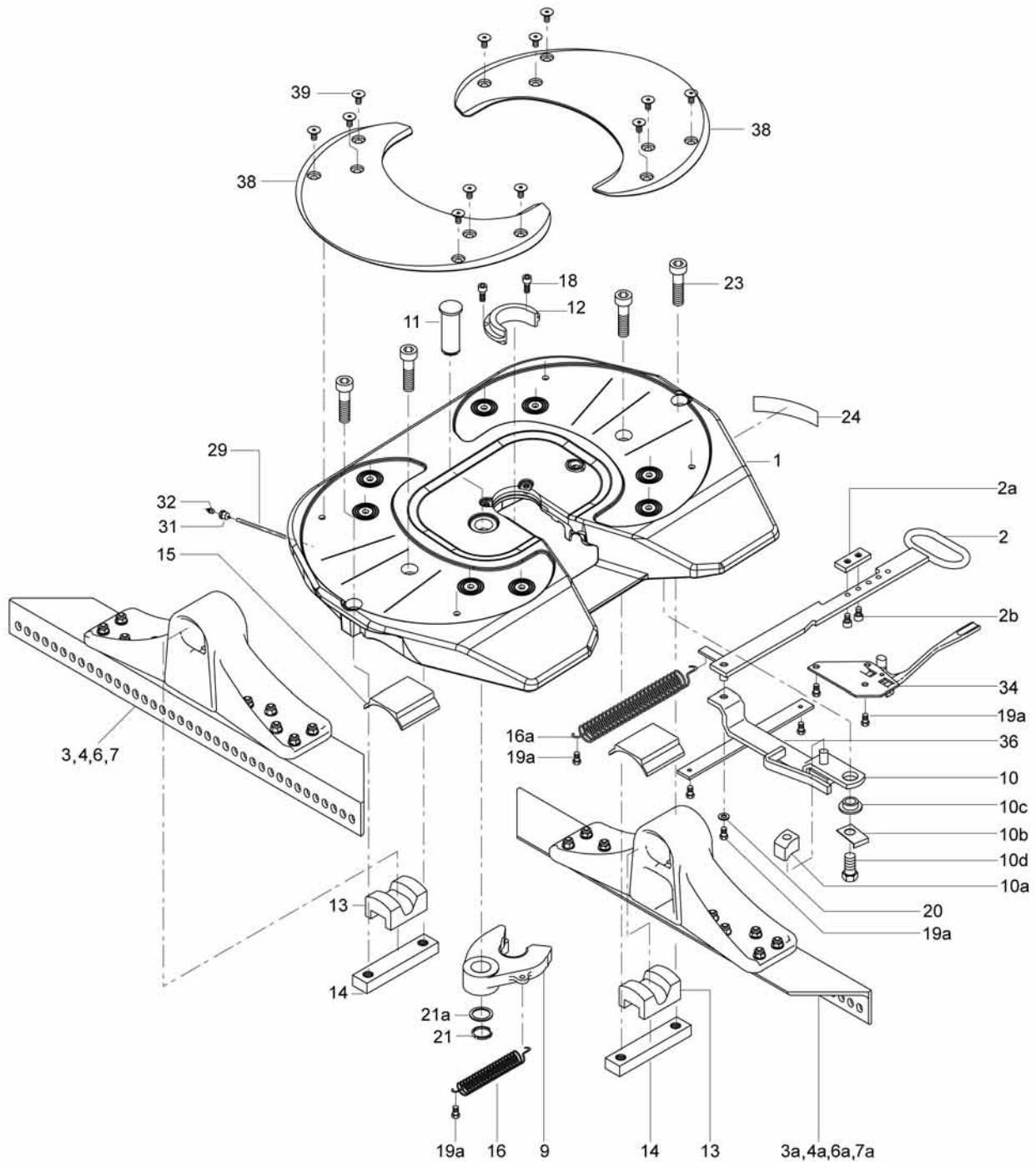


Subject to modifications in dimensions and design

# 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 W.

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



| Item | Component (price per piece)                          | Serial no.  | Pcs. | Order no.   |
|------|------------------------------------------------------|-------------|------|-------------|
|      | 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 |
| 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 bolt                                             |             | 2    | 659 112 371 |
| 3    | Mounting angle 140 mm, on right (L= 437.5), complete |             | 1    | 662 129 362 |
| 3a   | Mounting angle 140 mm, on right (L= 462.5), complete |             | 1    | 662 129 363 |
| 4    | Mounting angle 160 mm, on right (L= 437.5), complete |             | 1    | 662 129 364 |
| 4a   | Mounting angle 160 mm, on right (L= 462.5), complete |             | 1    | 662 129 365 |
| 6    | Mounting angle 200 mm, on right (L= 437.5), complete |             | 1    | 662 129 366 |
| 6a   | Mounting angle 200 mm, on right (L= 462.5), complete |             | 1    | 662 129 367 |
| 7    | Mounting angle 230 mm, on right (L= 437.5), complete |             | 1    | 662 129 368 |
| 7a   | Mounting angle 230 mm, on right (L= 462.5), complete |             | 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 bolt                                             |             | 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   | Manufacturer's plate                                 |             | 1    | 659 120 380 |
| 26   | Rivet                                                |             | 2    | 662 126 173 |
| 29   | Lubrication tube                                     | 35178 - ... | 1    | 659 144 146 |
| 29   | Lubrication tube                                     | 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   | Flanged screw                                        |             | 12   | 662 130 114 |
|      | Lubrication tube assembly (29,31) (not shown)        |             |      | 659 144 146 |

## Notes



Height-adjustable  
fifth wheel  
SK S 36.20 PLUS H

Versatile in use



**+GF+**

**GEORG FISCHER**  
AUTOMOTIVE



# Height-adjustable fifth wheel SK S 36.20 PLUS H

## New-found flexibility

### Make two out of one - two trucks for the price of one

Many medium-sized companies in particular are keen to invest in buying a «low-liner» tractor to allow them to transport maxi- or mega-sized loads, but often do not have the capacity utilization to justify this type of vehicle economically. There is also a widespread fear that reselling such a vehicle will often entail considerable losses, as the market is relatively restricted. Georg Fischer therefore developed the concept of a height-adjustable fifth wheel over 11 years ago. You can convert your semitrailer truck from a maxi or mega trailer to use for standard trailers in less than 30 seconds in just two simple steps. A vehicle for all semitrailer types.

An economic appraisal will clearly reveal the cost benefits resulting through the use of our height-adjustable fifth wheel - you can even consider whether it is profitable to employ the vehicle in multiple shifts. This argument is a tremendous advantage when reselling the vehicle, as the next owner can benefit in full from the flexibility offered by the semitrailer truck. Stay ahead amid tough competition with a sophisticated idea from Georg Fischer.

### Perfect safety

It is above all the truck driver, often on the road with the most diverse types of trailers, whose work requires optimum support from technical systems and electronics. The height-adjustable fifth wheel SK S 36.20 PLUS H has therefore been designed on request to be compatible with the RECOSS® sensor system. RECOSS® increases safety, comfort and efficiency for the driver and hence also the company employing him.

### By professionals for professionals

Besides its unique emphasis on flexibility, the height-adjustable fifth wheel SK S 36.20 PLUS H offers all the benefits customers have come to expect from a Georg Fischer fifth wheel:

- Extremely robust and user-friendly
- Connections for central lubrication
- Simple and safe wear adjustment
- Automatic safety lock option
- Approved for forced steering
- EC test no. e 11-00-1381



Lowered position



Overall height 100 mm



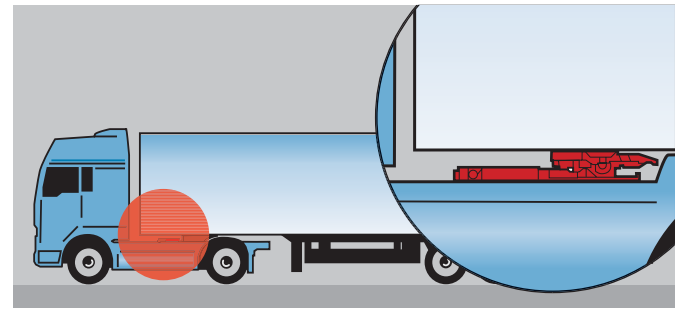
Overall height 150 mm



Overall height 200 mm

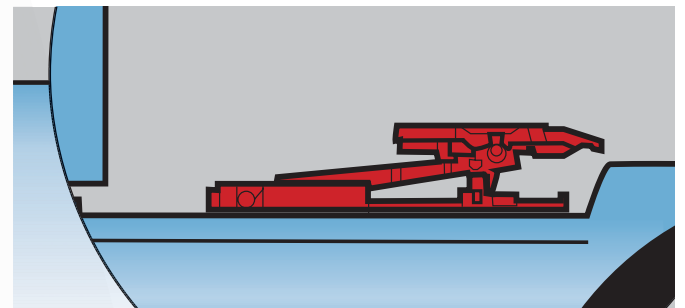


## Efficient



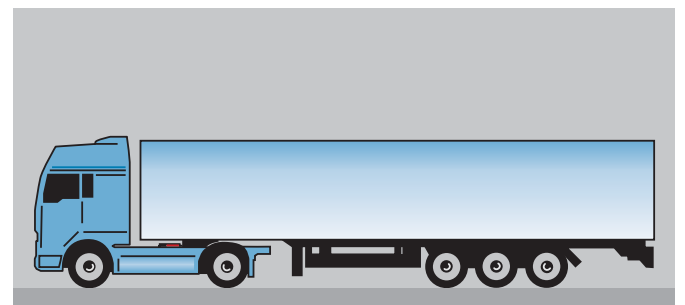
The versatility and diverse options offered by the height-adjustable fifth wheel provide significant benefits in the capacity utilization of your semitrailer trucks.

This in turn gives you greater flexibility and competitiveness in your pricing, ultimately resulting in significantly higher profits. The sturdy design is robust and only involves minor maintenance costs after purchase. Downtimes are reduced to an absolute minimum – flexibility is the key advantage.



## Sturdy

As manufacturer of the most lightweight fifth wheel in the world, we have deliberately not aimed for weight reduction when designing the height-adjustable fifth wheel, but instead given priority to stability and sturdiness. To ensure a long and reliable service life for this fifth wheel, all elements require a solid design in a raised position in particular, so as to absorb the resultant forces without any problems. The simple design without sensitive pneumatic components enables our customers to extend the use of their fifth wheel to a second or third service life on newly purchased semitrailer trucks. Simple, robust and reliable – three outstanding benefits in one.



## Detachable

The height-adjustable fifth wheel SK S 36.20 PLUS H is part of a well-conceived and modular system. RECOSS®, the electronic assistant, gives the driver an added element of safety. It goes without saying that RECOSS® also offers economic benefits – intelligent options for success.

# Height-adjustable fifth wheel - Versatile in use

The Georg Fischer 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 optimized model
- Permanent, maintenance-free bearings
- Connections for central lubrication
- Simple and safe wear adjustment
- Automatic safety lock option
- 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 ordering
- 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

### 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 |

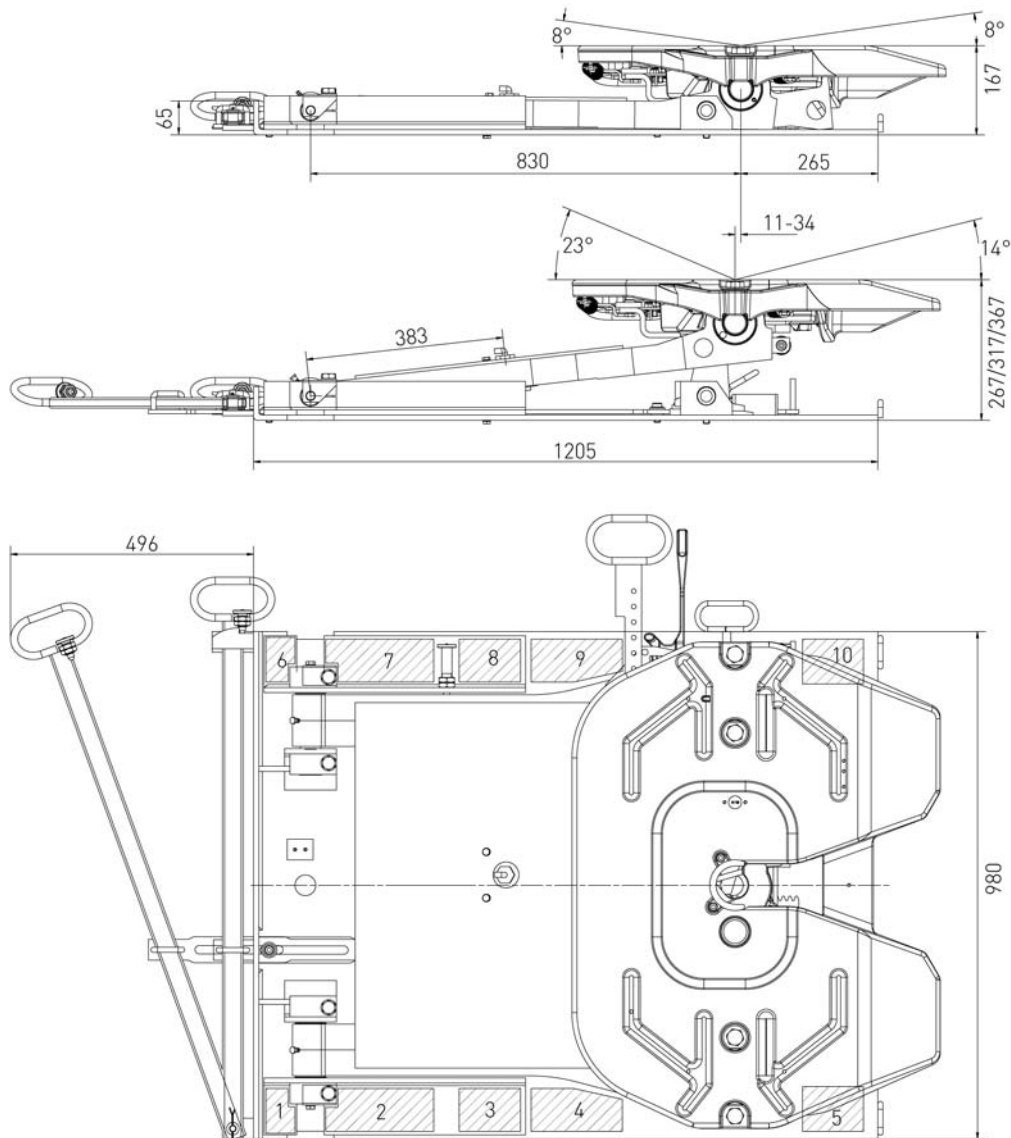
### Lift sub-assembly, complete

| 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 change when adjusting height: 11 mm [267] / 24 mm [317] / 34 mm [367]

## Dimensions



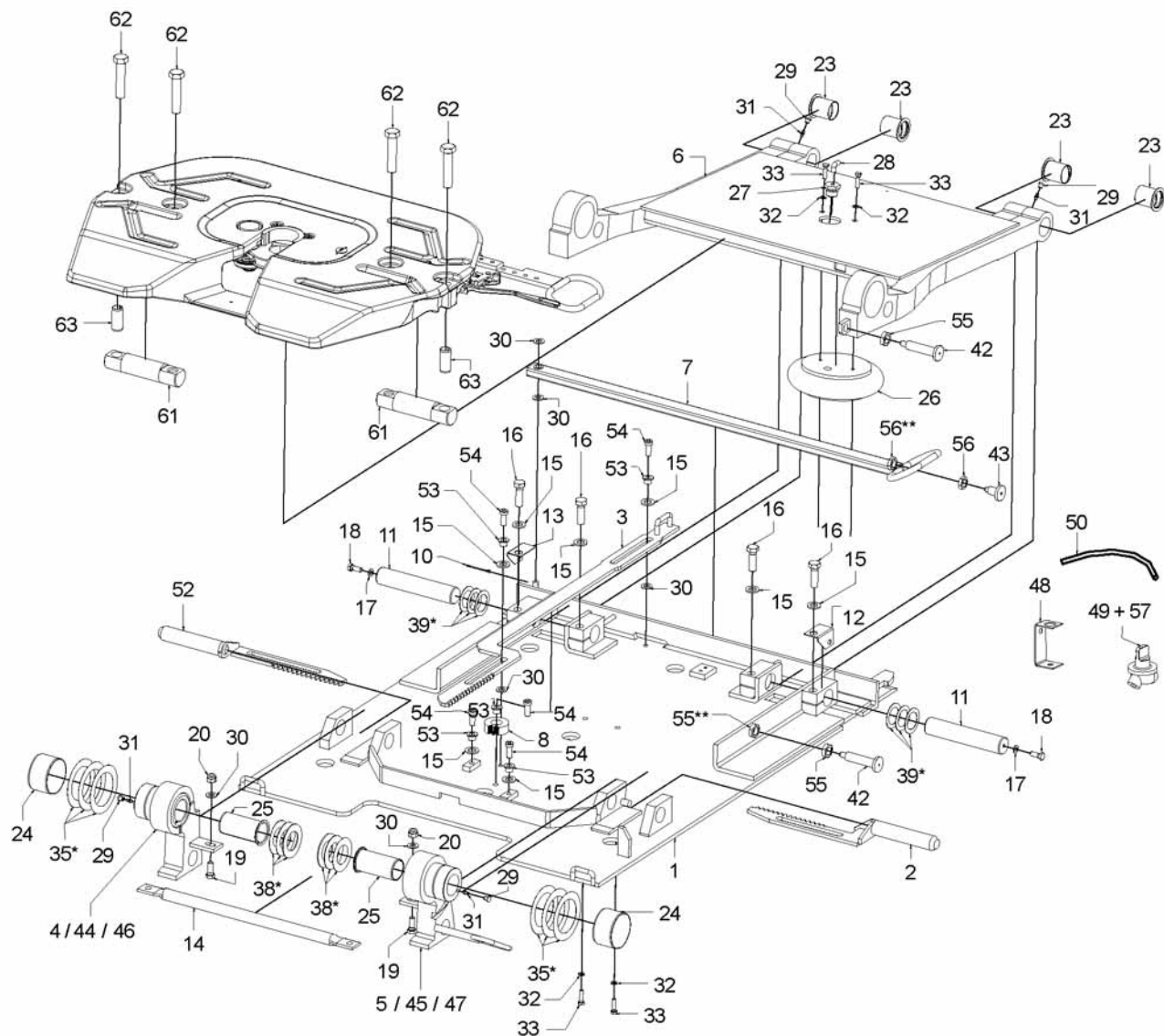
- The fixing holes (max.  $\varnothing 21$  mm) may be drilled in these 10 areas.
- Increase number of bolts accordingly when using bolts with a smaller diameter
- Mounting hole pattern in accordance with DIN 74081
- Depending on the wheelbase, an additional mounting angle set is required for installing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

## Mounting kits for SK-S 36.20 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)         | 14 x M16 | 662 101 726 |
| Mounting kit 728              | Volvo (FH12)                                   | 20 x M14 | 662 101 728 |
| Mounting kit 729              | Scania (CA, LA, DA)                            | 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     |          | 662 101 735 |
| Scania mounting angle kit 735 | Kit needed for Scania wheelbase of 3550 mm     |          | 662 101 734 |

# Spare parts SK-S 36.20 PLUS H

When placing your order, please 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 parts list of the respective fifth wheel type.



| Item | Component (price per piece)                      | Pcs. | Order no.   |
|------|--------------------------------------------------|------|-------------|
|      | Repair kits for rocker bearing (11,23,39)        |      | 662 132 195 |
|      | Repair kits for support bearing (19,20,24,25,35) |      | 662 132 196 |
| 1    | Base plate                                       | 1    | 662 132 105 |
| 2    | Gear bolt                                        | 1    | 662 132 161 |
| 3    | Actuating rod                                    | 1    | 662 132 162 |
| 4    | Left support 100 mm complete                     | 1    | 662 132 181 |
| 5    | Right support 100 mm complete                    | 1    | 662 132 182 |
| 6    | Rocker arm                                       | 1    | 662 132 165 |
| 7    | Locking lever                                    | 1    | 662 132 170 |



| Item | Component (price per piece)                           | Pcs. | Order no.   |
|------|-------------------------------------------------------|------|-------------|
| 8    | Toothed wheel                                         | 1    | 662 132 119 |
| 10   | Splint pin                                            | 1    | 662 132 205 |
| 11   | Stud                                                  | 2    | 662 132 110 |
| 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                                            | 3    | 662 132 198 |
| 38*  | Spacer set                                            | 3    | 662 132 197 |
| 39*  | Spacer set                                            | 3    | 662 132 199 |
| 42   | Spring lock                                           | 2    | 662 132 172 |
| 43   | Spring lock                                           | 1    | 662 132 171 |
| 44   | Left support 150 mm complete                          | 1    | 662 132 183 |
| 45   | Right support 150 mm complete                         | 1    | 662 132 184 |
| 46   | Left support 200 mm complete                          | 1    | 662 132 185 |
| 47   | Right support 200 mm complete                         | 1    | 662 132 186 |
| 48   | Mounting plate                                        | 1    | 662 132 139 |
| 49   | Operating valve (3/2-way valve)                       | 1    | 662 132 156 |
| 50   | Pneumatic hose                                        | 1    | 662 132 169 |
| 51   | Central lubrication system BEKA-MAX                   | 1    | 662 132 041 |
| 52   | Toothed rack (LHS)                                    | 1    | 662 132 173 |
| 53   | Flanged bush                                          | 5    | 662 132 174 |
| 54   | Cap head bolt                                         | 5    | 659 112 381 |
| 55** | Nut                                                   | 3    | 659 115 313 |
| 56** | Nut                                                   | 2    | 659 115 312 |
| 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 |
| 57   | Hex. nut                                              | 1    | 659 115 314 |

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

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

39\*) Set contains spacers D 65x40.5x0.5, D 65x40.5x1, D 65x40.5x2

\*\*\*) Component welded with unit



# GES 20 (Steel-pressed fifth wheel)

## Light fifth wheel made of pressed steel

- Designed for 2-axle semi-trailer tractors
- Simple, maintenance friendly toplevel construction
- Automatic safety lock
- Can be mounted on slider SK-V 20
- Simple and safe wear adjustment
- Steering wedge capable
- EG approval no. prepared

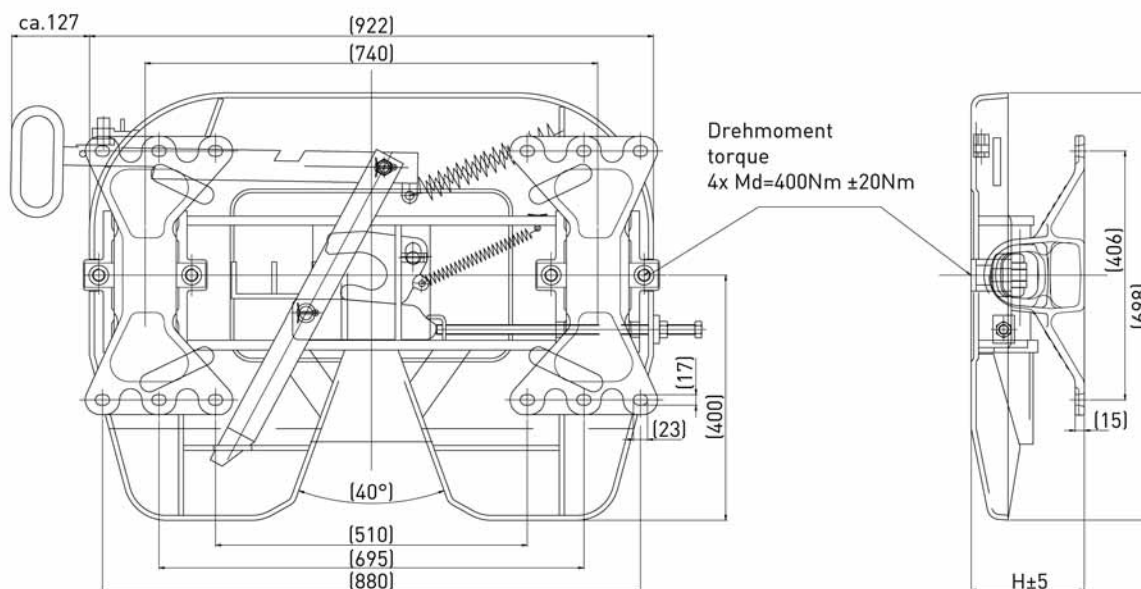


### Technical data

| 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     | 122    | 15° / 15°            | 662 133 047 |
| GES 20 | 2"        | 185            | 20           | 152     | 126    | 15° / 15°            | 662 133 048 |
| GES 20 | 2"        | 225            | 20           | 152     | 127    | 15° / 15°            | 662 133 029 |
| GES 20 | 2"        | 250            | 20           | 152     | 137    | 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 in the H50 class and mounting plates in the J class 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  
Subject to modifications in dimensions and design

# 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 lock mechanism
- Suitable for steering wedge
- Special pneumatically operated version for harbour application

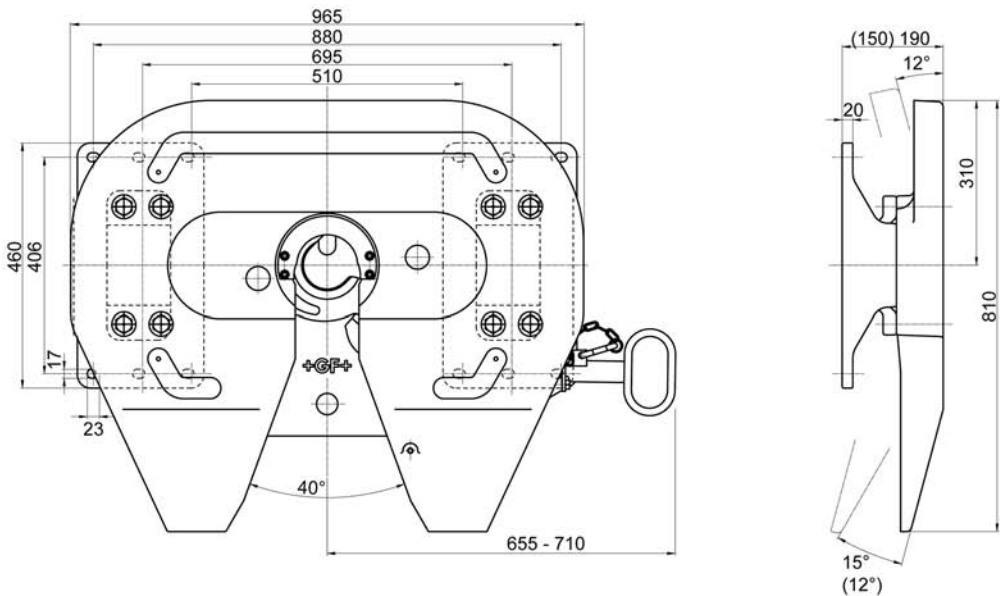


### Technical data

| Type          | Lock size | Overall height | Imposed load | D-value | Weight | Angle of inclination | Order no.   |
|---------------|-----------|----------------|--------------|---------|--------|----------------------|-------------|
|               | inch      | mm             | t            | kN      | kg     | 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")

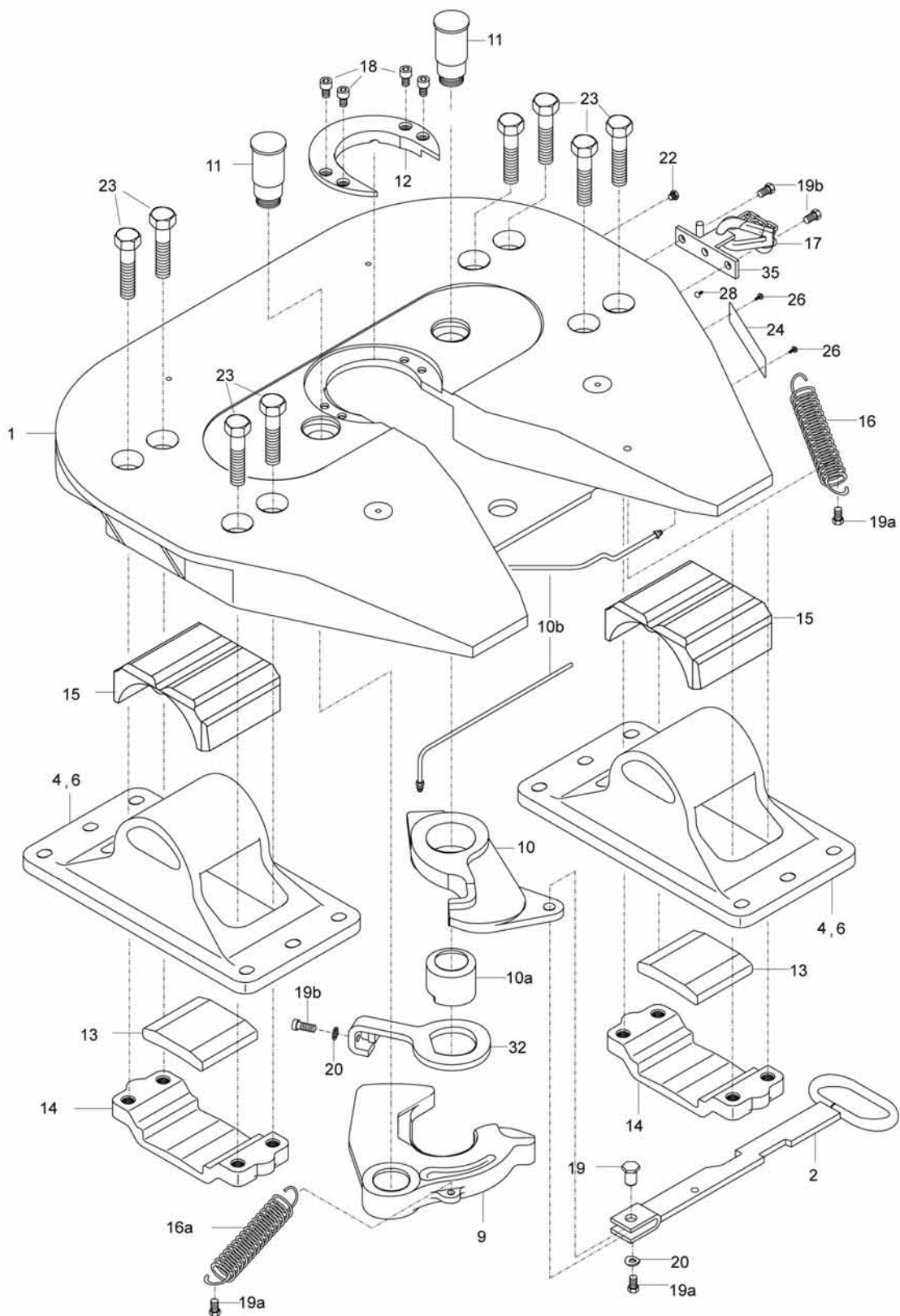
### Dimensions



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

## Spare parts SK-HD 38.36 from serial no. 40001301

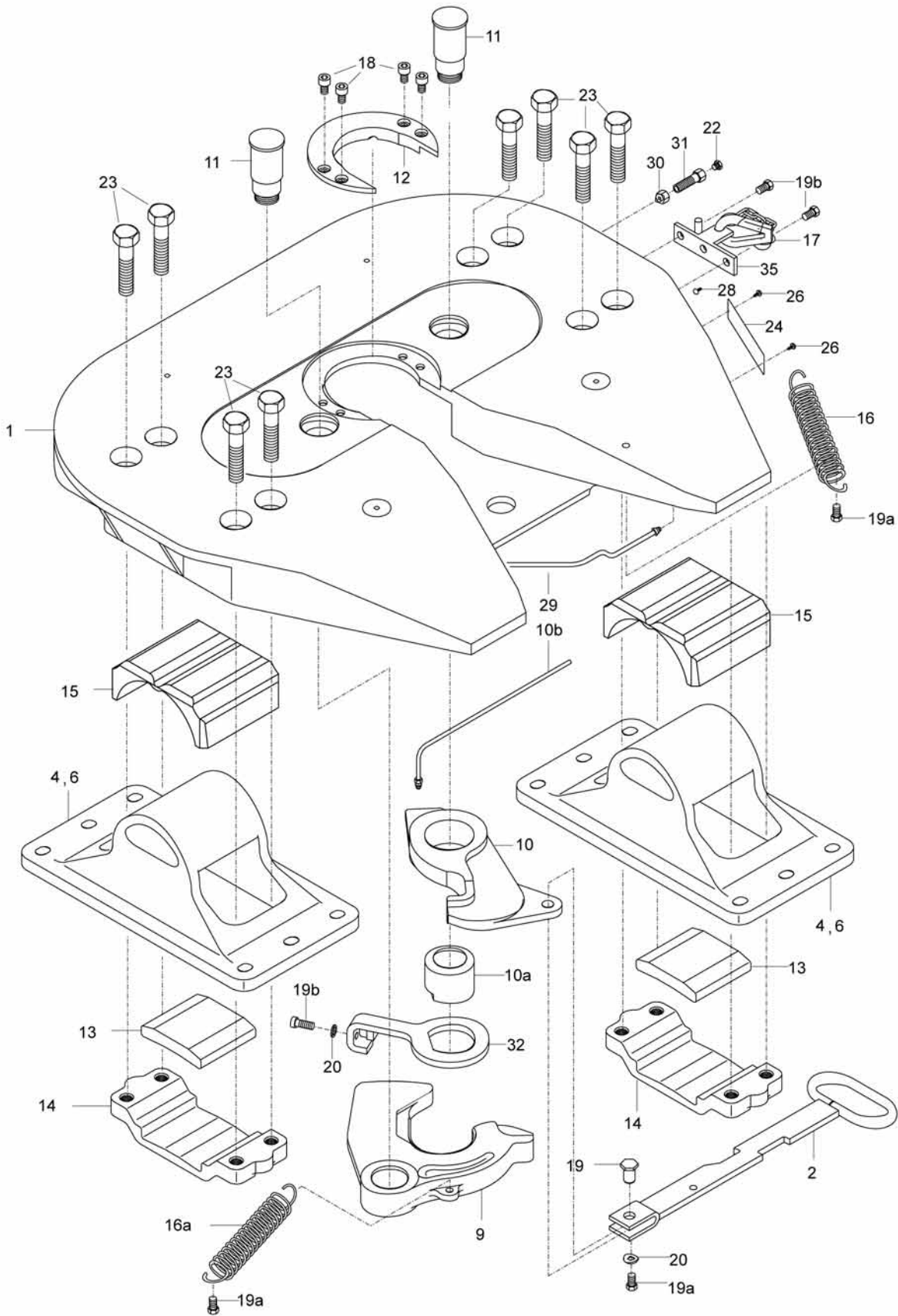
**Please note: Also applies to the serial no. 40001055-1144 and 40001195-1216**



| Item | Component (price per piece)                                                | Pcs. | 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 |
|      | 3 1/2" Repair kit for locking mechanism and bearings (9,11,12,13,15,18,23) |      | 662 101 707 |
|      | 3 1/2" Repair kit for locking mechanism (9,11,12,18)                       |      | 662 101 709 |
|      | 3 1/2" Repair kit for bearings (13,15,23)                                  |      | 662 101 457 |
|      | 3 1/2" Repair kit for wear ring (12,18)                                    |      | 662 101 711 |
|      | Conversion kit from 3 1/2" to 2" (9,12,18,24,26)                           |      | 662 101 704 |
|      | Conversion kit from 2" to 3 1/2" (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, 3 1/2"                                                        | 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 3 1/2"                                                           | 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   | Stud                                                                       | 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   | Manufacturer's plate                                                       | 1    | 659 120 380 |
| 26   | Rivet                                                                      | 2    | 662 126 173 |
| 28   | Hammer rivet                                                               | 1    | 662 126 151 |
| 32   | Fork assembly                                                              | 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 no. 40001300

