

UK

# HE-VA

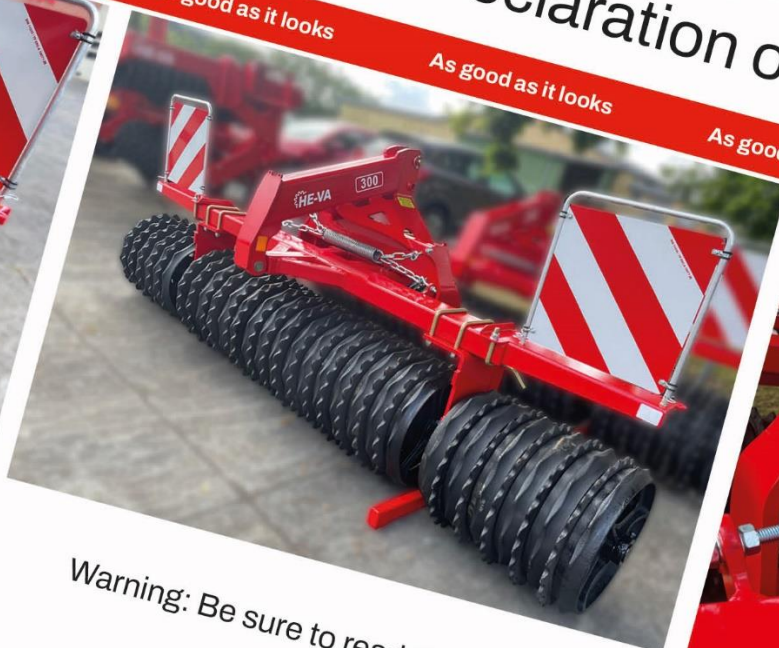
Operating Instructions  
Spare Parts List  
Declaration of Conformity

As good as it looks



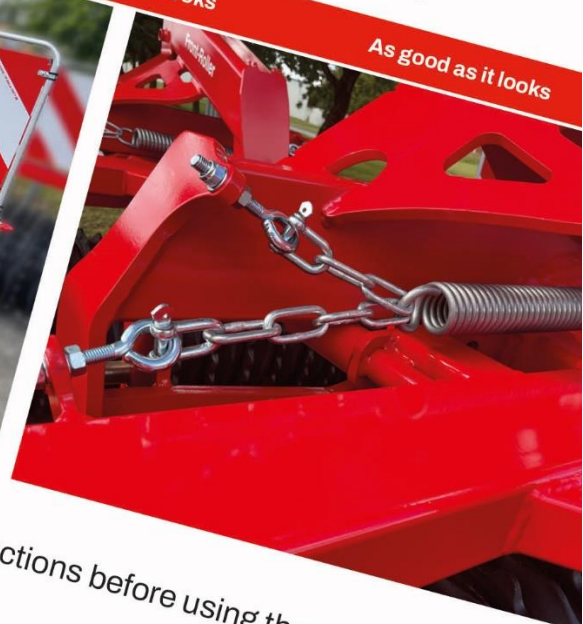
As good as it looks

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Warning: Be sure to read the operation instructions before using the machine.

## Front-Roller Compact

1.50 m / 2.60 m / 3.00 m / 3.50 m (rigid)



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[www.he-va.com](http://www.he-va.com)

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**EC DECLARATION OF CONFORMITY**

in accordance with the EU Machinery Directive 2006/42/EC  
applicable as from December 29<sup>th</sup> 2009:

HE-VA ApS  
N. A. Christensensvej 34,  
DK-7900 Nykøbing Mors

hereby confirms that the following machine has been manufactured in accordance with the Council  
Directive 2006/42/EC.

The declaration comprises the following machine:

HE-VA Front-Roller Compact 1.5 / 2.6 / 3.0 / 3,5 (rigid)

Nykøbing the 05. Dec. 2025

A handwritten signature in black ink, appearing to read 'Villy Christiansen', is written over a horizontal line. Below the line, the name 'Villy Christiansen' is printed in a standard black font.

Villy Christiansen

The undersigned is furthermore authorised to compile technical documentation for the above  
machine.

## Delivery Check

Upon delivery to the dealer/supplier as well as to the customer, check the Front-Roller Compact for possible damages.

## Machine Description

### Range of Application

The Front-Roller Compact is a front-mounted roller for land packing in connection with preparation of the seedbed and seeding with combi-harrow, rotor-harrow, tine rotary cultivator etc. The Front-Roller Compact may be applied on all types of soil, however, is suitable for light and medium-heavy soil types.

The Front-Roller Compact is mounted in the front-lift of the tractor. If the Front-Lift is equipped with double-acting hydraulics, it is possible to transfer weight from the tractor onto the Front-Roller Compact. In order to achieve optimum control in connection with the transfer of the weight from the tractor to the roller, the Front-Lift should be equipped with spring suspension in order to achieve a flexible connection between the tractor and the roller. Furthermore, the tractor should be with four-wheel drive.

As extra equipment, the Front-Roller Compact may be equipped with Front-Harrow and/or Spring-Board as well as carriers for additional weights.

| <b>Technical specifications</b>          | <b>1,5 m</b>    | <b>2,6 m</b> | <b>3,0 m</b> | <b>3,5 m</b> |
|------------------------------------------|-----------------|--------------|--------------|--------------|
| Working width                            | 1,50m           | 2,60m        | 3,00m        | 3,50m        |
| Total width                              | 1,73m           | 2,66m        | 3,08m        | 3,55m        |
| Transport width                          | 1,73m           | 2,66m        | 3,08m        | 3,55m        |
| Length                                   | 830mm           | 830mm        | 830mm        | 830mm        |
| <b>Weight without extra equipment:</b>   | <b>1,5 m</b>    | <b>2,6 m</b> | <b>3,0 m</b> | <b>3,5 m</b> |
| Cambridge-rings w. 3 spokes, Ø51cm/21"   | 670kg           | 885kg        | 990kg        | 1095kg       |
| Cambridge-rings w. 8 spokes, Ø51cm/21"   | 835kg           | 1140kg       | 1290kg       | 1370kg       |
| Cambridge-rings w. 9 spokes, Ø56cm/22,5" | 880kg           | 1210kg       | 1370kg       | 1530kg       |
| Cambridge-rings w. 10 spokes, Ø62cm/24"  | 975kg           | 1260kg       | 1545kg       | 1730kg       |
| Star rings, Ø45/Ø50cm                    | 715kg           | 955kg        | 1090kg       | 1215kg       |
| Star rings, Ø55/Ø60cm                    | 860kg           | 1175kg       | 1350kg       | 1525kg       |
| Crosskill-rings, Ø48,5/53cm              | 715kg           | 990kg        | 1040kg       | 1250kg       |
| Crosskill-rings, Ø55/60cm                | 900kg           | 1175kg       | 1335kg       | 1490kg       |
| V-profile rings 60cm                     | 600kg           | 890kg        | 965kg        | 1130kg       |
| Additional weight – double frame         | 42kg            | 42kg         | 42kg         | 42kg         |
| Maximum weight transfer from the tractor | 800kg           |              |              |              |
| Noise level                              | Under 70 dB (A) |              |              |              |

The Front-Roller Compact complies with DS/ISO 8759/2, Front – Three-Point suspension (cat. II). Distance between the lift arms (balls) is 870 mm

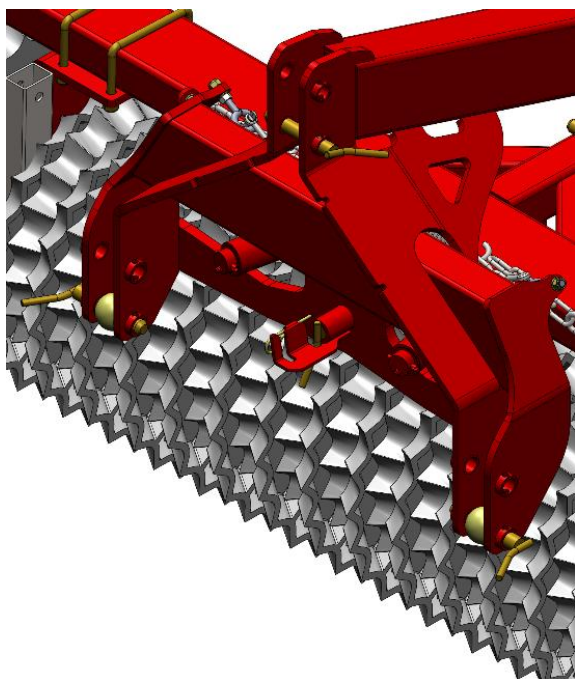
| Extra equipment                  | 1,5 m                                              | 2,6 m | 3,0 m | 3,5 m |
|----------------------------------|----------------------------------------------------|-------|-------|-------|
| Additional weight – Front-Harrow | -                                                  | 211kg | 232kg | 252kg |
| Additional weight – Spring-Board | -                                                  | 240kg | 269kg | 297kg |
| Oil outlet - Spring-Board        | 1 double-acting outlet at the front of the tractor |       |       |       |

## Operating Instructions

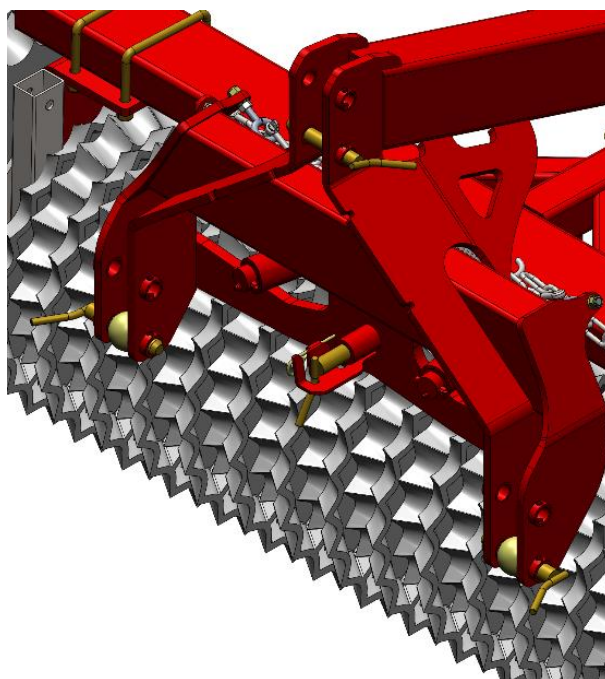
### Start-up

#### **Front-Roller Compact**

During transport, the Front-Roller Compact's frame is locked in relation to the machine's drawbar. Before starting work, the pin must be moved from the transport position to the working position. This is done by removing the hairpin cotter, moving the pin from one notch to the other, and reinserting the hairpin cotter.



Front-Roller Compact in transport position.



Front-Roller Compact in working position.

- When the pin is in the working position, the roller is self-steering and therefore follows the tractor.
- In working position, the roller must be horizontal in the direction of driving.
- In sharp turns, e.g. in connection with turning at the ends and reversing, the Front-Roller Compact must be lifted.
- When the roller is mounted in a HE-VA Front-Lift with spring suspension, the following applies.

When transferring weight from the tractor onto the roller, you will get the best combination of packing and control when the Front-Lift manometer shows 35 – 60 bar (depending on the weight of the tractor)

### **Front-Harrow**

Before adjusting the working depth, make sure that the roller runs horizontally. The two spindles must be synchronised, i.e. one spindle may as a maximum be turned 5 turns before the other spindle is turned the corresponding number of turns in the same direction. For each turn of the handle, the front harrow is lifted/lowered 5 mm.

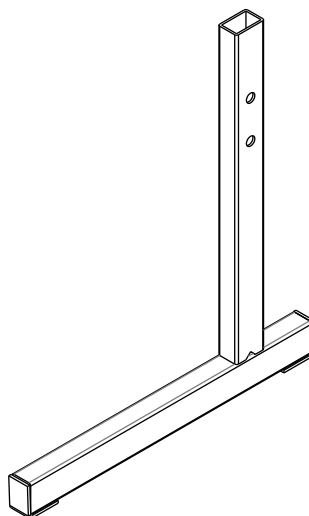
### **Spring-Board**

The Spring-board requires a double-acting oil outlet at the tractor. The tine angle is hydraulically controlled from the driver's cab, and the depth control is made manually. The tines work independent of each other, however, they may be connected by means of a transverse locking system (extra equipment), if a greater levelling effect is required. The change-over is made easily and quickly without any tools.

### **Uncoupling and coupling**

The Front-Roller Compact is equipped with supporting legs which must be lowered when the machine is uncoupled. Before uncoupling, a possible mounted Spring-Board must be lifted, and the hydraulic system is to be de-pressurized. Furthermore, the Front-Harrow must be lifted so that the weight of the Front-Roller Compact does not rest on the tine of the harrow but on the supporting legs.

