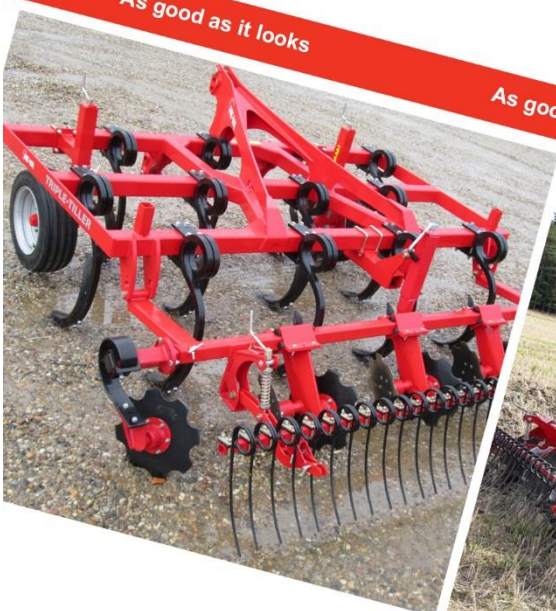


UK

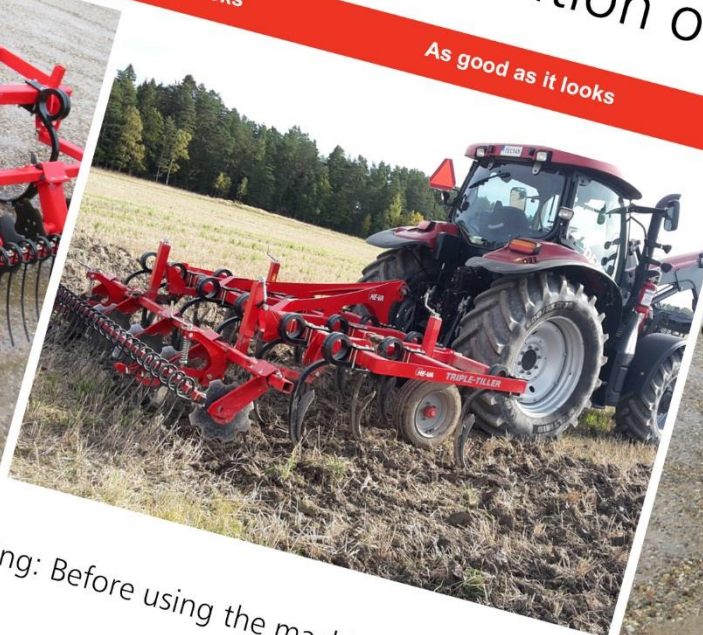


Operating Instructions
Spare Parts List
Declaration of Conformity

As good as it looks



As good as it looks



As good as it looks

As good as it looks



Warning: Before using the machine it is important to read the operation instructions.

Triple-Tiller Airy

Rigid 2,5m – 3,0m – 3,5m – 4,0m

Hydraulic 4m – 5m – 6m



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Table of contents

EC- Declaration of Conformity	3
Machine description	4
Range of application	4
Technical specifications.....	4
Delivery check	5
Preparation of the machine	5
Safety instructions	6
Edge equipment (rigid machines).....	7
Safety and instructions for hydraulics.....	8
Labels on the machine.....	9
Start-up.....	10
General information.....	10
Attachment (rigid lift-mounted machines)	10
Uncoupling (rigid lift-mounted machines)	10
Placement of support wheels	10
Maintenance	11
Lubrication	11
Spare parts	12
Frame 2,5m – 4m rigid	12
Middle frame and side section 4m – 6m (hydraulic).....	14
Tine/point.....	16
Levelling bar (rigid edge equipment)	23
Levelling bar (hydraulic edge equipment).....	23
Hydraulic lift levelling bar.....	24
Eradicator disc	26
Long finger harrow	28
Edge equipment	30
Edge equipment (from machine No 33365)	30
LED-Lights	32
Hydraulics	34
Side section.....	34
Hydraulic lift, levelling bar 2,5m – 3m	35
Hydraulic lift, levelling bar 3,5m – 6m	36
Notes.....	37



EC- Declaration of Conformity

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

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

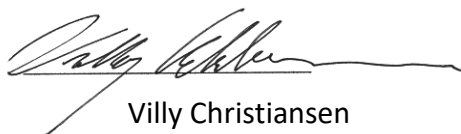
hereby confirms that the following machine has been manufactured in accordance with the Council
Directive 2006/42/EC.

In addition, the following harmonized EU standard has been used:
ISO 12100 Machine safety, general design principles, risk assessment and risk reduction.

The declaration comprises the following machine:

Triple-Tiller Airy
2,5m - 3,0m - 3,5m - 4,0 m (rigid)
4m – 5m – 6m (hydraulic)

Nykøbing d. 01. oct. 2011

A handwritten signature in black ink, appearing to read "Villy Christiansen".

Villy Christiansen

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

Machine description

Range of application

HE-VA Triple-Tiller Airy stubble harrow is available in 2,5m - 3,0m - 3,5m and 4,0m (rigid) and 4m – 5m and 6m (hydraulic) working width.

All models are rigid and lift-mounted with a row spacing of only 25 cm. The 3 rows of tines are mounted at a height of 85 cm and with 70 cm interval. The tine spacing is 75 cm.

Triple-Tiller Airy is supplied as standard (depending on the width of the machine) with double twisted spring tines 35x35 with a working depth of 0-20cm or double twisted spring tines 40x40 with a working depth of 0-30cm and with a 75x12 mm reversible and height-adjustable wear point. Extra equipment includes our "Quick change system" for mounting chisel points or the 260 mm wide wing shares. Behind the harrow section, the Triple-Tiller Airy has disc eradicators with centre spindle adjustment.