**Please note: Spare parts for serial numbers 40001055-1144, 40001195-1216 see new spare parts list from serial no. 40001301.**



| Item | Component (price per piece)                                                | Serial no.   | Pcs. | 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 |
|      | 3 1/2" Repair kit for locking mechanism and bearings (9,11,12,13,15,18,23) |              |      | 662 101 454 |
|      | 3 1/2" Repair kit for locking mechanism (9,11,12,18)                       |              |      | 662 101 456 |
|      | 3 1/2" Repair kit for bearings (13,15,23)                                  |              |      | 662 101 457 |
|      | 3 1/2" Repair kit for wear ring (12,18)                                    |              |      | 662 101 564 |
|      | Conversion kit from 3 1/2" to 2" (9,12,18,24,26)                           |              |      | 662 101 431 |
|      | Conversion kit from 2" to 3 1/2" (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, 3 1/2"                                                        |              | 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 3 1/2"                                                           |              | 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   | Stud                                                                       |              | 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   | Manufacturer's 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 |



## Notes

# SK-HD 38.36 G (off-road use)

## The cast 36t heavy duty fifth wheel

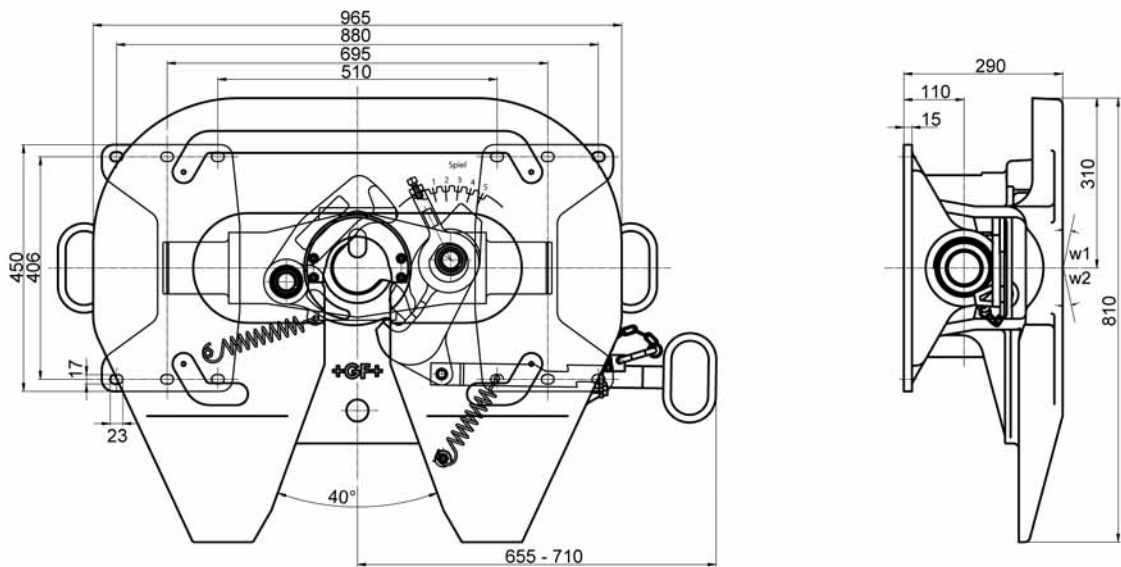
- Suitable for off-road use with oscillating bearings
- Max. tilt  $\pm 7^\circ$  around the longitudinal axis
- Simple and safe handling
- 5-stage wear adjustment
- Quick conversion from 3 1/2" to 2" and vice versa
- Suitable for steering wedge applications



### 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   | 3 1/2"    | 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 |

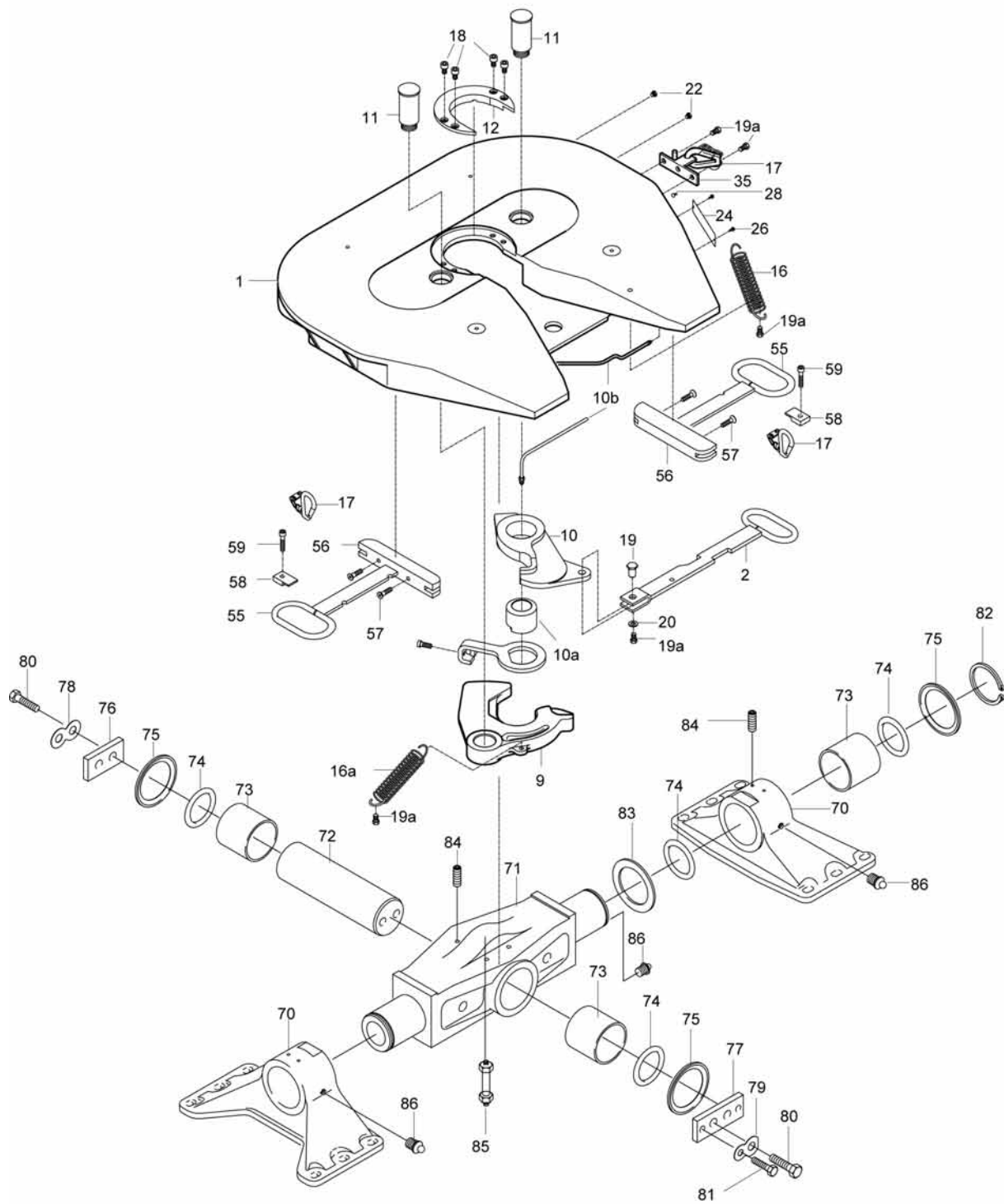
### Dimensions



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

# Spare parts SK-HD 38.36 G from serial no. 40001301

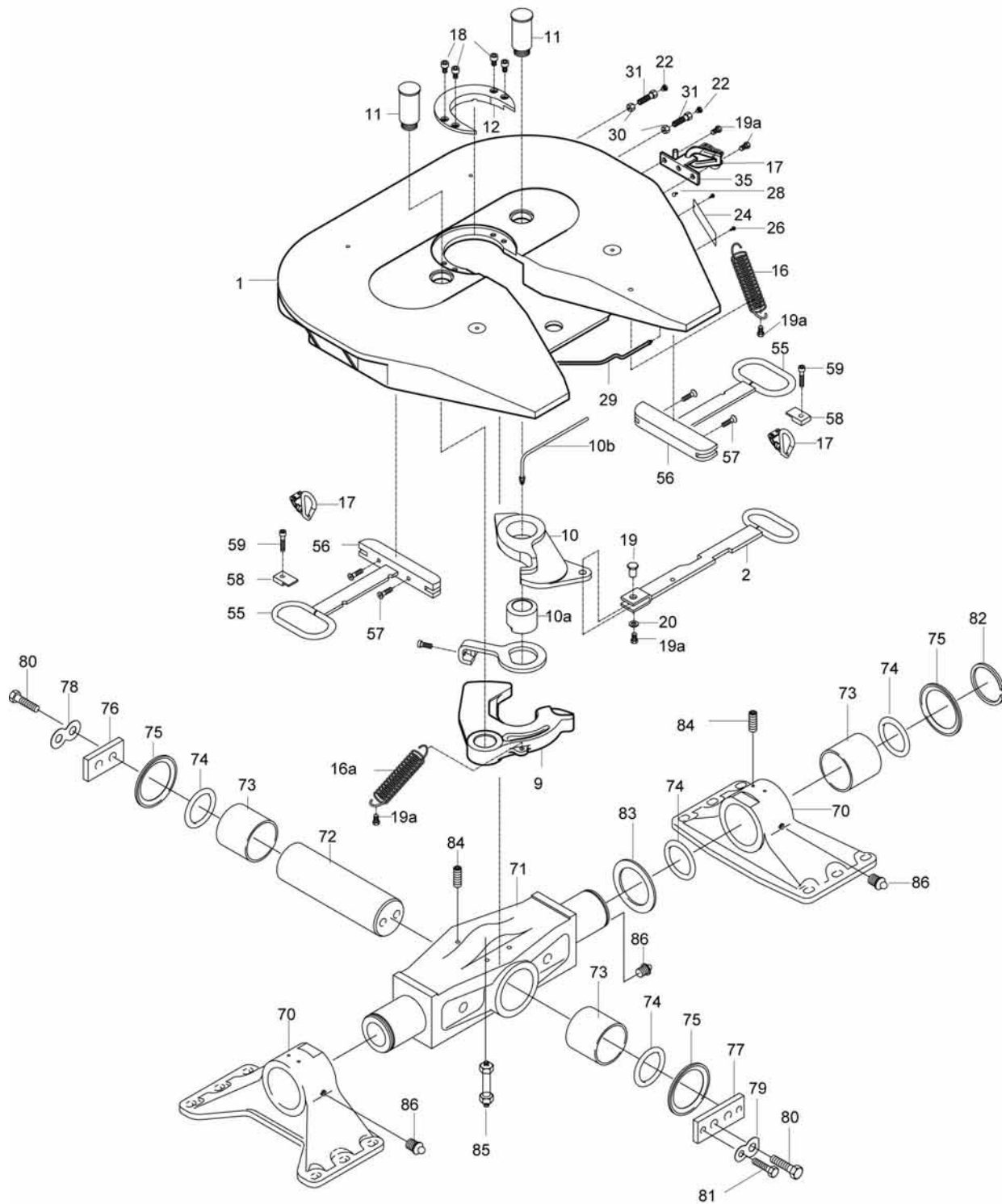
Important: Also applies to the serial no. 40001055-1144 and 40001195-1216



| Item | Component (price per piece)                                             | Pcs. | Order no.   |
|------|-------------------------------------------------------------------------|------|-------------|
|      | Repair kit for locking mechanism 3 1/2" (9,11,12,18)                    |      | 662 101 456 |
|      | Repair kit for bearing sub-assembly 3 1/2" (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 3 1/2" to 2"                                             |      | 662 101 704 |
|      | Conversion kit 2" to 3 1/2"                                             |      | 662 101 705 |
| 1    | Fifth wheel plate                                                       | 1    | 662 111 261 |
| 2    | Operating handle                                                        | 1    | 662 111 276 |
| 9    | Coupler jaw assembly 3 1/2"                                             | 1    | 662 111 247 |
| 9    | Coupler jaw assembly 2"                                                 | 1    | 662 111 249 |
| 10   | Locking hook assembly                                                   | 1    | 662 111 239 |
| 10a  | Cam                                                                     | 1    | 662 111 317 |
| 10b  | Lubrication tube assembly                                               | 2    | 659 144 106 |
| 11   | Pin                                                                     | 2    | 662 111 347 |
| 12   | Wear ring 3 1/2"                                                        | 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 bolt                                                                | 4    | 659 112 624 |
| 19   | Stud                                                                    | 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   | Manufacturer's 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   | Countersunk 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 no. 40001300

Important: Spare parts for serial numbers 40001055-1144, 40001195-1216  
see new spare parts list from serial no. 40001301.



| Item | Component (price per piece)                                             | Pcs. | Order no.   |
|------|-------------------------------------------------------------------------|------|-------------|
|      | Repair kit for locking mechanism 3 1/2" (9,11,12,18)                    |      | 662 101 456 |
|      | Repair kit for bearing sub-assembly 3 1/2" (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 3 1/2"                                             |      | 662 101 432 |
|      | Conversion kit 3 1/2" to 2"                                             |      | 662 101 431 |
| 1    | Fifth wheel plate                                                       | 1    | 662 111 261 |
| 2    | Operating handle                                                        | 1    | 662 111 276 |
| 9    | Coupler jaw assembly 3 1/2"                                             | 1    | 662 111 247 |
| 9    | Coupler jaw assembly 2"                                                 | 1    | 662 111 249 |
| 10   | Locking hook assembly                                                   | 1    | 662 111 239 |
| 10a  | Cam                                                                     | 1    | 662 111 322 |
| 10b  | Lubrication tube                                                        | 1    | 662 130 118 |
| 11   | Pin                                                                     | 2    | 662 111 316 |
| 12   | Wear ring 3 1/2"                                                        | 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 bolt                                                                | 4    | 659 112 363 |
| 19   | Stud                                                                    | 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   | Manufacturer's 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   | Countersunk 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 |



# SK-L 26.3

## The new "lightweight" for distribution vehicles

Specially developed for distribution vehicles, Georg Fischer offers a particularly lightweight and maintenance-friendly fifth wheel with an imposed load of up to 3 tonnes for reliable and flexible application.

- Maintenance-friendly
- Higher payload - lower dead weight
- Optimum component design through spheroidal graphite cast iron construction

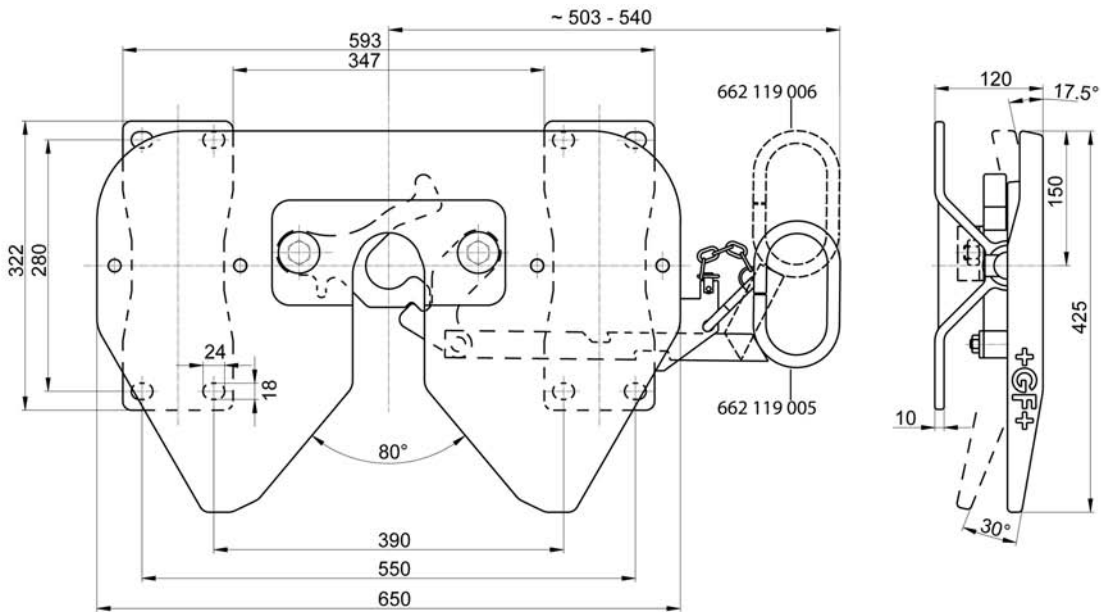


### Technical data

| Type      | Overall height | D-value | Weight | Angle of inclination | Coupling point | Order no.   |
|-----------|----------------|---------|--------|----------------------|----------------|-------------|
|           | mm             | kN      | kg     | degree (w1/w2)       |                |             |
| SK-L 26.3 | 120            | 22.5    | 34.5   | 30°/17.5°            | from 101 mm    | 662 119 005 |
| SK-L 26.3 | 120            | 22.5    | 34.5   | 30°/17.5°            | up to 100 mm   | 662 119 006 |

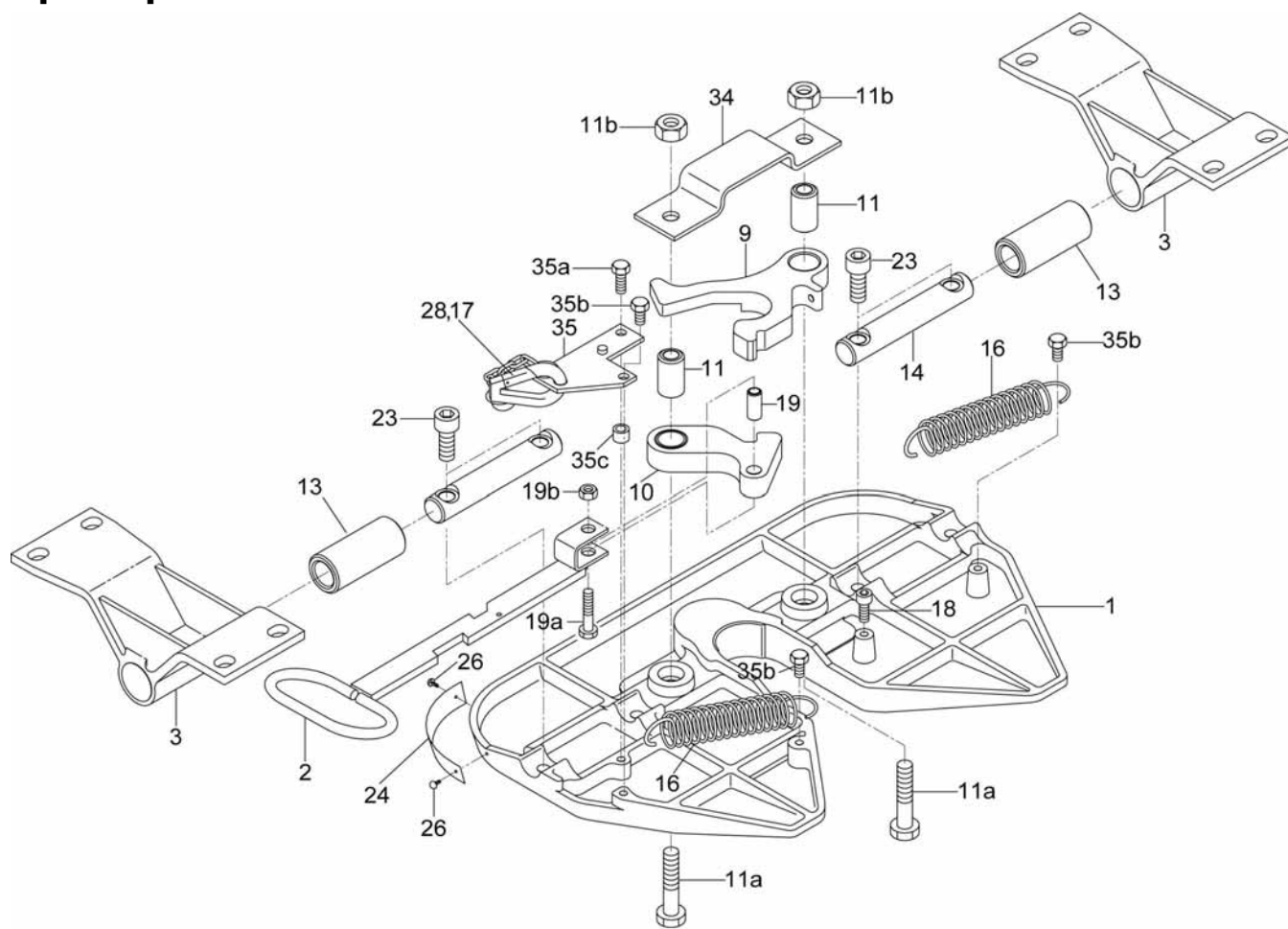
- Later conversion from ..005 to ..006 possible and vice-versa
- EU test no.: e 1-00-0474

### Dimensions



Subject to modifications in dimensions and design

## Spare parts SK-L 26.3



| Item | Component (price per piece)      | Serial no.   | Pcs. | 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 bush                      |              | 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 bolt                         | 0 - 108683   | 1    | 659 112 358 |
| 19   | Stud                             |              | 1    | 662 119 144 |
| 19a  | Hex. bolt                        |              | 1    | 659 112 357 |
| 19b  | Nut                              |              | 1    | 659 100 036 |
| 23   | Cap bolt                         |              | 4    | 659 112 356 |
| 24   | Manufacturer's plate D/E/F       |              | 1    | 659 120 375 |
| 26   | Rivet (3x8)                      |              | 2    | 662 126 173 |
| 28   | Hammer rivet                     |              | 1    | 662 126 151 |
| 34   | Bridge plate                     |              | 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 |

## Notes

## Mobility

## With the original for the original

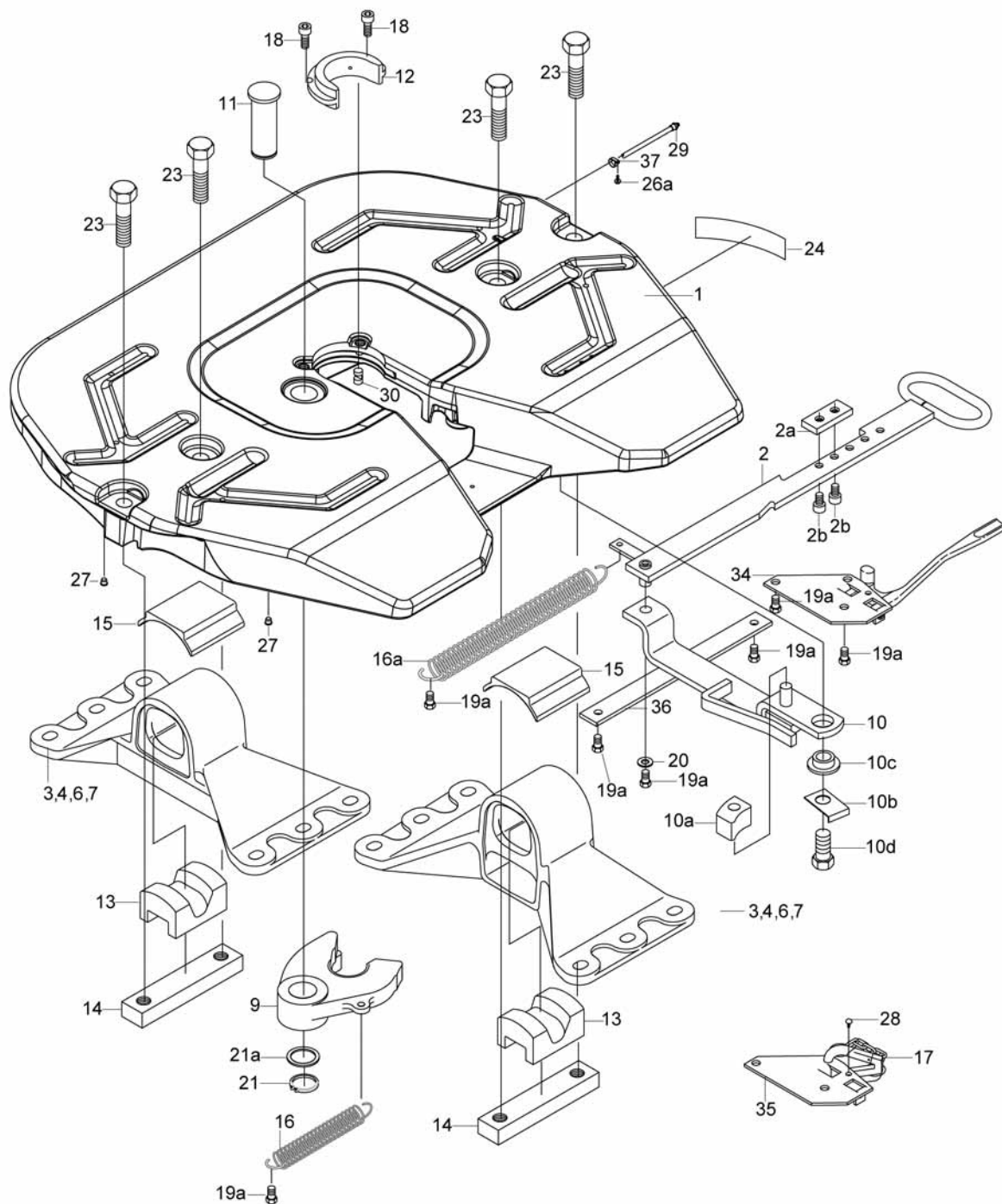
Georg Fischer spare parts.  
Convincing in price and  
guaranteed quality.

With correct maintenance  
and care, the service life of  
the fifth wheel is increased  
significantly.

All movable parts on the  
SK-S 36.20 can be replaced  
with just a few turns.

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

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. | 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 |

| Item | Component (price per piece)         | Serial no.    | Pcs. | Order no.   |
|------|-------------------------------------|---------------|------|-------------|
| 1    | Fifth wheel plate                   |               | 1    | 662 129 371 |
| 2    | Operating handle, complete (2a, 2b) | 13000 - ...   | 1    | 662 129 166 |
| 2    | Operating handle                    | 12000 - 12999 | 1    | 662 129 146 |
| 2    | Operating handle                    | 0 - 11999     | 1    | 662 129 130 |
| 2a   | Adjustment plate                    | 13000 - ...   | 1    | 662 129 158 |
| 2a   | Adjustment plate                    | 0 - 12999     | 1    | 662 129 133 |
| 2b   | Cap bolt                            | 13000 - ...   | 2    | 659 112 371 |
| 2b   | Cap bolt                            | 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 bolt                            | 12999 - ...   | 2    | 659 112 372 |
| 18   | Cap bolt                            | 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 |



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

All fifth wheel models of the phased-out range SK-S 36.20 can be equipped with the RECOSS® **2-sensor** safety system.

Fifth wheels of the PLUS generation are specially prepared for the new RECOSS® **3-sensor** system. These order no. can be found in chapter SK-S 36.20 PLUS S RECOSS®.

## Installation kit for SK-S 36.20 S (2-sensor version)

The installation kit contains all the components for connecting a SK-S 36.20 (phased-out range) to the vehicle electronic system. Not included are the indicator lights which must be separately ordered from the respective vehicle manufacturer.

| Type                                                 | Note                   | Order no.   |
|------------------------------------------------------|------------------------|-------------|
| RECOSS® installation kit for all SK-S 36.20 S models | 2 sensors, ADR version | 662 129 344 |

## Conversion kit for SK-S 36.20 (2-sensor version)

All fifth wheel models of the SK-S 36.20 generation can be retrofitted with the RECOSS® 2-sensor safety system. The conversion kit contains the installation kit, as well as all the necessary components except the indicator lights which must be separately ordered from the respective vehicle manufacturer.

| Type                                                 | Note                      | Order no.   |
|------------------------------------------------------|---------------------------|-------------|
| RECOSS® conversion kit for all SK-S 36.20 (complete) | contains installation kit | 662 129 189 |

## Repair kits and spare parts

| Type                                                     | Pcs. | Order no.   |
|----------------------------------------------------------|------|-------------|
| Repair kit for sensors (2-sensor model)                  |      | 662 129 426 |
| Repair kit for lock mechanism SK-S 36.20 S               |      | 662 101 716 |
| Repair kit for lock mechanism and bearings SK-S 36.20 S  |      | 662 101 717 |
| Repair kit for lock mechanism SK-S 36.20 WS              |      | 662 101 718 |
| Repair kit for lock mechanism and bearings SK-S 36.20 WS |      | 662 101 719 |
| Coupler jaw SK-S 36.20 S                                 | 1    | 662 129 161 |
| Coupler jaw SK-S 36.20 WS                                | 1    | 662 131 115 |
| Circlip                                                  | 1    | 659 100 027 |
| Automatic latch, complete (2 sensors)                    |      | 662 129 165 |
| Bolts for lock mechanism (M10)                           | 2    | 659 112 359 |
| Cable clip                                               | 6    | 662 129 168 |
| Bolts for coupler jaw sensor (M4)                        | 2    | 659 112 376 |
| Wiring loom assembly (9a,9b,9c,9d)                       |      | 662 129 170 |
| Extension cable to control unit                          | 1    | 662 129 504 |
| Adaptor cable for control unit                           | 1    | 662 129 505 |
| Connecting cable for vehicle electronic system           | 1    | 662 129 503 |
| Connecting cable for power supply                        | 1    | 662 129 501 |
| Control unit (2-sensor, ADR/GGVs suitable)               | 1    | 662 129 400 |
| Mounting adaptor for control unit                        | 1    | 662 129 404 |
| Cable tie                                                | 3    | 659 100 045 |
| Labels for indicator lights                              | 1    | 662 129 190 |

## Notes

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

Overall height 140 mm: GF-no.: **662129901**, 662129902

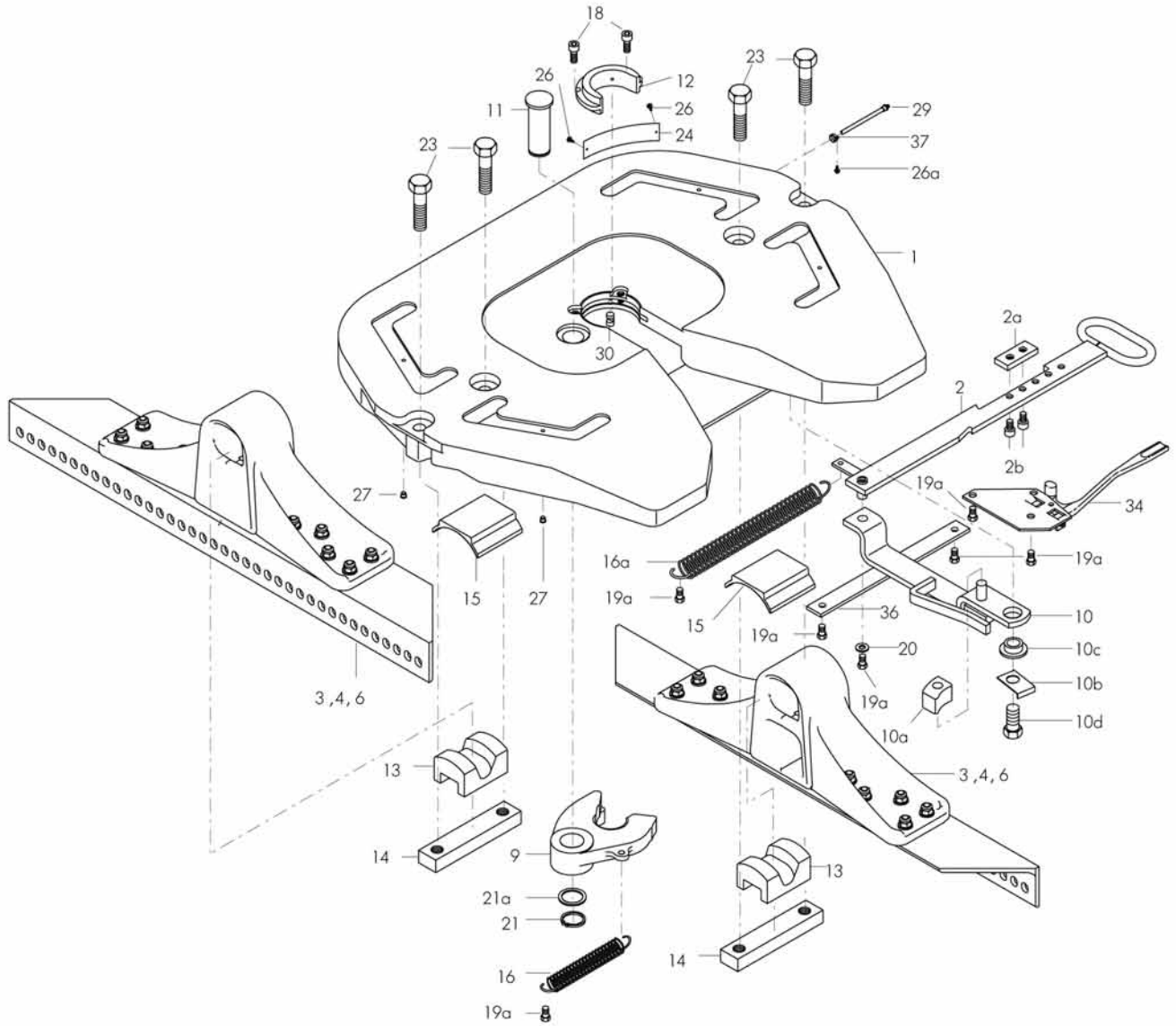
Overall height 140 mm: GF-no.: **662129911** with central lubrication kit