Front-Roller 1,5m - 4,0m



## Lubrication

### Front-Roller Compact

During lubrication, maintenance, and repair, the tractor must be braked and the engine stopped. The Front-Roller Compact must be lowered or securely supported so that it cannot fall in the event of a failure in the Front-Lift or the tractor's hydraulic system.

There are 4 lubrication points on 1.5–3.5 m (fixed models). They should be lubricated approximately every 10 operating hours and after cleaning to expel any water and dirt. The lubrication points are located at the ball bearing, support roller, and cylinder.

Note!

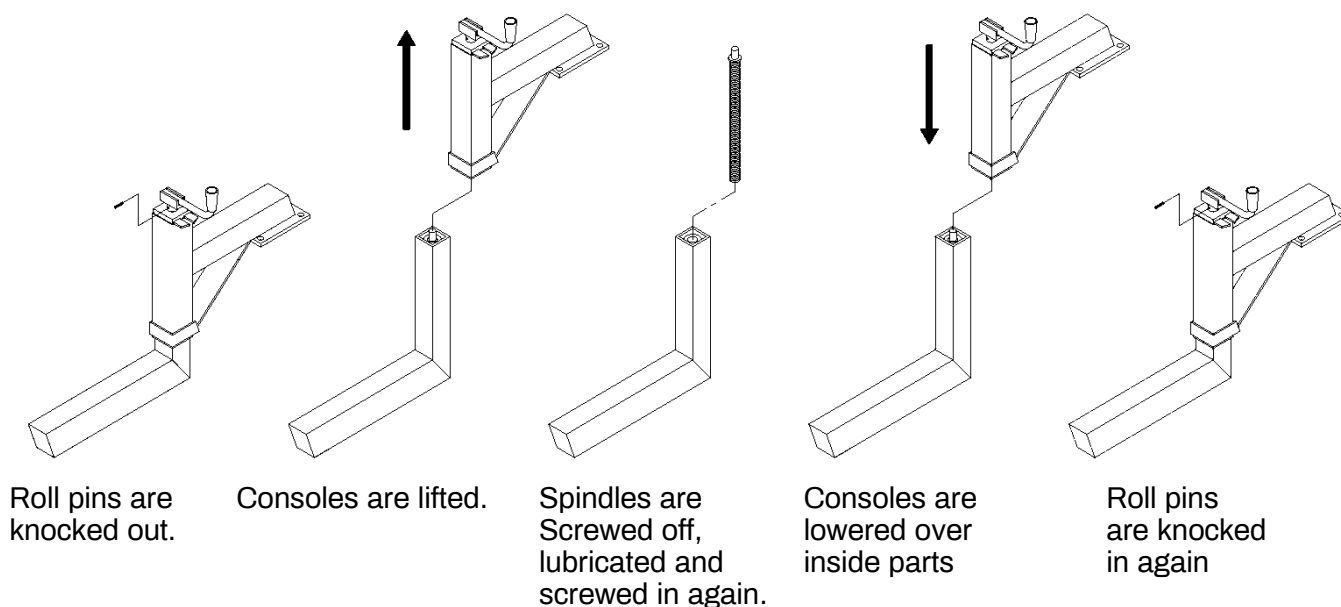
However, the double-sealed ball bearings should only be lubricated every 20 working hours and by 1-2 strokes so that the sealing rings are not pressed out.

### Front-Harrow

The Front-Harrow's spindles are not equipped with lubricating nipples. Once a year, e.g. when the season is over and the machine is stored for the winter, the spindles should be dismantled and lubricated with ball bearing grease.

Note!

Before dismantling the Front-Harrow, the harrow points should rest on the support, otherwise the harrow will fall down when the roll pins are knocked out.



## Markings on the machine

Several markings are located at your machine, which contains **safety regulations** and other instructions to inform about correct operating. Please read these instructions carefully, and make the driver aware about the markings and **safety regulations** in this Operating Instructions. Keep the markings clean and readable. If they are not, they must be replaced.

### Safety – and other markings on the machine



Study the Operating Instructions thoroughly before any operation of the machine and observe all safety instructions.  
Item number: 1305028



Plate with number and year of manufacture.



Tighten up the bolts regularly. If this is not performed, our warranty obligations will no longer apply.  
Item number: 1305030

| Maximum torque according to ISO-1 in Nm. <b>W/lubricated thread</b> |             |              |              |
|---------------------------------------------------------------------|-------------|--------------|--------------|
| Metric thread                                                       | Quality 8.8 | Quality 10.9 | Quality 12.9 |
| M10x1,5                                                             | 47          | 65           | 79           |
| M12x1,75                                                            | 81          | 114          | 136          |
| M14x2,0                                                             | 128         | 181          | 217          |
| M16x2,0                                                             | 197         | 277          | 333          |
| M18x2,5                                                             | 275         | 386          | 463          |
| M20x2,5                                                             | 385         | 541          | 649          |
| M22x2,5                                                             | 518         | 728          | 874          |
| M24x3,0                                                             | 665         | 935          | 1120         |
| Tirebolt M18x1,5 fine thread                                        | 385 Nm      |              |              |
| Tirebolt M22x1,5 fine thread                                        | 550 Nm      |              |              |

## **Maintenance**

### **The entire machine**

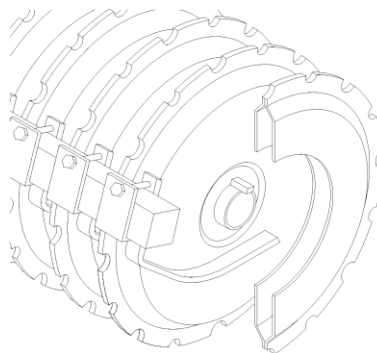
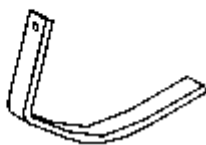
- After the first 10 hours of operation, tighten up all bolts.
- Further check on a regular basis that all bolts are tightened.
- Before the winter storage, wash and lubricate the machine. If you use high-pressure cleaner, do not spray directly on the ball bearings. After the washing, you may spray the machine with oil.
- Check regularly that all rings are whole and that there are no stones jammed in the rings.

### **Front-Harrow/Spring-Board**

Turn/replace the points before the harrow tines show signs of wear.

### **Scrapers**

The Front-Roller Compact with V-profile rings has special designed scrapers among the packer rings. To avoid unnecessary wear and to obtain the best scraper effect it is important to check the centering of the scrapers every day.

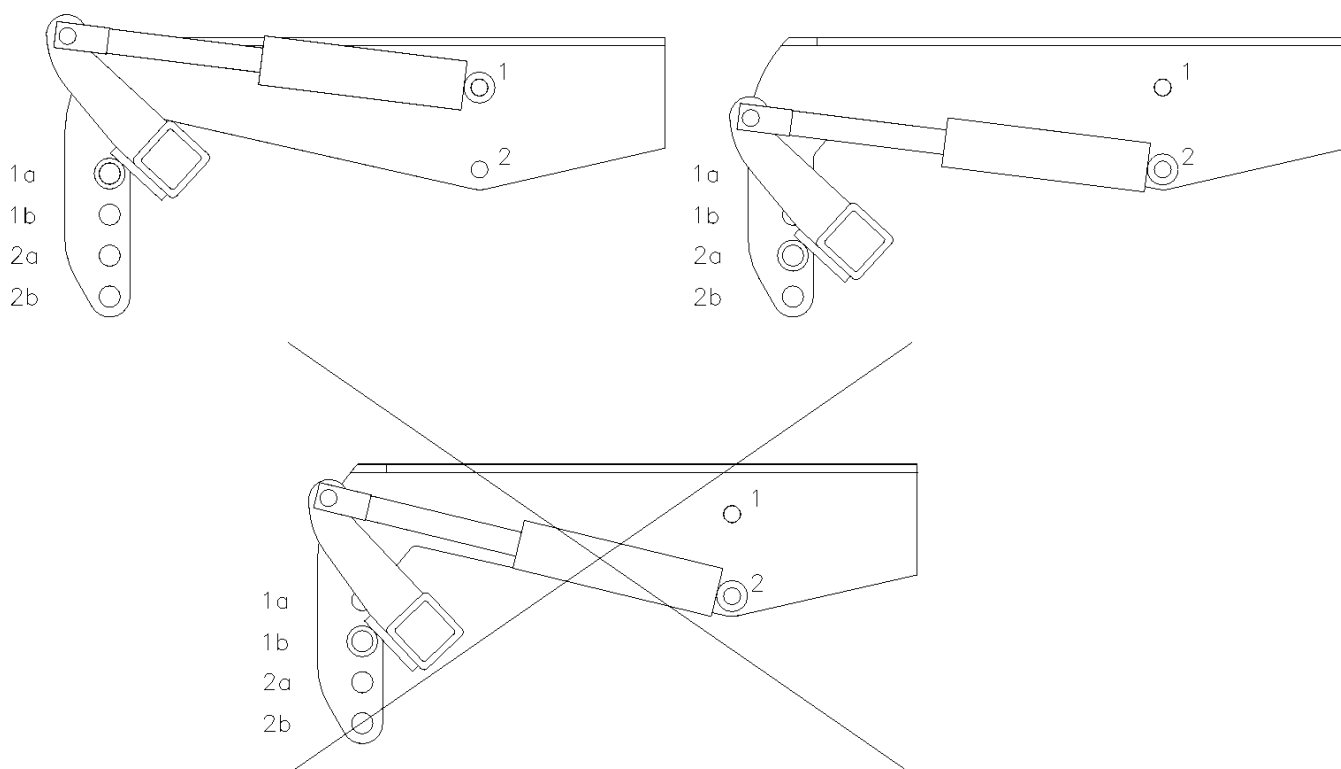


## **Spring-Board**

### **Mounting of cylinder on Spring-Board**

The hydraulic cylinders are mounted as shown in the below figure. It is important to have them correctly mounted in order to get the correct moment on the cylinders.

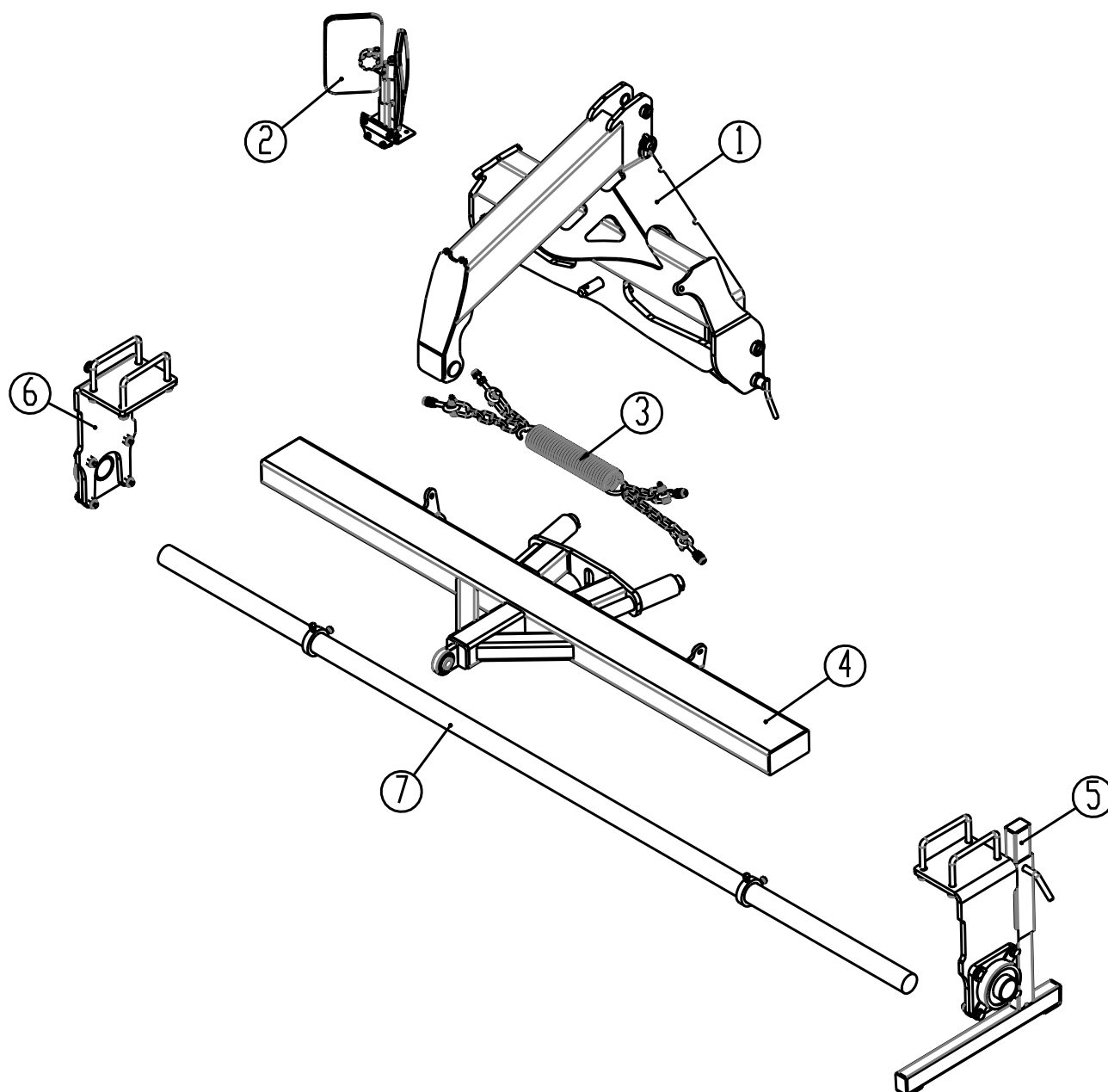
The ring type determines whether the cylinders must be mounted in hole 1 or hole 2. If the machine is equipped with 450 or 550 mm rings, the cylinders must be fitted in hole 1 and hole 1a or 1b. If the machine is equipped with 620 mm rings, the cylinders must be fitted in hole 2 and hole 2a or 2b..