Technical specifications

Model							
Working width	2,5 m	3,0 m	3,5 m	4,0 m	4,0m (hydr)	5,0m (hydr)	6,0m (hydr)
Transport width	2,5 m	3,0 m	3,5 m	4,0 m	2,48 m	2,48 m	2,48 m
Machine length	3,35 m	3,35 m	3,35 m	3,35 m	3,35 m	3,35 m	3,35 m
Power requirement	80-160 HK	100-200 HK	120-240 HK	140-250 HK	140-250 HK	160-280 HK	180-300 HK
No. of double-acting outlets	1	1	1	1	1	1	1
No. of tines	10 pcs.	12 pcs.	14 pcs.	16 pcs.	16 pcs.	20 pcs.	24 pcs.
Weight	1250 kg	1360 kg	1470 kg	1580 kg	2230 kg	2340 kg	2450 kg

Wheels	200/60 x 14,5
Tyre pressure	4 bar / 60 p.s.i.
Voltage	12 volt
Working speed	6-12 km/h

Triple-Tiller Airy is in conformance with DS/ISO 11001-1, three-point mounted.

Delivery check

Preparation of the machine

Check:

- the machine for any damages.
- for transport damage to the paint.
- hydraulic hoses for cuts and other damage. Check that none of the other hydraulics components were damaged during transport.
- that the frame has not been damaged.
- that the transport wheels are secure and in good condition.
- air pressure level according to technical specifications.
- that all wearing points are intact.
- that all distance clips for depth adjustment are included.
- that all light systems are in working order (if any such system is mounted).
- traffic light system is tested (if installed)

Check the torque:

- wheel bolts (see page 8)

Check machine functioning (tractor needed):

- raising – lowering – hydraulic unfolding
- spindle adjustable levelling discs / levelling tines
- spindle adjustable support wheels

Safety instructions

Do not start-up the machine if there are persons in exposed positions* within a hazardous area**.

When persons are in exposed positions (e.g. in connection with adjustment, maintenance, attachment and uncoupling), the following conditions must be observed:

1. The machine must be lowered to firm ground.
2. The hydraulics must be relieved.
3. The tractor must be stopped and the key removed from the ignition switch.
4. The driver must ensure that no persons are staying in exposed positions during the operation.

* Person in exposed position: Any person who is staying wholly or partly within a hazardous area.

** Hazardous area: On and under the machine within a distance of 4 m from the machine

Most accidents that happen in connection with the operation, transport and maintenance of machines are caused by non-compliance with the most elementary safety conditions.

Therefore it is vital that anybody working at the machine carefully complies with the safety instructions as well as other instructions applying to the machine.

The machine may only be operated, maintained and repaired by persons, who are familiar with this work and who are further familiar with the possible elements of danger with this particular machine.

ATTENTION !! Rotary parts and loose clothes are a dangerous combination.

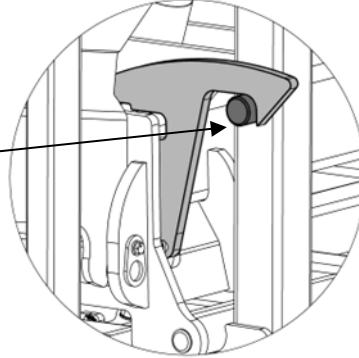
IMPORTANT !! In connection with the risk of parts falling down, it may endanger the lives of persons staying on the base frame of the machine, when it is operated attached to a tractor.

Transport on public roads:

Check before transport on public roads that the attachment of the machine at the tractor is in accordance with the local rules and regulations in force (permitted total weight, permitted axle load, transport width, lights, warning signs, brakes etc.).

IMPORTANT:

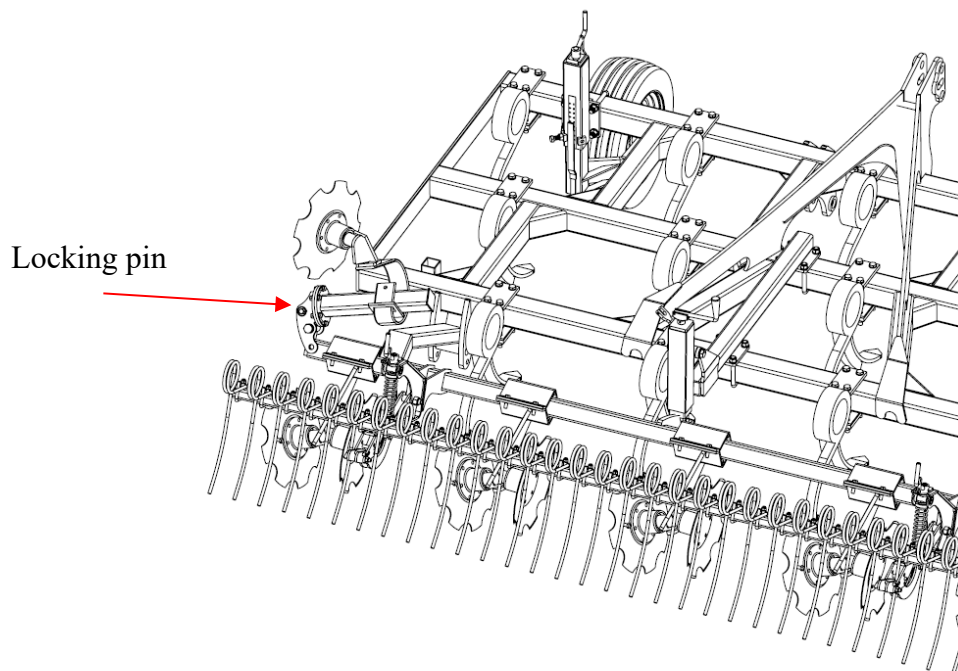
Check that the transport locks lock the side sectionen

**Front axle load:**

After the attachment of the machine and at maximum load, the driving properties of the tractor must be ensured. Check that the front axle is sufficiently loaded. As a minimum, the front axle load must be 20% of the tractor weight. Permitted axle load and permitted total weight for the tractor must always be observed.