Overall height 160 mm: GF-no.: **662129903**, 662129904

Overall height 160 mm: GF-no.: **662129912**, **662129913** with central lubrication kit

Overall height 200 mm: GF-no.: **662129905**, 662129906

Overall height 160 mm: GF-no.: **662129914**, **662129915** with central lubrication kit

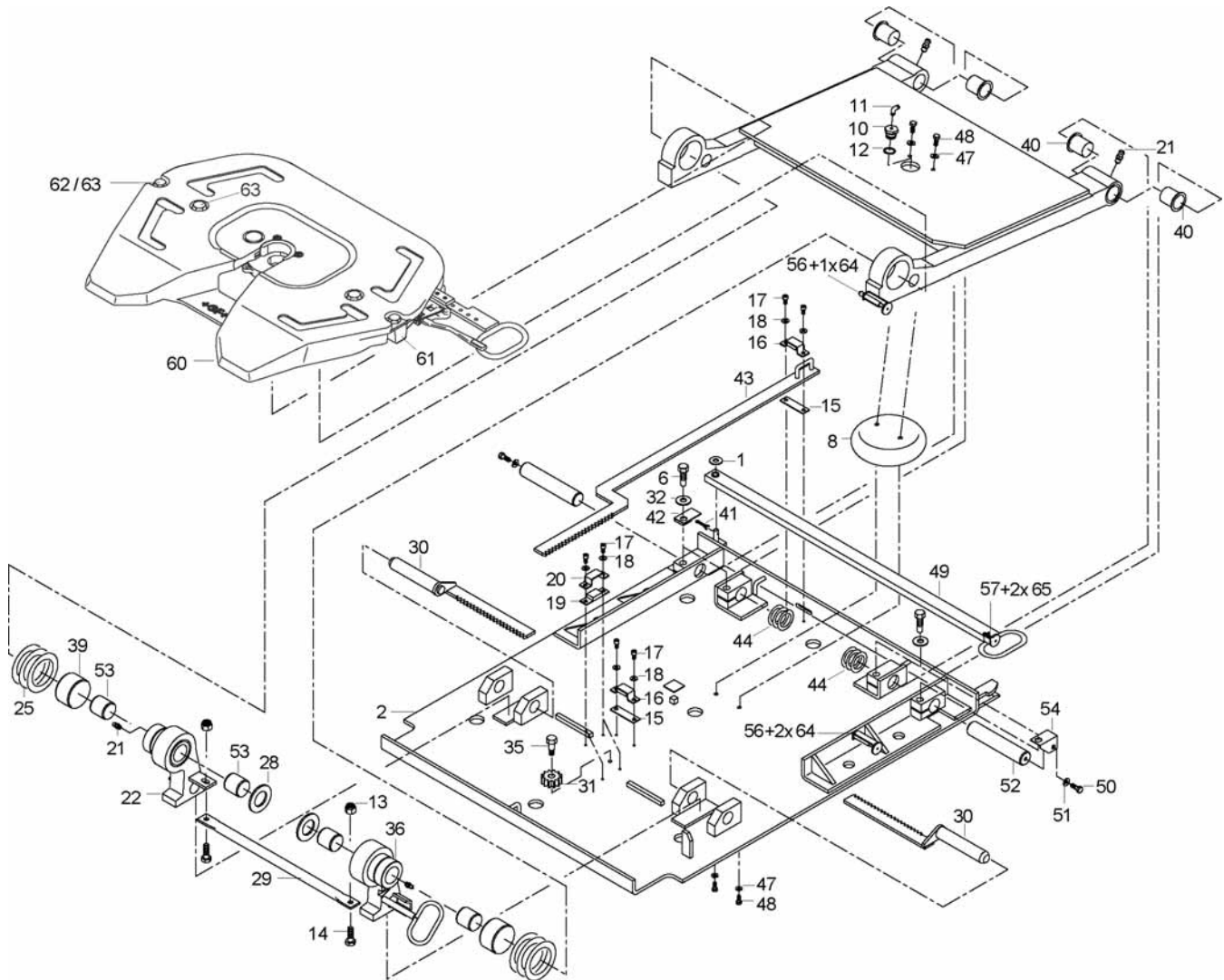


| Item | Component (price per piece)                                            | Pcs. | Order no.   |
|------|------------------------------------------------------------------------|------|-------------|
|      | Repair kit for locking mechanism and bearings (9,11,12,13,15,18,21,23) |      | 662 101 493 |
|      | Repair kit for locking mechanism (9,11,12,18,21)                       |      | 662 101 492 |
|      | Repair kit for bearings (13,15,23)                                     |      | 662 101 473 |
| 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 bolt                                                               | 2    | 659 112 371 |
| 3    | Mounting angle 140 mm left [right], complete                           | 1    | 662 126 249 |
| 3    | Mounting angle 140 mm right [left], complete                           | 1    | 662 126 248 |
| 4    | Mounting angle 160 mm left [right], complete                           | 1    | 662 126 240 |
| 4    | Mounting angle 160 mm right [left], complete                           | 1    | 662 126 241 |
| 6    | Mounting angle 200 mm left [right], complete                           | 1    | 662 126 237 |
| 6    | Mounting angle 200 mm 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 bolt                                                               | 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   | Manufacturer's 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 |

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

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

When placing your order, please 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 parts list of the respective fifth wheel type.



| Item | Component (price per piece)                      | Pcs. | 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 |
| 7    | Rocker arm                                       | 1    | 662 132 131 |
| 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 |
| 22   | Left support 100 mm                              | 1    | 662 132 122 |

| Item | Component (price per piece)                    | Pcs. | Order no.   |
|------|------------------------------------------------|------|-------------|
| 22   | Left support 150 mm                            | 1    | 662 132 125 |
| 22   | Left support 200 mm                            | 1    | 662 132 128 |
| 25   | Set of spacers *                               | 1    | 662 132 198 |
| 28   | Set of spacers **                              | 1    | 662 132 197 |
| 29   | Guide pipe                                     | 1    | 662 132 120 |
| 30   | Gear bolt                                      | 2    | 662 132 138 |
| 31   | Toothed wheel                                  | 1    | 662 132 119 |
| 32   | Washer                                         | 4    | 662 132 206 |
| 35   | Bolt                                           | 1    | 659 112 381 |
| 36   | Right support 100 mm                           | 1    | 662 132 123 |
| 36   | Right support 150 mm                           | 1    | 662 132 126 |
| 36   | Right support 200 mm                           | 1    | 662 132 129 |
| 39   | Bush (D 85x80x50)                              | 2    | 662 132 130 |
| 40   | Bush (D 44x40x50 WG66)                         | 4    | 662 132 132 |
| 41   | Splint 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   | Stud                                           | 2    | 662 132 110 |
| 53   | Bush                                           | 4    | 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   | Locking nut                                    | 3    | 659 115 313 |
| 65   | Locking nut                                    | 2    | 659 115 312 |
|      | Holding plate (not shown)                      | 1    | 662 132 139 |
|      | 3/2-way valve (not shown)                      | 1    | 662 132 156 |
|      | Pneumatic hose 1.5 m (not shown)               | 1    | 662 132 169 |

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

\*\*) Set contains spacers 2x D 80x45x0.5, 2x D 80x45x1, 2x D 80x40.5x2

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

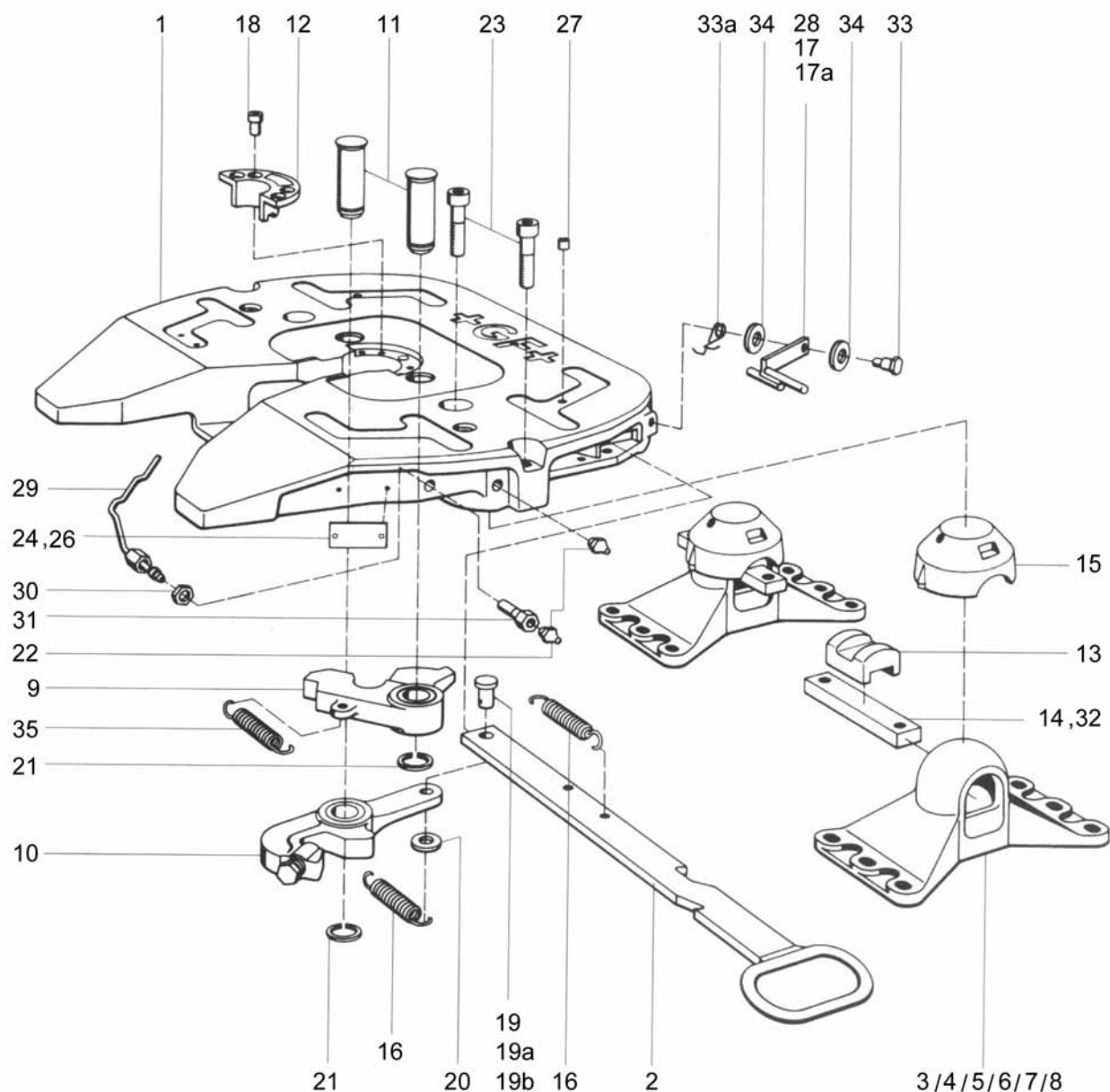


# Spare parts SK-S 36.22

**Model 1:** 662127102, 662127104, 662127106, 662127108, 662127110, 662127112, 662127114, 662127116

**Model 2:** 662127168-171

**Model 3:** 662127152-155, 662127179, 662127181



| Item | Component (price per piece)                                                  | Model | Serial no.   | Pcs. | Order no.   |
|------|------------------------------------------------------------------------------|-------|--------------|------|-------------|
|      | Repair kit for locking mechanism/bearings (9,11**,12,13,15,18,19a+b,21**,23) | 1     |              |      | 662 101 313 |
|      | Repair kit for locking mechanism/bearings (9,11**,12,13,15,18,19a+b,21**,23) | 2     |              |      | 662 101 368 |
|      | Repair kit for locking mechanism/bearings (9,11**,12,13,15,18,19a+b,21**,23) | 3     | 900000 - ... |      | 662 101 422 |
|      | Repair kit for locking mechanism/bearings (9,11**,12,13,15,18,19a+b,21**,23) | 3     | 0 - 899999   |      | 662 101 332 |
|      | Repair kit for locking mechanism (9,11**,12,18,19a+b,21**)                   | 1     |              |      | 662 101 314 |
|      | Repair kit for locking mechanism (9,11**,12,18,19a+b,21**)                   | 2     |              |      | 662 101 367 |
|      | Repair kit for locking mechanism (9,11**,12,18,19a+b,21**)                   | 3     | 900000 - ... |      | 662 101 423 |
|      | Repair kit for locking mechanism (9,11**,12,18,19a+b,21**)                   | 3     | 0 - 899999   |      | 662 101 333 |
|      | Repair kit for bearings (13,15,23)                                           | 1+2   |              |      | 662 101 315 |
|      | Repair kit for bearings (13,15,23)                                           | 3     |              |      | 662 101 334 |
| 1    | Fifth wheel plate                                                            | 1     |              | 1    | 662 126 207 |
| 1    | Fifth wheel plate *                                                          | 1     |              | 1    | 662 126 208 |
| 1    | Fifth wheel plate                                                            | 2     |              | 1    | 662 126 220 |
| 1    | Fifth wheel plate                                                            | 3     |              | 1    | 662 126 230 |

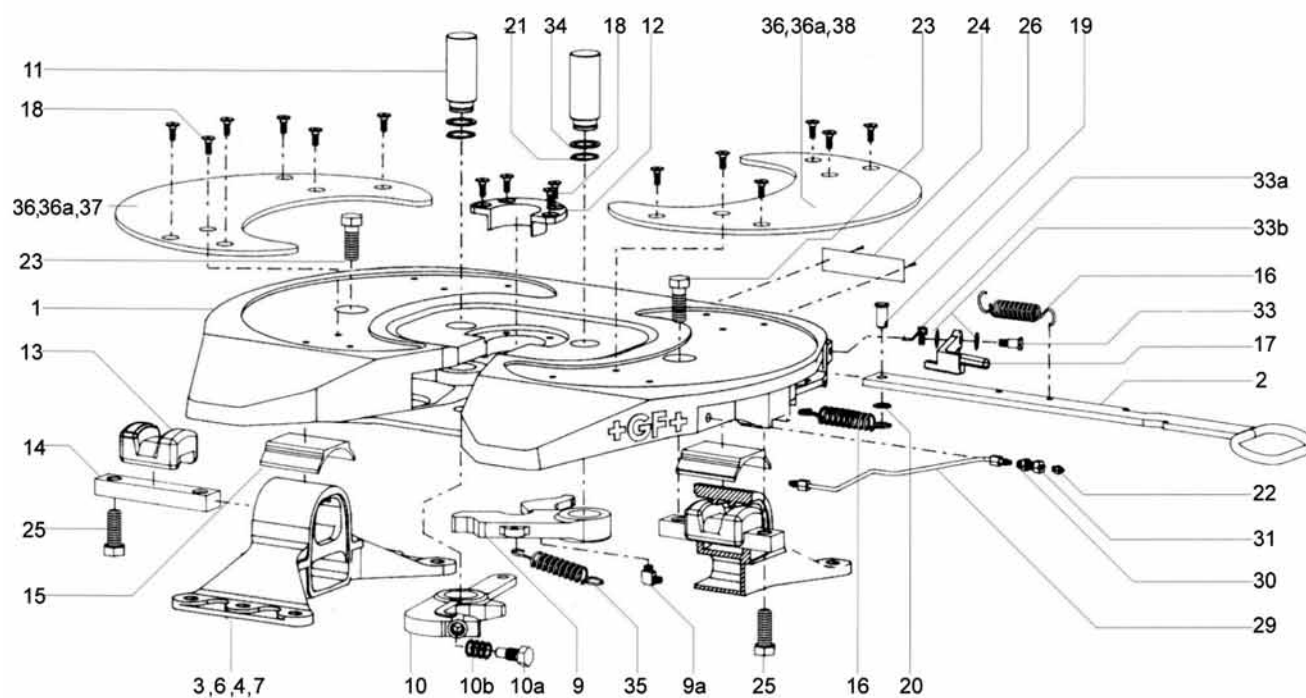
| Item | Component (price per piece)                       | Model | Serial no.   | Pcs. | Order no.   |
|------|---------------------------------------------------|-------|--------------|------|-------------|
| 2    | Operating handle                                  |       |              | 1    | 662 126 473 |
| 2    | Operating handle**, rear                          | 1     |              | 1    | 662 126 407 |
| 3    | Mounting bracket 128 mm                           | 3     |              | 2    | 662 126 636 |
| 4    | Mounting bracket 150 mm                           | 1+2   |              | 2    | 662 126 601 |
| 4    | Mounting bracket 150 mm                           | 3     |              | 2    | 662 126 631 |
| 5    | Mounting bracket 170 mm                           | 3     |              | 2    | 662 126 635 |
| 6    | Mounting bracket 185 mm                           | 1+2   |              | 2    | 662 126 602 |
| 6    | Mounting bracket 185 mm                           | 3     |              | 2    | 662 126 629 |
| 7    | Mounting bracket 250 mm                           | 1+2   |              | 2    | 662 126 603 |
| 7    | Mounting bracket 250 mm                           | 3     |              | 2    | 662 126 630 |
| 8    | Mounting bracket 300 mm                           | 1+2   |              | 2    | 662 126 604 |
| 8    | Mounting bracket 300 mm                           | 3     |              | 2    | 662 126 632 |
| 9    | Coupler jaw assembly                              |       |              | 1    | 662 126 403 |
| 10   | Locking hook assembly (incl. bolt, spacer washer) |       |              | 1    | 662 126 401 |
|      | Bolt                                              |       |              | 1    | 662 126 450 |
|      | Spacer washer                                     |       |              | 4    | 662 126 456 |
| 11   | Pin                                               | 1     |              | 2    | 662 126 409 |
| 11   | Pin                                               | 2     |              | 2    | 662 126 433 |
| 11   | Pin                                               | 3     |              | 2    | 662 126 441 |
| 12   | Wear ring                                         | 3     | 900000 - ... | 1    | 662 126 229 |
| 12   | Wear ring                                         |       | 0 - 899999   | 1    | 662 126 202 |
| 13   | Rubber damper                                     | 1+2   |              | 2    | 662 126 608 |
| 13   | Rubber damper                                     | 3     |              | 2    | 662 114 110 |
| 14   | Tensioning bar                                    | 1+2   |              | 2    | 662 126 607 |
| 14   | Tensioning bar                                    | 3     |              | 2    | 662 126 634 |
| 15   | Bearing                                           | 1+2   |              | 2    | 662 126 600 |
| 15   | Bearing                                           | 3     |              | 2    | 662 126 633 |
| 16   | Tension spring                                    |       |              | 2    | 662 126 410 |
| 17   | Carabiner hook with chain                         | 1+2   |              | 1    | 662 100 574 |
| 17a  | Safety cap                                        | 3     |              | 1    | 662 126 638 |
| 18   | Cap bolt                                          |       |              | 4    | 662 126 155 |
| 19   | Stud                                              | 1+3   |              | 1    | 662 126 429 |
| 19   | Stud                                              | 2     |              | 1    | 662 126 449 |
| 19a  | Bolt                                              | 2     |              | 1    | 662 126 172 |
| 19b  | Splint pin                                        | 1     |              | 1    | 662 126 183 |
| 20   | Washer                                            | 1+3   |              | 1    | 662 126 159 |
| 20   | Washer                                            | 2     |              | 1    | 662 126 175 |
| 21   | Circlip                                           | 3     |              | 2    | 662 126 169 |
| 21   | Split pin                                         | 1     |              | 2    | 659 100 041 |
| 21   | Splint / washer                                   | 2     |              | 1    | 662 126 174 |
| 22   | Grease nipple                                     | 1     |              | 1    | 662 126 168 |
| 22   | Grease nipple                                     | 2+3   |              | 1    | 662 126 224 |
| 23   | Cap bolt                                          | 3     |              | 1    | 662 125 171 |
| 23   | Nut                                               | 1+2   |              | 1    | 662 126 152 |
| 24   | Manufacturer's plate                              |       |              | 1    | 659 120 370 |
| 26   | Rivet                                             |       |              | 2    | 662 126 173 |
| 27   | Dust cap                                          |       |              | 5    | 662 126 223 |
| 28   | Hammer rivet                                      | 1+2   |              | 4    | 662 126 151 |
| 29   | Lubrication tube assembly                         | 2     |              | 1    | 662 126 452 |
| 29   | Lubrication tube assembly                         | 3     |              | 1    | 662 126 464 |
| 30   | Lock nut                                          | 2+3   |              | 1    | 662 126 176 |
| 31   | Eyebolt                                           | 2+3   |              | 1    | 662 126 465 |
| 32   | Hose clip                                         | 1+2   |              | 4    | 662 126 609 |
| 33   | Bolt                                              | 3     |              | 1    | 662 126 488 |
| 33a  | Torsion spring                                    | 3     |              | 1    | 662 126 640 |
| 34   | Spacer                                            | 3     |              | 2    | 662 126 495 |
| 35   | Tension spring                                    |       |              | 1    | 662 126 411 |

\* For fifth wheel models 662 127 104, 662 127 108, 662 127 112, 662 127 116

\*\* 1 pcs.

# Spare parts SK-S 36.22 W

For order no. 662 130 001 (128mm), 662 130 002 (150mm), 662 130 003 (185mm), 662 130 004 (250mm)



| Item | Component (price per piece)                                                   | Serial no.  | Pcs. | Order no.   |
|------|-------------------------------------------------------------------------------|-------------|------|-------------|
|      | Repair kit for locking mechanism and bearings (9,10b,11,12,13,15,18,21,23,25) |             |      | 662 101 447 |
|      | Repair kit for locking mechanism (9,10b,11,12,18,21)                          |             |      | 662 101 448 |
|      | Repair kit for bearings (13,15,23,25)                                         |             |      | 662 101 449 |
|      | Repair kit for slide coating (18,36)                                          | 20025 - ... |      | 662 101 469 |
|      | Repair kit for slide coating (18,37,38)                                       | MA-Nr.      |      | 662 101 450 |
| 1    | Fifth wheel plate                                                             |             | 1    | 662 130 120 |
| 2    | Unlocking handle                                                              |             | 1    | 662 126 473 |
| 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 |
| 7    | Mounting bracket 250 mm                                                       |             | 2    | 662 129 386 |
| 9    | Coupler jaw assembly                                                          |             | 1    | 662 130 104 |
| 9a   | Angle connector                                                               |             | 1    | 662 126 493 |
| 10   | Locking hook assembly                                                         |             | 1    | 662 130 110 |
| 10a  | Adjusting screw                                                               |             | 1    | 662 126 450 |
| 10b  | Shim ring                                                                     |             | 4    | 662 126 456 |
| 11   | Pin                                                                           |             | 2    | 662 126 472 |
| 12   | Wearing ring                                                                  |             | 1    | 662 130 123 |
| 13   | Rubber damper                                                                 |             | 2    | 662 114 110 |
| 14   | Tensioning spring                                                             |             | 2    | 662 130 107 |
| 15   | Bearing                                                                       |             | 2    | 662 130 101 |
| 16   | Tension spring                                                                |             | 2    | 662 126 410 |
| 17   | Safety cap                                                                    |             | 1    | 662 126 638 |
| 18   | Collar screw, special                                                         |             | 16   | 662 130 114 |
| 19   | Stud                                                                          |             | 1    | 662 126 471 |
| 20   | Disc                                                                          |             | 1    | 662 126 159 |
| 21   | Circlip                                                                       |             | 2    | 659 100 027 |
| 22   | Grease nipple                                                                 |             | 1    | 662 126 224 |
| 23   | Hex. screw                                                                    |             | 2    | 662 129 606 |
| 24   | Manufacturer's plate                                                          |             | 1    | 659 120 380 |
| 25   | Hex. bolt                                                                     |             | 2    | 659 112 512 |
| 26   | Rivet                                                                         |             | 2    | 662 126 173 |
| 29   | Lubrication tube assembly                                                     |             | 1    | 662 130 118 |
| 30   | Lock nut                                                                      |             | 1    | 662 126 176 |
| 31   | Eyebolt                                                                       |             | 1    | 662 126 465 |
| 33   | Bolt screw                                                                    |             | 1    | 662 126 488 |
| 33a  | Torsion spring                                                                |             | 1    | 662 126 640 |
| 33b  | Spacing washer                                                                |             | 2    | 662 126 495 |
| 34   | Supporting washer                                                             |             | 2    | 659 100 026 |
| 35   | Tension spring                                                                |             | 1    | 662 126 411 |
| 36   | Slide plate, 6 holes                                                          | 20025 - ... | 2    | 662 131 103 |
| 37   | Left slide plate                                                              | MA-Nr.      | 1    | 662 130 112 |
| 38   | Right slide plate                                                             | MA-Nr.      | 1    | 662 130 111 |

# Spare parts SK-S 36.22 V / FSK 200 Vo.1

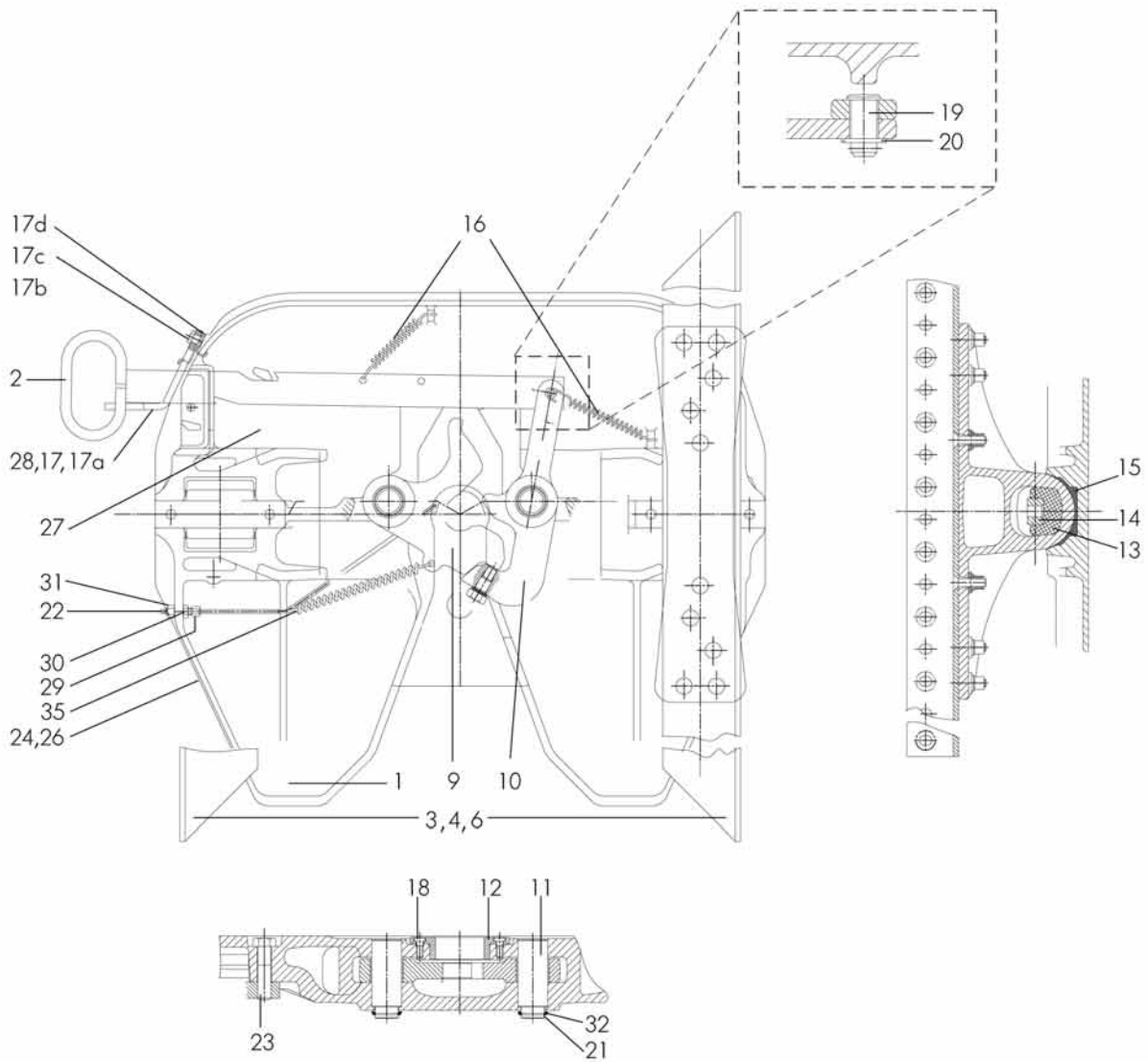
Overall height 140 mm: GF-no.: **662127223**, 662127224

Overall height 140 mm: GF-no.: **662127223** special

Overall height 160 mm: GF-no.: **662127192**, 662127202

Overall height 160 mm: GF-no.: **662127223** special

Overall height 200 mm: GF-no.: **662127184**, 662127203



| Item | Component (price per piece)                                                   | Serial no.   | Pcs. | Order no.   |
|------|-------------------------------------------------------------------------------|--------------|------|-------------|
|      | Repair kit for locking mechanism and bearings (9,10b,11,12,13,15,18,21,23,32) | 708700 - ... |      | 662 101 474 |
|      | Repair kit for locking mechanism and bearings (9,10b,11,12,13,18,21,23,32)    | 0 - 708699   |      | 662 101 416 |
|      | Repair kit for locking mechanism (9,10b,11,12,18,21,32)                       |              |      | 662 101 414 |
|      | Repair kit for bearings (13,15,23)                                            | 708700 - ... |      | 662 101 473 |
|      | Repair kit for bearings (13,23)                                               | 0 - 708699   |      | 662 101 415 |
|      | Fifth wheel without mounting angles                                           |              | 1    | 662 127 195 |
| 1    | Fifth wheel plate                                                             |              | 1    | 662 126 228 |
| 2    | Operating handle                                                              |              | 1    | 662 126 473 |
| 3    | Mounting angle 140mm left [right] complete                                    |              | 1    | 662 126 249 |
| 3    | Mounting angle 140mm right [left] complete                                    |              | 1    | 662 126 248 |
| 3    | Mounting angle 140mm left complete special                                    |              | 1    | 662 127 231 |
| 3    | Mounting angle 140mm right complete special                                   |              | 1    | 662 127 230 |
| 4    | Mounting angle 160mm left [right] complete                                    |              | 1    | 662 126 240 |
| 4    | Mounting angle 160mm right [left] complete                                    |              | 1    | 662 126 241 |
| 4    | Mounting angle 160mm left complete special                                    |              | 1    | 662 127 243 |
| 4    | Mounting angle 160mm right complete special                                   |              | 1    | 662 127 244 |
| 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 complete                                                          |              | 1    | 662 126 403 |
| 10   | Locking hook complete                                                         |              | 1    | 662 126 401 |
| 10a  | Screw                                                                         |              | 1    | 662 126 450 |
| 10b  | Shim ring                                                                     |              | 4    | 662 126 456 |
| 11   | Pin                                                                           |              | 2    | 662 126 472 |
| 12   | Wear ring                                                                     |              | 1    | 662 126 229 |
| 13   | Rubber damper                                                                 |              | 2    | 662 114 110 |
| 14   | Tensioning bar                                                                |              | 2    | 662 129 388 |
| 15   | Bearing insert                                                                | 708700 - ... | 2    | 662 130 101 |
| 16   | Tension spring                                                                |              | 2    | 662 126 410 |
| 17   | Carabiner hook with chain                                                     | 0 - 705288   | 1    | 662 100 574 |
| 17a  | Safety cap                                                                    | 705289 - ... | 1    | 662 126 638 |
| 17b  | Leg spring                                                                    | 705289 - ... | 1    | 662 126 640 |
| 17c  | Bolt screw                                                                    | 705289 - ... | 1    | 662 126 488 |
| 17d  | Spacer                                                                        | 705289 - ... | 2    | 662 126 495 |
| 18   | Cap bolt                                                                      |              | 4    | 662 126 155 |
| 19   | Stud                                                                          |              | 1    | 662 126 471 |
| 20   | Washer                                                                        |              | 1    | 662 126 159 |
| 21   | Splint pin                                                                    |              | 2    | 659 100 027 |
| 22   | Grease nipple                                                                 | 708700 - ... | 1    | 662 126 224 |
| 22   | Grease nipple                                                                 | 0 - 708699   | 3    | 662 126 224 |
| 23   | Hex. bolt                                                                     |              | 4    | 662 129 606 |
| 24   | Manufacturer's plate                                                          |              | 1    | 659 120 370 |
| 26   | Rivet                                                                         |              | 2    | 662 126 173 |
| 27   | Plastic plug                                                                  |              | 3    | 662 126 223 |
| 28   | Hammer rivet                                                                  | 0 - 705288   | 1    | 662 126 151 |
| 29   | Lubrication tube assembly                                                     |              | 1    | 662 126 484 |
| 30   | Lock nut                                                                      |              | 1    | 662 126 176 |
| 31   | Eyebolt                                                                       |              | 1    | 662 126 465 |
| 32   | Washer                                                                        |              | 2    | 659 100 026 |
| 35   | Tension spring                                                                |              | 1    | 662 126 411 |