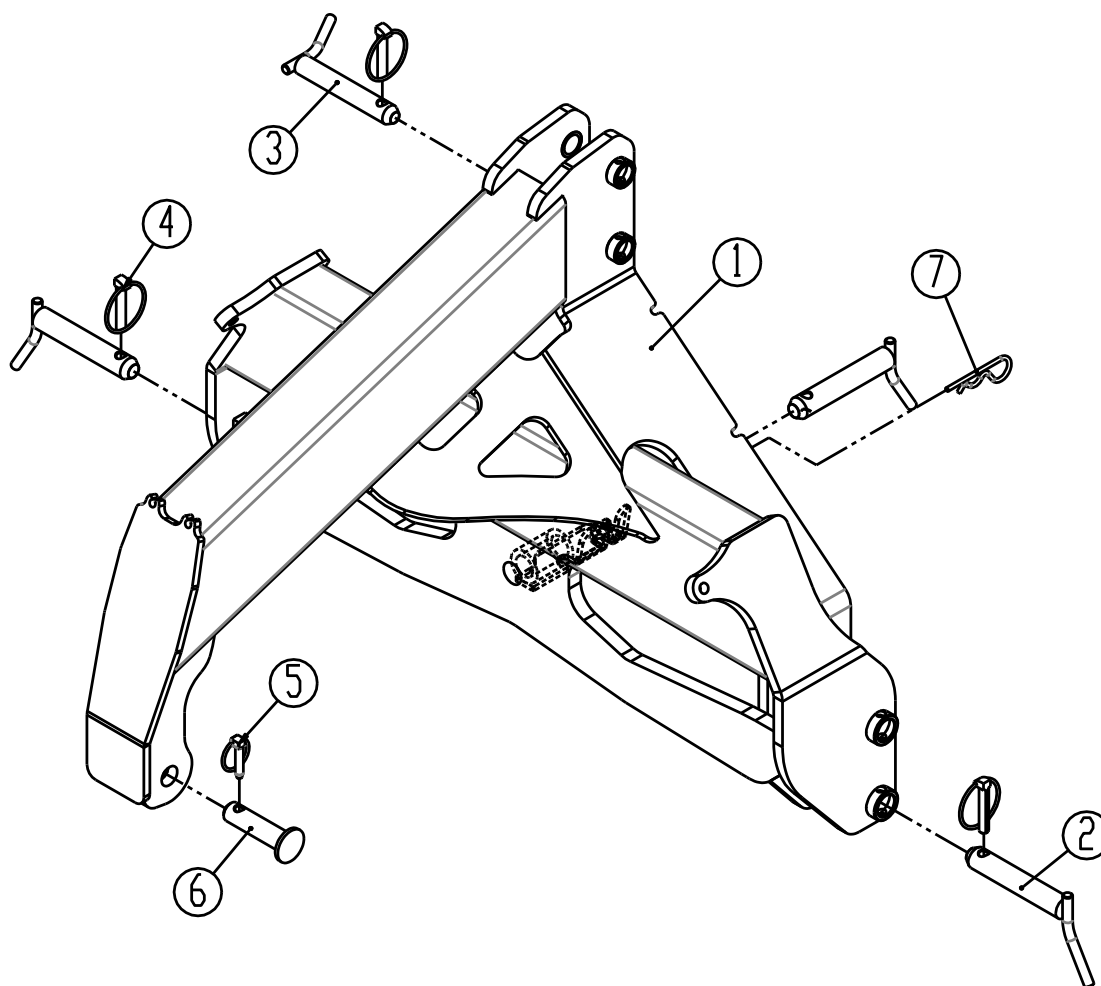
### **Retromounting of Front-Harrow and Spring-Board**

Both the Front-Harrow and the Spring-Board can be mounted directly on the frame. If the Front-Roller Compact is to be mounted with both a Front-Harrow and Spring-Board, a double frame is necessary. Spring-Board is to be mounted on the front bar and the Front-Harrow on the rear bar.

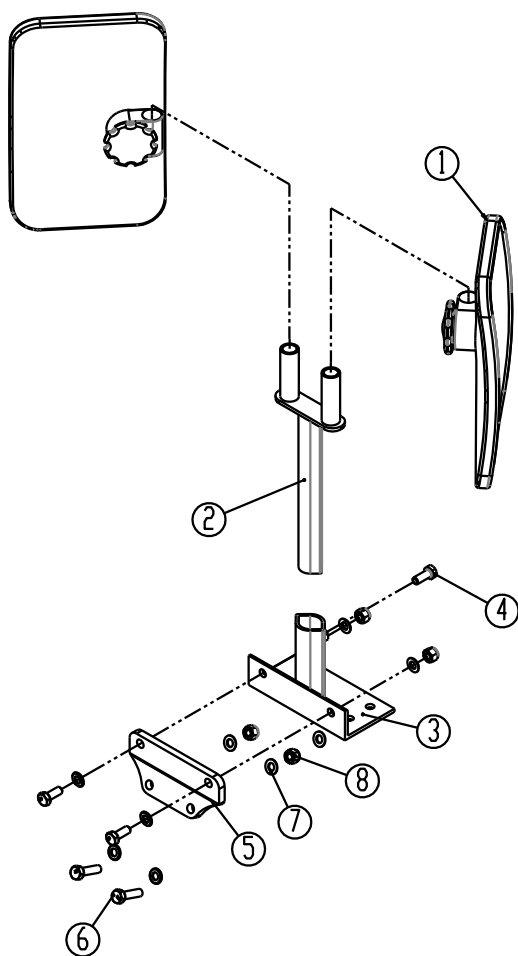
## Spare Parts List



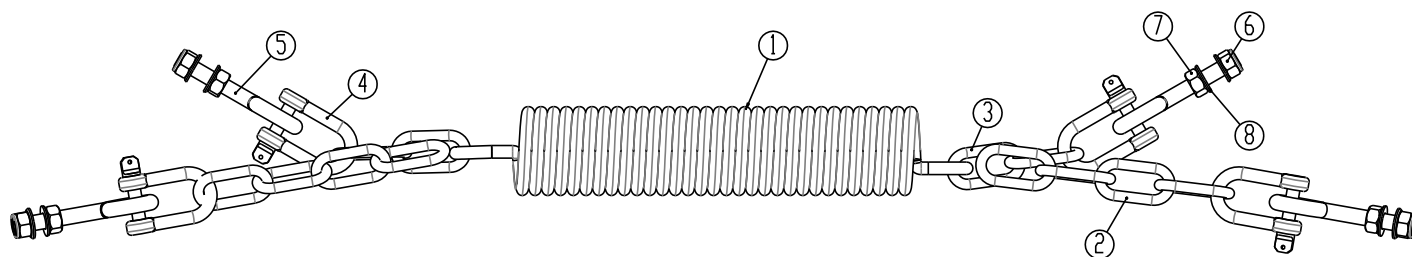
| Pos. | Item no.  | Designation                        | 1,5 | 2,6 | 3,0 | 3,5 |
|------|-----------|------------------------------------|-----|-----|-----|-----|
| 1    | 1270257   | Top frame                          | 1   | 1   | 1   | 1   |
| 2    | 1270747   | Front-view mirror                  | 1   | 1   | 1   | 1   |
| 3    | 1270749   | Stabilizing device                 | 1   | 1   | 1   | 1   |
| 4    | 1270266   | Frame                              | 1   | 1   | 1   | 1   |
| 5    | 630401202 | Bearing block w/supporting bracket | 1   | 1   | 1   | 1   |
| 6    | 630401201 | Bearing block                      | 1   | 1   | 1   | 1   |
| 7    | Page 18   | Axle                               | 1   | 1   | 1   | 1   |

**Top frame**

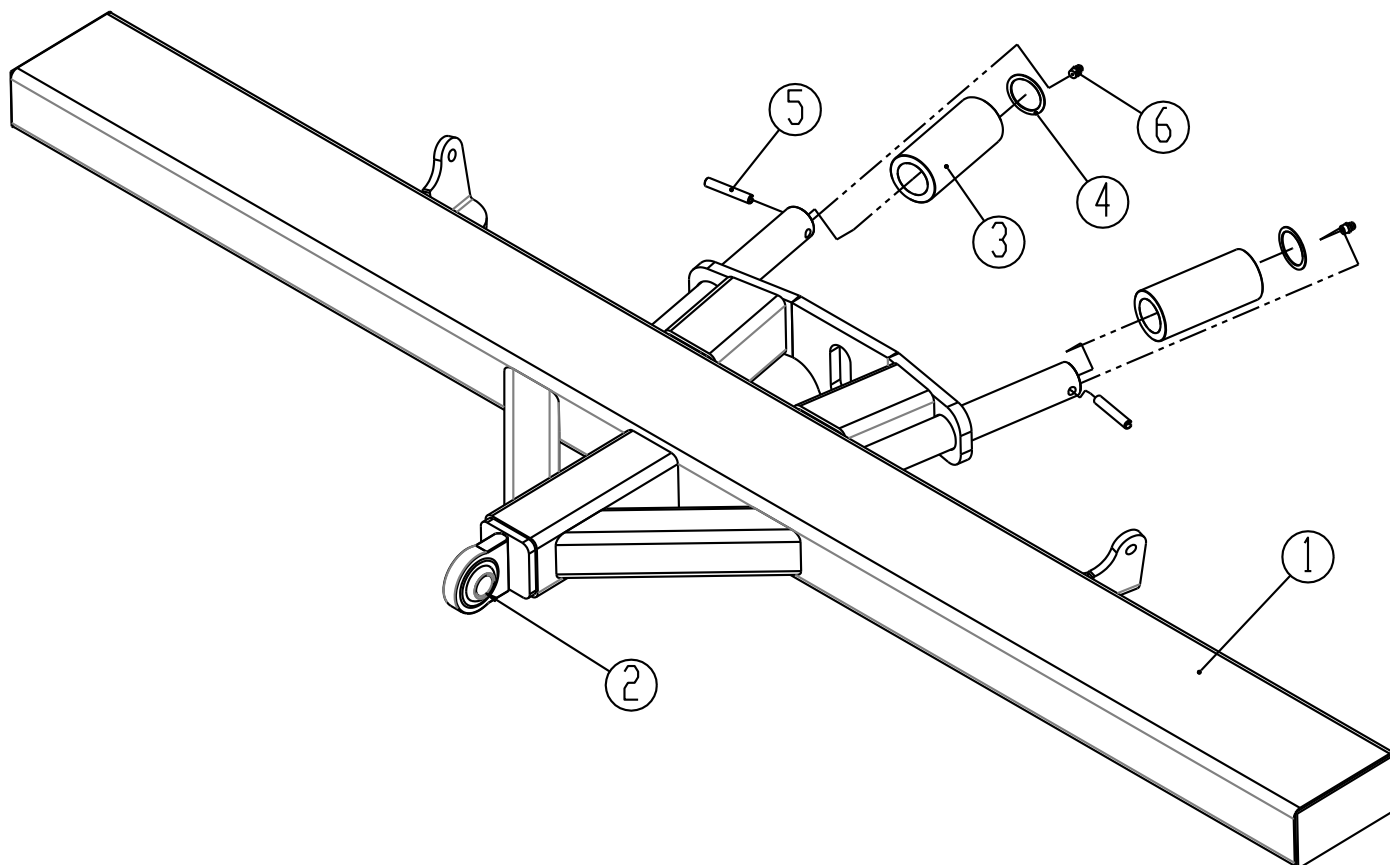
| Pos. | Item no.  | Designation              | 1,5 | 2,6 | 3,0 | 3,5 |
|------|-----------|--------------------------|-----|-----|-----|-----|
| 1    | 1270257   | Top frame                | 1   | 1   | 1   | 1   |
| 2    | 69528129B | Pin Ø28                  | 3   | 3   | 3   | 3   |
| 3    | 69525129B | Pin Ø25                  | 1   | 1   | 1   | 1   |
| 4    | 690134008 | Ring pin Ø11,5, Ø60 ring | 3   | 3   | 3   | 3   |
| 5    | 690134004 | Ring pin Ø10             | 1   | 1   | 1   | 1   |
| 6    | 69525077J | Pin Ø25 L=77 mm          | 1   | 1   | 1   | 1   |
| 7    | 0377600   | Hairpin Ø6               | 1   | 1   | 1   | 1   |