Edge equipment (rigid machins)

Before transport, the edge equipment must be folded and locked on both sides using the pins.
See drawing below!



NB! The driving, controlling and braking properties are affected by the attached machine combination.

Safety and instructions for hydraulics

- The maximum working pressure is 225 bar.
- It is advisable to label the attachment parts at hydraulic connections between the tractor and the tool in order to eliminate incorrect operation!
- When checking for hydraulic leaks, use suitable safety wear (eye protectors, gloves, etc.)
High-pressure hydraulic oil may penetrate the skin and cause dangerous injuries.
In case of injury, consult a doctor immediately. ⚠ **RISK OF INFECTION!**
- Before operating the hydraulics, lower the machine to firm ground. Relieve the hydraulics, stop the motor and remove the ignition key.
- Check the hydraulic hoses on a regular basis, however, every six months as a minimum due to any cracks, wear and tear, etc. Replace any defective hoses immediately.

The life of hydraulic hoses is maximum 5 years.

New hydraulic hoses must meet the manufacturer's requirements.

Maximum torque in Nm. w/lubricated thread			
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
Wheel bolt M18x1,5 fine thread		385	
Wheel bolt M22x1,5 fine thread		550	

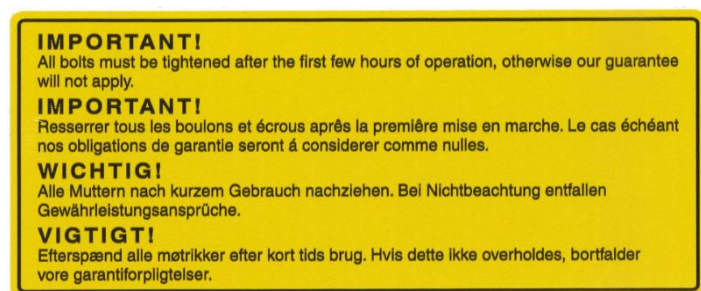
Labels on the machine



Study the safety instructions carefully before operating the machine, and observe all safety precautions.



Plate with number and year of manufacture.



Tighten up all bolts regularly.
If this is not done, our warranty obligations will no longer apply.

Start-up

General information

Rigid models require 0 – 1 double-acting oil outlets (see technical specifications p. 5)

Attachment (rigid lift-mounted machines)

1. Reverse the tractor to the machine and attach it.
2. Lift the machine to maximum transport height.

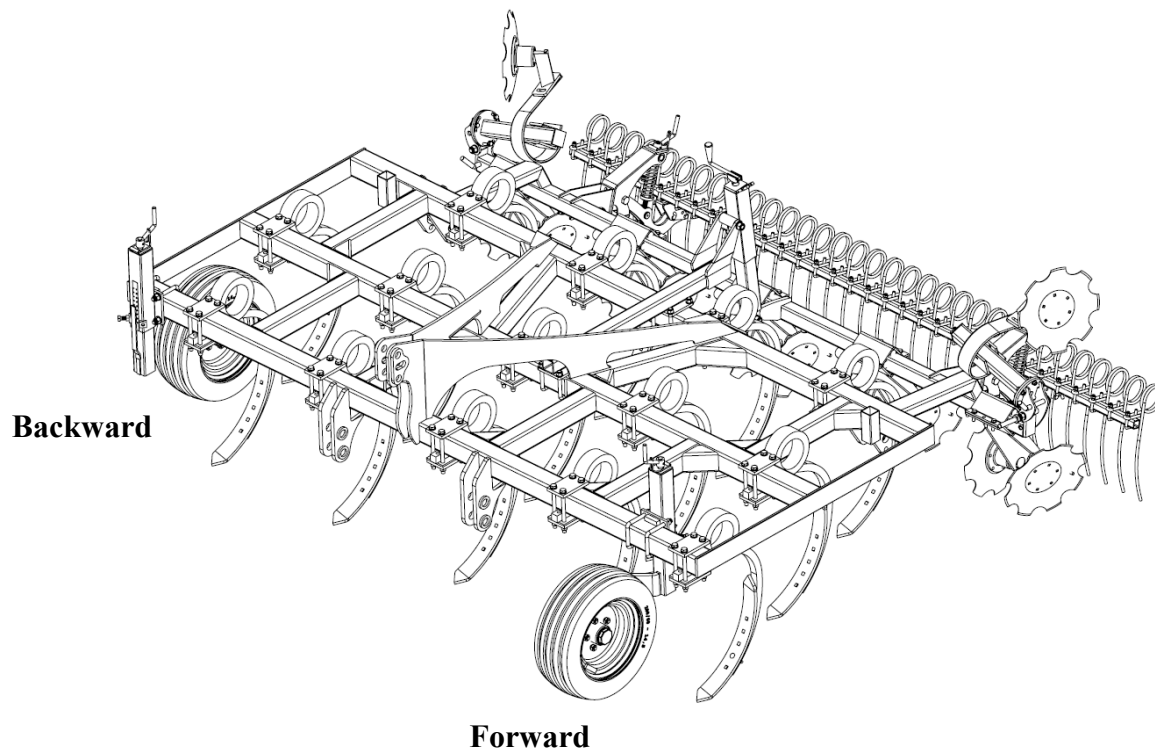
Uncoupling (rigid lift-mounted machines)

1. Lower the machine onto level, firm ground, and release all hydraulic hoses.
2. Lower the support leg.
3. The machine may now be uncoupled.