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

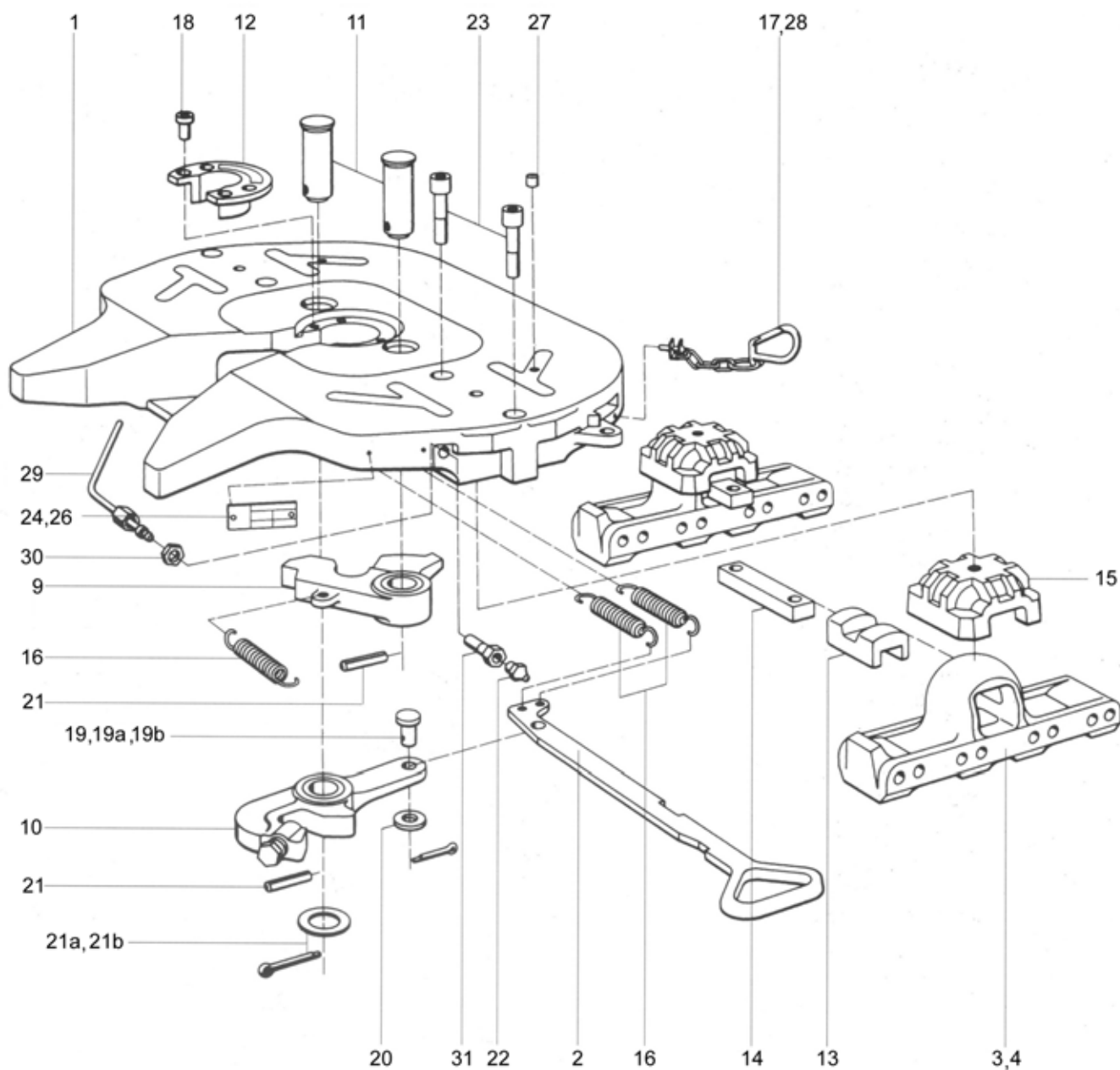


# Spare parts SK-V 36.14.5

Model 1: for order no. 662125014 and 662125015

Model 2: for order no. 662125017 and 662125018

Model 3: for order no. 662125008 and 662125009



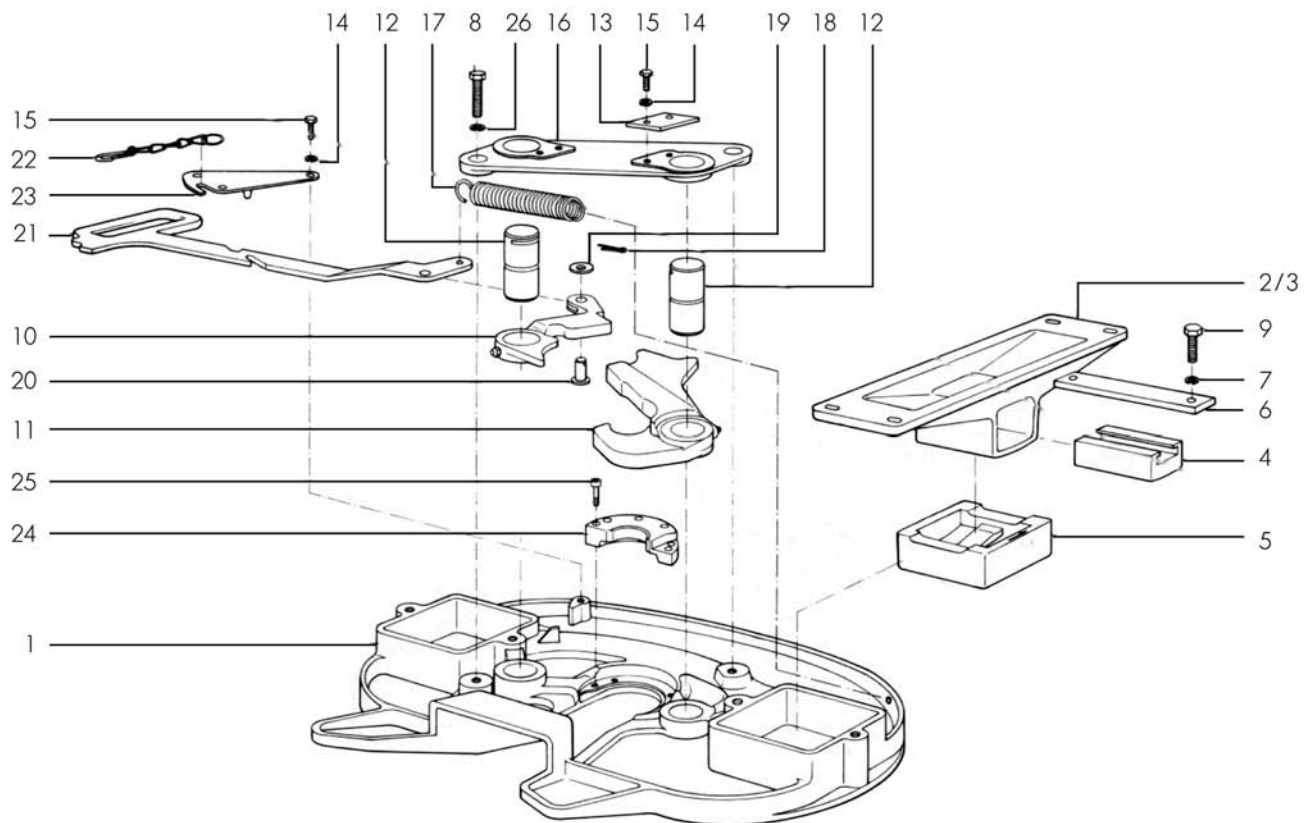
| Item | Component (price per piece)                                                    | Model | Pcs. | Order no.   |
|------|--------------------------------------------------------------------------------|-------|------|-------------|
|      | Repair kits for lock mechanism and bearings (9,11*,12,13,15,18,19a+b**,21*,23) | 1     |      | 662 101 386 |
|      | Repair kits for lock mechanism and bearings (9,11*,12,13,15,18,19a+b**,21*,23) | 2     |      | 662 101 384 |
|      | Repair kits for lock mechanism and bearings (9,11*,12,13,15,18,19a+b**,21*,23) | 3     |      | 662 101 381 |
|      | Repair kits for locking mechanism (9,11*,12,18,19a+b**,21*)                    | 1     |      | 662 101 367 |
|      | Repair kits for locking mechanism (9,11*,12,18,19a+b**,21*)                    | 2     |      | 662 101 385 |
|      | Repair kits for locking mechanism (9,11*,12,18,19a+b**,21*)                    | 3     |      | 662 101 382 |
|      | Repair kits for bearings (13,15,23)                                            | 1     |      | 662 101 388 |
|      | Repair kits for bearings (13,15,23)                                            | 2+3   |      | 662 101 383 |
| 1    | Fifth wheel plate                                                              | 1     | 1    | 662 125 160 |
| 1    | Fifth wheel plate                                                              | 2     | 1    | 662 125 161 |
| 1    | Fifth wheel plate                                                              | 3     | 1    | 662 125 143 |
| 2    | Operating handle                                                               |       | 1    | 662 125 153 |
| 3    | Mounting bracket 180 mm                                                        | 1     | 2    | 662 125 167 |
| 3    | Mounting bracket 180 mm                                                        | 2+3   | 2    | 662 125 139 |
| 4    | Mounting bracket 230 mm                                                        | 1     | 2    | 662 125 168 |
| 4    | Mounting bracket 230 mm                                                        | 2+3   | 2    | 662 125 141 |
| 9    | Coupler jaw assembly                                                           |       | 1    | 662 126 403 |
| 10   | Locking hook assembly                                                          |       | 4    | 662 126 456 |
| 11   | Pin                                                                            | 1+2   | 2    | 662 126 433 |
| 11   | Pin                                                                            | 3     | 2    | 662 126 409 |
| 12   | Wear ring                                                                      |       | 1    | 662 126 202 |
| 13   | Rubber damper                                                                  |       | 2    | 662 114 110 |
| 14   | Tensioning bar                                                                 | 1     | 2    | 662 125 158 |
| 14   | Tensioning bar                                                                 | 2+3   | 2    | 662 125 155 |
| 15   | Bearing                                                                        |       | 2    | 662 125 146 |
| 16   | Tension spring                                                                 |       | 3    | 662 126 410 |
| 17   | Carabiner hook with chain                                                      |       | 1    | 662 100 574 |
| 18   | Cap bolt                                                                       |       | 4    | 662 126 155 |
| 19   | Stud                                                                           | 1     | 1    | 662 126 449 |
| 19   | Stud                                                                           | 2+3   | 1    | 662 126 429 |
| 19a  | Bolt                                                                           | 1     | 1    | 662 126 172 |
| 19b  | Splint                                                                         | 2     | 1    | 662 126 183 |
| 20   | Washer                                                                         |       | 1    | 662 126 175 |
| 21   | Splint pin                                                                     |       | 2    | 662 126 174 |
| 21a  | Washer ***                                                                     |       | 2    | 662 111 118 |
| 21b  | Washer ***                                                                     |       | 2    | 662 111 121 |
| 22   | Grease nipple                                                                  | 1+3   | 1    | 662 126 224 |
| 22   | Grease nipple                                                                  | 2     | 1    | 662 126 168 |
| 23   | Cap bolt                                                                       | 1     | 4    | 662 125 171 |
| 23   | Cap bolt                                                                       | 2+3   | 4    | 662 125 154 |
| 24   | Manufacturer's plate                                                           |       | 1    | 659 120 380 |
| 26   | Rivet                                                                          |       | 2    | 662 126 173 |
| 27   | Dust cap                                                                       | 1+3   | 4    | 662 126 223 |
| 27   | Dust cap                                                                       | 2     | 4    | 662 126 112 |
| 28   | Hammer rivet                                                                   |       | 1    | 662 126 151 |
| 29   | Lubrication tube assembly                                                      |       | 1    | 662 125 172 |
| 30   | Lock nut                                                                       |       | 1    | 662 126 176 |
| 31   | Eyebolt                                                                        |       | 1    | 662 126 465 |

\* 1 piece

\*\* Included as accessory item for both models

\*\*\* If required

## Spare parts SK-M 32



| Item | Component (price per piece)      | Serial no.           | Pcs. | Order no.   |
|------|----------------------------------|----------------------|------|-------------|
| 1    | Fifth wheel plate                |                      | 1    | 662 114 100 |
| 3    | Mounting bracket 150 mm          |                      | 2    | 662 114 101 |
| 2    | Mounting bracket 190 mm          |                      | 2    | 662 114 115 |
| 4    | Rubber damper                    |                      | 2    | 662 114 110 |
| 5    | Rubber bearing                   |                      | 2    | 662 108 106 |
| 6    | Tensioning bar                   |                      | 2    | 662 114 105 |
| 7    | Spring ring 20 DIN 128           |                      | 12   | 662 111 201 |
| 8    | Hex. bolt M 20x60                |                      | 4    | 662 114 121 |
| 9    | Hex. bolt M 20x45                |                      | 8    | 662 111 203 |
| 10   | Locking hook complete            | 662114000, 662114001 | 1    | 662 112 217 |
| 10   | Locking hook complete            | 662114015, 662114016 | 1    | 662 112 244 |
| 11   | Coupler jaw complete             | 662114000, 662114001 | 1    | 662 112 216 |
| 11   | Coupler jaw complete             | 662114015, 662114016 | 1    | 662 112 243 |
| 12   | Pin                              | 662114000, 662114001 | 2    | 662 112 281 |
| 12   | Pin                              | 662114015, 662114016 | 2    | 662 112 281 |
| 13   | Locking plate                    |                      | 2    | 662 112 144 |
| 14   | Spring ring 10                   |                      | 6    | 662 111 200 |
| 15   | Hex. bolt M 10x25                |                      | 6    | 662 111 202 |
| 16   | Bearing plate                    |                      | 1    | 662 114 113 |
| 17   | Tension spring                   |                      | 1    | 662 114 112 |
| 18   | Splint 4x28                      |                      | 1    | 662 126 183 |
| 19   | Washer 17x30                     |                      | 1    | 662 126 159 |
| 20   | Bolt                             |                      | 1    | 662 112 128 |
| 21   | Operating handle                 |                      | 1    | 662 114 107 |
| 22   | Carabiner hook with chain        |                      | 1    | 662 100 301 |
| 23   | Safety flange for carabiner hook |                      | 1    | 662 114 106 |
| 24   | Wear ring                        |                      | 1    | 662 112 235 |
| 25   | Cap bolt                         |                      | 4    | 662 100 290 |
| 26   | Spring ring 16                   |                      | 2    | 662 114 122 |

## Mobility

People are increasingly mobile, and they have ever greater demands for comfort and safety in their vehicles. With its highly stressable cast parts made of light metal and iron, GF Automotive makes it possible to build commercial vehicles that are both light-weight and safe.

## Mounting Plates

# Mounting plates without holes for mounting angles

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. Georg Fischer 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 tractors 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 wheels up to 22t imposed load

Mounting hole pattern according to DIN 74081 / ISO 3842

| Type             | Overall height | Imposed load | D-value | Weight | A   | B    | Mounting kit           | Type approval | Order no.          |
|------------------|----------------|--------------|---------|--------|-----|------|------------------------|---------------|--------------------|
|                  | mm             | t            | kN      | kg     | mm  | mm   | FW-MP                  | EG            |                    |
| <b>MP 300</b>    | 12             | 22           | 162,4   | 64,0   | 710 | 960  | 662101568              | e11-00-0379   | <b>662 101 300</b> |
| <b>MP 299</b>    | 12             | 22           | 162,4   | 69,0   | 710 | 1060 | 662101568              | e11-00-0379   | <b>662 101 299</b> |
| <b>MP 433 *</b>  | 12             | 22           | 162,4   | 60,0   | 710 | 960  | 662101504              | e11-00-0382   | <b>662 101 433</b> |
| <b>MP 486 **</b> | 12             | 20           | 152,0   | 44,5   | 650 | 960  | 662101568              | e11-00-0953   | <b>662 101 486</b> |
| <b>MP 549 **</b> | 12             | 18           | 135,0   | 51,0   | 650 | 1060 | 662101568              |               | <b>662 101 549</b> |
| <b>MP 106</b>    | 22             | 22           | 162,4   | 41,0   | 665 | 960  | 662101353<br>662101442 | e11-00-0380   | <b>662 101 106</b> |
| <b>MP 199</b>    | 22             | 22           | 162,4   | 45,0   | 665 | 1060 | 662101353<br>662101442 | e11-00-0380   | <b>662 101 199</b> |
| <b>MP 249</b>    | 22             | 22           | 162,4   | 48,5   | 710 | 1060 | 662101353<br>662101442 | e11-00-0384   | <b>662 101 249</b> |
| <b>MP 060</b>    | 40             | 22           | 162,4   | 45,0   | 665 | 960  | 662101504              | e11-00-0378   | <b>662 101 060</b> |
| <b>MP 078</b>    | 40             | 22           | 162,4   | 49,0   | 665 | 1060 | 662101504              | e11-00-0378   | <b>662 101 078</b> |
| <b>MP 331</b>    | 100            | 16           | 108,0   | 81,0   | 710 | 970  | 662101504              | e11-00-0383   | <b>662 101 331</b> |
| <b>MP 445</b>    | 150            | 15           | 108,0   |        | 665 | 960  | 662101504              | e11-00-0117   | <b>662 101 445</b> |

\* MP with cut-out 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

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

Mounting hole pattern according to DIN 74084 / ISO 3842

| Type            | Overall height | Imposed load | D-value | Weight | A   | B   | Mounting kit | Type approval | Order no.          |
|-----------------|----------------|--------------|---------|--------|-----|-----|--------------|---------------|--------------------|
|                 | mm             | t            | kN      | kg     | mm  | mm  | FW-MP        | EG            |                    |
| <b>MP 301</b>   | 16             | 36           | 280     | 85,0   | 710 | 960 | 662101568    | e11-00-0385   | <b>662 101 301</b> |
| <b>MP 274 *</b> | 50             | 36           | 220     | 72,0   | 730 | 960 | 662101568    | e11-00-0387   | <b>662 101 274</b> |

Suitable for SK-HD 38.36 / G

\* No stockkeeping, please request price and delivery time

## Special mounting plates without pre-drilled holes

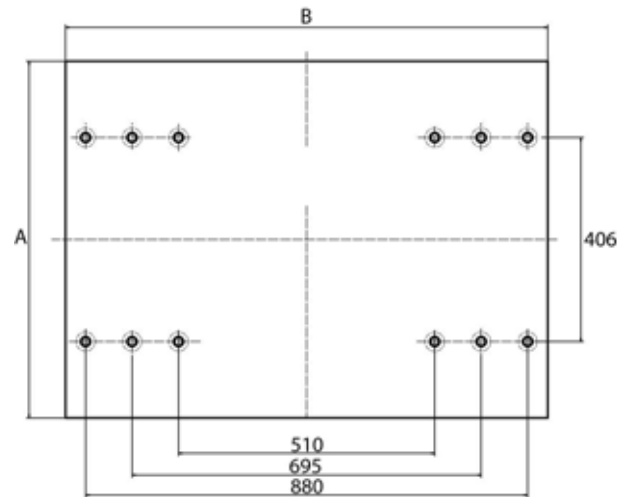
No stockkeeping. Prices, delivery times and additional special mounting plates available on request.

| Type             | Overall height | Imposed load | D-value | Weight | A   | B    | Mounting kit | Type approval | Order no.          |
|------------------|----------------|--------------|---------|--------|-----|------|--------------|---------------|--------------------|
|                  | mm             | t            | kN      | kg     | mm  | mm   | FW-MP        | EG            |                    |
| <b>MP 515</b>    | 12             | 22           | 162,4   | 64,0   | 710 | 960  | 662101568    | e11-00-0379   | <b>662 101 515</b> |
| <b>MP 302 *</b>  | 16             | 36           | 280,0   | 85,0   | 710 | 1060 | 662101568    | e11-00-0385   | <b>662 101 302</b> |
| <b>MP 246 **</b> | 40             | 22           | 162,4   | 45,0   | 710 | 960  |              | e11-00-0217   | <b>662 101 246</b> |

\*) for SK-HD 38.36

\*\*) Replaced by MP 060 (Observe special mounting instructions)

## Dimensions



Hole pattern in accordance with DIN 74081/84 and ISO 3842

## Mounting

### Mounting the fifth wheel on the mounting plate

For mounting fifth wheels in accordance with DIN 74081, at least 8 high-tensile bolts are required, for fifth wheels according to DIN 74084, 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 M20 x 1.5 bolts, of at least grade 8.8, with a torque of 350 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 vehicle manufacturer guidelines, we recommend:

For 2" fifth wheels in accordance with DIN 74081, 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 wheels in accordance with 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.



# Mounting plates with predrilled holes

The following mounting plates are already equipped with the 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   | Type approval | Order no.   |
|----------|------------------|----------------|--------------|---------|--------|-----|-----|---------------|-------------|
|          | hole pattern     | mm             | t            | kN      | kg     | mm  | mm  | EG            |             |
| MP 526 * | MB               | 12             | 20           | 152,0   | 40,0   | 650 | 960 | e11-00-0953   | 662 101 526 |
| MP 532   | Iveco            | 12             | 22           | 162,4   | 63,0   | 715 | 960 | e11-00-0379   | 662 101 532 |
| MP 544 * | Iveco            | 12             | 20           | 152,0   | 63,0   | 715 | 960 | e11-00-0953   | 662 101 544 |
| MP 525 * | MAN              | 12             | 20           | 152,0   | 40,0   | 650 | 960 | e11-00-0953   | 662 101 525 |
| MP 464   | MAN              | 12             | 22           | 162,4   | 64,0   | 710 | 960 | e11-00-0379   | 662 101 464 |
| MP 527 * | Scania           | 12             | 20           | 152,0   | 40,0   | 650 | 960 | e11-00-0953   | 662 101 527 |
| MP 531   | Scania           | 12             | 22           | 162,4   | 64,0   | 710 | 960 | e11-00-0379   | 662 101 531 |
| MP 574   | MAN              | 22             | 22           | 162,4   | 41,0   | 665 | 960 | e11-00-0380   | 662 101 574 |
| MP 542   | Scania           | 22             | 22           | 162,4   | 41,0   | 665 | 960 | e11-00-0380   | 662 101 542 |
| MP 511   | DAF              | 40             | 20           | 152,0   | 40,0   | 700 | 960 | e11-00-0951   | 662 101 511 |
| MP 543   | Scania           | 40             | 22           | 162,4   | 45,0   | 665 | 960 | e11-00-0378   | 662 101 543 |

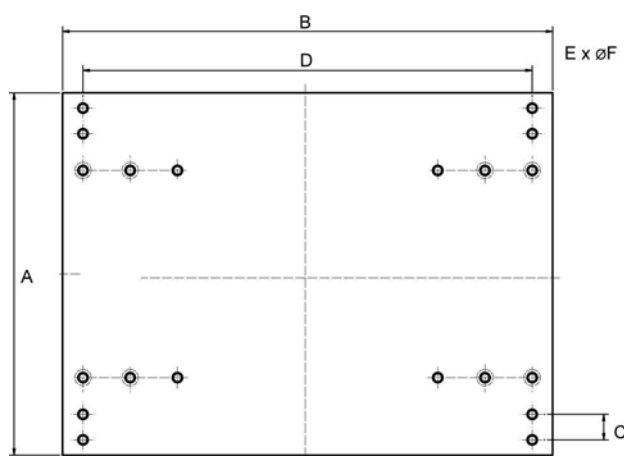
\* For SK-S 36.20 / overall height 128 mm (with cut-out)

## Technical data and mounting kits

Mounting hole pattern according to DIN 74084 / ISO 3842

| Type     | Mounting kit | Mounting kit           | A   | B   | C     | D   | E  | F  |
|----------|--------------|------------------------|-----|-----|-------|-----|----|----|
|          | MP-VC        | FW-MP                  | mm  | mm  | mm    | mm  |    | mm |
| MP 526 * | 662101568    | 662101568              | 650 | 960 | 50    | 860 | 8  | 21 |
| MP 532   | Iveco        | 662101568              | 715 | 960 | 45    | 860 | 12 | 19 |
| MP 544 * | Iveco        | 662101568              | 715 | 960 | 45    | 860 | 12 | 19 |
| MP 525 * | 662101568    | 662101568              | 650 | 960 | 50,75 | 880 | 8  | 18 |
| MP 464   |              |                        | 710 | 960 | 50,75 | 880 | 8  | 18 |
| MP 527 * |              | 662101568              | 650 | 960 | 50    | 880 | 8  | 19 |
| MP 531   |              | 662101568              | 710 | 960 | 50    | 880 | 8  | 19 |
| MP 512   | 662101568    | 662101353<br>662101442 | 700 | 960 | 50    | 880 | 12 | 18 |
| MP 574   | 663101568    | 662101353<br>662101442 | 665 | 960 | 50,75 | 880 | 8  | 18 |
| MP 542   |              | 662101353<br>662101442 | 665 | 960 | 50    | 880 | 8  | 20 |
| MP 511   | 662101568    | 662101504              | 700 | 960 | 50    | 880 | 12 | 18 |
| MP 459   | 662101568    | 662101504              | 665 | 960 | 50,75 | 880 | 8  | 18 |
| MP 543   |              | 662101504              | 665 | 960 | 50    | 880 | 8  | 20 |

\*] for SK-S 36.20 / overall height 128 mm (with cut-out)



# Mounting kits

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

| Type                    | Mounting                                     | Overall height | Order no.          |
|-------------------------|----------------------------------------------|----------------|--------------------|
|                         |                                              | mm             |                    |
| <b>Mounting kit 353</b> | FW [2"] + MP, type 8.8                       | 22 - ...       | <b>662 101 353</b> |
| <b>Mounting kit 442</b> | FW + MP, type 10.9                           | 22 - ...       | <b>662 101 442</b> |
| <b>Mounting kit 484</b> | SK [2"] auf MP 12 mm [Actros]                | 12             | <b>662 101 484</b> |
| <b>Mounting kit 498</b> | FW [2"] + MP                                 | 24 - 150       | <b>662 101 498</b> |
| <b>Mounting kit 514</b> | FW + MP 16mm or MP 12mm produced before 2005 | 12 - 16        | <b>662 101 514</b> |
| <b>Mounting kit 551</b> | FW [3½"] + MP                                | 24 - ...       | <b>662 101 551</b> |
| <b>Mounting kit 553</b> | FW [3½"] + MP, suitable for MP 301, MP 302   | 16             | <b>662 101 553</b> |
| <b>Mounting kit 555</b> | FW [2"] + MP                                 | 12             | <b>662 101 555</b> |
| <b>Mounting kit 550</b> | MP + VC [Actros]                             | 12             | <b>662 101 550</b> |
| <b>Mounting kit 552</b> | MP + VC                                      | 12 - 40        | <b>662 101 552</b> |
| <b>Mounting kit 557</b> | MP + VC, suitable for MP 302 [M20]           | 16             | <b>662 101 557</b> |
| <b>Mounting kit 354</b> | FW + MP + VC                                 | 50             | <b>662 101 354</b> |
| <b>Mounting kit 452</b> | FW + MP + VC                                 | 12             | <b>662 101 452</b> |
| <b>Mounting kit 556</b> | FW + MP + VC, consists of 514 + 557 [MP 302] | 16             | <b>662 101 556</b> |

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

## Mounting

### Mounting the fifth wheel on the mounting plate

For mounting fifth wheels in accordance with DIN 74081, at least 8 high-tensile bolts are required, for fifth wheels according to DIN 74084, 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 M20 x 1.5 bolts, of at least grade 8.8, with a torque of 350 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 vehicle manufacturer guidelines, we recommend:  
For 2" fifth wheels in accordance with DIN 74081, 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 wheels in accordance with 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.

## Notes

## Mobility

People are increasingly mobile, and they have ever greater demands for comfort and safety in their vehicles. With its highly stressable cast parts made of light metal and iron, GF Automotive makes it possible to build commercial vehicles that are both light-weight and safe.

## Sliders

# 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
- 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
- Self-cleaning - resistance to dirt
- Approved for forced steering
- Mounting hole pattern according to DIN 74081, DIN 74084 and ISO/ FDIS 3842

## Ordering instructions

- 4 standard versions without predrilled mounting holes
- Models available drilled to specific vehicle type on request

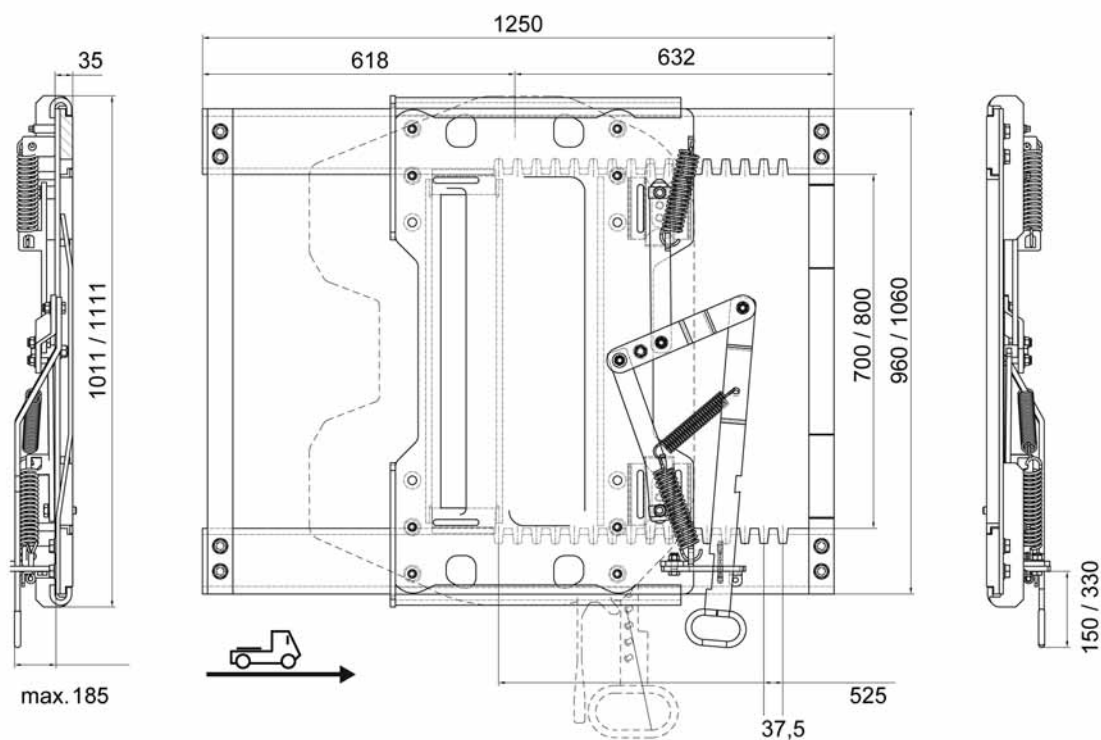
## Slider SK-V 20 standard (without predrilled mounting holes)

| Type    | Model                      | Axle configuration | Imposed load | D-value | Weight | Mounting width | Dimensions length x width | Order no.   |
|---------|----------------------------|--------------------|--------------|---------|--------|----------------|---------------------------|-------------|
|         |                            |                    | t            | kN      | kg     | mm             | mm                        |             |
| SK-V 20 | Standard (not pre-drilled) | 4x2                | 18           | 135     | 110    | 780-900        | 1250 x 960                | 662 204 500 |

## Sliders SK-V 20 (with predrilled OEM hole patterns)

| Type    | Model            | Axle configuration | Imposed load | D-value | Weight | Mounting width | Dimensions length x width | Order no.   |
|---------|------------------|--------------------|--------------|---------|--------|----------------|---------------------------|-------------|
|         |                  |                    | t            | kN      | kg     | mm             | mm                        |             |
| SK-V 20 | Iveco            | 4x2                | 18           | 135     | 110    | 780-900        | 1250 x 960                | 662 204 501 |
| SK-V 20 | Mercedes-Benz    | 4x2                | 18           | 135     | 110    | 780-900        | 1250 x 960                | 662 204 503 |
| SK-V 20 | Scania / DAF     | 4x2                | 18           | 135     | 110    | 780-900        | 1250 x 960                | 662 204 507 |
| SK-V 20 | MAN              | 4x2                | 18           | 135     | 110    | 780-900        | 1250 x 960                | 662 204 509 |
| SK-V 20 | Renault          | 4x2                | 18           | 135     | 110    | 780-940        | 1250 x 960                | 662 204 511 |
| SK-V 20 | Scania / DAF     | 6x2                | 18           | 135     | 110    | 780-900        | 1250 x 960                | 662 204 515 |
| SK-V 20 | MAN              | 6x2                | 18           | 135     | 110    | 780-900        | 1250 x 960                | 662 204 517 |
| SK-V 20 | Volvo            | 4x2                | 18           | 135     | 129    | 930            | 1250 x 1060               | 662 204 519 |
| SK-V 20 | Volvo (Standard) | 4x2                | 18           | 135     | 129    | 930            | 1250 x 1060               | 662 204 520 |
| SK-V 20 | AU + NZ          | 4x2                | 18           | 135     | 129    | 930            | 1250 x 1060               | 662 206 401 |

## Dimensions



## Fitting instructions

Georg Fischer sliders are type-approved to 94/20/EG. Modifications preclude warranty claims and lead to invalidation of the type approval.