**Front view mirror**

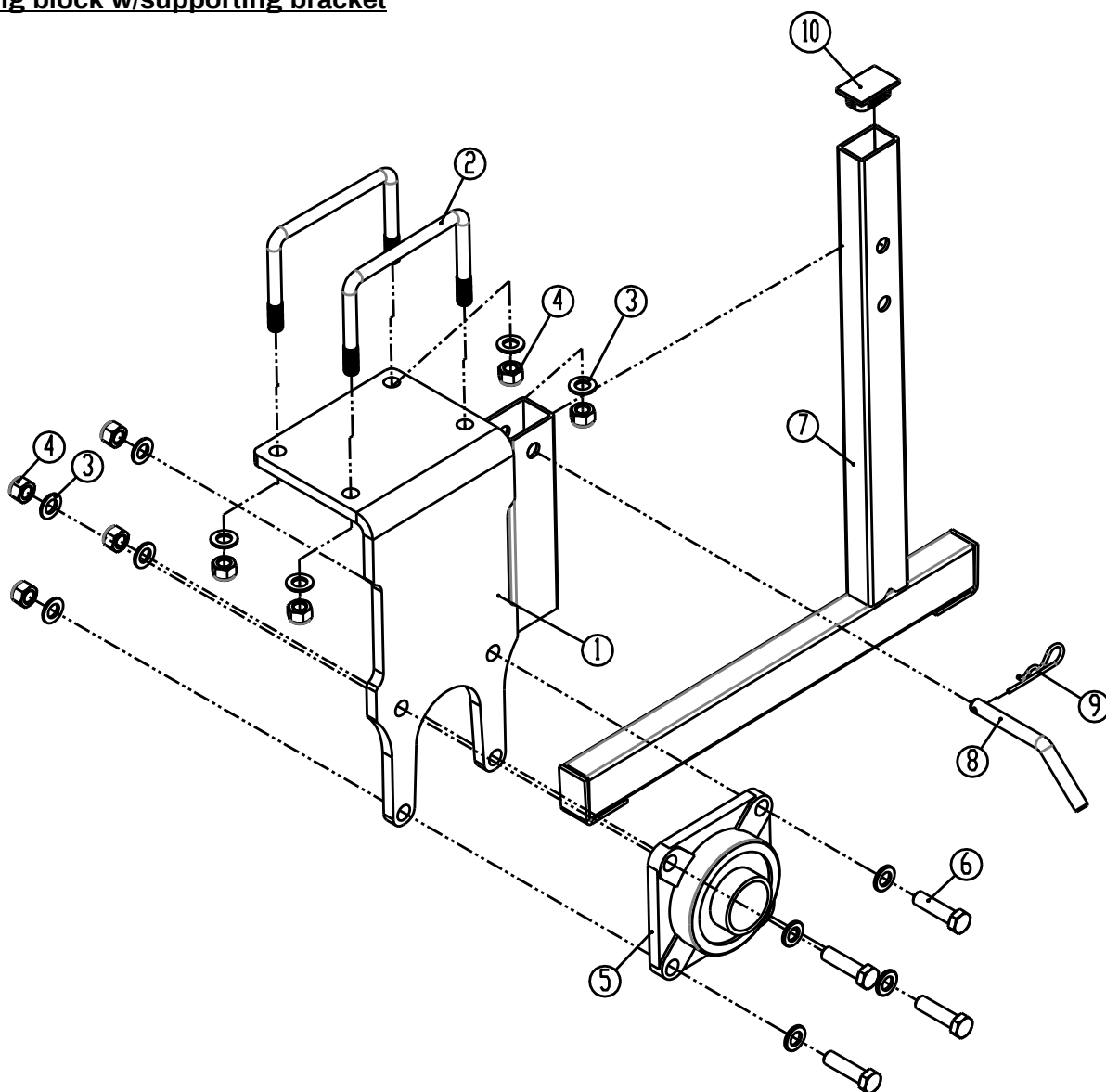
| Pos. | Item no. | Designation         | 1,5 | 2,6 | 3,0 | 3,5 |
|------|----------|---------------------|-----|-----|-----|-----|
| 1    | 7357692  | Mirror              | 2   | 2   | 2   | 2   |
| 2    | 1270746  | Adjusting tube      | 1   | 1   | 1   | 1   |
| 3    | 1270727  | Mounting plate      | 1   | 1   | 1   | 1   |
| 4    | 0234750  | Bolt M8x20          | 3   | 3   | 3   | 3   |
| 5    | 1270728  | Mounting bracket    | 1   | 1   | 1   | 1   |
| 6    | 0234760  | Bolt M8x30          | 2   | 2   | 2   | 2   |
| 7    | 0272250  | Facet disc Ø8       | 8   | 8   | 8   | 8   |
| 8    | 0264050  | Self-locking nut M8 | 4   | 4   | 4   | 4   |

**Stabilizing device**

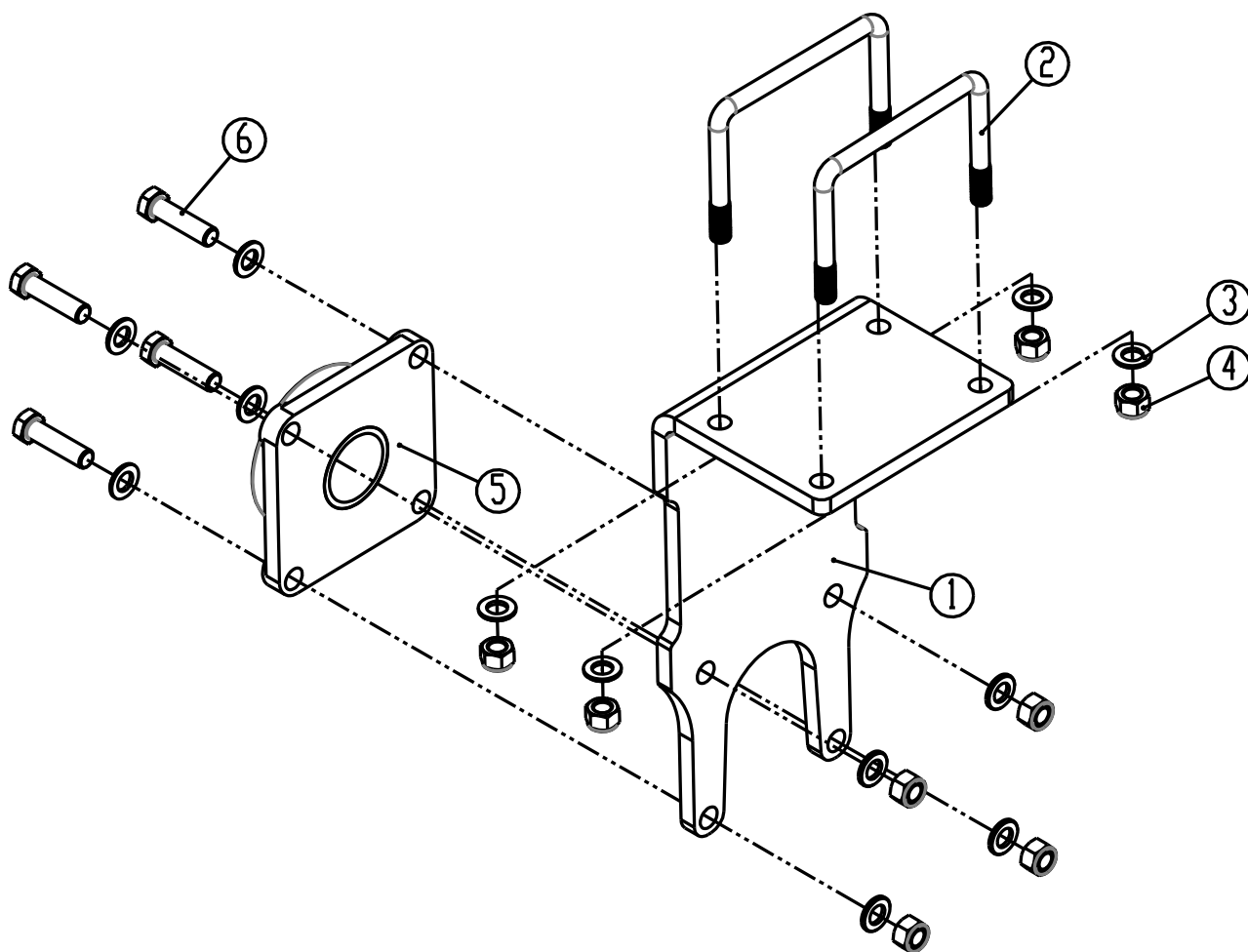
| Pos. | Item no.  | Designation                   | 1,5 | 2,6 | 3,0 | 3,5 |
|------|-----------|-------------------------------|-----|-----|-----|-----|
| 1    | 690139001 | Spring f/Stabilization device | 1   | 1   | 1   | 1   |
| 2    | 1270710   | Chain w/ 4 links              | 2   | 2   | 2   | 2   |
| 3    | 1270712   | Chain w/ 2 links              | 2   | 2   | 2   | 2   |
| 4    | 690304500 | Shackle Ø10                   | 4   | 4   | 4   | 4   |
| 5    | 0234779   | Eye bolt M12x70               | 4   | 4   | 4   | 4   |
| 6    | 0264070   | Self-locking nut M12          | 4   | 4   | 4   | 4   |
| 7    | 0261370   | Locknut M12                   | 4   | 4   | 4   | 4   |
| 8    | 0272270   | Facet disc Ø12                | 8   | 8   | 8   | 8   |

**Frame**

| Pos. | Item no.  | Designation                        | 1,5 | 2,6 | 3,0 | 3,5 |
|------|-----------|------------------------------------|-----|-----|-----|-----|
| 1    | 1270266   | Frame                              | 1   | 1   | 1   | 1   |
| 2    | 690302104 | Ball joint Ø25                     | 1   | 1   | 1   | 1   |
| 3    | 630440300 | Supporting roller Ø63/Ø40 L=131 mm | 2   | 2   | 2   | 2   |
| 4    | 690140652 | Shim Ø50/Ø40x2,5mm DIN 988         | 2   | 2   | 2   | 2   |
| 5    | 690130167 | Roll pin Ø10x60                    | 2   | 2   | 2   | 2   |
| 6    | 0432500   | Lubricating nipple M8              | 2   | 2   | 2   | 2   |