Placement of support wheels

The support wheels can be placed in a forward or backward position. **See drawing below.**

If the tractor does not have twin tires, the forward position assures a better clearance for the harrow.



Maintenance

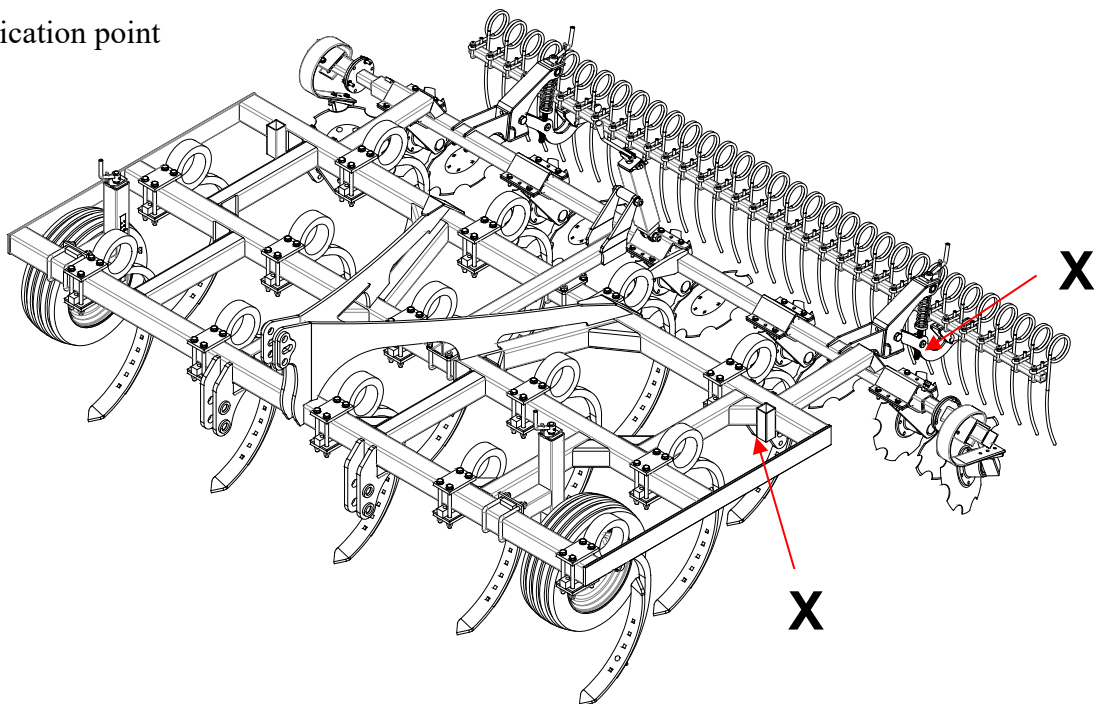
- After the first 10 hours of operation, all bolts must be tightened. (see torque diagram, page 8) Hoses, fittings and cylinders must be checked for possible leaks and further tightened.
- Check regularly that all bolts are tightened.
- After the season all lubricating points must be lubricated, then wash and lubricate the machine. Do not use high-pressure water directly on ball bearings. After washing it, you may spray the machine with a rust preventive oil.

Lubrication

When lubricating, maintaining and repairing the Triple-Tiller, always lower the machine, brake the tractor and stop the engine.

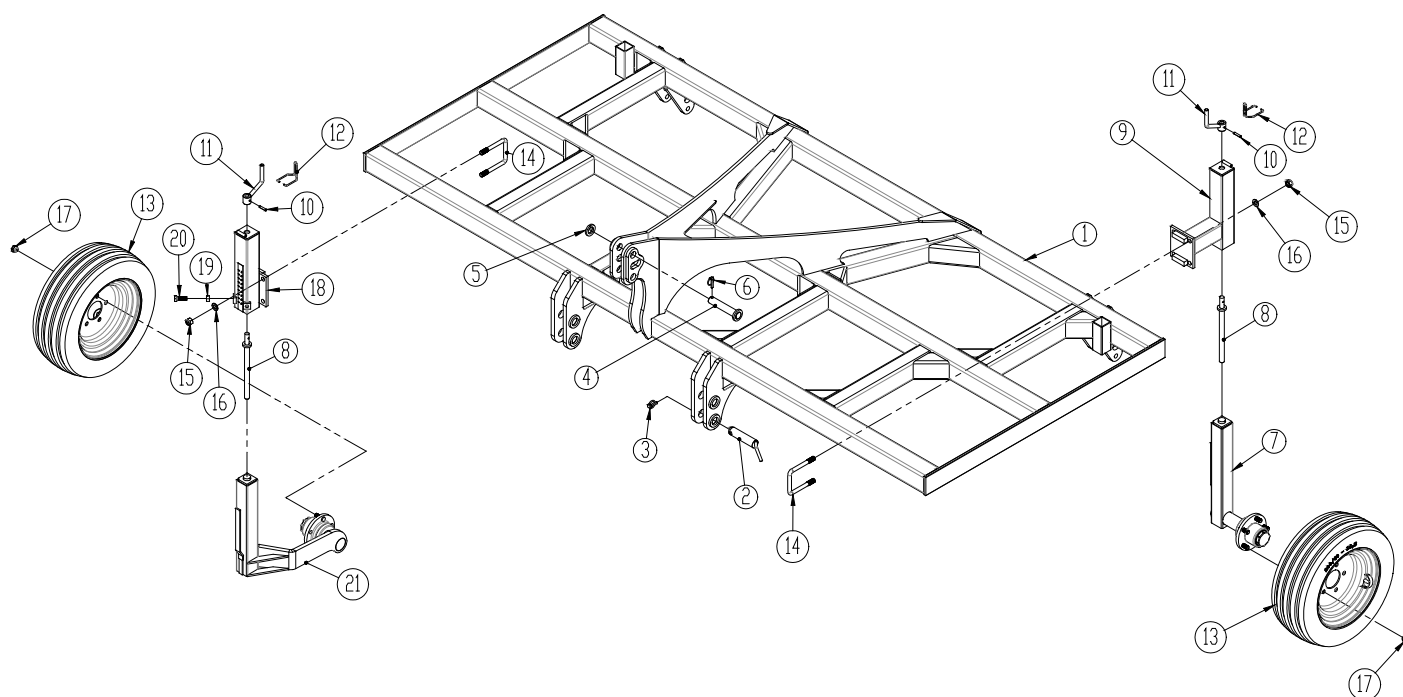
Typical lubricating points are located around the spindle and the brackets for the levelling bar. The points must be lubricated every 50 hours of operation, as well as after cleaning in order to drive out any water or dirt.