**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.

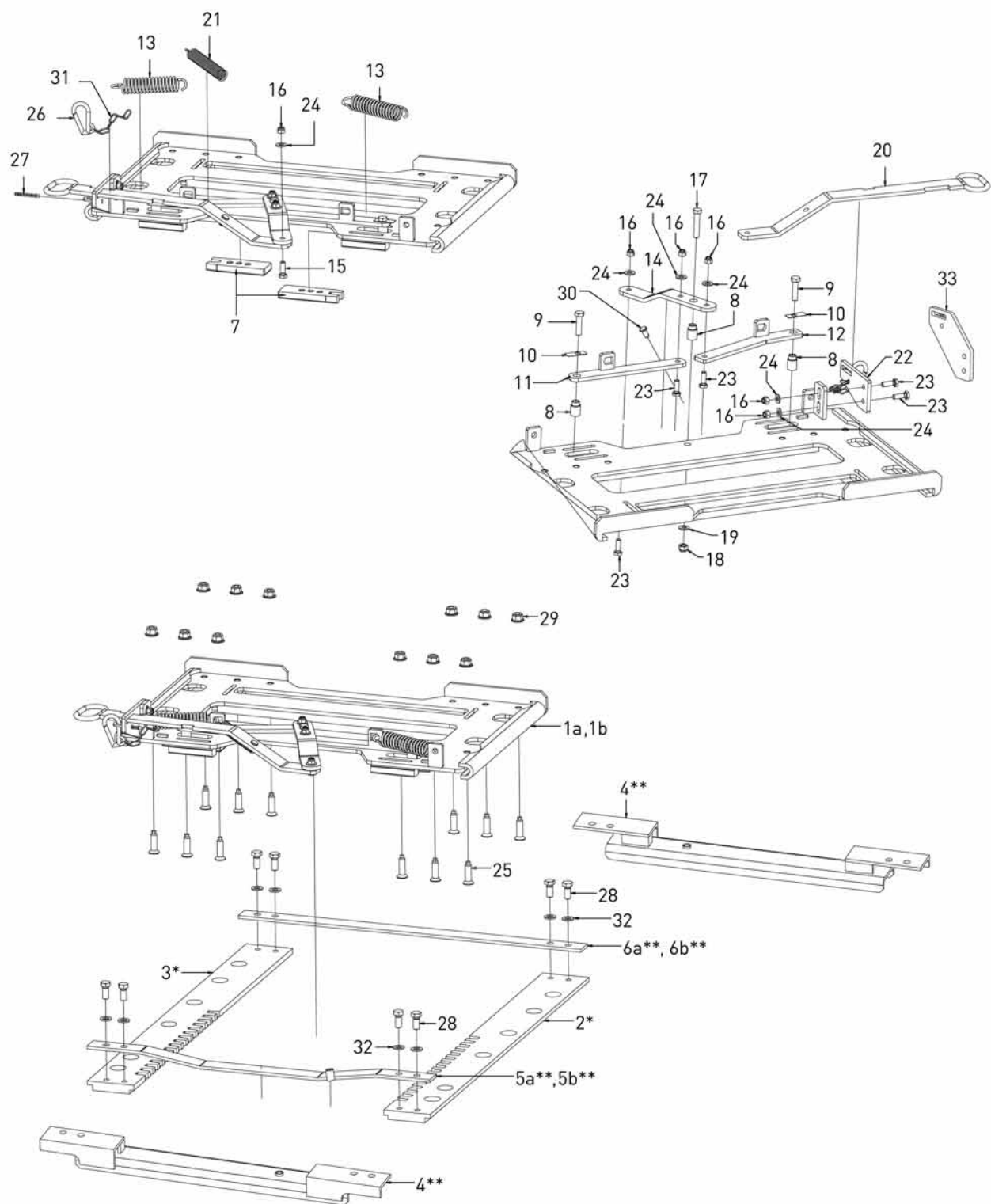
The quantity and grade of the fasteners must adhere to the slider model and vehicle manufacturers look up table below. Incomplete attachment of the slider to the frame (e.g. leaving a fastener out) is not allowed. Rivets of equivalent size and quality can also be used for fastening. The fastening elements 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 | <b>662 101 725</b> |
| Mounting kit 726 | Iveco (Stralis), MAN (TGA) | 12 x M16 | <b>662 101 726</b> |
| Mounting kit 728 | Volvo (FH12)               | 16 x M14 | <b>662 101 728</b> |
| Mounting kit 729 | Scania (CA, LA, DA) / DAF  | 12 x M18 | <b>662 101 729</b> |
| Mounting kit 731 | Renault (Magnum, Premium)  | 12 x M16 | <b>662 101 731</b> |



# 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                             | Renault          | 1    | 662 205 026 |
| 2*   | Slotted base rail left                             | Volvo            | 1    | 662 205 030 |
| 2*   | Slotted base rail left                             | Volvo (standard) | 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                            | Renault          | 1    | 662 205 027 |
| 3*   | Slotted base rail right                            | Volvo            | 1    | 662 205 031 |
| 3*   | Slotted base rail right                            | Volvo (standard) | 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    | 662 205 033 |
| 6a** | Stop bar back (mounting width 780 - 900)           |                  | 1    | 662 205 012 |
| 6b** | Stop bar back (mounting width 900 +)               |                  | 1    | 662 205 013 |
| 7    | Locking finger                                     |                  | 2    | 662 205 035 |
| 8    | Bush                                               |                  | 3    | 662 205 036 |
| 9    | Hex. bolt                                          |                  | 2    | 659 112 628 |
| 10   | Safety 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   | Locking lever                                      |                  | 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   | Split-Pin                                          |                  | 1    | 662 126 184 |
| 28   | Hex. bolt                                          |                  | 8    | 659 112 631 |
| 29   | Nut                                                |                  | 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 6x2 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 optimal 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

### SK-V 20 (pneumatic model)

| Type    | Model                      | Axle configuration | Imposed load | D-value | Weight | Mounting width | Dimensions lenght x width | Order no.   |
|---------|----------------------------|--------------------|--------------|---------|--------|----------------|---------------------------|-------------|
|         |                            |                    | t            | kN      | kg     | mm             | mm                        |             |
| SK-V 20 | Standard (not pre-drilled) | 4 x 2              | 18           | 135     | 105    | 780-900        | 1250 x 960                | 662 205 500 |
| SK-V 20 | Iveco                      | 4 x 2              | 18           | 135     | 105    | 780-900        | 1250 x 960                | 662 205 501 |
| SK-V 20 | Mercedes-Benz              | 4 x 2              | 18           | 135     | 105    | 780-900        | 1250 x 960                | 662 205 503 |
| SK-V 20 | Scania / DAF               | 4 x 2              | 18           | 135     | 105    | 780-900        | 1250 x 960                | 662 205 507 |
| SK-V 20 | MAN                        | 4 x 2              | 18           | 135     | 105    | 780-900        | 1250 x 960                | 662 205 509 |
| SK-V 20 | Renault                    | 4 x 2              | 18           | 135     | 105    | 780-940        | 1250 x 960                | 662 205 511 |
| SK-V 20 | Scania / DAF               | 6 x 2              | 18           | 135     | 105    | 780-900        | 1250 x 960                | 662 205 515 |
| SK-V 20 | MAN                        | 6 x 2              | 18           | 135     | 105    | 780-900        | 1250 x 960                | 662 205 517 |
| SK-V 20 | Volvo                      | 4 x 2              | 18           | 135     | 124    | 930            | 1250 x 1060               | 662 205 519 |
| SK-V 20 | Volvo (Standard)           | 4 x 2              | 18           | 135     | 124    | 930            | 1250 x 1060               | 662 205 520 |
| SK-V 20 | AU + NZ                    | 4 x 2              | 18           | 135     | 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 (compl.) | 662 101 802 |



| Item | Type                       | Note                                    | Pcs. | Order no.   |
|------|----------------------------|-----------------------------------------|------|-------------|
| 1    | 3/2-valve with push button |                                         | 1    | 659 144 155 |
| 2    | Connector                  | 1/8" drehb. -6 mm - DBV Gewinde selbst. | 3    | 659 144 158 |
| 3    | Connector                  | T-Stück - 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

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 retrofitting. Retrofitting should only be carried out by specially trained personnel.

A conversion kit and a installation kit are both required for retrofitting.

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



| Item | Type                          | Note                    | Pcs. | Order no.   |
|------|-------------------------------|-------------------------|------|-------------|
| 1    | Pneumatic cylinder assembly   |                         | 1    | 662 205 070 |
| 2    | Connector                     |                         | 1    | 659 144 156 |
| 3    | Connector                     |                         | 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                   |                         | 1    | 549 144 154 |
| 15   | Pneumatic adapter (not shown) |                         | 1    | 662 205 037 |

# Slider SK-V 22

**Sliders allow optimal utilisation of permissible axle loads.**

The sliders enable the coupling point of tractors to be changed quickly and easily. The fifth wheels can be secured in 7 different longitudinal positions, enabling the semi-trailers to be coupled with different kingpin positions.



The slotted base rails and a mechanism for pre-selecting the slider position are firmly attached to the frame of the tractor. The carriage with the control and stopping mechanism is designed for mounting fifth wheels of all standard makes with an overall height of 150-250 mm.

- Simple to mount
- One-person / single-handed operation
- Pre-selectable coupling point
- Automatic locking, free of play, self-adjusting
- 7 slider positions, total slider travel 630 mm
- Low overall height, only 45 mm
- 2 designs for frame widths of up to 970 mm
- Approved for semi-trailer steering systems

## Technical data on slider

- Approved for forced steering
- EU type approval: e11-00-0386, G: M4618, NL: RDW 21110021
- Mounting hole pattern according to DIN 74081, 74084 and ISO 3842

| Type    | Imposed load | D-value | Weight | Frame width    | Width of slider | Order no.   |
|---------|--------------|---------|--------|----------------|-----------------|-------------|
|         | t            | kN      | kg     | mm             | mm              |             |
| SK-V 22 | 22           | 162,4   | 165    | 680 - max. 880 | 1005 ± 5        | 662 204 007 |
| SK-V 22 | 22           | 162,4   | 173    | 680 - max. 970 | 1095 ± 5        | 662 204 008 |

**Load capacity specifications apply to sealed roads and transport conditions normally found in Western Europe. Please consult us if conditions differ.**

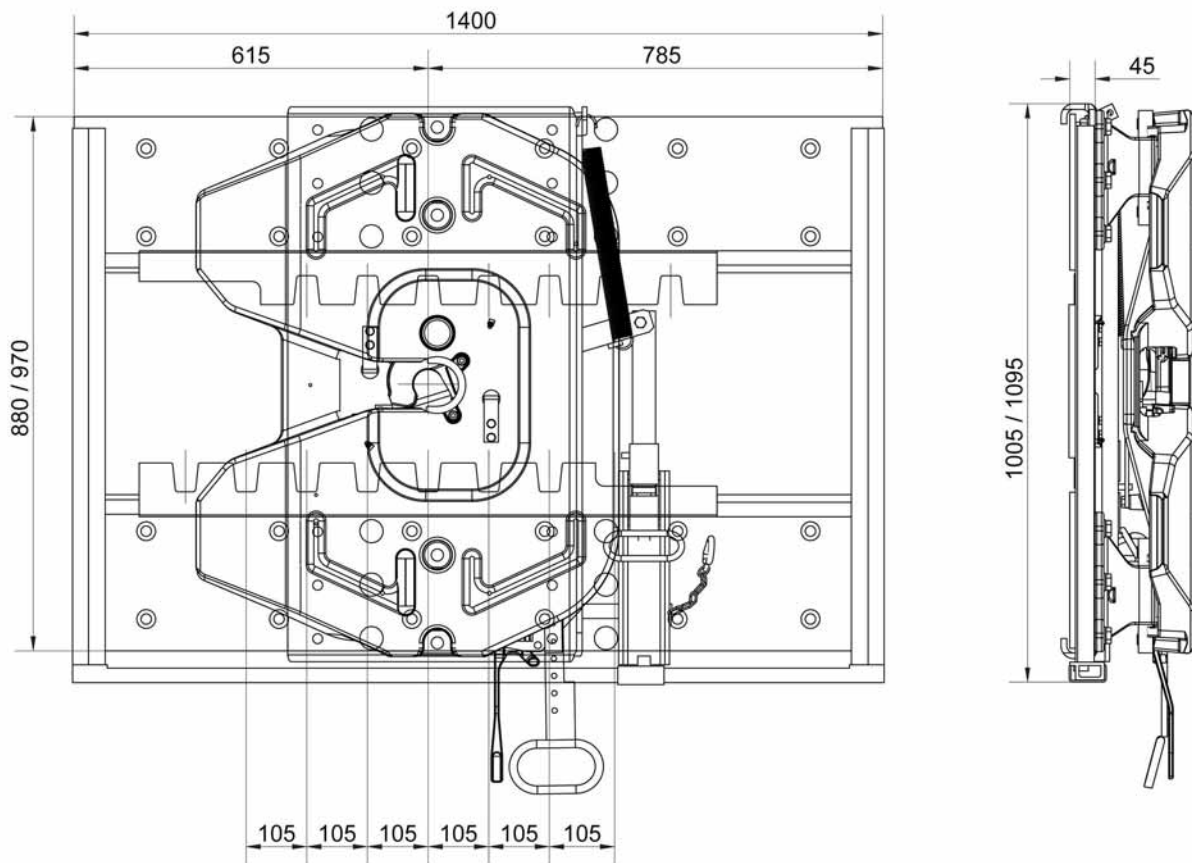
We recommend using our mounting kits for mounting sliders, intermediate plates and fifth wheels.

## Technical data on intermediate plates

- EU type approval: e11-00-0386, G: M 4617

| Type   | Dimensions        | Weight | Compatible         | Order no.   |
|--------|-------------------|--------|--------------------|-------------|
|        | mm                | kg     | with               |             |
| ZP 188 | 880±2 x 1370 x 22 | 69     | SK-V22 662 204 007 | 662 204 188 |
| ZP 187 | 970±2 x 1370 x 22 | 76     | SK-V22 662 204 008 | 662 204 187 |

## Dimensions



## Fitting instructions

**Georg Fischer sliders are type-approved. Modifications preclude warranty claims and lead to invalidation of the type approval.**

**Please take note of the following points when installing sliders:**

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

The base plate 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 slider is fastened to the vehicle frame via the countersunk holes in the base plate. 12 M16 bolts of grade 8.8 must be used on each side.

Rivets of equivalent size and quality can also be used for fastening.

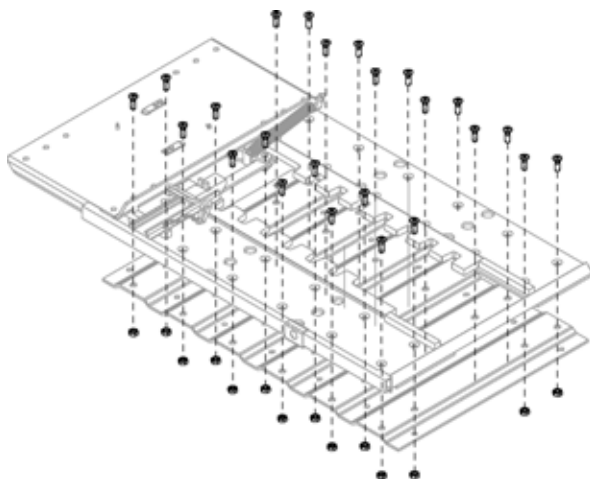
The fastening elements must not obstruct the freedom of movement of the carriage. The permissible vertical loads on the tractor for the different positions must be entered clearly and indelibly in the areas provided on the nameplate.

# Mounting kits

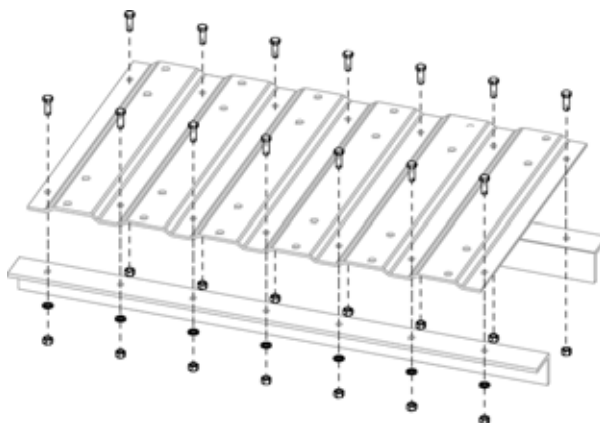
| Type                    | Mounting                                                              | Order no.          |
|-------------------------|-----------------------------------------------------------------------|--------------------|
| <b>Mounting kit 701</b> | Slider on intermediate plate                                          | <b>662 101 701</b> |
| <b>Mounting kit 702</b> | Intermediate plate on vehicle frame                                   | <b>662 101 702</b> |
| <b>Mounting kit 703</b> | Fifth wheel SK-S 36.20 on slider                                      | <b>662 101 703</b> |
| <b>Mounting kit 325</b> | Slider on intermediate plate and vehicle frame, consists of 701 + 702 | <b>662 101 325</b> |
| <b>Mounting kit 393</b> | Set for SK-S 36.20 consists of 701 + 702 + 703                        | <b>662 101 393</b> |
| <b>Mounting kit 551</b> | Fifth wheel SK-HD 38.36 on slider                                     | <b>662 101 551</b> |

- Tightening torque for slider / intermediate plate fastening screws: 215 Nm
- All other fastening screws: 190 Nm

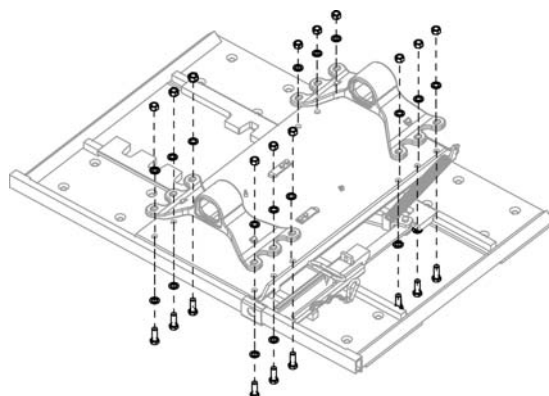
## Mounting kit for slider on intermediate plate



## Mounting kit for intermediate plate on vehicle frame



## Mounting kit for fifth wheel on slider





## Mobility

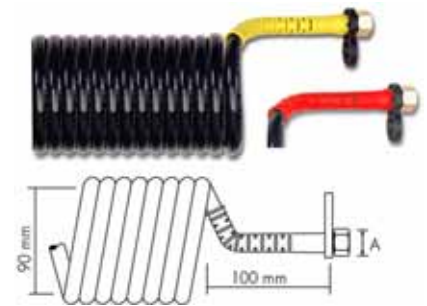
People are increasingly mobile, and they have ever greater demands for comfort and safety in their vehicles. With its highly stressable cast parts made of light metal and iron, GF Automotive makes it possible to build commercial vehicles that are both light-weight and safe.

## Accessories

## Airflex (new range)

All Georg Fischer compressed air coils with colour-coded anti-kink protection made of plastic are TÜV approved to conform to the high safety parameters of DIN 74323, the recognized standard for compressed air coils.

- Anti-kinking protection with colour-coding
- M18 (inner thread) connector for insertion with 'rotating nut' to reach the thread adaptor
- Equipped with holder sling as standard
- Nylon coils wound 20 times
- Permissible working length 4000 mm
- Tested with 10,000 bends (ISO 7375)
- Operating temperature range -40 to +70°C
- Permissible operating pressure <10 bar

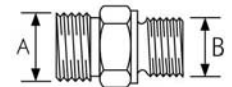


### Airflex - compressed air coils

| Type    | Coils | Working length | Colour | Plug          | A         | Order no.   |
|---------|-------|----------------|--------|---------------|-----------|-------------|
|         |       | mm             |        |               | mm        |             |
| Airflex | 20    | 4000           | red    | female thread | M18 x 1,5 | 662 023 701 |
| Airflex | 20    | 4000           | yellow | female thread | M18 x 1,5 | 662 023 702 |

### Adaptor

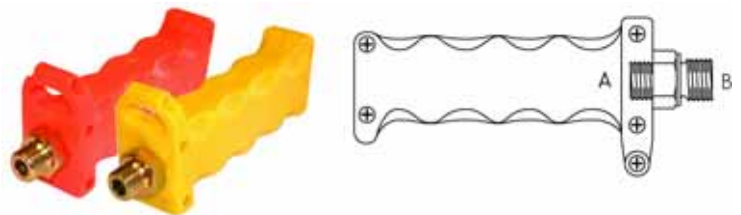
- Connecting adaptor for all conventional vehicle types and manufacturers
- Thread end pieces with male thread



| Type             | A         | B         | Thread            | Order no.   |
|------------------|-----------|-----------|-------------------|-------------|
|                  | mm        | mm        |                   |             |
| Thread end piece | M18 x 1.5 | M16 x 1.5 |                   | 662 023 703 |
| Thread end piece | M18 x 1.5 | M16 x 1.5 | 34 mm long thread | 662 023 704 |
| Thread end piece | M18 x 1.5 | M18 x 1.5 | 34 mm long thread | 662 023 705 |
| Thread end piece | M18 x 1.5 | M22 x 1.5 |                   | 662 023 706 |

### Airflex - handles

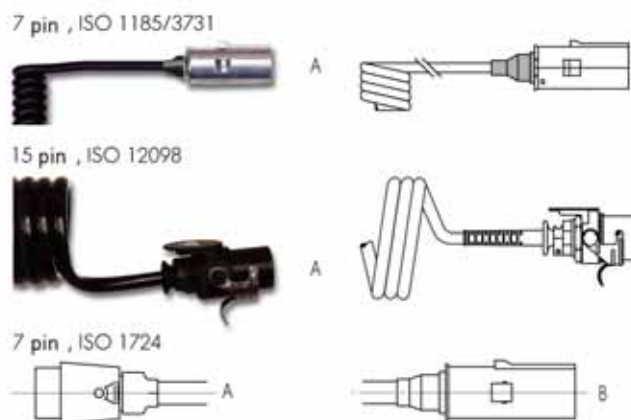
- Made of hard-wearing material
- Facilitates Airflex connection
- Ergonomically shaped handle
- Additional protection for connection ends
- Quick and easy mounting
- Adaptor for Airflex required
- Colour coding red and yellow
- Only available as set (1x red and 1x yellow)



| Type       | Colour      | A         | B         | Order no.   |
|------------|-------------|-----------|-----------|-------------|
|            |             | mm        | mm        |             |
| Handle set | red, yellow | M16 x 1.5 | M16 x 1.5 | 662 023 707 |

# Lectroflex (new range)

- Polyurethane coating, extremely hard-wearing with excellent resistance to chemicals
- Material resistant to heat and light
- Black outer sleeve
- N type: normal supply
- S type: additional supply



| Type                | Working length | Colour | Plug A                    | Plug B           | Order no.          |
|---------------------|----------------|--------|---------------------------|------------------|--------------------|
|                     | mm             |        |                           |                  |                    |
| <b>Lectroflex N</b> | 3000           | black  | 2x 24V, ISO 1185, 7-pin   |                  | <b>662 024 529</b> |
| <b>Lectroflex S</b> | 3000           | black  | 2x 24V, ISO 3731, 7-pin   |                  | <b>662 024 530</b> |
| <b>Lectroflex</b>   | 3500           | black  | 2x 24V, ISO 12098, 15-pin |                  | <b>662 024 531</b> |
| <b>Lectroflex</b>   | 3500           | black  | 1x 12V, ISO 1725          | 1x 24V, ISO 1185 | <b>662 024 506</b> |

## Adaptor

- Black outer sleeve
- Colour-coded ISO connector
- 1x 24V plug, 15-pin, ISO 12098
- N type: 24V, 7-pin, ISO 1185, black
- S type: 24V, 7-pin, ISO 3731, green



| Type           | Working length | Colour | Plug A         | Plug B        | Order no.          |
|----------------|----------------|--------|----------------|---------------|--------------------|
|                | mm             |        |                |               |                    |
| <b>Adaptor</b> | 3500           | black  | 1x 24V, 15-pin | 2x 24V, 7-pin | <b>662 024 532</b> |

## EBS - cable

- 7-pin EBS coil
- Exceptional shape retaining properties
- Conforms to ADR regulations
- Material resistant to heat and light
- Black outer sleeve
- Sprayed-on anti-kinking protection
- ISO plug connector
- ISO 4091, ISO 6722, ISO 7638



| Type                 | Working length | Colour | Plug A        | Order no.          |
|----------------------|----------------|--------|---------------|--------------------|
|                      | mm             |        |               |                    |
| <b>ABS/EBS cable</b> | 3500           | black  | 2x 24V, 7-pin | <b>662 024 533</b> |

# Airtubes (phased-out range)

Georg Fischer Airtubes made of high-grade polyamide meet all international standards. High elasticity and resistance to fracture guarantee safe operating conditions and long service life. Our Airtubes are resistant to oils, grease and most chemical substances. The high amount of stretch allows a long working length in a compact space. Effective protection of the line ends by means of anti-kinking springs.

## Technical data

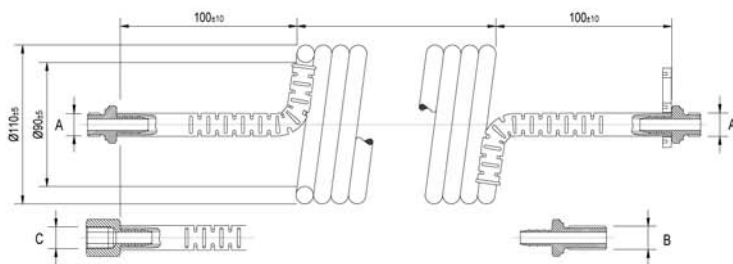
- Operating temperature: -40°C to +70°C
- Operating pressure: 10 bar
- Tube coil: PA 12 PHL

## Recommended colour coding

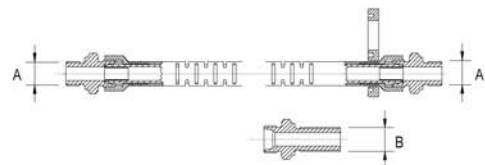
Red: supply line, Yellow: control line, Black: universal



### Type 1 Push-in (1-part)



### Type 2 Eurocoil (3-part)



## Type 1

| Type        | Working length<br>mm | Coils   | Colour | Connection       | Order no.   |
|-------------|----------------------|---------|--------|------------------|-------------|
| 662 023 506 | 3000                 | 16 ±1.5 | Red    | A-A M22 x 1.5    | 662 023 506 |
| 662 023 507 | 3000                 | 16 ±1.5 | Yellow | A-A M22 x 1.5    | 662 023 507 |
| 662 023 509 | 3000                 | 16 ±1.5 | Black  | A-A M22 x 1.5    | 662 023 509 |
| 662 023 541 | 3500                 | 18 ±1.5 | Red    | A-C M16 x 1.5    | 662 023 541 |
| 662 023 582 | 3500                 | 18 ±1.5 | Yellow | A-A M22 x 1.5    | 662 023 582 |
| 662 023 584 | 3500                 | 18 ±1.5 | Black  | A-A M22 x 1.5    | 662 023 584 |
| 662 023 649 | 4000                 | 20 ±1.5 | Black  | B-B M16-18 x 1.5 | 662 023 649 |

A = male thread, short; B = male thread, long; C = female thread  
Tolerance of coils ±1.5 mm

## Type 2

| Type        | Working length<br>mm | Coils   | Colour | Connection    | Order no.   |
|-------------|----------------------|---------|--------|---------------|-------------|
| 662 023 626 | 3000                 | 16 ±1.5 | Red    | A-A M22 x 1.5 | 662 023 626 |
| 662 023 627 | 3000                 | 16 ±1.5 | Yellow | A-A M22 x 1.5 | 662 023 627 |
| 662 023 629 | 3000                 | 16 ±1.5 | Black  | A-A M22 x 1.5 | 662 023 629 |
| 662 023 501 | 3500                 | 18 ±1.5 | Red    | A-A M22 x 1.5 | 662 023 501 |
| 662 023 502 | 3500                 | 18 ±1.5 | Yellow | A-A M22 x 1.5 | 662 023 502 |
| 662 023 656 | 3500                 | 18 ±1.5 | Red    | A-A M16 x 1.5 | 662 023 656 |
| 662 023 657 | 3500                 | 18 ±1.5 | Yellow | A-A M16 x 1.5 | 662 023 657 |
| 662 023 659 | 3500                 | 18 ±1.5 | Black  | A-A M22 x 1.5 | 662 023 659 |

A = male thread, short; B = male thread, long; C = female thread  
Tolerance of coils ±1.5 mm

# Lectrotubes (phased-out range)

Georg Fischer Lectrotubes, with thick-walled coatings made of high-grade polyamide or neoprene, conform to all international standards and regulations for electrical connections on vehicles. High elasticity and fracture resistance guarantee safe operating conditions and long service life. The high amount of stretch allows a long working length in a compact space.

A = plug DIN ISO 1724 / 12V (DIN 72577)

B = plug DIN ISO 1185 / 24V (DIN 72579 SAE)

C = plug 24V DIN ISO 3731

## Type 1

| Type               | Coils  | Working length | Plug         | Order no.          |
|--------------------|--------|----------------|--------------|--------------------|
|                    |        | mm             |              |                    |
| <b>662 024 500</b> | 16±1.0 | 3000           | without      | <b>662 024 500</b> |
| <b>662 024 501</b> | 16±1.0 | 3000           | A-A ISO 1724 | <b>662 024 501</b> |
| <b>662 024 526</b> | 16±1.0 | 3000           | C-C ISO 3731 | <b>662 024 526</b> |
| <b>662 024 505</b> | 18±1.5 | 3500           | B-B ISO 1185 | <b>662 024 505</b> |
| <b>662 024 515</b> | 18±1.5 | 3500           | B-B ISO 1185 | <b>662 024 515</b> |

- Cable configuration: 2, 3, 4, 5, 6, 7 = 1 mm<sup>2</sup>, 1 = 1.5 mm<sup>2</sup>
- Cable insulation: PVC
- Cable colour: as per DIN ISO 4141
- Coating: polyamide

## Type 2

| Type               | Coils  | Working length | Plug    | Order no.          |
|--------------------|--------|----------------|---------|--------------------|
|                    |        | mm             |         |                    |
| <b>662 024 507</b> | 18±1.5 | 3500           | without | <b>662 024 507</b> |

- Cable configuration: E-Cu wire 1 = 2.5 mm<sup>2</sup> (50/0.26 mm), 2-9 = 1.5 mm<sup>2</sup> (30/0.26 mm)
- Cable insulation: PVC
- Cable colour: 1-black, 2-blue, 3-yellow, 4-yellow/red, 5-white, 6-red, 7-green, 8-yellow/blue, 9-yellow/black
- Coating: polyamide
- Coating colour: black

## Type 3

| Type               | Coils  | Working length | Plug    | Order no.          |
|--------------------|--------|----------------|---------|--------------------|
|                    |        | mm             |         |                    |
| <b>662 024 508</b> | 18±1.5 | 3500           | without | <b>662 024 508</b> |

- Cable configuration: 12 x 1.5 mm<sup>2</sup>, 1 x 2.5 mm<sup>2</sup>
- Cable insulation: PVC
- Cable colour: as per DIN 72551-7
- Coating: Hytrel
- Coating colour: black

## Type 4

| Type               | Coils | Working length | Plug         | Order no.          |
|--------------------|-------|----------------|--------------|--------------------|
|                    |       | mm             |              |                    |
| <b>662 024 511</b> | 59±4  | 4500           | B-B ISO 1185 | <b>662 024 511</b> |

- Article 662024509 - 512 same as 662024509, but with plug, see type 1
- Cable configuration: 6 x 1 mm<sup>2</sup>, 1 x 1.5 mm<sup>2</sup>
- Cable insulation: PVC
- Cable colour: as per DIN ISO 4141
- Coating: Flexilec

# 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 of 2" and 3½" kingpins



Special tamper-proof cylinder safety lock incl. 2 keys. Special locking combinations e.g. series of identical locks 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

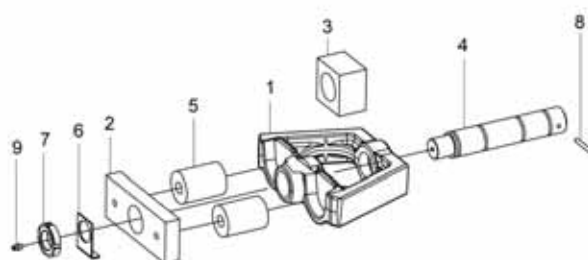
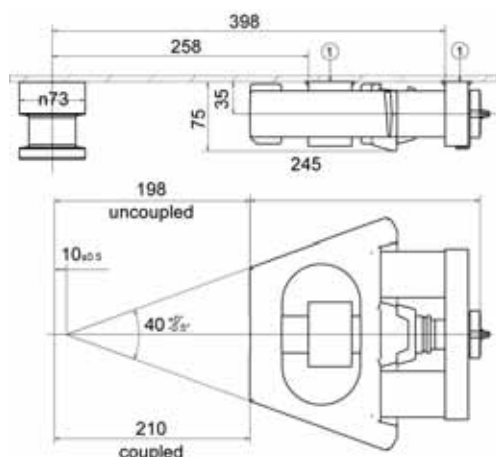
- Rugged body made of spheroidal graphite cast iron guarantees a long life even under the toughest operating conditions.
- The integrated rubber spring suspension, spring extension 18mm, prevents jamming during driving.
- The steering wedge does not require any special maintenance and the integrated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



## Technical data

| Type                    | Model             | Type approval | Weight<br>kg | Order no.   |
|-------------------------|-------------------|---------------|--------------|-------------|
| Steering wedge assembly | spring suspension | DIN 74085     | 12,2         | 662 101 280 |

## Dimensions



## Spare parts for steering wedge

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

## Assembly instructions

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

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



# Hubodometer

## Mileage indicator for trailers

Georg Fischer 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 | 3333 (3275 - 3400)    | 662 025 000 |
| Hubodometer | 3401 (3350 - 3450)    | 662 025 002 |
| Hubodometer | 3458 (3100 - 3200)    | 662 025 003 |

### Fitting instructions

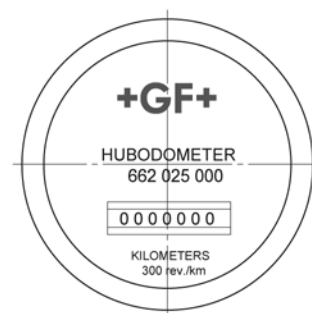
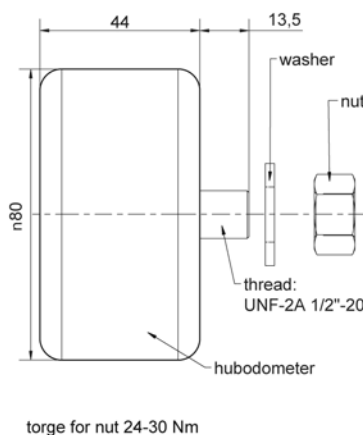
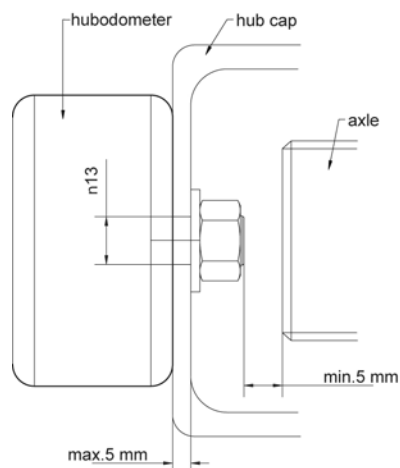
#### For direct assembly on the hub cap:

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 5mm between screw neck and axle arm. Other types of assembly are possible, e.g. at the flat steel hoop outside of the hub cap (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 settings 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 with use of the recommended lubricant, the simalube accessory program and observance of the mounting, operating and maintenance regulations. Failure to observe these instructions excludes the manufacturer from liability for any resulting damages.