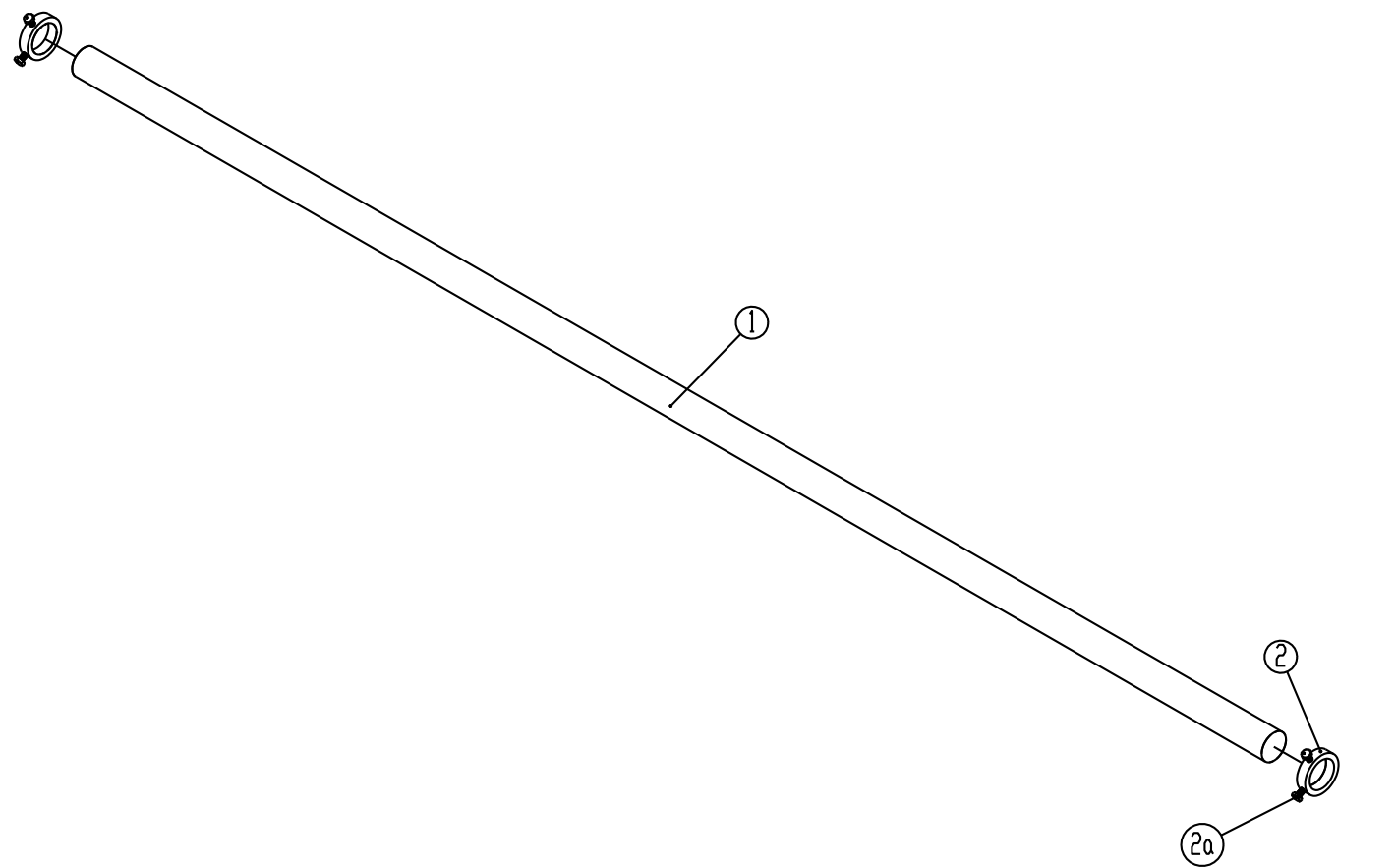
**Bearing block w/supporting bracket**

| Pos. | Item no.  | Designation                        | 1,5 | 2,6 | 3,0 | 3,5 |
|------|-----------|------------------------------------|-----|-----|-----|-----|
| 1    | 630401202 | Bearing block w/supporting bracket | 1   | 1   | 1   | 1   |
| 2    | 690110102 | U-bolt M16x80x160x80               | 2   | 2   | 2   | 2   |
| 3    | 0272290   | Facet disc Ø16                     | 12  | 12  | 12  | 12  |
| 4    | 0264090   | Self-locking nut M16               | 8   | 8   | 8   | 8   |
| 5    | 690140821 | Bearing UCF 212                    | 1   | 1   | 1   | 1   |
| 6    | 0235840   | Bolt M16x60                        | 4   | 4   | 4   | 4   |
| 7    | 634400620 | Supporting leg                     | 1   | 1   | 1   | 1   |
| 8    | 69516094A | Pin Ø16 L=94                       | 1   | 1   | 1   | 1   |
| 9    | 690133005 | Hairpin Ø4                         | 1   | 1   | 1   | 1   |
| 10   | 690109205 | Plastic plug 60x40x2               | 1   | 1   | 1   | 1   |

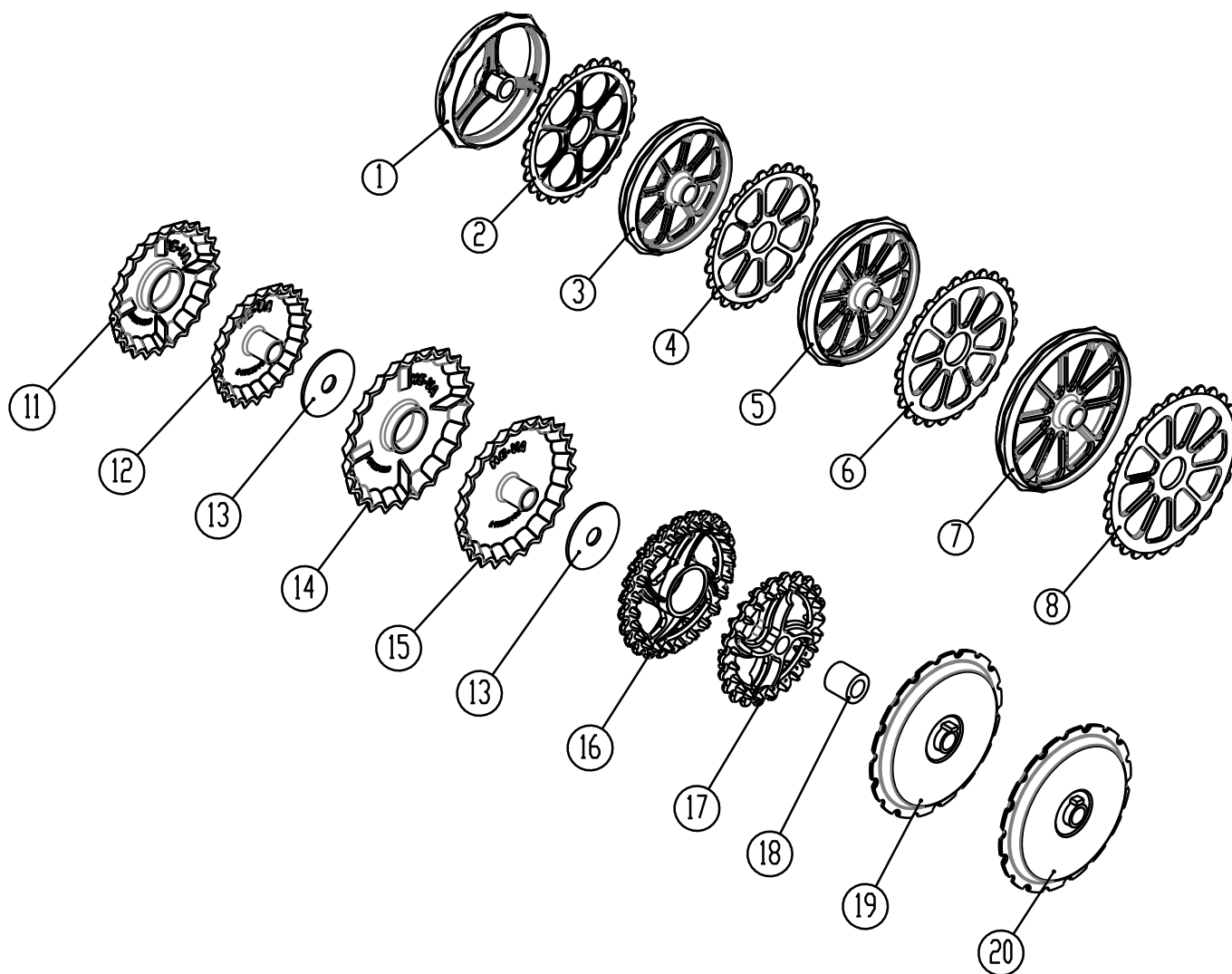
**Bearing block**

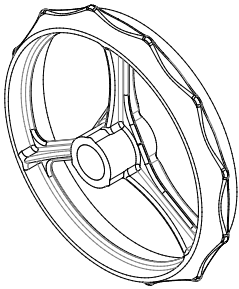
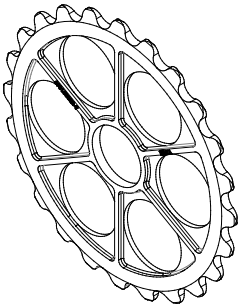
| Pos. | Item no.  | Designation          | 1,5 | 2,6 | 3,0 | 3,5 |
|------|-----------|----------------------|-----|-----|-----|-----|
| 1    | 630401201 | Bearing block        | 1   | 1   | 1   | 1   |
| 2    | 690110102 | U-bolt M16x80x160x80 | 2   | 2   | 2   | 2   |
| 3    | 0272290   | Facet disc Ø16       | 12  | 12  | 12  | 12  |
| 4    | 0264090   | Self-locking nut M16 | 8   | 8   | 8   | 8   |
| 5    | 690140821 | Bearing UCF 212      | 1   | 1   | 1   | 1   |
| 6    | 0235840   | Bolt M16x60          | 4   | 4   | 4   | 4   |

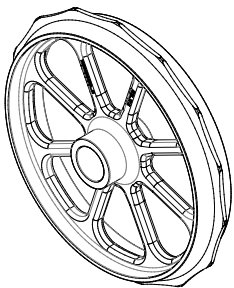
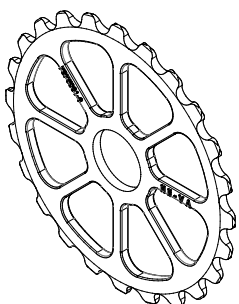
Axle

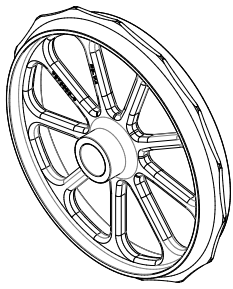
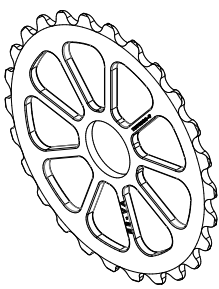


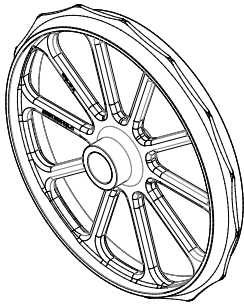
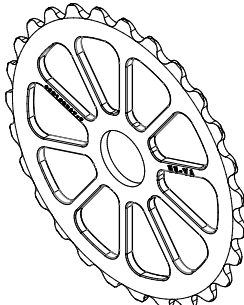
| Pos. | Item no.  | Designation            | 1,5 | 2,6 | 3,0 | 3,5 |
|------|-----------|------------------------|-----|-----|-----|-----|
| 1    | 678621730 | Axle 1730mm (Ø60)      | 1   |     |     |     |
| 1    | 678612660 | Axle 2660mm (Ø60)      |     | 1   |     |     |
| 1    | 678613080 | Axle 3080mm (Ø60)      |     |     | 1   |     |
| 1    | 1270397   | Axle 3550mm (Ø60)      |     |     |     | 1   |
| 2    | 671040400 | Stop ring w/bolt 20 mm | 2   | 4   | 4   | 4   |
| 2    | 630651200 | Stop ring w/bolt 27 mm | 2   | 4   | 4   | 4   |
| 2a   | 690101101 | Bolt M12x25            | 4   | 8   | 8   | 8   |

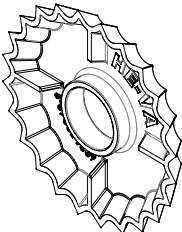
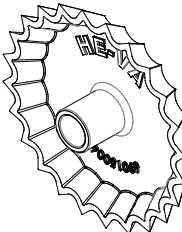
**Ring Overview**

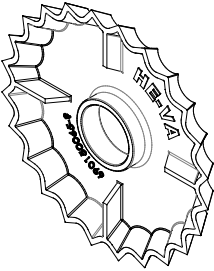
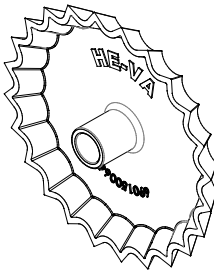
| Cambridge rings Ø510 mm with 3 spokes                                             |                                                                                   | Designation                 | Quality | Item no.  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------|---------|-----------|
|  |  | Pos. 1 Hub 104 mm           | GG25    | 690150030 |
|                                                                                   |                                                                                   | Pos. 1 Hub 104 mm           | GGG50   | 690150088 |
|                                                                                   |                                                                                   | Pos. 1 Hub 80 mm            | GGG50   | 690150087 |
|                                                                                   |                                                                                   | Pos. 1 Hub 72 mm at bearing | GGG50   | 630764031 |
|                                                                                   |                                                                                   | Pos. 1 Nav 82 mm at bearing | GGG50   | 630764030 |
|                                                                                   |                                                                                   | Pos. 2                      |         | 690150032 |
| <b>Pos. 1</b><br>510 mm Plain ring<br>(3 spokes)                                  | <b>Pos. 2</b><br>510 mm Serrated ring<br>(6 spokes)                               |                             |         |           |