X = Lubrication point



Spare parts

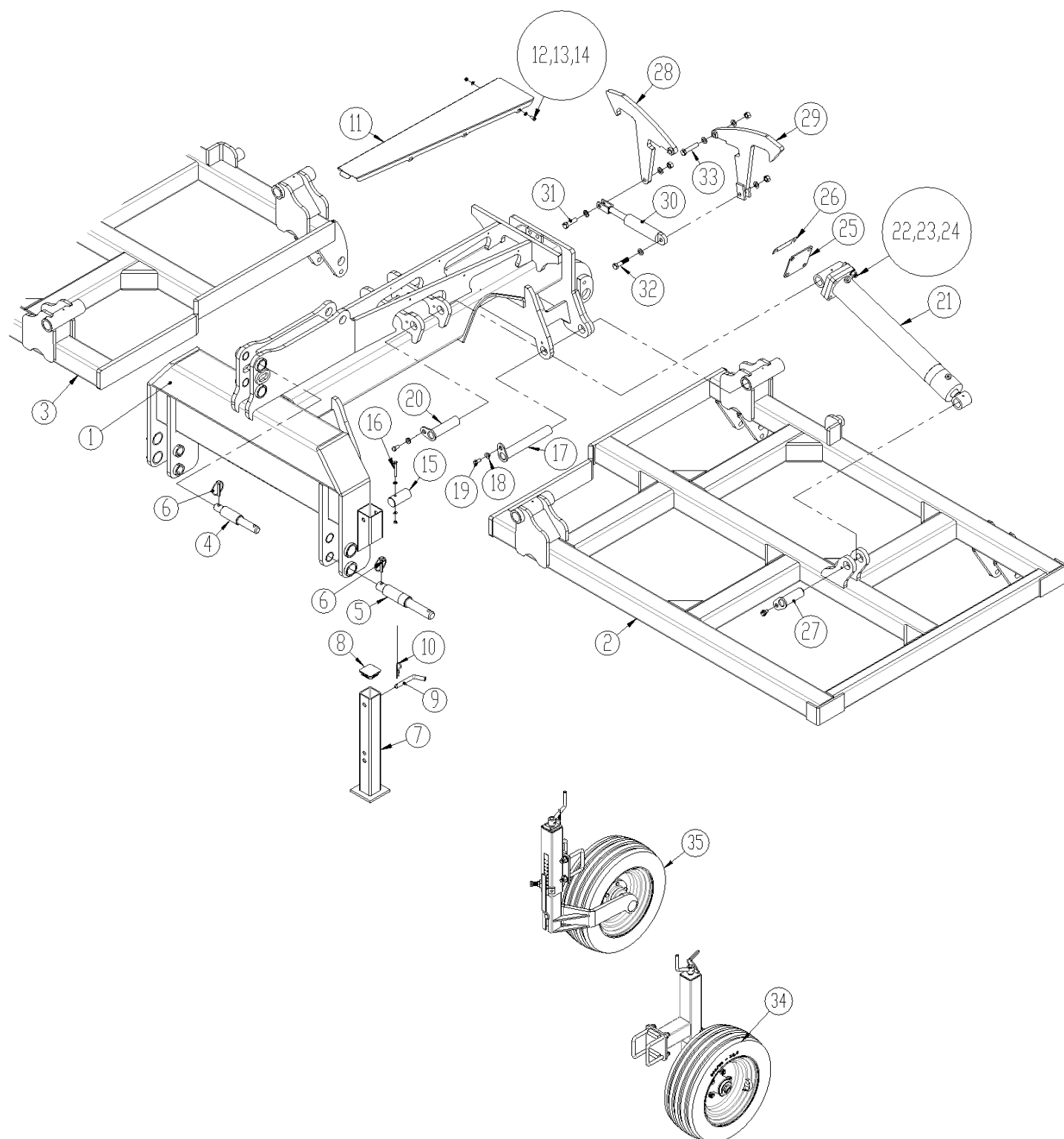
Frame 2,5m – 4m rigid



Pos.	Item no.	Designation	2,5m	3m	3,5m	4m
1	1160912	Frame	1			
	1160751	Frame		1		
	1160752	Frame			1	
	1160753	Frame				1
2	1140600	Pin Ø37x150	2	2	2	2
3	0378650	Ring split Ø10x42	2	2	2	2
4	1140361	Pin Ø32x175	1	1	1	1
5	1069950	Disc ø33	1	1	1	1
6	0378600	Ring split Ø11x40	1	1	1	1
7	1160759	Spindle tube with hub (for machine No 32892)	2	2	2	2
7a	0395425	Hub (short shaft)				
7b	0395438	Steel sealing				
7c	0395230	Sealing ring Ø90/55				
7d	0479010	Bearing 30210				