## Safety instructions

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 point.

## Notes

## Mobility

People are increasingly mobile, and they have ever greater demands for comfort and safety in their vehicles. With its highly stressable cast parts made of light metal and iron, GF Automotive makes it possible to build commercial vehicles that are both light-weight and safe.

## Kingpins

# Kingpins

Georg Fischer 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. Four 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 application due to higher D-values
- Type approved
- Large assortment - optimal design for all semi-trailers
- Range of interchangeable pins 2" and 3 1/2"

## 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 tractor and 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 DIN 74084, 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 information

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.

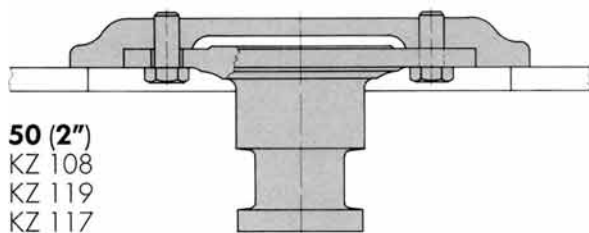
**For safety reasons, use only original Georg Fischer spare parts.**

Our product guarantee becomes invalid if non-original parts are used.

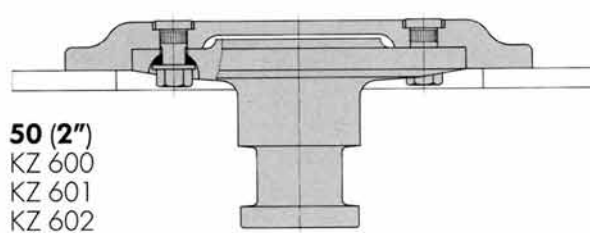
## Ordering instructions

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

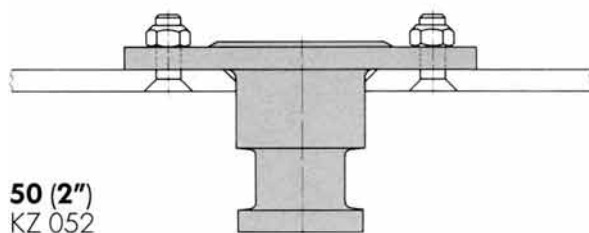
# Overview of product range



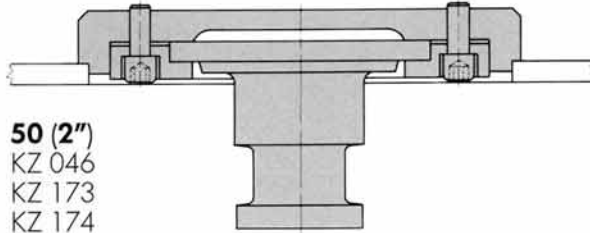
**50 (2'')**  
KZ 108  
KZ 119  
KZ 117  
KZ 491



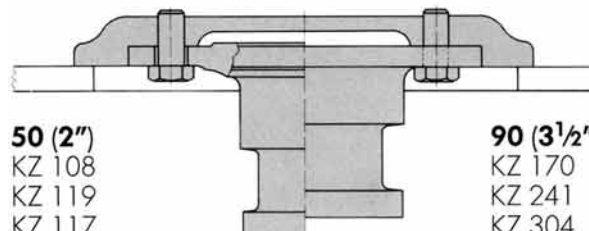
**50 (2'')**  
KZ 600  
KZ 601  
KZ 602  
KZ 630



**50 (2'')**  
KZ 052

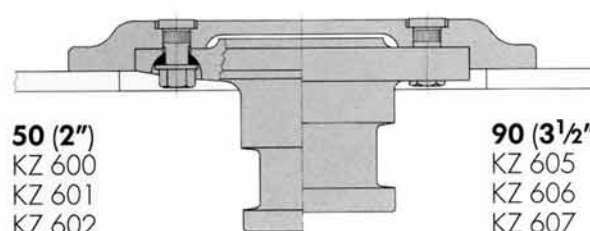


**50 (2'')**  
KZ 046  
KZ 173  
KZ 174



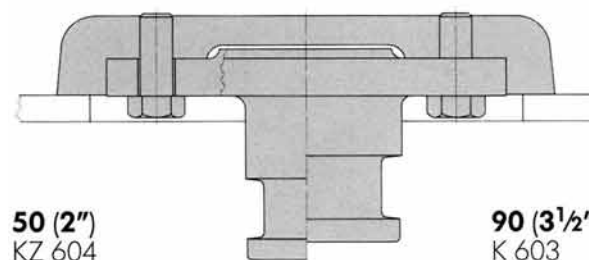
**50 (2'')**  
KZ 108  
KZ 119  
KZ 117

**90 (3 1/2'')**  
KZ 170  
KZ 241  
KZ 304



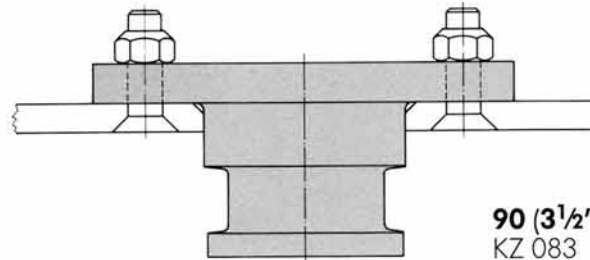
**50 (2'')**  
KZ 600  
KZ 601  
KZ 602

**90 (3 1/2'')**  
KZ 605  
KZ 606  
KZ 607

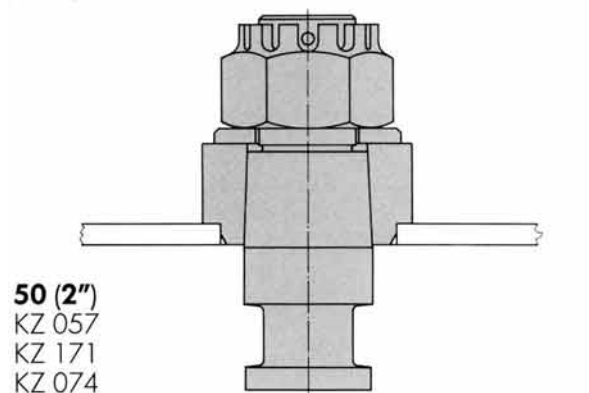


**50 (2'')**  
KZ 604

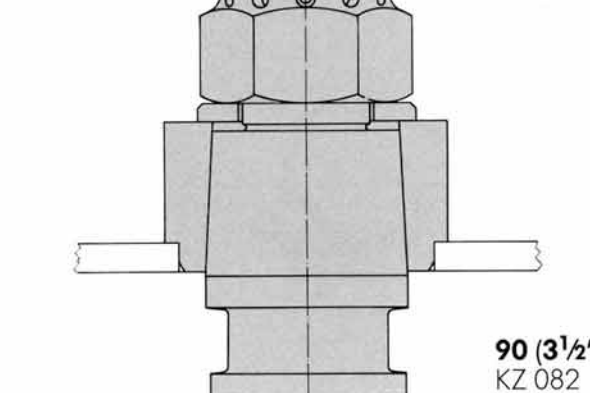
**90 (3 1/2'')**  
K 603



**90 (3 1/2'')**  
KZ 083



**50 (2'')**  
KZ 057  
KZ 171  
KZ 074



**90 (3 1/2'')**  
KZ 082

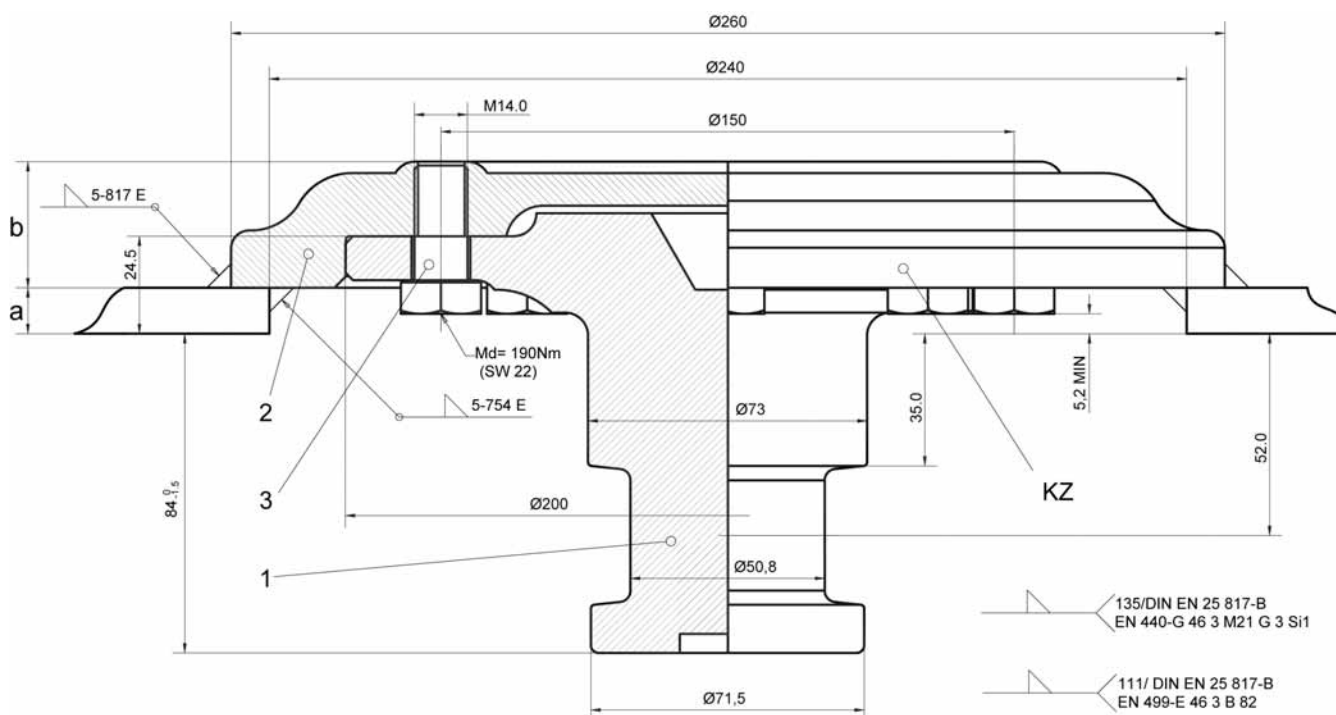
# Kingpins 50 mm (2")

## KZ 108, 119, 117, 491

- Diameter (Inch): 2
- Mounting: bolted flange
- Type: flanged
- Pitch circle diameter (mm): 150
- D-value (kN): 152
- Weight (kg): 12.5

### Type approval:

- EG homologation: 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



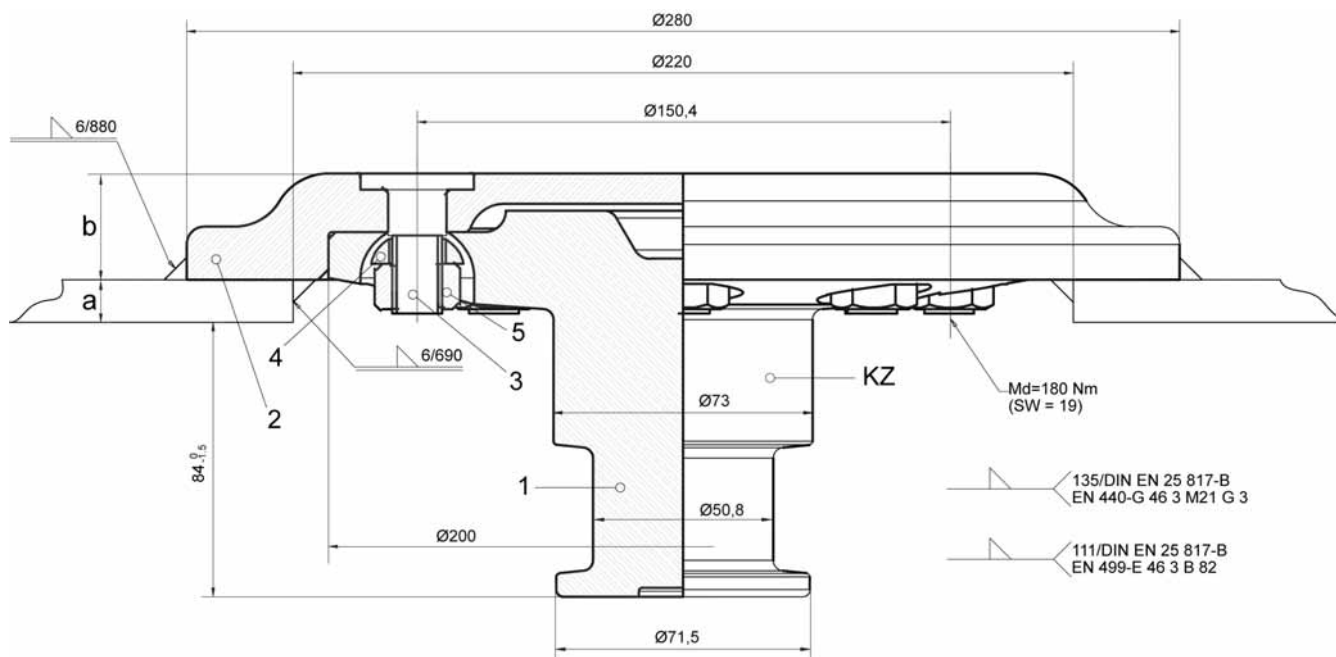
# KZ 600, 601, 602, 630

- Diameter (Inch): 2
- Mounting: bolted flange
- Type: flanged
- Pitch circle diameter (mm): 150.4
- D-value (kN): 162.4
- Weight (kg): 14.2



## Type approval:

- EG homologation: 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 |

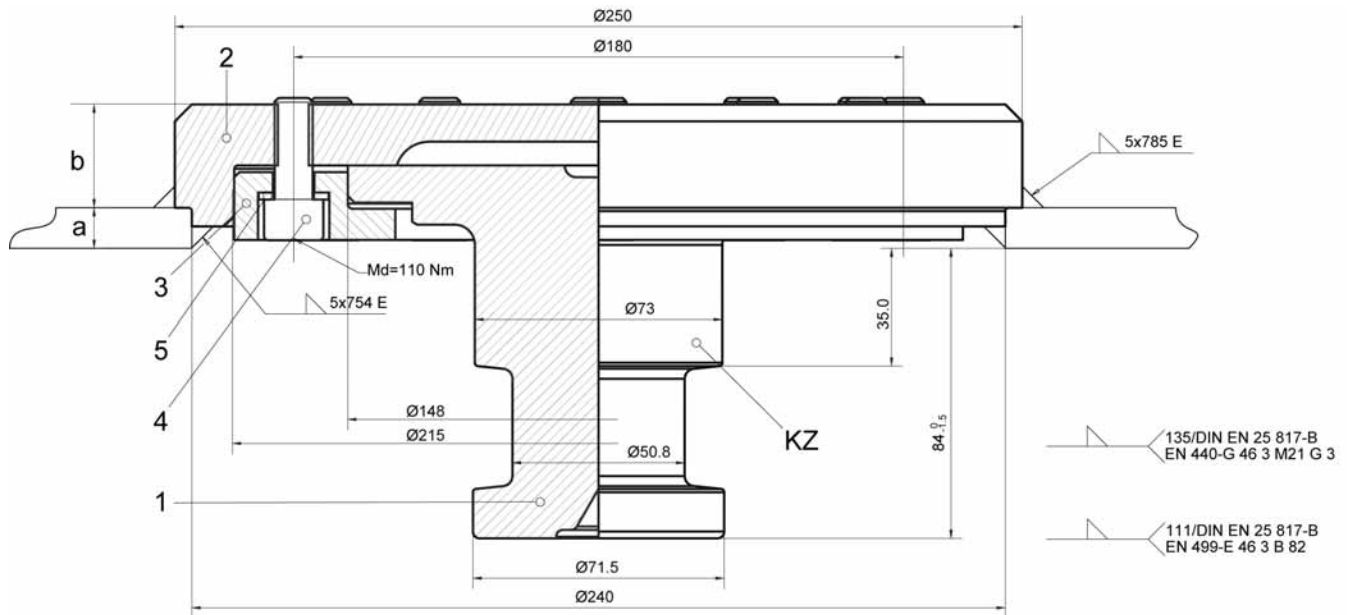
- Mounting flange for kingpin incl. mounting kit
- Kingpins can be replaced from below
- With fitting option of pin 90mm (3½") no. 662 102 023

# KZ 046, 173, 174

- Diameter (Inch): 2
- Mounting: bolted mounting ring
- Type: flanged
- Pitch circle diameter (mm): 180
- D-value (kN): 125
- Weight (kg): 15.0

## Type approval:

- G: M 4625
- NL: RDW 17010090



| Item | Component (price per piece)    | Nominal size | Plate thickness a | Mounting height b | Colour code | Order no.   |
|------|--------------------------------|--------------|-------------------|-------------------|-------------|-------------|
|      |                                | inch         | mm                | mm                |             |             |
| KZ   | KZ 174 complete                | 2"           | 8                 | 34.5              | white       | 662 101 174 |
| KZ   | KZ 173 complete                | 2"           | 10                | 32.5              | blue        | 662 101 173 |
| KZ   | KZ 046 complete                | 2"           | 12                | 30.5              | yellow      | 662 101 046 |
| 1    | Kingpin                        | 2"           |                   |                   |             | 662 101 042 |
| 2    | Mounting flange for KZ 174     |              | 8                 | 34.5              | white       | 662 101 176 |
| 2    | Mounting flange for KZ 173     |              | 10                | 32.5              | blue        | 662 101 175 |
| 2    | Mounting flange for KZ 046     |              | 12                | 30.5              | yellow      | 662 101 047 |
| 3    | Ring                           |              |                   |                   |             | 662 101 044 |
| 4    | Bolt (12 per kingpin)          |              |                   |                   |             | 659 112 345 |
| 5    | Spring washer (12 per kingpin) |              |                   |                   |             | 659 112 346 |

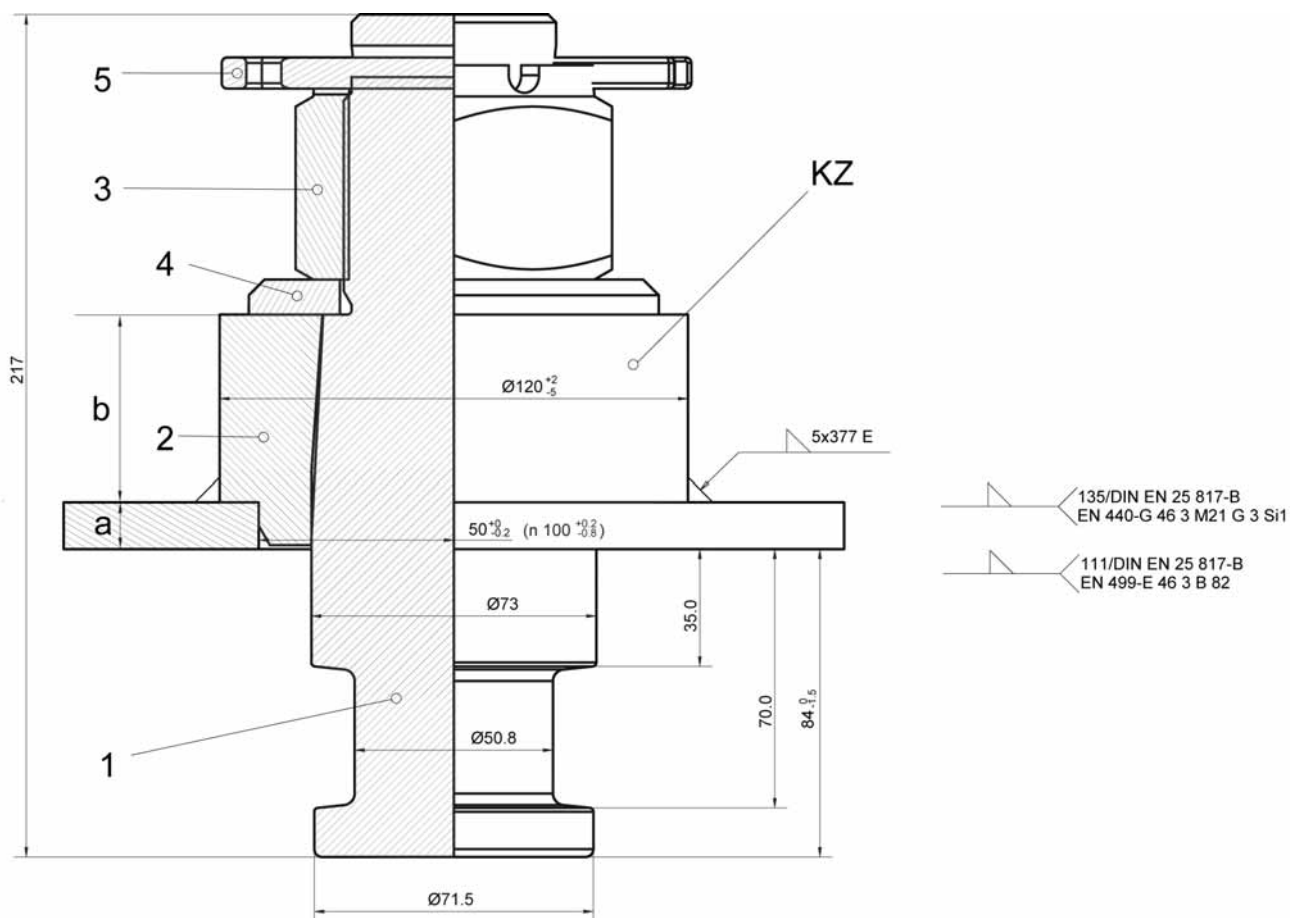
- Kingpins can be replaced from below
- Note: Self-locking bolts may only be used once

# KZ 057, 074, 171

- Diameter (Inch): 2
- Mounting: castellated nut
- Type: inserted
- D-value (kN): 149
- Weight (kg): 9.9

## Type approval:

- EG homologation: e1-00-0377



| Item | Component (price per piece) | Nominal size | Plate thickness a | Mounting height b | Colour code | Order no.   |
|------|-----------------------------|--------------|-------------------|-------------------|-------------|-------------|
|      |                             | inch         | mm                | mm                |             |             |
| KZ   | KZ 074 complete             | 2"           | 8                 | 52                | white       | 662 101 074 |
| KZ   | KZ 171 complete             | 2"           | 10                | 50                | blue        | 662 101 171 |
| KZ   | KZ 057 complete             | 2"           | 12                | 48                | yellow      | 662 101 057 |
|      | Without conical bush        |              |                   |                   |             | 662 101 369 |
| 1    | Kingpin                     | 2"           |                   |                   |             | 662 101 055 |
| 2    | Conical bush                |              | 8                 | 52                | white       | 662 101 073 |
| 2    | Conical bush                |              | 10                | 50                | blue        | 662 101 172 |
| 2    | Conical bush                |              | 12                | 48                | yellow      | 662 101 056 |
| 3    | Castellated nut             |              |                   |                   |             | 659 115 208 |
| 4    | Washer                      |              |                   |                   |             | 659 120 236 |
| 5    | Split pin                   |              |                   |                   |             | 659 130 023 |

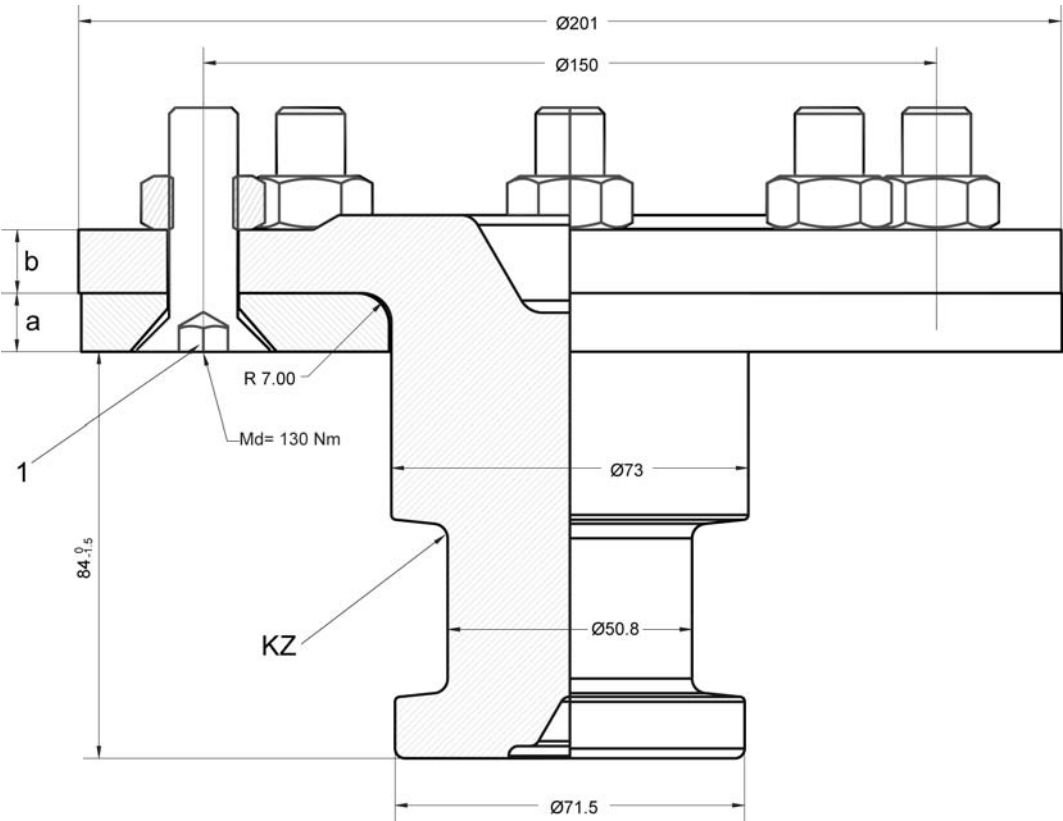
- Kingpins with round flange

# 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:**

- EG homologation: e11-00-0374



| Item | Component (price per piece)                                | Nominal size | Plate thickness a | Flange height b | Colour code | 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 |

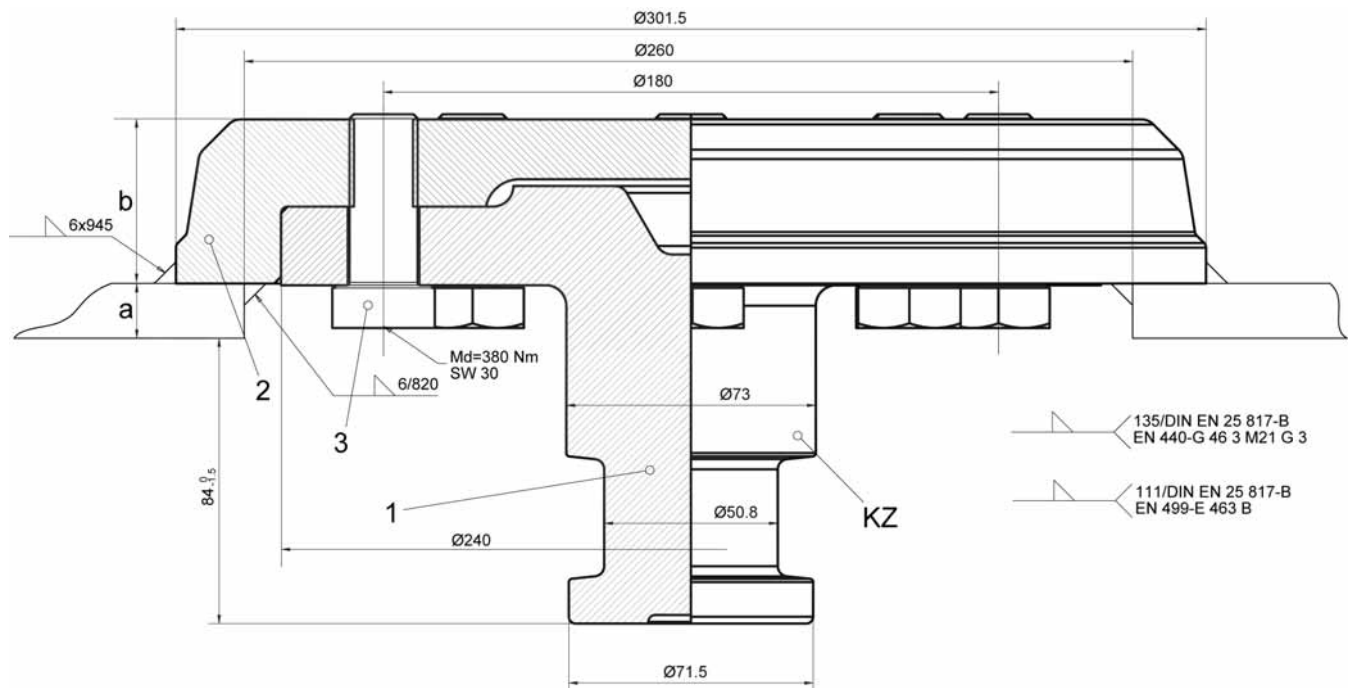
- Note: Self-locking nuts may only be used once

# 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:

- EG homologation: 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

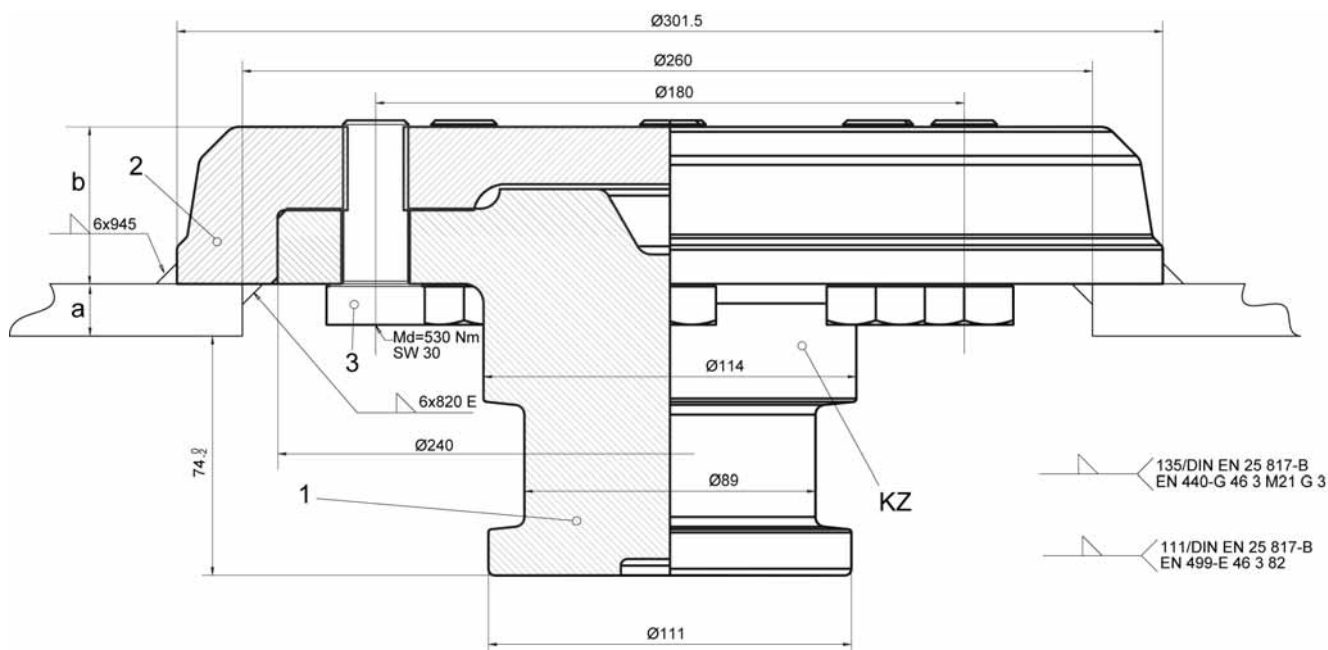
# Kingpins 90 mm (3½")

## KZ 603

- Diameter (Inch): 3½
- Mounting: bolted flange
- Type: flanged
- Pitch circle diameter (mm): 180
- D-value (kN): 280
- Weight (kg): 30.7