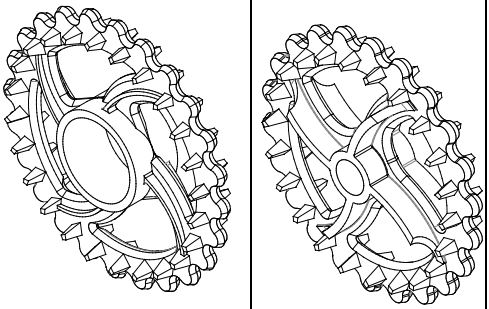
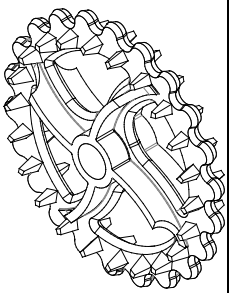
| Cambridge rings Ø510 mm with 8 spokes                                              |                                                                                    | Designation                 | Quality | Item no. |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------|---------|----------|
|  |  | Pos. 3 Hub 104 mm           | GG25    | 7375003  |
|                                                                                    |                                                                                    | Pos. 3 Hub 104 mm           | GGG50   | 7375010  |
|                                                                                    |                                                                                    | Pos. 3 Hub 80 mm            | GG25    | 7375004  |
|                                                                                    |                                                                                    | Pos. 3 Hub 80 mm            | GGG50   | 7375008  |
|                                                                                    |                                                                                    | Pos. 3 Hub 72 mm at bearing | GGG50   | 7375025  |
|                                                                                    |                                                                                    | Pos. 3 Hub 82 mm at bearing | GGG50   | 7375026  |
|                                                                                    |                                                                                    | Pos. 4                      | GG25    | 7375001  |
|                                                                                    |                                                                                    | Pos. 4                      | GGG50   | 7375013  |
| <b>Pos. 3</b><br>510 mm Plain ring<br>(8 spokes)                                   | <b>Pos. 4</b><br>510 mm Serrated ring<br>(8 spokes)                                |                             |         |          |

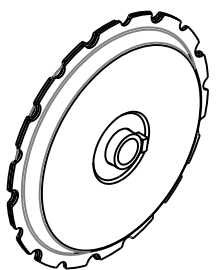
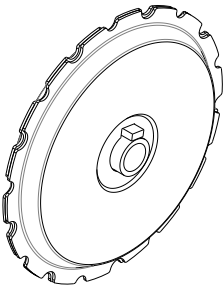
| Cambridge rings Ø560 mm with 9 spokes                                               |                                                                                     | Designation                 | Quality | Item no. |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------|---------|----------|
|  |  | Pos. 5 Hub 104 mm           | GG25    | 7375005  |
|                                                                                     |                                                                                     | Pos. 5 Hub 104 mm           | GGG50   | 7375009  |
|                                                                                     |                                                                                     | Pos. 5 Hub 80 mm            | GG25    | 7375007  |
|                                                                                     |                                                                                     | Pos. 5 Hub 80 mm            | GGG50   | 7375011  |
|                                                                                     |                                                                                     | Pos. 5 Hub 72 mm at bearing | GGG50   | 7375023  |
|                                                                                     |                                                                                     | Pos. 5 Hub 82 mm at bearing | GGG50   | 7375024  |
|                                                                                     |                                                                                     | Pos. 6                      | GG25    | 7375000  |
|                                                                                     |                                                                                     | Pos. 6                      | GGG50   | 7375012  |
| <b>Pos. 5</b><br>560 mm Plain ring<br>(9 spokes)                                    | <b>Pos. 6</b><br>560 mm Serrated ring<br>(9 spokes)                                 |                             |         |          |

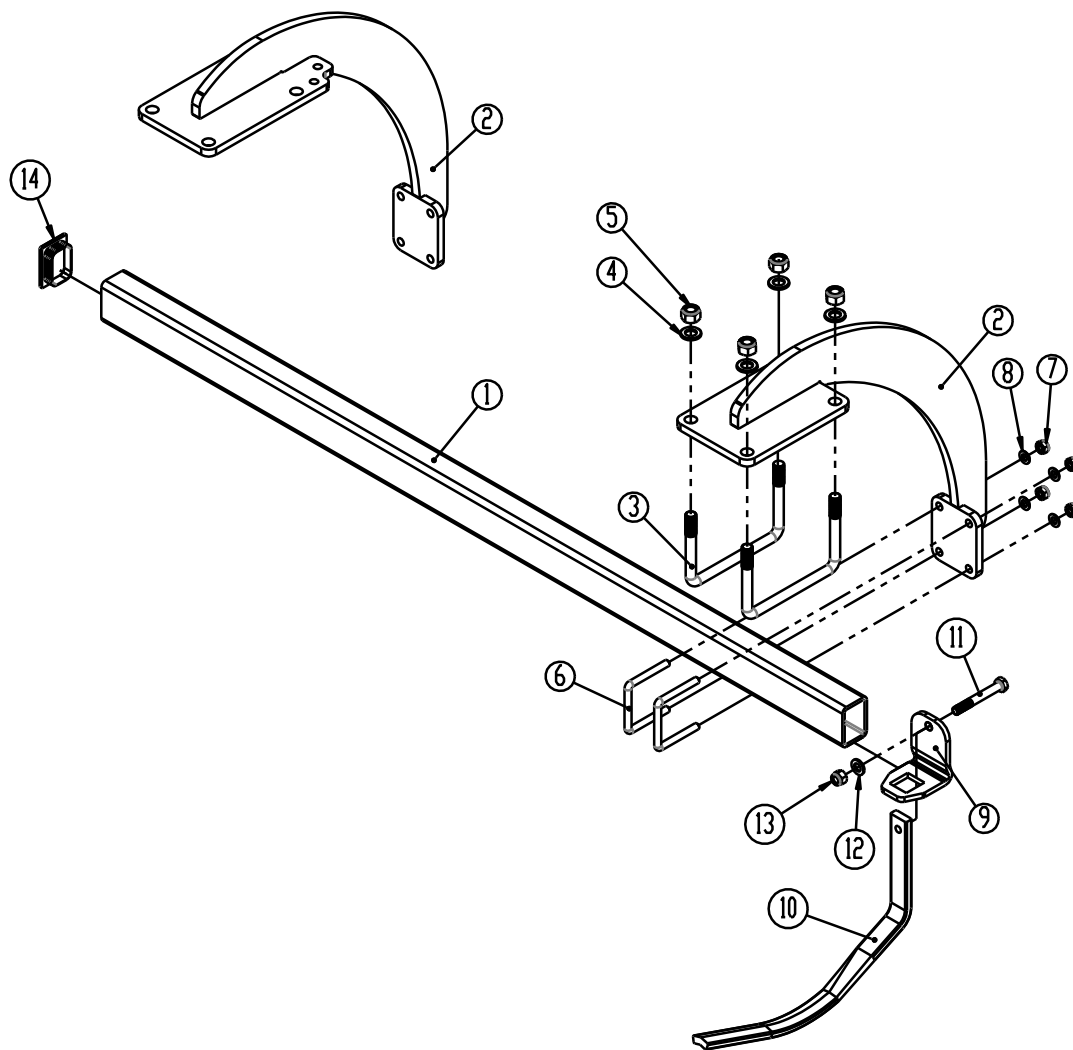
| Cambridge rings Ø620 mm with 10 spokes                                            |                                                                                   | Designation                 | Quality | Item no.  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------|---------|-----------|
|  |  | Pos. 7 Hub 104 mm           | GG25    | 690150113 |
|                                                                                   |                                                                                   | Pos. 7 Hub 104 mm           | GGG50   | 7375016   |
|                                                                                   |                                                                                   | Pos. 7 Hub 80 mm            | GG25    | 690150111 |
|                                                                                   |                                                                                   | Pos. 7 Hub 80 mm            | GGG50   | 7375015   |
|                                                                                   |                                                                                   | Pos. 7 Hub 72 mm at bearing | GGG50   | 7375021   |
|                                                                                   |                                                                                   | Pos. 7 Hub 82 mm at bearing | GGG50   | 7375022   |
|                                                                                   |                                                                                   |                             |         |           |
|                                                                                   |                                                                                   | Pos. 8                      | GG25    | 690150067 |
|                                                                                   |                                                                                   | Pos. 8                      | GGG50   | 690150116 |
| <b>Pos. 7</b><br>620 mm Plain ring<br>(10 spokes)                                 | <b>Pos. 8</b><br>620 mm Serrated ring<br>(10 spokes)                              |                             |         |           |

| Star rings Ø450/Ø500 mm                                                            |                                                                                    |                                                                                    | Designation           | Quality | Item no.  |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------|---------|-----------|
|  |  |  | Pos. 11 Ø500/Ø135     | GGG50   | 690150063 |
|                                                                                    |                                                                                    |                                                                                    | Pos. 12 Ø485          | GGG50   | 690150064 |
|                                                                                    |                                                                                    |                                                                                    |                       |         |           |
|                                                                                    |                                                                                    |                                                                                    | Pos. 13 Mountingplate |         | 690150112 |
|                                                                                    |                                                                                    |                                                                                    |                       |         |           |
| <b>Pos. 11</b><br>500 mm                                                           | <b>Pos. 12</b><br>485 mm                                                           | <b>Pos. 13</b><br>235 mm                                                           |                       |         |           |

| Star rings Ø550/Ø600 mm                                                             |                                                                                     |                                                                                     | Designation           | Quality | Item no.  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------|-----------|
|  |  |  | Pos. 14 Ø600/Ø135     | GGG50   | 690150065 |
|                                                                                     |                                                                                     |                                                                                     | Pos. 15 Ø550          | GGG50   | 690150066 |
|                                                                                     |                                                                                     |                                                                                     |                       |         |           |
|                                                                                     |                                                                                     |                                                                                     | Pos. 13 Mountingplate |         | 690150112 |
|                                                                                     |                                                                                     |                                                                                     |                       |         |           |
| <b>Pos. 14</b><br>600 mm                                                            | <b>Pos. 15</b><br>550 mm                                                            | <b>Pos. 13</b><br>235 mm                                                            |                       |         |           |

| Crosskillrings 485/530 mm – 550/600 mm                                           |                                                                                   |                                                                                   | Designation      | Quality | Item no.  |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------|---------|-----------|
|  |  |  | Pos. 16 530 mm   | GG25    | 690150011 |
|                                                                                  |                                                                                   |                                                                                   | Pos. 17 485 mm   | GG25    | 690150034 |
|                                                                                  |                                                                                   |                                                                                   |                  |         |           |
|                                                                                  |                                                                                   |                                                                                   | Pos. 16 600 mm   | GG25    | 690150075 |
|                                                                                  |                                                                                   |                                                                                   | Pos. 17 550 mm   | GG25    | 690150074 |
|                                                                                  |                                                                                   |                                                                                   |                  |         |           |
|                                                                                  |                                                                                   |                                                                                   | Pos. 18 Hub Ø104 |         | 690150076 |
| <b>Pos. 16</b><br>Loose Crosskill                                                | <b>Pos. 17</b><br>Rigid Crosskill                                                 | <b>Pos. 18</b><br>Hub                                                             |                  |         |           |