Pos.	Item no.	Designation	2,5m	3m	3,5m	4m
7e	0478900	Bearing 30207				
7f	0395242	Castellated nut m27x1,5mm				
7g	0395436	Hub cap Ø72				
8	1080520	Spindle	2	2	2	2
9	1160762	Spindle tube (left) (for machine No 32892)	1	1	1	1
	1160760	Spindle tube (right) (for machine No 32892)	1	1	1	1
10	0371690	Retaining pin Ø8x40	2	2	2	2
11	1036260	Crank handle	2	2	2	2
12	0431980	Locking hoop	2	2	2	2
13	0395600	Wheel 200/60x14.5-10pr	2	2	2	2
14	690110404	U-bolt M18x100x100x100	4	4	4	4
15	0264100	Self-locking nut M18	8	8	8	8
16	0272300	Facet plate ø18	8	8	8	8
17	0395291	Wheel nut M16x1,5 R19	12	12	12	12
18	1160788	Spindle tube (left and right) (from machine No 32893)	2	2	2	2
19	0261392	Nut M16	2	2	2	2
20	0235800	Bolt M16x45mm	2	2	2	2
21	1160790	Spindle tube with hub (right) (from machine No 32893 to 37878)	1	1	1	1
	1160801	Spindle tube with hub (left) (from machine No 32893 to 37878)	1	1	1	1
	1161088	Spindle tube with hub (from machine No 37879)	2	2	2	2
21a	0395425	Hub (short shaft)				
21b	0395438	Steel sealing				
21c	0395230	Sealing ring Ø90/55				
21d	0479010	Bearing 30210				
21e	0478900	Bearing 30207				
21f	0395242	Castellated nut m27x1,5mm				
21g	0395436	Hub cap Ø72				

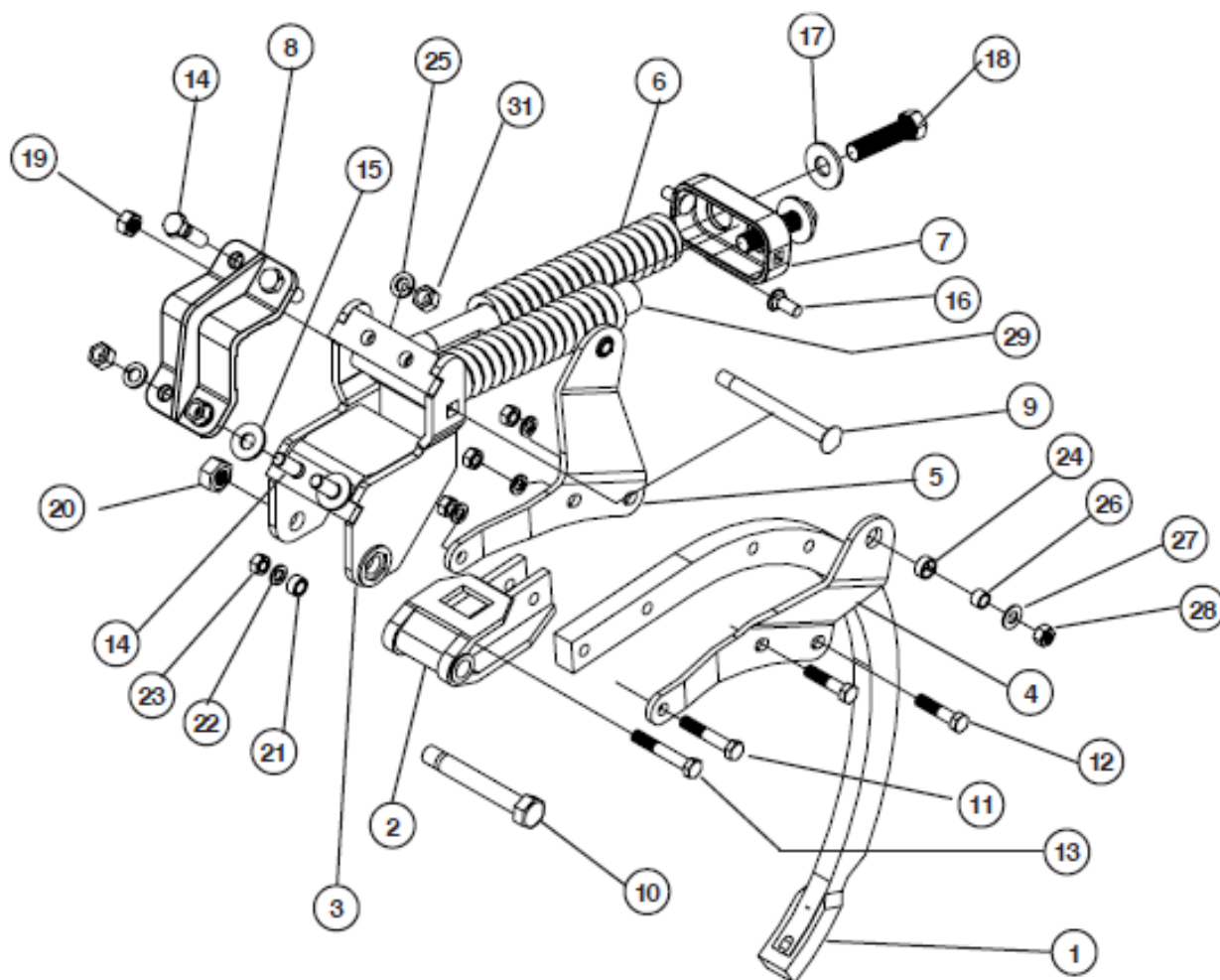
Middle frame and side section 4m – 6m (hydraulic)