### Type approval:

- EG homologation: e11-00-0393

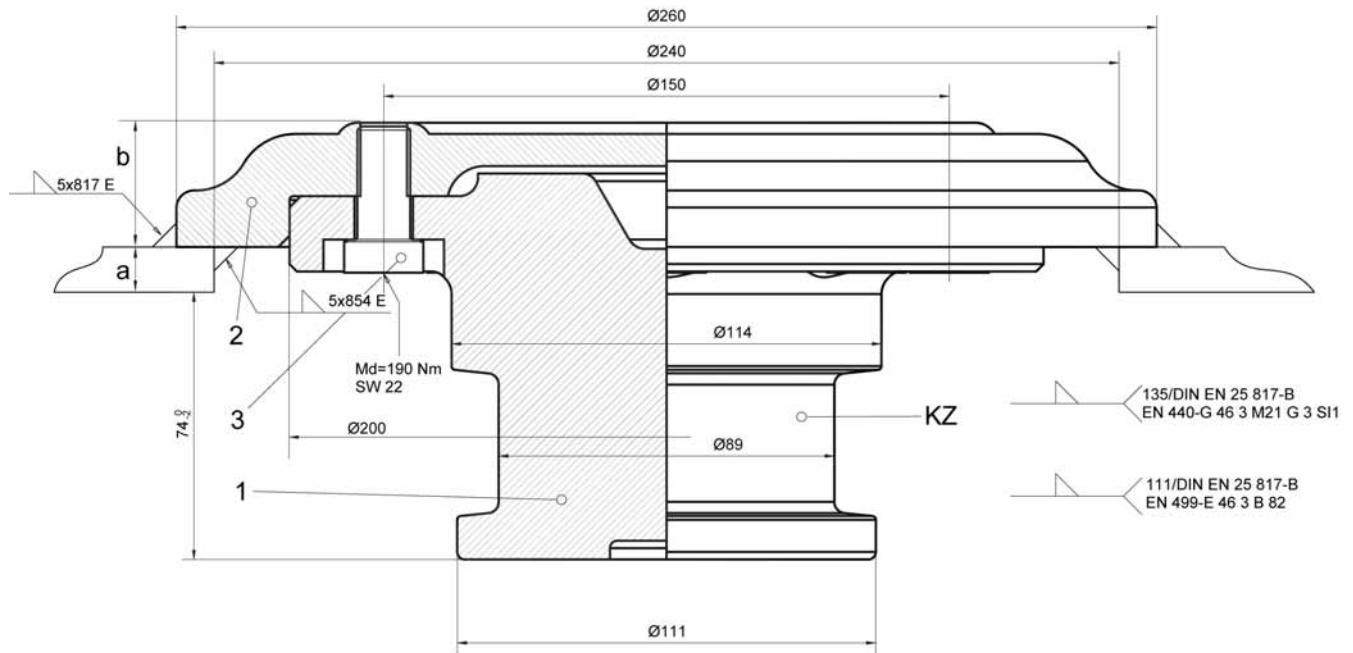


| Item | Component (price per piece) | Nominal size | Plate thickness a | Mounting height b | Colour code | Order no.   |
|------|-----------------------------|--------------|-------------------|-------------------|-------------|-------------|
|      |                             | inch         | mm                | 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): 152
- Weight (kg): 17.0



| 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

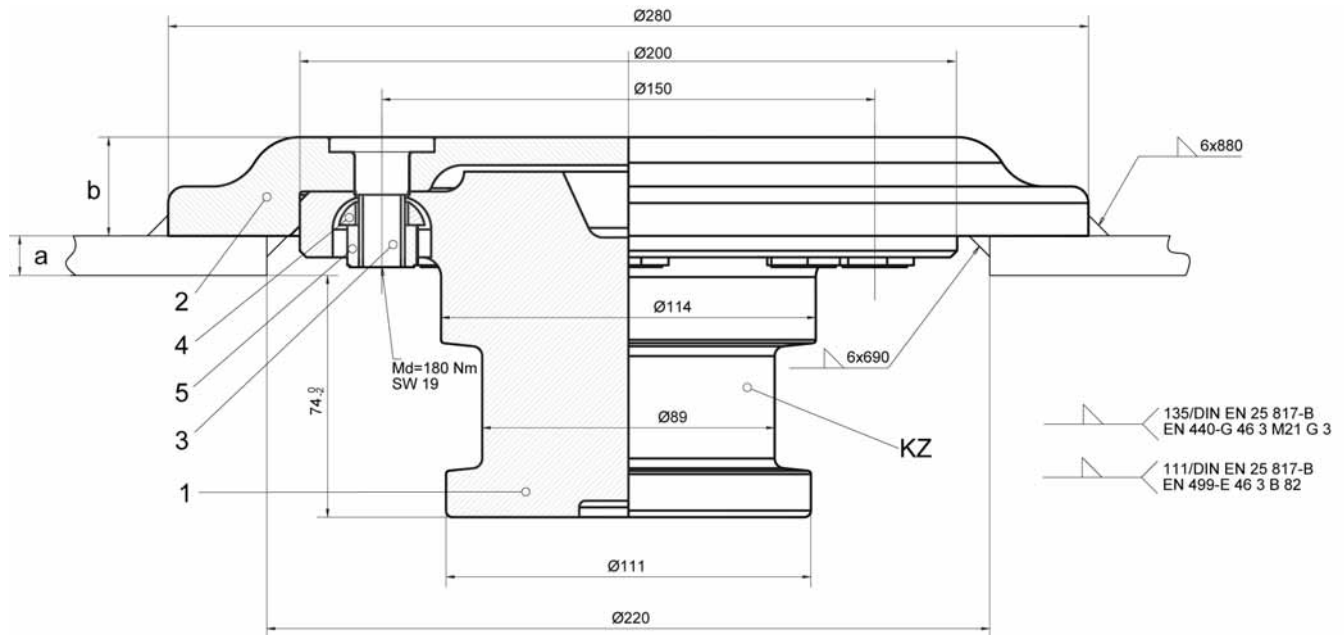


# KZ 605, 606, 607

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

## Type approval:

- EG homologation: 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 |

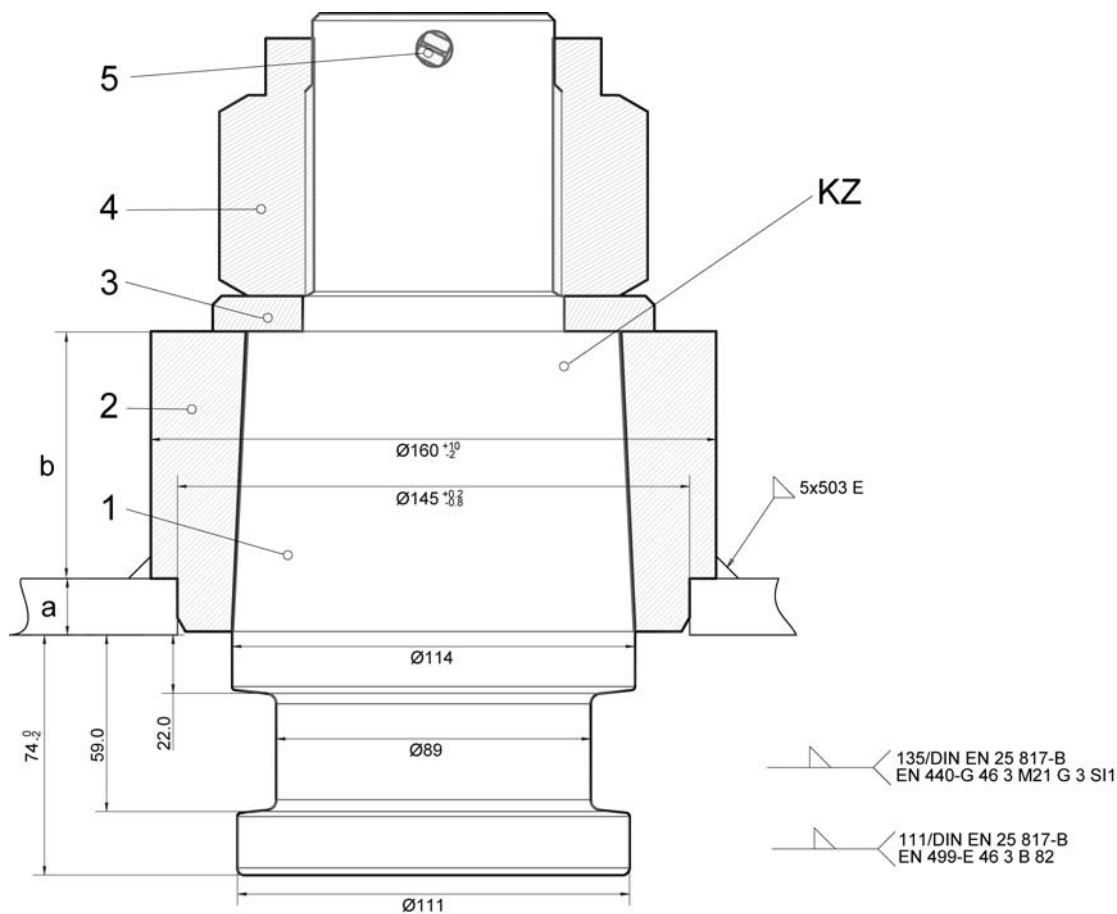
- Kingpins can be replaced from below
- With fitting option of pin 50mm (2") no. 662 102 020

# KZ 082

- Diameter (Inch): 3½
- Mounting: castellated nut
- Type: inserted
- D-value (kN): 254.9
- Weight (kg): 23.0

## Type approval:

- EG homologation: e11-00-0376



| Item | Component (price per piece) | Nominal size | Plate thickness a | Mounting height b | Colour code | Order no.   |
|------|-----------------------------|--------------|-------------------|-------------------|-------------|-------------|
|      |                             | inch         | mm                | mm                |             |             |
| KZ   | KZ 082 complete             | 3½"          | 16                | 70                | -           | 662 101 082 |
| 1    | Kingpin                     | 3½"          |                   |                   |             | 662 101 080 |
| 2    | Conical bush                |              |                   |                   |             | 662 101 081 |
| 3    | Washer                      |              |                   |                   |             | 659 120 237 |
| 4    | Castellated nut             |              |                   |                   |             | 659 115 209 |
| 5    | Splint pin                  |              |                   |                   |             | 659 130 024 |

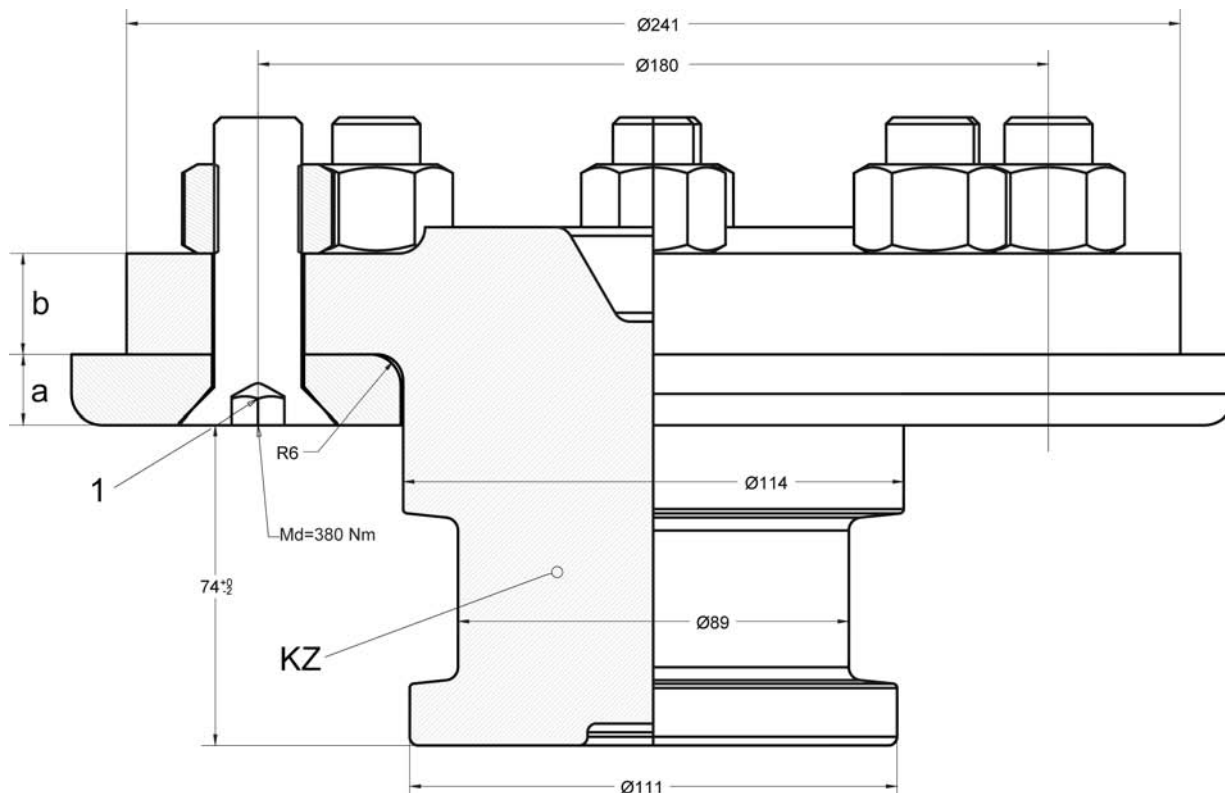
- Kingpins with round flange

# KZ 083

- Diameter (Inch): 3½
- Mounting: bolted flange
- Type: flanged
- Pitch circle diameter (mm): 180
- D-value (kN): 255
- Weight (kg): 13.5

## Type approval:

- EG homologation: e11-00-0392



| Item | Component (price per piece)                                | Nominal size | Plate thickness a | Flange height b | Colour code | Order no.   |
|------|------------------------------------------------------------|--------------|-------------------|-----------------|-------------|-------------|
|      |                                                            | inch         | mm                | mm              |             |             |
| KZ   | KZ 083 (without mounting kit)                              | 3½"          | 16                | 23              | -           | 662 101 083 |
| 1    | Mounting kit consisting of 8 bolts and 8 self-locking nuts |              |                   |                 |             | 662 101 232 |

- Self-locking nuts may only be used once

# 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 +0.4 / -0.3  
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: VlllsDIN 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 splint pins.

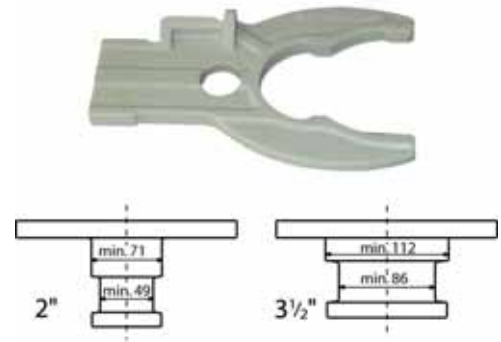
Before putting the semi-trailer into service, grease the kingpin thoroughly using a long-life, high-pressure grease with molybdenum or graphite additive.

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

# 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 Georg Fischer parts.



## Technical data

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

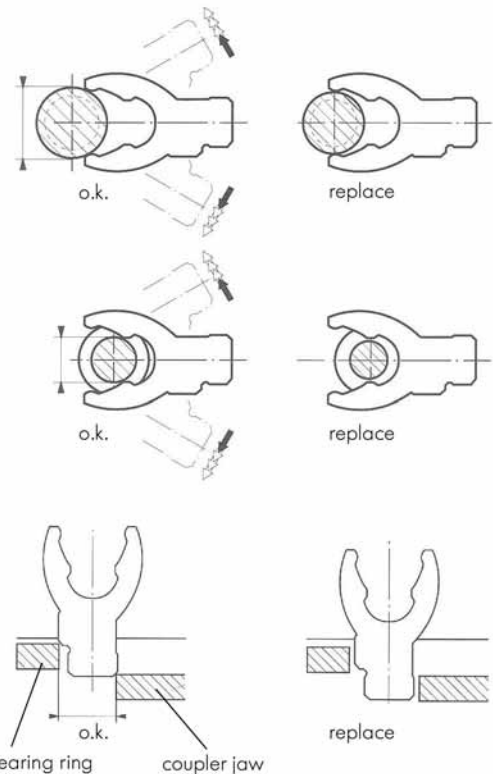
## Operating instructions

The gauge surfaces may not slide over the Georg Fischer 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

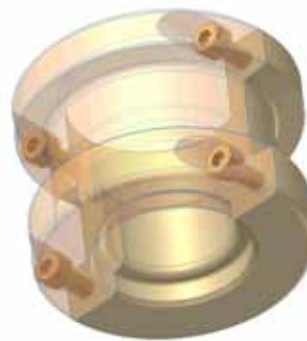
- with carabiner hook: attach it
- with automatic latch: check whether it is engaged and the cam does not protrude next to the operating handle

**Important: Perform PULL TEST in a low gear.**

# King pin adaptor

## 2" on 3½"

- King pin adaptor to couple a 2" king pin on a 3½" fifth wheel
- The D-value of the 2" king pin 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.

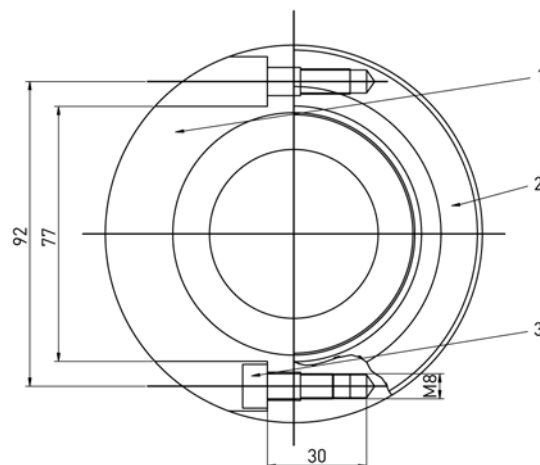
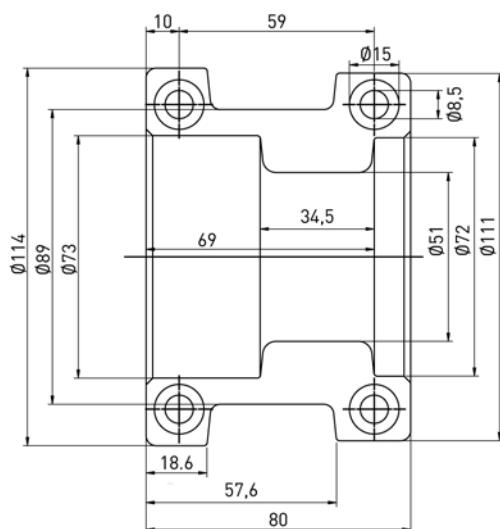


### Technical data

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

- King pin is not included when ordering the adaptor.

### Dimensions



## Notes



## Mobility

People are increasingly mobile, and they have ever greater demands for comfort and safety in their vehicles. With its highly stressable cast parts made of light metal and iron, GF Automotive makes it possible to build commercial vehicles that are both light-weight and safe.

## Ball Races

# Ball Races for drawbar trailers

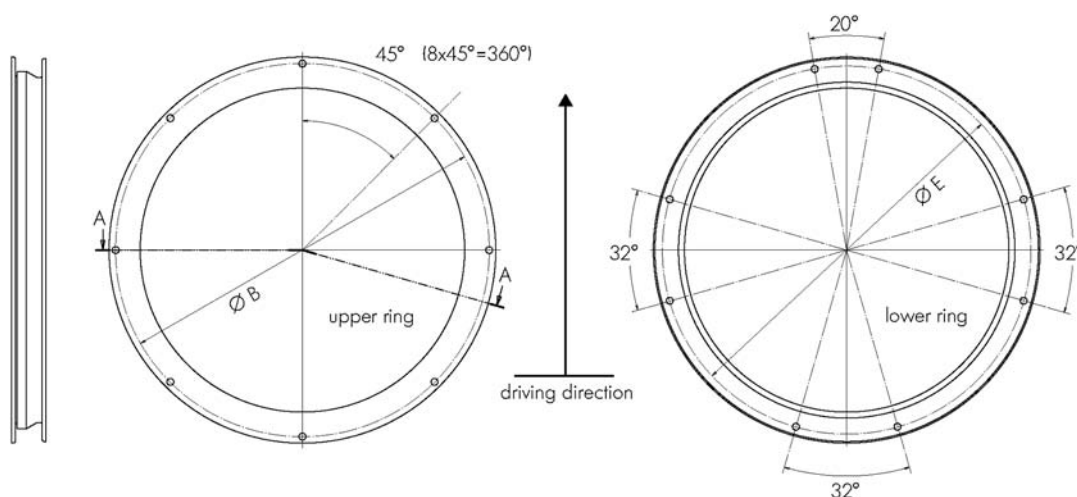
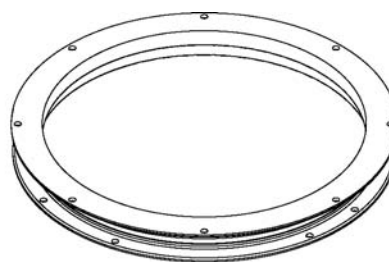
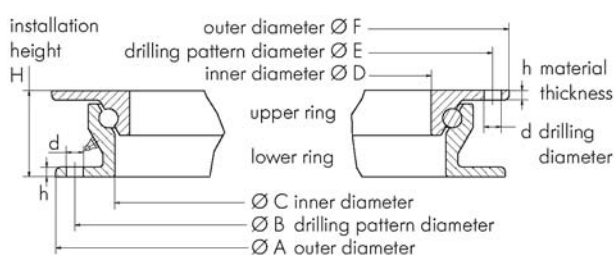
Georg Fischer ball races are components for fitting onto trailers and agricultural vehicles and for use on roads.

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

Georg Fischer is currently the only manufacturer of ball races which are tested by the TÜV, the German Quality Assurance Association.



## Single Row Ball Races STANDARD MAINTENANCE

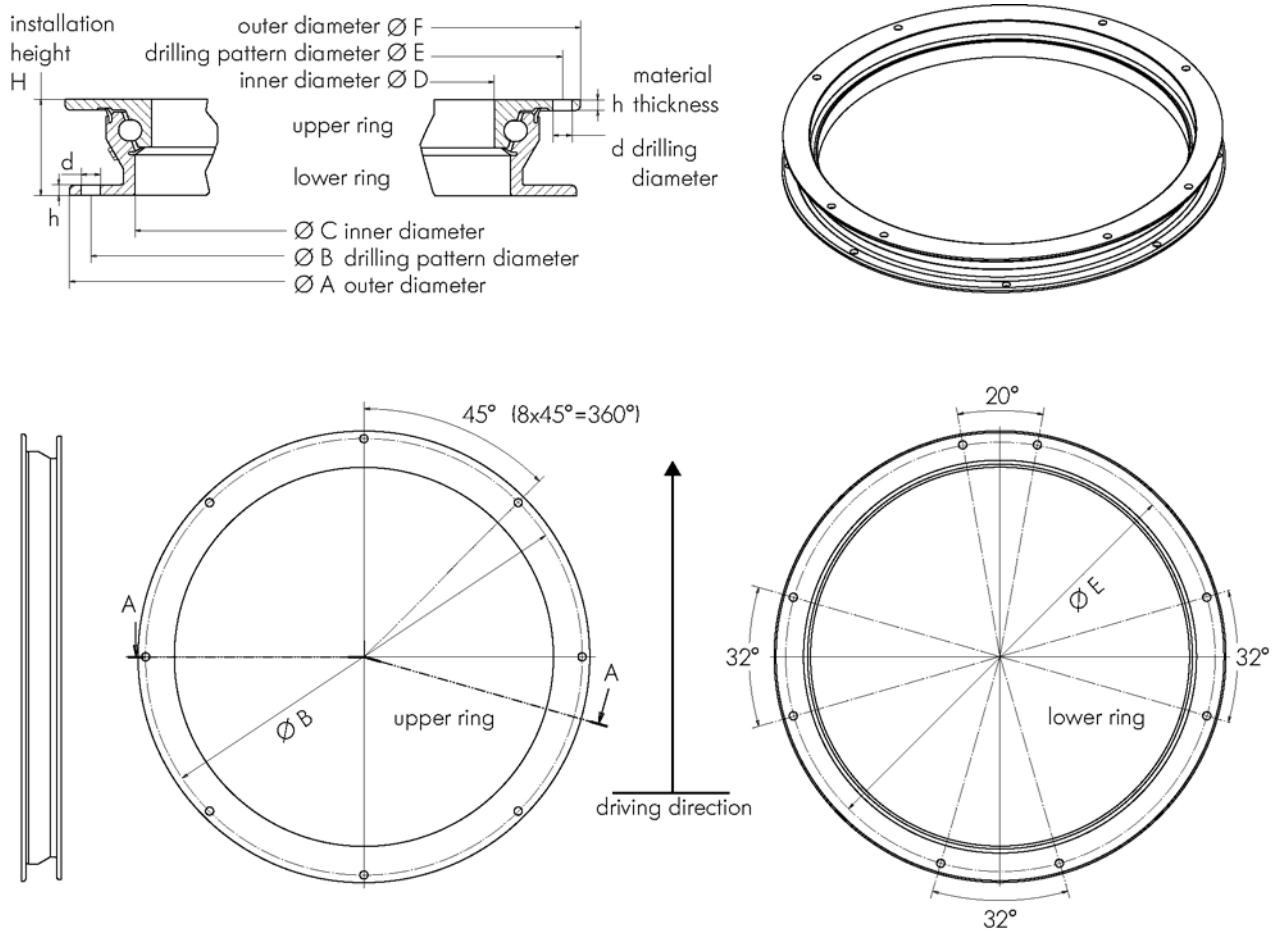


| Type      | Model     | Max. axial load | A    | B    | C    | D    | E    | F    | d  | h  | H  | Weight | Order no.   |
|-----------|-----------|-----------------|------|------|------|------|------|------|----|----|----|--------|-------------|
|           |           | t               | mm   | mm   | 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 | 80     | 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 | 80     | 662 106 130 |
| BR-W 10-1 | drilled   | 10              | 1000 | 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 Georg Fischer 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%.

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

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

## Notes



**RECOLOCK®**

Automatic container  
locking mechanism

High speed for  
container transport



# RECOLOCK® – High speed for container transport

## Keep things running smoothly

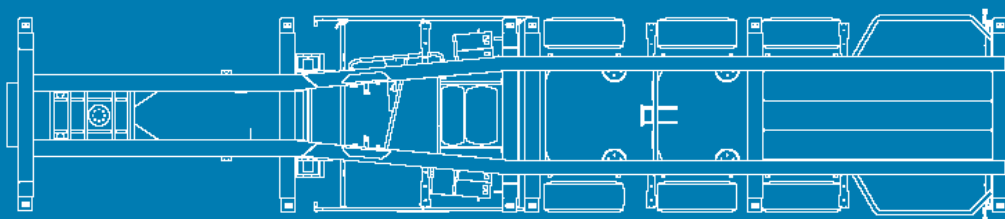
In hardly any other location can you witness the volume and speed of the freight flow than at a container port. Over 6 million TEUs are handled in Hamburg alone, one of the largest container ports in Europe. Or in other terms, a container is transferred from ship to truck or vice versa every five seconds – 24 hours a day, 365 days a year. It goes without saying that everyone involved in loading and unloading is under tremendous time pressure.

## Increase efficiency at the port ...

The time pressures involved prompted the engineers at GF Automotive to develop an automatic container locking mechanism. The resultant technology takes the name RECOLOCK® (Remote Control Locking). RECOLOCK® allows containers to be secured to the trailer in only a few seconds. Studies have shown that the automatic container locking mechanism saves an enormous amount of time – the haulage contractor can work more efficiently than ever before.

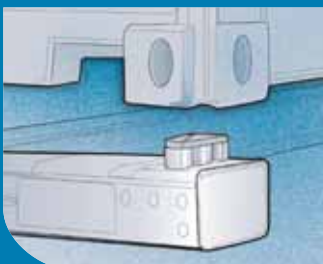
## Individual configuration options

Depending on the application, RECOLOCK® can be individually configured. Pneumatic or electropneumatic operation is possible. All standard container chassis can be fitted with RECOLOCK®.



### RECOLOCK®

|                    |                                                                                   |
|--------------------|-----------------------------------------------------------------------------------|
| Locking mechanism: | Twistlock which rotates and tightens in one movement                              |
| Safety:            | Mechanical lock in the event of pressure loss within the locking mechanism        |
| Activation:        | Pneumatic or electro-pneumatic                                                    |
| Monitoring:        | Visual or with sensors on the locking mechanism and centrally at the control unit |
| Containers:        | Freight container DIN ISO 1161 40ft high-cube and 20ft ISO                        |
|                    | Maximum weight per container: 34 tons                                             |



The container is placed on the trailer

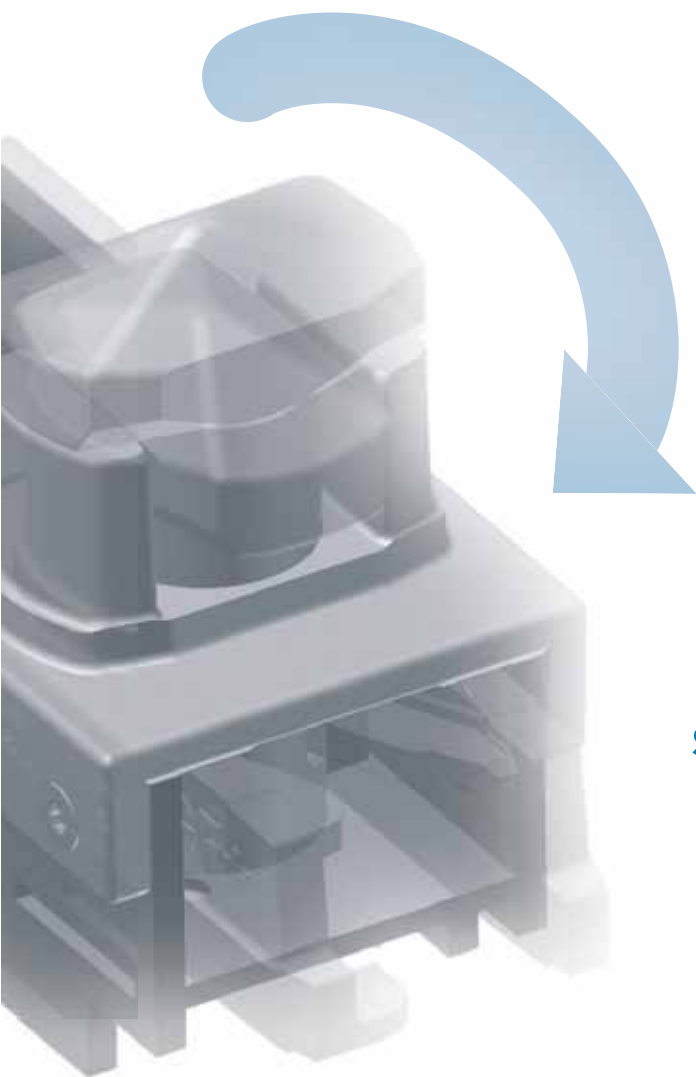


The corner casting and locking mechanism fit together perfectly



RECOLOCK® locks the container firmly on the trailer

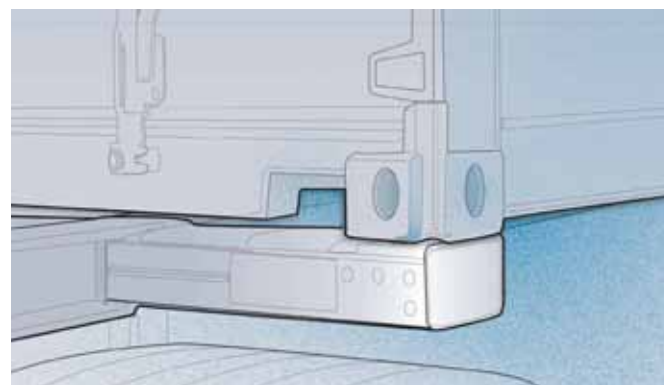
RECOLOCK® was developed, patented and tested by Rüdiger Metternich Metallbau, Hamburg. As partner with global presence, Georg Fischer Verkehrstechnik has taken over the exclusive rights to manufacturing, marketing and sales.



## fast

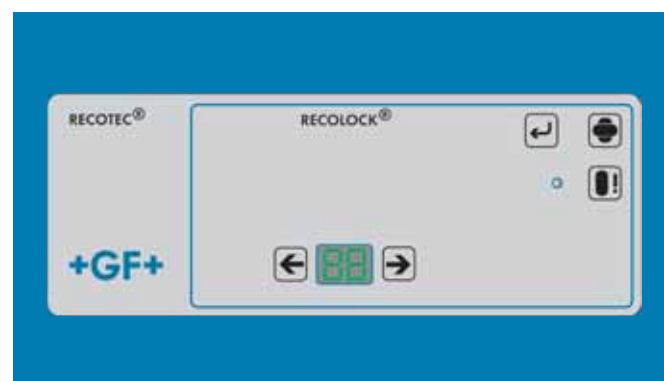


Every manual process during loading and unloading which can be dispensed with increases efficiency. RECOLOCK® allows containers to be secured on to the trailer in only a few seconds.



## safe

As RECOLOCK® performs the locking process within seconds, a secure connection between container and vehicle is possible when under time pressure. All of the locking mechanisms are opened or closed at the same time. This reduces potential errors to a minimum.



## convenient

With RECOLOCK® the entire locking process is monitored from a central point. It is no longer necessary to laboriously lock each individual twistlock by hand – that saves time and makes work more pleasant – leaving you to drive in comfort.



# RECOLOCK® F (fixed)

## Automatic fixed container locking system for 20-foot container chassis

RECOLOCK® F - the new automatic container locking system with fixed locking devices was developed for a 20ft container chassis.

Locking and unlocking is now possible within seconds from a central control unit on the chassis.