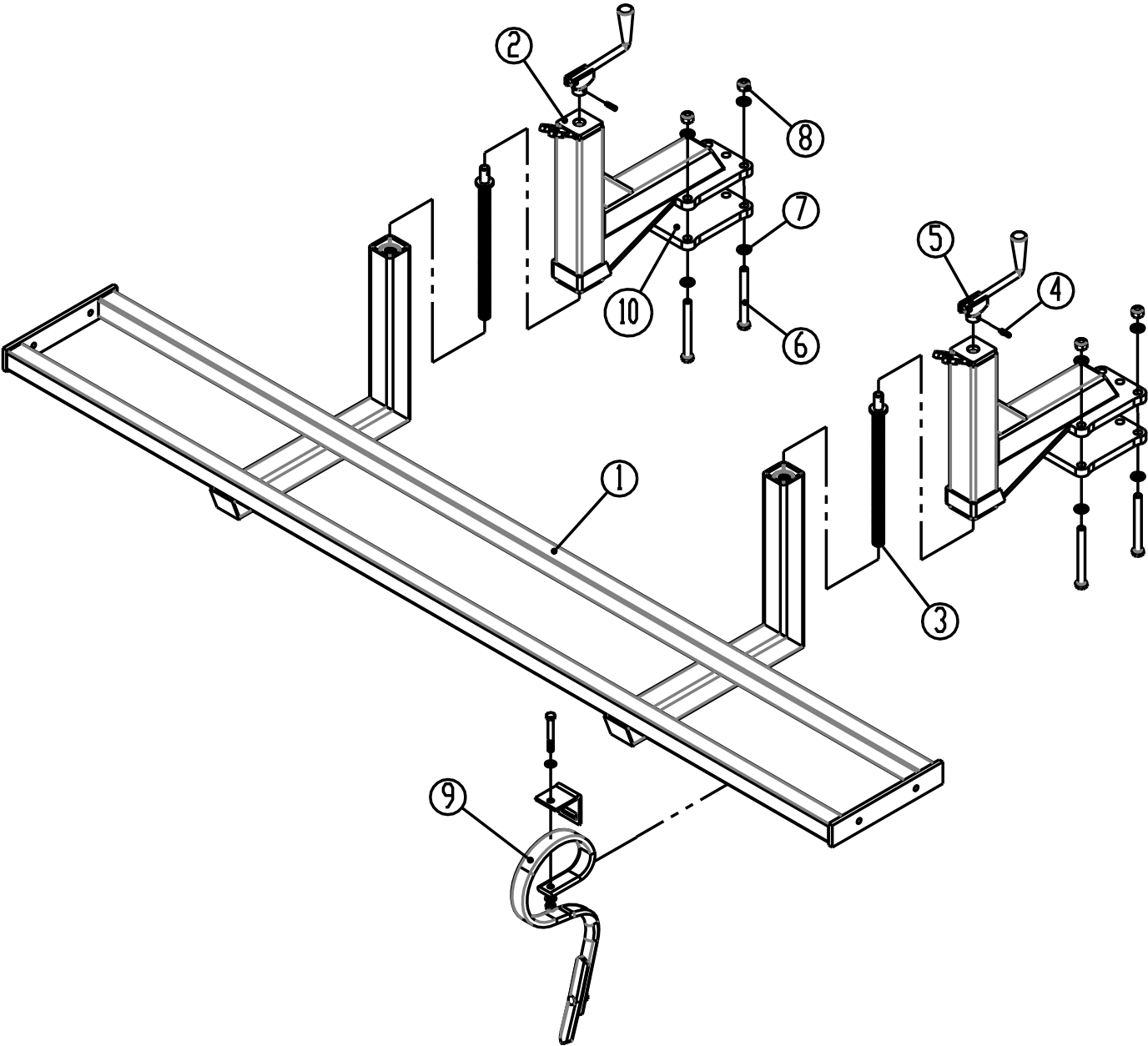
| V-profile rings Ø600 mm                                                           |                                                                                    |  | Designation                             | Quality | Item no. |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--|-----------------------------------------|---------|----------|
|  |  |  | Pos. 19 Ø600 mm                         | S235    | 90150036 |
|                                                                                   |                                                                                    |  | Pos. 20 Ø600 w/short carrier at bearing | S235    | 90150053 |
|                                                                                   |                                                                                    |  |                                         |         |          |
|                                                                                   |                                                                                    |  |                                         |         |          |
|                                                                                   |                                                                                    |  |                                         |         |          |
|                                                                                   |                                                                                    |  |                                         |         |          |
|                                                                                   |                                                                                    |  |                                         |         |          |
| <b>Pos. 19</b><br>V-profile Ø600                                                  | <b>Pos. 20</b><br>Short carrier                                                    |  |                                         |         |          |

**Scraper**

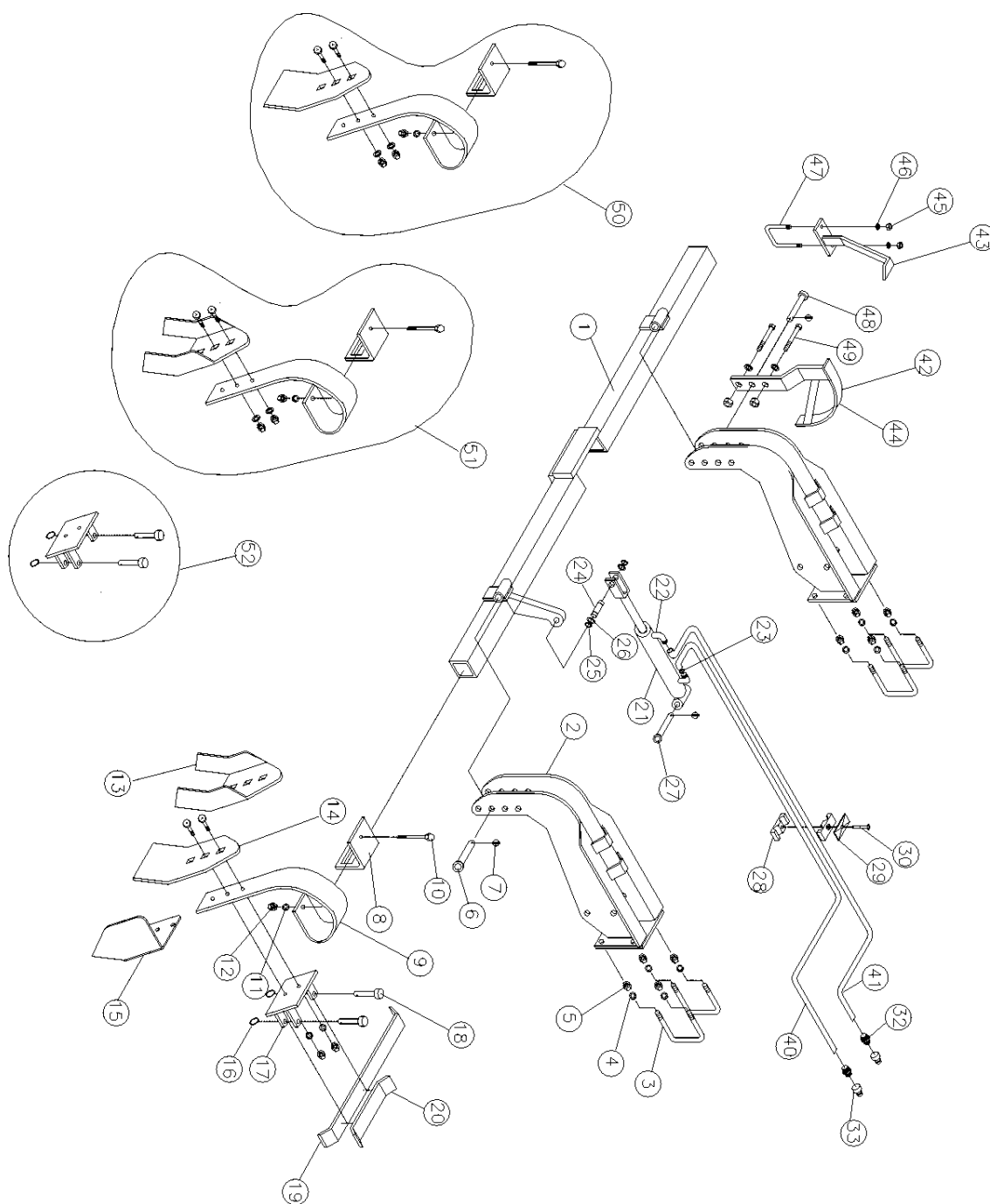
| Pos. | Item no.  | Designation                                                | 1,5m | 2,6m | 3,0m | 3,5m |
|------|-----------|------------------------------------------------------------|------|------|------|------|
| 1    | 634400870 | Scraper bar 1,5m                                           | 1    |      |      |      |
| 1    | 634400871 | Scraper bar 2,6m                                           |      | 1    |      |      |
| 1    | 634400872 | Scraper bar 3,0m                                           |      |      | 1    |      |
| 1    | 634400874 | Scraper bar 3,5m                                           |      |      |      | 1    |
| 2    | 634400865 | Bracket f/scraper bar<br><b>Until machin no. 706737</b>    | 2    | 2    | 2    | 2    |
| 2    | 634400867 | Bracket f/scraper bar<br><b>From machin no. 706744</b>     | 2    | 2    | 2    | 2    |
| 2    | 1270182   | Bracket f/scraper bar (L)<br><b>From machin no. 709502</b> | 1    | 1    | 1    | 1    |
| 2    | 1270184   | Bracket f/scraper bar (R)<br><b>From machin no. 709502</b> | 1    | 1    | 1    | 1    |
| 3    | 690110102 | U-bolt M16x80x160x80<br><b>From machin no. 709502</b>      | 4    | 4    | 4    | 4    |
| 3    | 690110101 | U-bolt M16x100x110x100                                     | 4    | 4    | 4    | 4    |
| 4    | 0272290   | Facet disc Ø16                                             | 8    | 8    | 8    | 8    |
| 5    | 0264070   | Self-locking nut M16                                       | 8    | 8    | 8    | 8    |
| 6    | 690110020 | U-bolt M10x70x70x70                                        | 4    | 4    | 4    | 4    |
| 6    | 690110025 | U-bolt M10x50x70x50<br><b>From machin no. 709502</b>       | 4    | 4    | 4    | 4    |
| 7    | 0264070   | Self-locking nut M10                                       | 8    | 8    | 8    | 8    |
| 8    | 0272260   | Facet disc Ø10                                             | 8    | 8    | 8    | 8    |
| 9    | 690152030 | Clamp                                                      | 12   | 16   | 20   | 23   |
| 10   | 630938539 | Scraper f/V-profile ring (long)                            | 12   | 16   | 20   | 23   |
| 11   | 690103098 | Bolt M12x110                                               | 12   | 16   | 20   | 23   |
| 12   | 0272270   | Facet disc Ø12                                             | 12   | 16   | 20   | 23   |
| 13   | 0264070   | Self-locking nut M12                                       | 12   | 16   | 20   | 23   |
| 14   | 0489487   | Plastic plug f/70x50, sort                                 | 2    | 2    | 2    | 2    |

**Spare Parts List – Extra equipment**

**Front-Harrow**



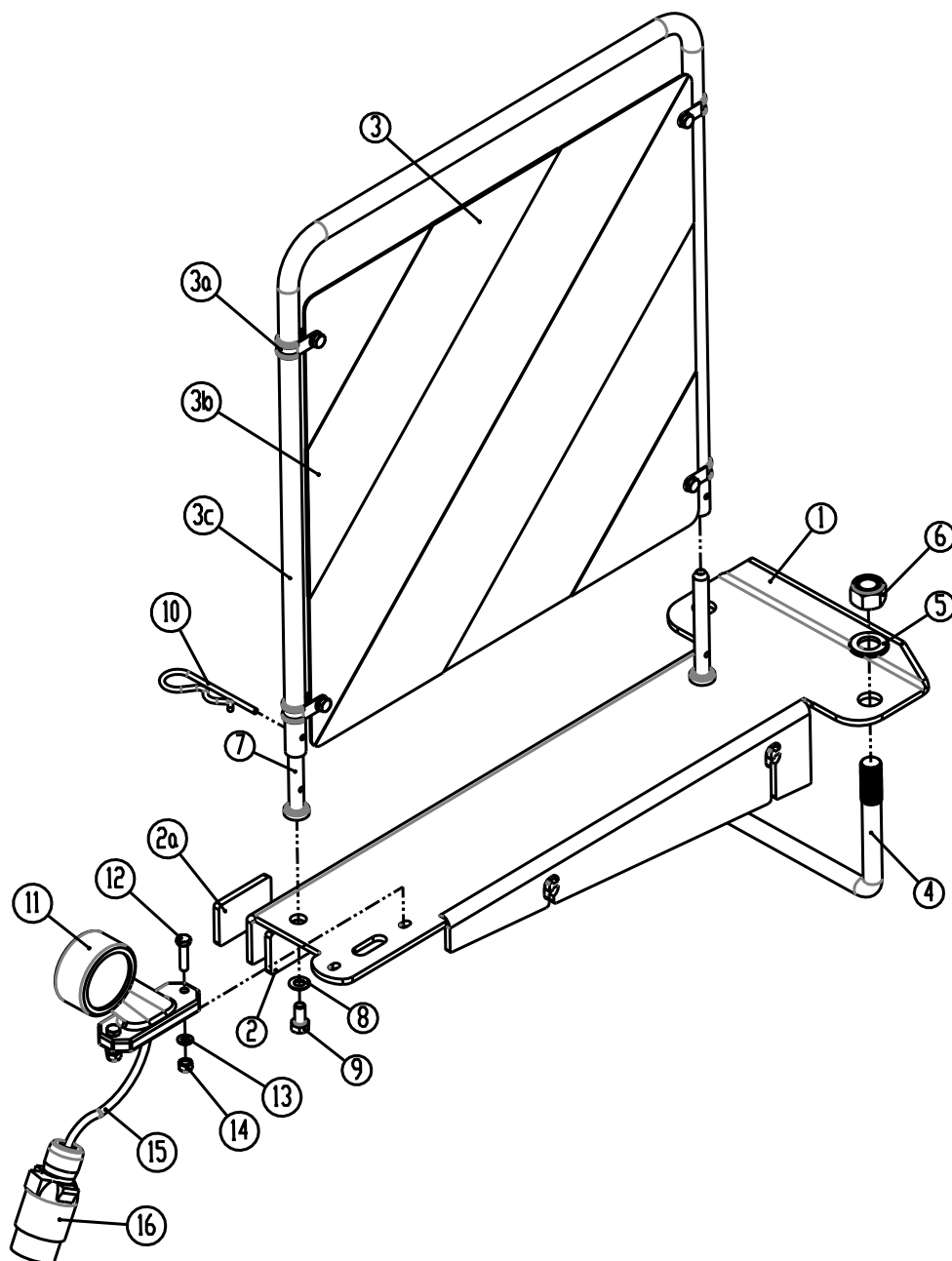
| Pos. | Item no.  | Designation                                    | 2,6 | 3,0 | 3,5 |
|------|-----------|------------------------------------------------|-----|-----|-----|
| 1    | 631305100 | Frame                                          | 1   |     |     |
| 1    | 631315100 | Frame                                          |     | 1   |     |
| 1    | 1270107   | Frame                                          |     |     | 1   |
| 2    | 1270153   | Front-Harrow horn tybe 2                       | 2   | 2   | 2   |
| 3    | 690304101 | Spindle, TR28x5 L = 410 mm                     | 2   | 2   | 2   |
| 4    | 690130158 | Roll pin Ø8x30                                 | 2   | 2   | 2   |
| 5    | 690304102 | Crank                                          | 2   | 2   | 2   |
| 6    | 0235950   | Bolt M16x150 8.8                               | 8   | 8   | 8   |
| 7    | 0272290   | Facet disc Ø16                                 | 16  | 16  | 16  |
| 8    | 0264090   | Self-locking nut M16                           | 16  | 16  | 16  |
| 9    | 0422170   | Harrow tine w/point 45x12mm (cpl) **Jackpot**  | 15  | 17  | 20  |
| 9a   | 0422171   | Harrow tine Jackpot (straight) 45x12mm w/point | 15  | 17  | 20  |
| 9a   | 0422371   | Clamp f/tine 45x12                             | 15  | 17  | 20  |
| 9a   | 0422025   | Point, straight - f/harrow tine                | 15  | 17  | 20  |
| 9a   | 0386220   | Cultivator bolt M10x45, w/nut 8.8 black        | 15  | 17  | 20  |
| 9a   | 0235450   | Bolt M12x90 8.8                                | 15  | 17  | 20  |
| 9a   | 0272270   | Facet disc Ø12                                 | 30  | 34  | 40  |
| 9a   | 0264070   | Self-locking nut M12                           | 15  | 17  | 20  |
| 10   | 1270151   | Clamping plate                                 | 2   | 2   | 2   |