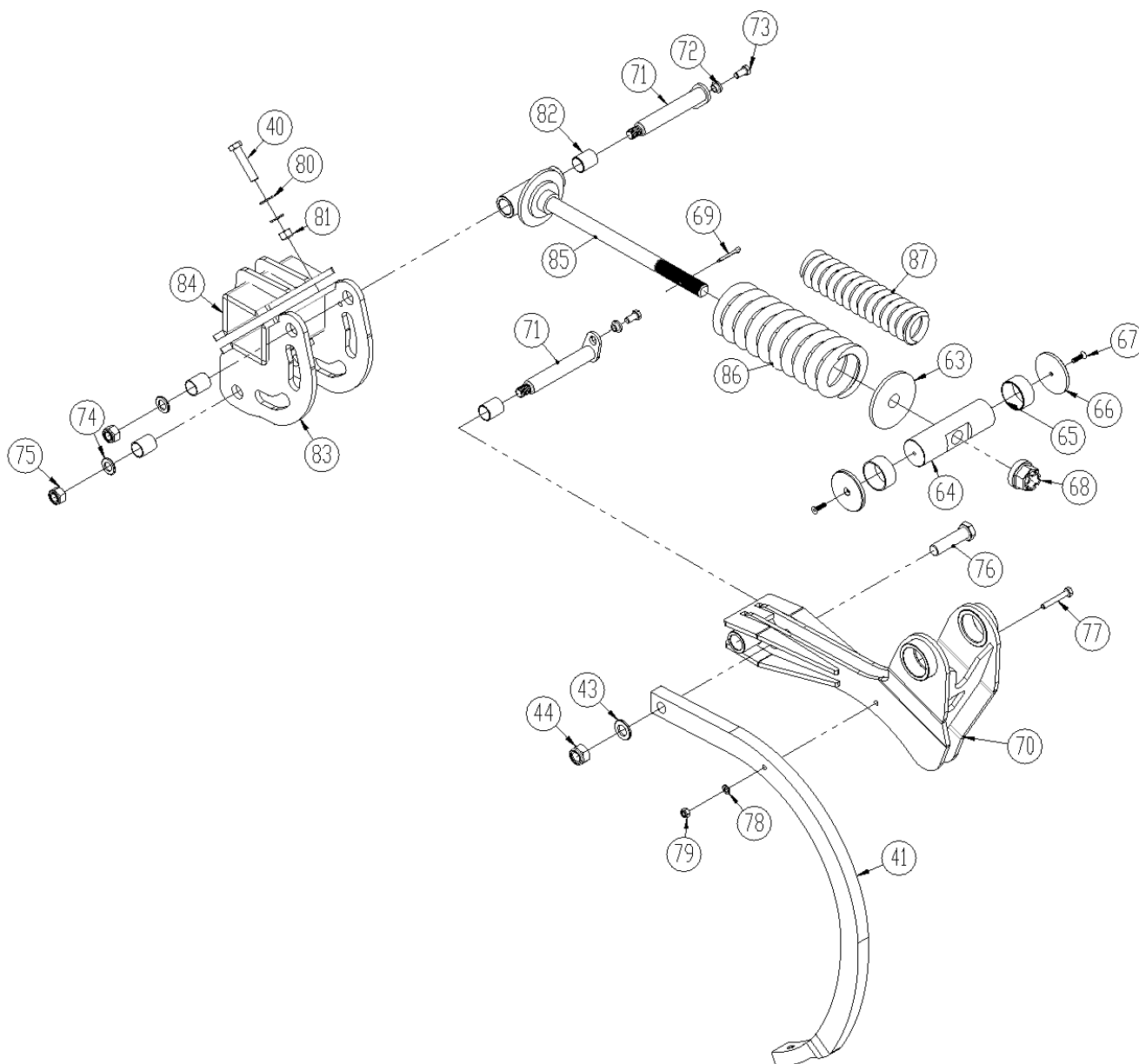
Pos.	Item no.	Designation	4m	5m	6m
1	1161230	Middle frame	1	1	1
2	1161348	Side section, left	1		
	1161293	Side section, left		1	
	1161295	Side section, left			1
3	1161347	Side section, right	1		
	1161292	Side section, right		1	
	1161294	Side section, right			1
4	69532095C	Pin for top link	1	1	1
5	69537125C	Pin for lift arm	2	2	2
6	690134008	Ring pin, Ø11,5mm Ø60 ring	3	3	3
7	1160274	Support leg	4	4	4
8	0489610	Plastic stopper	4	4	4
9	1030280	Pin Ø16 L=94	4	4	4
10	0377400	R-clip Ø4	4	4	4
11	1161241	Screen	1	1	1
12	0234750	Bolt M8x20	6	6	6
13	0272250	Facet plate Ø8mm	16	16	16
14	0264050	Self-locking nut M8	8	8	8
15	1140951	Pin f/wing	2	2	2
16	0234833	Bolt M8x70mm	2	2	2
17	69440280G	Pin Ø40 L=280	4	4	4
18	630532600	Lock bush	8	8	8
19	690101101	Bolt M12x25	8	8	8
20	69440195G	Pin ø40 L=195	2	2	2
21	0466500	Cylinder 90/40x600	2	2	2
22	690103200	Bolt M16x70 8.8	8	8	8
23	0272290	Facet plate 16mm	24	24	24
24	0264090	Self-locking nut M16	12	12	12
25	645000382	Shim			
26	645000397	Shim			
27	69440115G	Pin Ø40 L=115	2	2	2
28	1160276	Mounted check pawl, right	1	1	1
29	1160193	Mounted check pawl, left	1	1	1
30	690200170	Cylinder 40/25x 80mm	1	1	1
31	690103133	Bolt M16x60	1	1	1
32	690103130	Bolt M16x70 10.9	1	1	1
33	690103135	Bolt M16x80	2	2	2
34		See pos. 7 page 12			
35		See pos. 21 page 12	2	2	4