- Semi-trailers can be pulled by every standard tractor
- Suitable for all 20ft standard container chassis
- Protected transport through 4 locking hooks
- Locking device control is displayed on the control panel
- Quick loading and unloading due to shorter times for opening and locking
- Approx. 2 minutes are saved during each loading and unloading
- Increased safety in the driver's environment - fewer accidents
- Low maintenance and repair costs

### Technical data

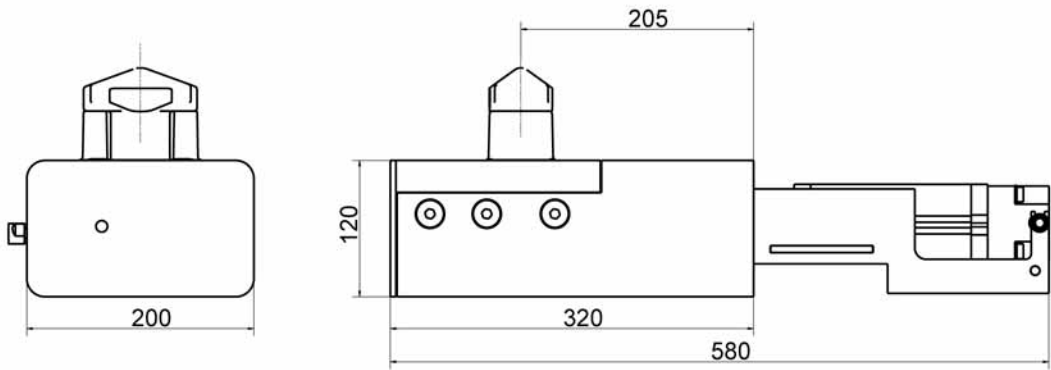
- Mechanical safety in the case of pressure loss
- Clamping range 20mm for freight containers DIN ISO 1161 for containers up to a max. of 34 tons
- Emergency opening function
- Developed in accordance with ADR guidelines
- Theoretical clamping force 1900-2800 [N6-8.5 bar]

| Type                                        | Model                 | Order no.   |
|---------------------------------------------|-----------------------|-------------|
| RECOLOCK® Type F Remote indication assembly | 20ft container, fixed | 663 101 013 |

### Assembly includes:

- 4 x Locking mechanism consisting of mechanics and tube for welding
- 4 x Pneumatic set consisting of cylinder, hand valve, tubes, pneumatic remote indication, control cabinet

### Dimensions



## Mobility

People are increasingly mobile, and they have ever greater demands for comfort and safety in their vehicles. With its highly stressable cast parts made of light metal and iron, GF Automotive makes it possible to build commercial vehicles that are both light-weight and safe.

## TRILEX®- Wheel System

# 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



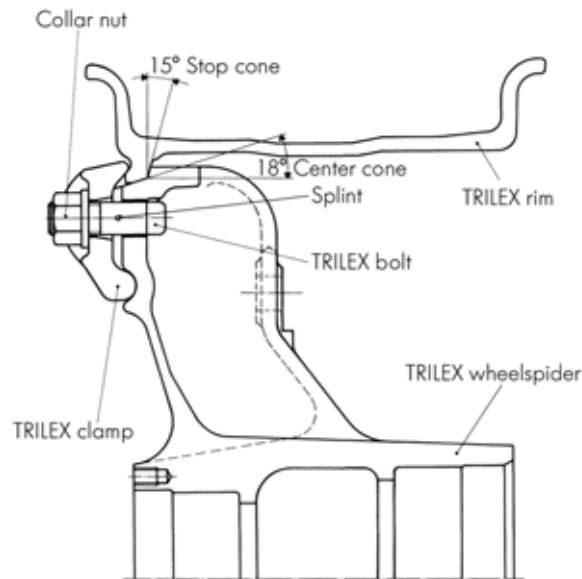
for tubeless tyres



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.

**Use the following torques:**

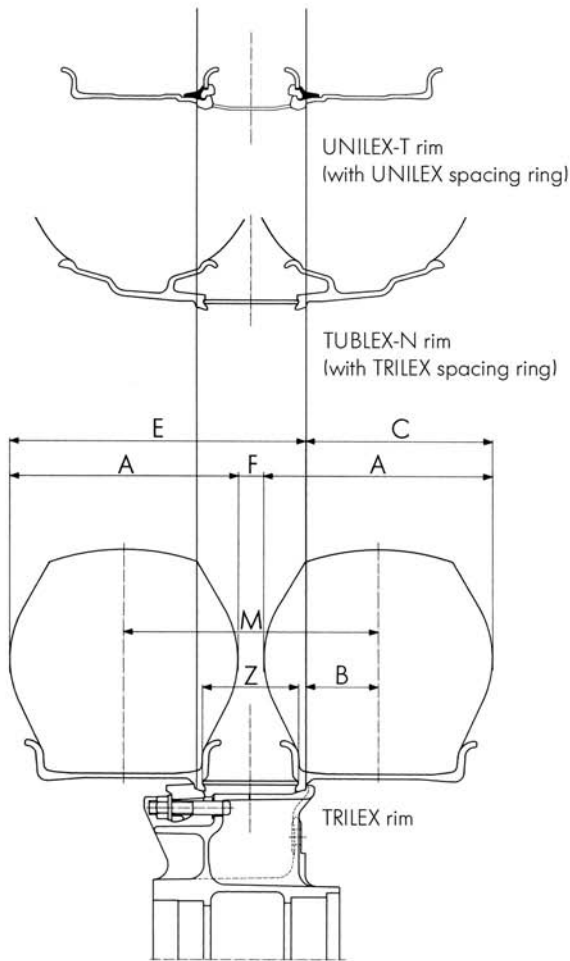
- M18 bolts: 270-300 Nm
- M20 bolts: 320-350 Nm

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.

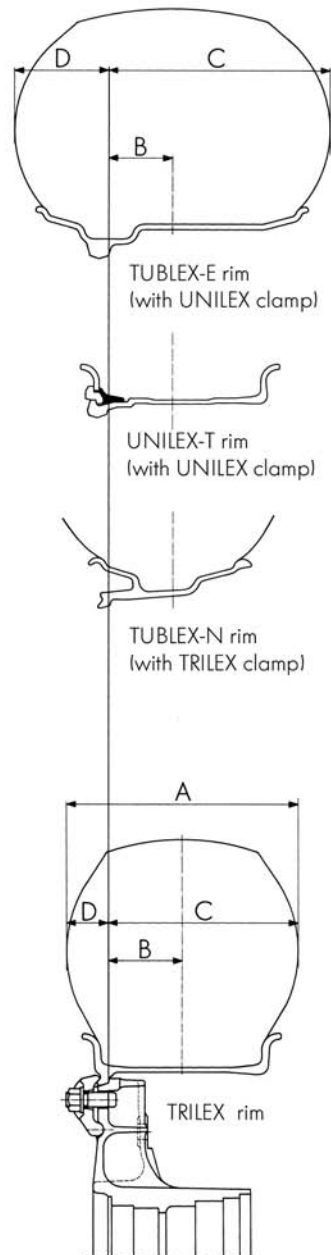
- **Never repair or weld them.**

# 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   |
|------|-------------|---------|-----|-------|-------|------|-------|----|-----|-----|
| inch |             |         | mm  | mm    | mm    | mm   | mm    | mm | mm  | mm  |
| 15"  | 7.50 R 15   | 6.0-15  | 212 | 69,0  | 175,0 | 37,0 | 283,0 | 34 | 90  | 246 |
| 15"  | 7.50 R 15   | 6.5-15  | 217 | 74,0  | 182,5 | 34,5 | 290,5 | 39 | 90  | 256 |
| 15"  | 225/75 R 15 | 7.0-15  | 225 | 80,5  | 193,0 | 32,0 | 301,0 | 44 | 90  | 269 |
| 15"  | 8.25 R 15   | 6.5-15  | 234 | 74,0  | 191,0 | 43,0 | 309,0 | 32 | 100 | 266 |
| 15"  | 8.25 R 15   | 7.0-15  | 239 | 80,5  | 200,0 | 39,0 | 318,0 | 40 | 100 | 279 |
| 15"  | 250/70 R 15 | 7.5-15  | 251 | 86,5  | 212,0 | 39,0 | 330,0 | 40 | 100 | 291 |
| 15"  | 10.00 R 15  | 7.5-15  | 275 | 86,5  | 224,0 | 51,0 | 362,0 | 36 | 120 | 311 |
| 20"  | 8.25 R 20   | 6.5-20  | 230 | 74,0  | 189,0 | 41,0 | 306,0 | 35 | 99  | 265 |
| 20"  | 9.00 R 20   | 7.0-20  | 258 | 80,5  | 209,5 | 48,5 | 341,5 | 35 | 114 | 293 |
| 20"  | 10.00 R 20  | 7.5-20  | 275 | 86,5  | 224,0 | 51,0 | 366,0 | 40 | 124 | 315 |
| 20"  | 11.00 R 20  | 8.0-20  | 286 | 92,0  | 235,0 | 51,0 | 379,0 | 42 | 124 | 328 |
| 20"  | 12.00 R 20  | 8.5-20  | 313 | 98,5  | 255,0 | 58,0 | 414,0 | 43 | 139 | 356 |
| 20"  | 14.00 R 20  | 10.0-20 | 370 | 116,5 | 301,5 | 68,5 | 498,5 | 60 | 177 | 430 |
| 20"  | 13/80 R 20  | 8.5-20  | 321 | 98,5  | 259,0 | 62,0 | 426,0 | 43 | 147 | 364 |
| 20"  | 14/80 R 20  | 10.0-20 | 350 | 116,5 | 291,5 | 58,5 | 458,5 | 50 | 147 | 400 |
| 20"  | 12.5 R 20   | 11-20   | 330 | 108,0 | 273,0 | 57,0 | -     | -  | -   | -   |
| 20"  | 14.5 R 20   | 11-20   | 362 | 108,0 | 289,0 | 73,0 | -     | -  | -   | -   |
| 24"  | 12.00 R 24  | 8.5-24  | 313 | 98,5  | 255,0 | 58,0 | 414,0 | 43 | 139 | 356 |
| 24"  | 14.00 R 24  | 10.0-24 | 370 | 116,5 | 301,5 | 68,5 | 498,5 | 60 | 177 | 430 |

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

| ø     | Rim         | A   | B    | C     | D    | E     | F  | Z   | M   |
|-------|-------------|-----|------|-------|------|-------|----|-----|-----|
| inch  |             | 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 |

# TRILEX® wheelspiders

TRILEX® wheels have stood up to the toughest possible operating conditions the world over 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.   |
|---------------------|------|--------|-------------|
|                     | inch | 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.   |
|---------------------|------|--------|-------------|
|                     | inch | 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 |
| Trailer wheelspider | 20   | 36,0   | 604 202 201 |
| Trailer 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 adaptors for twin tyres



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

## TRILEX® wheel adaptors for single tyres



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

# Rims

## TRILEX® wide base rims

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



| Ø    | Type           | Weight | Spare part | Order no.          |
|------|----------------|--------|------------|--------------------|
| inch |                | kg     | für        |                    |
| 15"  | <b>6.0-15</b>  | 17,5   | 410 307    | <b>650 410 800</b> |
| 15"  | <b>6.5-15</b>  | 19,0   |            | <b>650 410 351</b> |
| 15"  | <b>7.0-15</b>  | 21,5   |            | <b>650 410 316</b> |
| 15"  | <b>7.5-15</b>  | 24,0   |            | <b>650 410 321</b> |
| 20"  | <b>6.5-20</b>  | 26,5   | 81T650     | <b>650 410 352</b> |
| 20"  | <b>7.0-20</b>  | 29,0   | 81T700     | <b>650 410 318</b> |
| 20"  | <b>7.5-20</b>  | 31,5   | 81T750     | <b>650 410 323</b> |
| 20"  | <b>8.0-20</b>  | 35,5   | 81T800     | <b>650 410 327</b> |
| 20"  | <b>8.5-20</b>  | 38,5   | 81T850     | <b>650 410 355</b> |
| 20"  | <b>10.0-20</b> | 50,0   | 81T100     | <b>650 410 373</b> |
| 20"  | <b>11-20</b>   | 38,1   |            | <b>650 410 815</b> |
| 24"  | <b>8.5-24</b>  | 46,5   | 81T854     | <b>650 410 357</b> |
| 24"  | <b>10.0-24</b> | 60,0   | 81T104     | <b>650 410 374</b> |

## 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.          |
|-------|--------------------|--------|--------------------|
| inch  |                    | kg     |                    |
| 22.5" | <b>22.5 x 7.50</b> | 33,5   | <b>650 511 833</b> |
| 22.5" | <b>22.5 x 8.25</b> | 36,0   | <b>650 511 836</b> |
| 22.5" | <b>22.5 x 9.00</b> | 36,0   | <b>650 511 839</b> |

## Spacing rings

### Spacing rings for TRILEX® rims



| ∅    | Width | Weight | Spare part        | Order no.          |
|------|-------|--------|-------------------|--------------------|
| inch | mm    | kg     | für               |                    |
| 20"  | 119   | 7,3    | 656102042, 062042 | <b>656 042 042</b> |
| 20"  | 124   | 7,9    | 656102044, 062044 | <b>656 042 044</b> |
| 20"  | 147   | 7,2    | 52T25             | <b>656 042 051</b> |

### Spacing rings for TRILEX® rims



| ∅    | Width | Weight | Spare part | Order no.          |
|------|-------|--------|------------|--------------------|
| inch | mm    | kg     | für        |                    |
| 15"  | 80    | 3,7    | 49T10      | <b>656 061 529</b> |
| 15"  | 100   | 4,7    | 656101536  | <b>656 061 536</b> |
| 15"  | 120   | 5,7    | 49T17      | <b>656 061 542</b> |
| 20"  | 104   | 6,8    | 49T14      | <b>656 062 037</b> |
| 20"  | 109   | 7,2    |            | <b>656 062 039</b> |
| 20"  | 114   | 7,6    | 656102040  | <b>656 062 040</b> |
| 20"  | 130   | 8,3    | 656042046  | <b>656 062 046</b> |
| 20"  | 139   | 8,7    | 656042049  | <b>656 062 049</b> |
| 20"  | 166   | 11,3   |            | <b>656 062 057</b> |
| 20"  | 177   | 12,2   |            | <b>656 062 059</b> |
| 24"  | 130   | 10,7   | 656042446  | <b>656 062 446</b> |
| 24"  | 139   | 11,2   | 656042449  | <b>656 062 449</b> |
| 24"  | 147   | 11,7   | 656042451  | <b>656 062 451</b> |
| 24"  | 177   | 15,1   |            | <b>656 062 459</b> |

### Spacing rings for UNILEX-T rims



| ∅    | Width | Weight | Spare part | Order no.          |
|------|-------|--------|------------|--------------------|
| inch | mm    | kg     | für        |                    |
| 20"  | 102   | 5,2    | 1221-00    | <b>656 122 136</b> |

# Bolts

## TRILEX® cup head bolt M18 x 2



| Type    | Shaft length | Weight | Spare part   | Order no.   |
|---------|--------------|--------|--------------|-------------|
|         | mm           | kg     | with         |             |
| 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     | with          |             |
| 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 |

## TRILEX® M18 x 2 bolt



| Type    | Shaft length | Weight | Order no.   |
|---------|--------------|--------|-------------|
|         | mm           | kg     |             |
| M18 x 2 | 65           | 0,168  | 659 112 496 |
| M18 x 2 | 140          | 0,295  | 659 112 494 |

# 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       | Dimensions | Order no.   |
|------------|------------|-------------|
|            | mm         |             |
| Flange nut | M20 x 2    | 659 115 304 |

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



| Type       | Spare part<br>für | Dimensions | Order no.   |
|------------|-------------------|------------|-------------|
|            |                   | mm         |             |
| Flange nut | 78T08, 151-12     | M18 x 2    | 659 115 300 |

Washer



| Type   | Dimensions  | Order no.   |
|--------|-------------|-------------|
|        | mm          |             |
| Washer | 34 x 20 2.5 | 659 120 228 |

Spring clip



| Type        | Order no.   |
|-------------|-------------|
| Spring clip | 659 130 017 |

Protection cap for covering  
protruding nuts



| Type           | Order no.   |
|----------------|-------------|
| Protection cap | 659 001 006 |

# 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

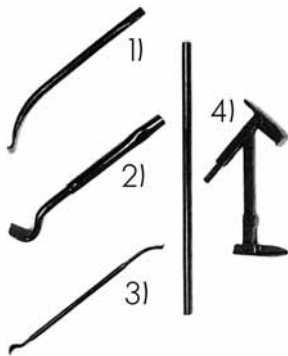


| Type            | Suitable for rim            | Order no.   |
|-----------------|-----------------------------|-------------|
| 120 MSF/20.5/C4 | UNILEX 10.00V - 650 311 235 | 659 142 029 |
| 120 MSF/20.5/C4 | UNILEX-T 8.50 - 650 311 231 | 659 142 029 |



# Tools

For mounting  
TRILEX® rims



| Item | Type                           | Weight | Order no.   |
|------|--------------------------------|--------|-------------|
|      |                                | kg     |             |
| 1    | Rim assembling lever           | 0,8    | 659 800 006 |
| 2    | Rim dismounting 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  
UNILEX-T rims



| Item | Type               | Weight | Order no.   |
|------|--------------------|--------|-------------|
|      |                    | kg     |             |
| 5    | Mounting lever (2) | 1,6    | 659 800 032 |

For mounting  
TUBLEX®-G and -N rims



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

For mounting  
TUBLEX®-E rims



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

For assembly  
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 tyres



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

# Reference lists for wheelspiders / adaptors

Find out whether spare parts are available using the article order no.

- S: Current series model, unlimited spare parts available
- ET: Former series model for which spare part availability has a 10-year guarantee
- AM: Spare part availability is not legally required, however, spare parts can be obtained as long as stocks last

If your product is not listed, please ask our sales department about availability.

## TRILEX® wheelspiders for single tyres

| Order no.   | Size | Note | Spare part  |
|-------------|------|------|-------------|
|             | inch |      |             |
| 604 101 415 | 20   | AM   |             |
| 604 101 421 | 20   | ET   |             |
| 604 101 423 | 20   | ET   |             |
| 604 103 161 | 20   | AM   |             |
| 604 103 173 | 20   | AM   |             |
| 604 103 225 | 20   | AM   |             |
| 604 105 241 | 24   | AM   |             |
| 604 105 263 | 20   | AM   |             |
| 604 105 345 | 20   | AM   |             |
| 604 105 459 | 24   | ET   |             |
| 604 105 485 | 20   | AM   |             |
| 604 105 489 | 20   | AM   |             |
| 604 105 491 | 20   | ET   |             |
| 604 105 499 | 20   | ET   |             |
| 604 105 503 | 20   | AM   |             |
| 604 105 507 | 20   | S    |             |
| 604 105 511 | 20   | S    |             |
| 604 105 521 | 20   | AM   |             |
| 604 105 523 | 20   | AM   |             |
| 604 105 525 | 20   | AM   |             |
| 604 107 367 | 20   | ET   | 604 107 411 |
| 604 107 373 | 20   | ET   |             |
| 604 107 377 | 24   | AM   | 604 107 433 |
| 604 107 401 | 20   | ET   |             |
| 604 107 403 | 20   | ET   |             |
| 604 107 405 | 20   | ET   |             |
| 604 107 409 | 24   | ET   |             |
| 604 107 411 | 20   | ET   |             |
| 604 107 445 | 20   | ET   |             |
| 604 108 269 | 20   | ET   |             |
| 604 108 281 | 20   | AM   |             |
| 604 108 301 | 20   | AM   |             |
| 604 108 303 | 20   | AM   |             |
| 604 108 307 | 20   | AM   |             |
| 604 110 489 | 20   | AM   |             |
| 604 110 547 | 20   | AM   |             |
| 604 110 557 | 20   | AM   |             |
| 604 110 627 | 20   | AM   |             |
| 604 110 683 | 20   | AM   |             |
| 604 110 687 | 20   | AM   |             |
| 604 110 705 | 20   | AM   |             |
| 604 110 709 | 20   | AM   |             |
| 604 110 717 | 20   | AM   |             |
| 604 110 721 | 20   | AM   |             |

| Order no.   | Size | Note | Spare part  |
|-------------|------|------|-------------|
|             | inch |      |             |
| 604 113 143 | 24   | AM   |             |
| 604 116 203 | 24   | AM   |             |
| 604 116 217 | 20   | ET   |             |
| 604 155 145 | 24   | ET   |             |
| 604 155 159 | 20   | AM   |             |
| 604 155 187 | 20   | ET   |             |
| 604 155 191 | 24   | AM   | 604 155 211 |
| 604 155 197 | 20   | ET   |             |
| 604 155 203 | 24   | S    |             |
| 604 155 205 | 20   | ET   | 604 155 209 |
| 604 155 207 | 20   | S    |             |
| 604 155 211 | 24   | AM   |             |
| 604 155 215 | 20   | S    |             |
| 604 155 217 | 20   | S    |             |
| 604 155 219 | 24   | S    |             |
| 604 156 115 | 20   | ET   |             |
| 604 165 161 | 24   | AM   |             |
| 604 165 179 | 20   | AM   |             |
| 604 165 181 | 20   | AM   |             |
| 604 165 183 | 20   | AM   |             |
| 604 165 185 | 24   | AM   |             |
| 604 174 141 | 20   | ET   |             |
| 604 174 157 | 20   | ET   |             |
| 604 174 171 | 20   | AM   |             |
| 604 174 175 | 20   | AM   |             |
| 604 194 125 | 20   | AM   |             |
| 604 194 129 | 20   | AM   |             |
| 604 194 147 | 20   | AM   |             |
| 604 194 167 | 20   | AM   |             |
| 604 194 179 | 20   | AM   |             |
| 604 194 185 | 20   | AM   |             |
| 604 194 187 | 20   | AM   |             |
| 604 202 201 | 20   | S    |             |
| 604 202 207 | 20   | AM   |             |
| 604 202 211 | 20   | ET   |             |
| 604 202 213 | 20   | ET   |             |
| 604 202 223 | 20   | S    |             |
| 604 202 243 | 20   | AM   |             |
| 604 202 249 | 20   | AM   | 604 202 223 |
| 604 202 269 | 15   | ET   |             |
| 604 209 171 | 20   | ET   |             |
| 604 209 181 | 20   | ET   |             |
| 604 233 517 | 20   | ET   |             |
| 604 243 007 | 20   | ET   |             |

## TRILEX® wheelspiders for twin tyres

| Order no.   | Size | Note | Spare part  |
|-------------|------|------|-------------|
|             | inch |      |             |
| 604 105 330 | 20   | AM   |             |
| 604 105 350 | 24   | AM   |             |
| 604 105 366 | 20   | AM   |             |
| 604 105 434 | 20   | AM   |             |
| 604 105 448 | 20   | AM   |             |
| 604 105 458 | 20   | AM   |             |
| 604 105 476 | 24   | AM   |             |
| 604 105 496 | 20   | ET   |             |
| 604 105 498 | 20   | ET   | 604 105 522 |
| 604 105 500 | 20   | AM   |             |
| 604 105 540 | 20   | S    |             |
| 604 107 410 | 20   | AM   | 604 107 416 |
| 604 107 416 | 20   | AM   |             |
| 604 107 434 | 20   | S    |             |
| 604 108 312 | 20   | AM   |             |
| 604 110 616 | 20   | S    | 604 110 684 |
| 604 110 618 | 24   | ET   |             |
| 604 110 620 | 15   | AM   |             |
| 604 110 682 | 24   | S    |             |
| 604 110 686 | 24   | S    |             |
| 604 110 702 | 20   | S    |             |
| 604 110 704 | 24   | S    |             |
| 604 155 222 | 24   | ET   |             |
| 604 155 236 | 20   | ET   |             |
| 604 155 238 | 20   | ET   |             |
| 604 155 250 | 20   | ET   |             |
| 604 165 182 | 24   | AM   |             |

| Order no.   | Size | Note | Spare part  |
|-------------|------|------|-------------|
|             | inch |      |             |
| 604 165 214 | 20   | AM   |             |
| 604 165 220 | 20   | AM   |             |
| 604 165 224 | 20   | AM   |             |
| 604 174 162 | 20   | ET   |             |
| 604 202 134 | 20   | S    |             |
| 604 202 136 | 24   | ET   |             |
| 604 202 158 | 24   | ET   |             |
| 604 202 194 | 20   | S    |             |
| 604 202 198 | 24   | S    |             |
| 604 202 222 | 24   | S    |             |
| 604 202 224 | 24   | S    |             |
| 604 202 234 | 15   | S    |             |
| 604 202 254 | 20   | S    |             |
| 604 202 260 | 20   | S    |             |
| 604 202 268 | 24   | S    |             |
| 604 202 270 | 20   | S    |             |
| 604 202 296 | 24   | S    |             |
| 604 202 304 | 24   | S    |             |
| 604 209 178 | 20   | ET   | 604 209 188 |
| 604 209 186 | 20   | ET   |             |
| 604 233 020 | 24   | S    |             |
| 604 233 066 | 24   | S    |             |
| 604 233 068 | 24   | S    |             |
| 604 233 508 | 20   | S    |             |
| 604 233 512 | 15   | ET   |             |
| 604 233 536 | 20   | AM   |             |
| 604 243 016 | 20   | ET   |             |

## TRILEX® wheel adaptors for single tyres

| Order no.   | Size | Note |
|-------------|------|------|
|             | inch |      |
| 604 260 023 | 24   | S    |
| 604 260 181 | 24   | S    |
| 604 260 191 | 20   | S    |
| 604 260 193 | 20   | S    |
| 604 260 195 | 20   | S    |
| 604 260 197 | 24   | S    |
| 604 260 199 | 20   | S    |
| 604 260 203 | 24   | ET   |
| 604 260 205 | 24   | S    |

| Order no.   | Size | Note |
|-------------|------|------|
|             | inch |      |
| 604 260 249 | 20   | ET   |
| 604 260 267 | 20   | ET   |
| 604 260 269 | 24   | S    |
| 604 260 277 | 24   | ET   |
| 604 260 313 | 20   | AM   |
| 604 260 315 | 20   | S    |
| 604 260 325 | 20   | S    |
| 604 260 333 | 24   | S    |
| 604 260 351 | 20   | S    |

## TRILEX® wheelspiders for twin tyres

| Order no.   | Size | Note |
|-------------|------|------|
|             | inch |      |
| 604 260 054 | 24   | S    |
| 604 260 076 | 20   | ET   |
| 604 260 078 | 20   | ET   |
| 604 260 154 | 20   | S    |
| 604 260 160 | 20   | S    |
| 604 260 174 | 24   | S    |
| 604 260 188 | 20   | S    |
| 604 260 212 | 20   | S    |
| 604 260 228 | 20   | ET   |
| 604 260 232 | 24   | S    |
| 604 260 234 | 20   | S    |

| Order no.   | Size | Note |
|-------------|------|------|
|             | inch |      |
| 604 260 236 | 20   | S    |
| 604 260 240 | 24   | S    |
| 604 260 250 | 24   | ET   |
| 604 260 280 | 24   | S    |
| 604 260 282 | 24   | S    |
| 604 260 292 | 24   | ET   |
| 604 260 296 | 20   | AM   |
| 604 260 304 | 20   | ET   |
| 604 260 314 | 20   | ET   |
| 604 260 316 | 20   | ET   |
| 604 260 340 | 20   | S    |

## Note

# General Conditions

## 1 General

1.1 These General Conditions shall apply to all, including future, business between Purchaser and Georg Fischer Verkehrstechnik GmbH, D-78224 Singen (hereinafter referred to as „Georg Fischer“).

1.2 Changes and amendments to these Conditions shall be valid only if made in writing.

1.3 The written form shall include all methods of communication in the form of text (such as Fax, E-Mail, EDI, etc.). This paragraph may be modified or waived only by a separate agreement between the Parties in the form of text.

1.4 No other conditions shall be valid even if not expressly rejected. Performance of the contract by Georg Fischer does not constitute acceptance of such conditions.

## 2 Offers, Acceptance of Contract

Quotations shall constitute binding offers only if they state a fixed time for acceptance.

## 3 Scope of Delivery, Dimensions, Weights, Technical Specifications

3.1 Georg Fischer's order confirmation shall govern the scope and execution of its deliveries.

3.2 Dimensional deviations within trade practice as well as deviations in weight of +/- 10% necessitated by the restraints of foundry practice are permitted.

## 4 Data and Documents

4.1 Technical specifications given by Georg Fischer are to be considered as approximate figures customary in the trade and not as expressly warranted characteristics, unless expressly designated as such.

4.2 Georg Fischer reserves all industrial property rights in the technical documents supplied. They may be used solely for the agreed purposes or for the purposes designated by Georg Fischer, and by third parties solely on previous written approval/agreement from Georg Fischer.

4.3 With reference to the German „Bundesdatenschutzgesetz“ Georg Fischer hereby explicitly informs Purchaser that personal or other data exchanged in the commercial dealing with Purchaser will be recorded.

## 5 Price, Terms of Payment, Retention of Title

5.1 Georg Fischer's prices shall be quoted ex works (as defined in the Incoterms issued by the International Chamber of Commerce at the date of order), excluding packaging, freight, insurance and VAT.

5.2 Georg Fischer shall retain title to the Goods delivered until Purchaser has settled all claims which Georg Fischer may have against him. Should the Purchaser sell Goods to which title is reserved he shall then be deemed to have implicitly assigned to Georg Fischer the proceeds deriving from their sale together with all collateral rights, securities and reservations of title until all claims held by Georg Fischer shall have been settled. To the extent the value of the goods

to which title is reserved together with collateral securities should exceed Georg Fischer claims against the Purchaser by more than 20 (twenty) %, Georg Fischer shall reassign the exceeding proceeds to the Purchaser at his request. In case of default on the part of the Purchaser, in particular in case of arrears, Georg Fischer shall be entitled to repossession of the Goods after having given notice to this effect, and the Purchaser shall be obligated to surrender the Goods.

## 6 Confidentiality

6.1 Neither Party shall disclose nor make use of any commercial or technical information received from the other Party in the course of business, to the extent said information is not in the public domain. In particular, such information shall be neither recorded nor utilized in any manner.

6.2 The aforementioned obligations shall expire 36 months following the expiry of the business relationship between the Parties. In addition, they shall not apply to the extent information or data is required to be disclosed by order of a public authority or of a court of competent jurisdiction or in connection with the defence in any suit brought against the disclosing Party.

## 7 Delayed Delivery

Delivery shall be effected on the date stipulated in the confirmation. Acts of God, industrial strikes, unrest, administrative measures, and other unpredictable, inevitable and severe occurrences beyond the control of Georg Fischer, shall relieve Georg Fischer of its liability for the duration of the disturbance and to the extent of its impact. This shall also apply to similar circumstances occurring at suppliers'. The circumstances previously described are similarly beyond the control of Georg Fischer, if occurring during an already existing delay in delivery.

## 8 Notification of Defects

8.1 Defects in the Goods discovered by Purchaser in the ordinary course of its business shall immediately be notified to Georg Fischer in writing. To this extent Georg Fischer hereby waives its right of estoppel in case of late notification.

8.2 Reservation is being made for Purchaser's obligation to inspect incoming Goods with regard to identity, quantity and patent transport defects by taking random samples.

## 9 Warranty

9.1 Georg Fischer warrants the compliance of the Goods with the agreed technical specification, said warranty being exclusive and in lieu of any implied or statutory warranty.

In case Georg Fischer is to manufacture the Goods according to drawings, specifications, samples, etc. of Purchaser, Purchaser shall bear the risk that the Goods are fit for the intended purpose.

9.2 Georg Fischer shall not be liable for defects caused by misuse, faulty assembly or commissioning by Purchaser or third parties, normal wear and tear, faulty treatment nor for

defects caused by improper modifications by Purchaser or third parties.

9.3 At Georg Fischer's request and cost, Purchaser shall return all parts to be replaced.

#### **10 General Limitation of Liability**

10.1 The warranties set forth in these General Conditions of Sale are expressly in lieu of any express warranty of any kind and in lieu of any implied warranty, including any warranty of merchantability or fitness of the Goods for a particular purpose. Georg Fischer shall not be liable for any loss or damage, directly or indirectly, arising from the use of the Goods sold to Purchaser, for any incidental, special or consequential damages, such as loss of profits, loss of production, loss of use or loss of contract, arising for any reason, including damages resulting from defective design, materials or workmanship or from faulty instructions, irrespective of whether such damages are claimed to arise from breach of contract, in tort, the theory of product liability or otherwise.

10.2 The foregoing limitation of liability does not apply in case of Georg Fischer's statutory liability based on wilful misconduct, gross negligence or products liability acts.

10.3 To the extent Georg Fischer's liability is excluded or limited, such exclusion or limitation shall equally extend to the personal liability of its directors, officers, employees and agents.

10.4 If Purchaser, based on the theory of strict liability, is held liable for personal injury or damage to private property, Georg Fischer will indemnify and hold harmless Purchaser to the extent it would be directly liable itself.

10.5 Georg Fischer's duty of indemnification shall be excluded to the extent Purchaser has validly excluded its liability towards its clients. As far as permitted by law, Purchaser shall exert his best efforts to enter into limitation of liability agreements also for the benefit of Georg Fischer.

#### **11 Statute of Limitations of Liability and Warranty Claims**

Subject to longer time periods provided by mandatory statutory law, liability and warranty claims of Purchaser shall be time-barred after 2 years following the receipt of the Goods by Purchaser.

#### **12 Recalls**

Georg Fischer's liability for costs incurred by Purchaser in connection with recall campaigns, shall be limited to the scope of coverage of Georg Fischer's insurance policy and to a maximum of 1 Mio. Euro per occurrence or series of occurrences based on the same defect, unless the Parties, in a particular case, have agreed otherwise.

#### **13 Miscellaneous**

13.1 Each Party shall be entitled to the premature termination of the unfulfilled portion of the contract if the other Party fails to pay its bills as they become due, or in case insolvency, receivership or similar proceedings have been instituted against the other Party.

13.2 If any part or these General Conditions of Sale or of an agreement between the Parties is or becomes invalid, such determination shall not affect the validity of the remaining provisions of these conditions or of an agreement between the Parties and to this extent the provisions of these Conditions and of any agreement between the Parties are declared to be severable. The Parties shall exert their best efforts to replace the invalid provision by a legally enforceable provision coming closest to the original intention of the Parties.

#### **14 Choice of Law, Venue, Place of Performance**

14.1 The contract between Georg Fischer and Purchaser shall be governed in all respects by the laws of Germany without regard to any conflicts of laws provisions.

14.2 Place of performance of the contract shall be Singen, Germany.

14.3 Exclusive place of jurisdiction shall be Singen.

Valid as of 1st September 2006

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AUTOMOTIVE

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