**Spring-Board 2,6 - 3,0 og 3,5 m**

Note: Check number and measurements of all hoses before ordering the spare parts.

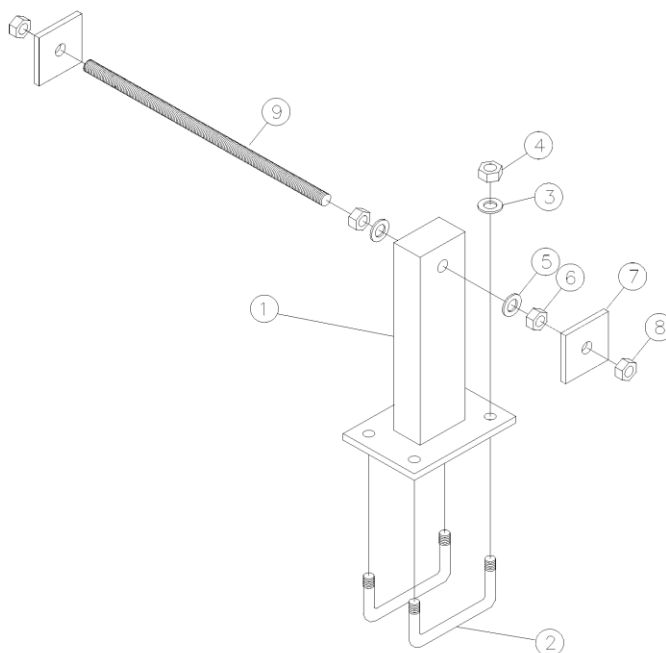
| Pos. | Item no.  | Designation                                     | 2,6 | 3,0 | 3,5 |
|------|-----------|-------------------------------------------------|-----|-----|-----|
| 1    | 633230260 | Bar                                             | 1   | 0   | 0   |
| 1    | 633240300 | Bar                                             | 0   | 1   | 0   |
| 1    | 671840350 | Bar                                             | 0   | 0   | 1   |
| 2    | 633244510 | Horn                                            | 2   | 2   | 2   |
| 3    | 690110405 | U-bolt M18x160x80x160                           | 4   | 4   | 4   |
| 4    | 0272300   | Facet disc Ø18                                  | 8   | 8   | 8   |
| 5    | 0264100   | Self-locking nut M18                            | 8   | 8   | 8   |
| 6    | 69525087F | Pin Ø25 L = 87                                  | 1   | 1   | 1   |
| 7    | 690134001 | Ring pin Ø4,5                                   | 3   | 3   | 3   |
| 8    | 633052200 | Clamp f/tine                                    | 10  | 12  | 14  |
| 9    | 633052050 | Tine (10x80)                                    | 10  | 12  | 14  |
| 9a   | 633052000 | Tine complete                                   | 10  | 12  | 14  |
| 10   | 690103098 | Bolt M12x110 10.9                               | 10  | 12  | 14  |
| 11   | 0272270   | Facet disc Ø12                                  | 10  | 12  | 14  |
| 12   | 0264070   | Self-locking nut M12                            | 10  | 12  | 14  |
| 13   | 633052150 | Slicing plates point incl. bolts                | 10  | 12  | 14  |
| 14   | 633052100 | Tine point (8x150) incl. bolts                  | 10  | 12  | 14  |
| 15   | 633052250 | Edge equipment (L)                              | 1   | 1   | 1   |
| 15   | 633052255 | Edge equipment (R)                              | 1   | 1   | 1   |
| 16   | 690134000 | Locking ring Ø30x3                              | 20  | 24  | 28  |
| 17   | 633055500 | Tine bracket f/transverse locking system        | 10  | 12  | 14  |
| 18   | 69512040K | Pin Ø12,5x40                                    | 20  | 24  | 28  |
| 19   | 633055710 | Locking bar f/transverse locking system (long)  | 9   | 11  | 13  |
| 20   | 633055700 | Locking bar f/transverse locking system (short) | 2   | 2   | 2   |
| 21   | 690200160 | Cylinder 50/30x155                              | 1   | 1   | 1   |
| 22   | 690203006 | Fitting, 90angle 10-3/8" BSP                    | 2   | 2   | 2   |
| 23   | 690207901 | Restrictor 1 mm                                 | 1   | 1   | 1   |
| 24   | 69520046D | Pin Ø20 L = 46                                  | 1   | 1   | 1   |
| 25   | 691372020 | Seeger circlip ring Ø20                         | 2   | 2   | 2   |
| 26   | 690115010 | Washer Ø20/Ø28x1mm                              | 2   | 2   | 2   |
| 27   | 69520087F | Pin Ø20 L = 87                                  | 1   | 1   | 1   |
| 28   | 690210210 | Tube-support double Ø14/Ø14                     | 2   | 2   | 2   |
| 29   | 690210211 | Top plade f/double tube-support                 | 1   | 1   | 1   |

| Pos. | Item no.  | Designation                                         | 2,6 | 3,0 | 3,5 |
|------|-----------|-----------------------------------------------------|-----|-----|-----|
| 30   | 690103054 | Bolt M8x40                                          | 1   | 1   | 1   |
| 32   | 690203003 | Fitting, straight 10-1/2" BSP                       | 2   | 2   | 2   |
| 33   | 690203001 | Quick coupling ½" E402, male                        | 2   | 2   | 2   |
| 40   | 690201033 | Hydr. hose 2500 mm ¼" st/st (single frame)          | 1   | 1   | 1   |
| 40   | 690201060 | Hydr. hose 3000 mm ¼" st/st (double frame)          | 1   | 1   | 1   |
| 41   | 690201033 | Hydr. hose 2500 mm ¼" st/st (single frame)          | 1   | 1   | 1   |
| 41   | 690201060 | Hydr. hose 3000 mm ¼" st/st (double frame)          | 1   | 1   | 1   |
| 42   | 633151000 | Scale f/depth control                               | 1   | 1   | 1   |
| 43   | 633152000 | Pointer f/depth control                             | 1   | 1   | 1   |
| 44   | 698500018 | Label for scale f/depth control                     | 1   | 1   | 1   |
| 45   | 0264060   | Self-locking nut M10                                | 4   | 4   | 4   |
| 46   | 0272260   | Facet disc Ø10                                      | 4   | 4   | 4   |
| 47   | 690110020 | U-bolt M10x70x70x70 mm                              | 1   | 1   | 1   |
| 48   | 69525095F | Pin Ø25 L=95                                        | 1   | 1   | 1   |
| 49   | 690101083 | Bolt M10x35                                         | 2   | 2   | 2   |
| 50   | 633052000 | Tine w/flat tine point (complete)                   | 10  | 12  | 14  |
| 51   | 633052025 | Tine w/slicing plates point (complete)              | 10  | 12  | 14  |
| 52   | 633055510 | Tine bracket f/transverse locking system (complete) | 10  | 12  | 14  |

**Reflector/Markinglights 1,5 – 2,6 – 3,0 – 3,5 m**

| Pos. | Item no.  | Designation                                                             | Qty. |
|------|-----------|-------------------------------------------------------------------------|------|
| 1    | 690160069 | Reflector holder, left f/ Front-Roller 1,5m – 2,6m – 3,0m - 3,5m        | 1    |
| 1    | 690160068 | Reflector holder, right f/ Front-Roller 1,5m – 2,6m – 3,0m - 3,5m       | 1    |
| 2    | 690160048 | Reflector, adhesive white 57x38                                         | 1    |
| 2a   | 690160046 | Reflector, adhesive red 57x38                                           | 1    |
| 3    | 690160074 | Full-mounted warning sign                                               | 1    |
| 3a   | 690160072 | ABA Rubber clamps 15,9                                                  | 4    |
| 3b   | 690160071 | Warning sign 423x423 double                                             | 1    |
| 3c   | 690160073 | Tube for warning sign Ø16                                               | 1    |
| 4    | 690110102 | U-bolt M16x80x160x80                                                    | 1    |
| 5    | 0272290   | Facet disc Ø16                                                          | 2    |
| 6    | 0264090   | Self-locking nut M16                                                    | 2    |
| 7    | 7357599   | Flanged pin                                                             | 2    |
| 8    | 0272250   | Facet disc Ø8                                                           | 2    |
| 9    | 0234740   | Bolt M8x16, 8.8                                                         | 2    |
| 10   | 0377400   | Hairpin Ø4                                                              | 2    |
| 11   | 7357507   | Markinglight (L)                                                        | 1    |
| 11   | 7357509   | Markinglight (R)                                                        | 1    |
| 12   | 690103029 | Bolt M6x25                                                              | 2    |
| 13   | 0272240   | Facet disc Ø6                                                           | 2    |
| 14   | 0264040   | Self-locking nut M6, fzb DIN985                                         | 2    |
| 15   | 690160080 | Cabel 5 x 1 mm <sup>2</sup> L = xxxx mm ( Specify length when ordering) | 1    |
| 16   | 690160070 | Plug (7 poles) DIN 72 577 ISO 1724                                      | 1    |

Note: Check number and measurements of all cables before ordering the spare parts

**Weight carriers**

| Pos. | Item no.  | Designation                 | Qty. |
|------|-----------|-----------------------------|------|
| 1    | 634400400 | Stand                       | 2    |
| 2    | 690110102 | U-bolt M16x80x160x80        | 4    |
| 3    | 0272290   | Facet disc Ø16              | 8    |
| 4    | 0264090   | Self-locking nut M16        | 8    |
| 5    | 0272310   | Facet disc Ø20              | 4    |
| 6    | 0261410   | Nut M20 (lock nut)          | 4    |
| 7    | 634400401 | Clamping plate              | 4    |
| 8    | 0264110   | Self-locking nut M20        | 4    |
| 9    | 630400601 | Threaded rod M20 L = 500 mm | 2    |

## **Notes**

## **Notes**

## **Notes**

Maskiner til vækst  
Maskiner til vækst  
Maskiner til vækst  
Maskiner til vækst  
Maskiner til vækst  
Maskiner til vækst  
Maskiner til vækst



**The design is subject to modification without notice.**