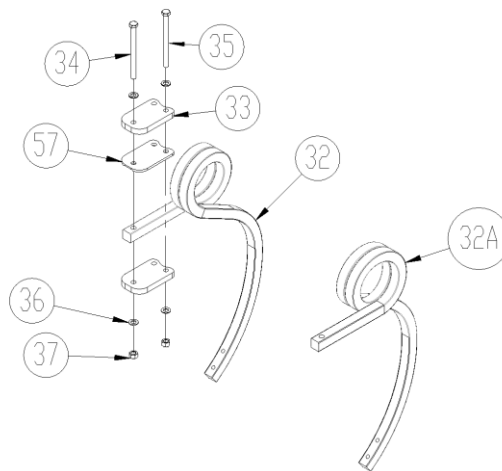
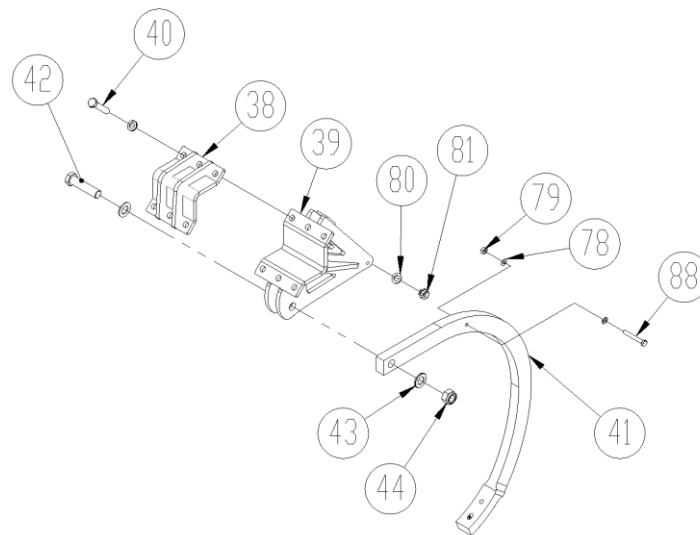
Tine/point

Automatic tine NO 0424300 (to machine No 38547)

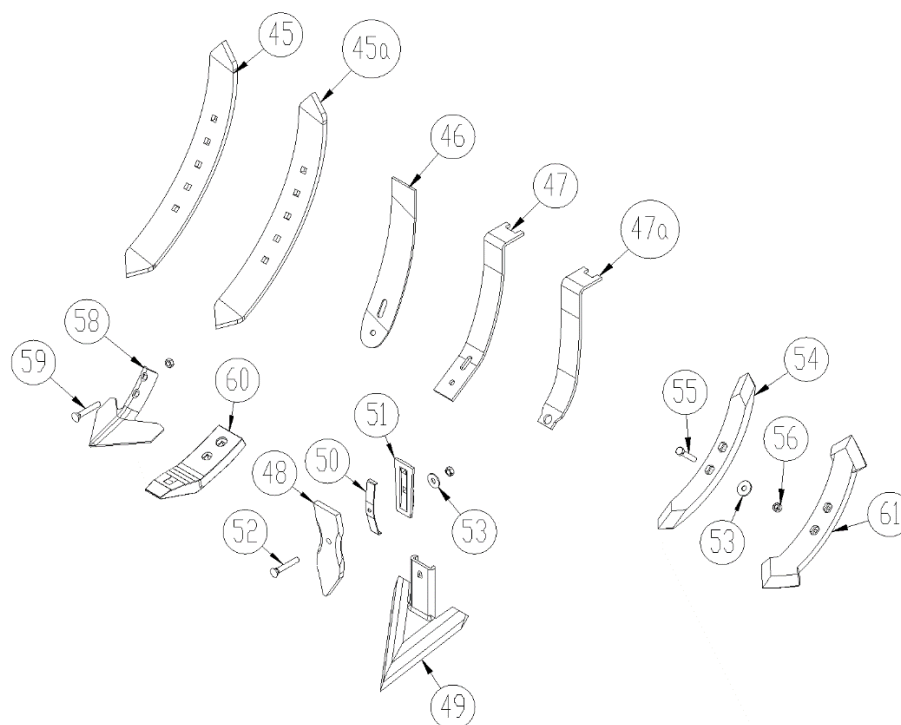


Automatic tine NO 1160504 (from machine No 38548)



Spring tine**Tine w/shear bolt**

Point



Pos.	Item no.	Designation	No. per tine 2,5-3,5m	No. per tine 4m-6m
	0424300	Automatic tine, complete (page 14)		
	1160504	Automatic tine, complete (page 15)		
1	0424601	Shank	1	1
2	0424602	Holder for shank	1	1
3	0424603	Tine attachment (before aug 2013)	1	1
	0424630	Tine attachment (from aug 2013)	1	1
4	0424604	Side plate for shank, Left (before aug 2013)	1	1
	0424631	Side plate for shank, Left (from aug 2013)	1	1
5	0424605	Side plate for shank, Right (before aug 2013)	1	1
	0424632	Side plate for shank, Right (from aug 2013)	1	1
6	0424606	Spring	2	2
7	0424607	Spring retainer	1	1
8	0424608	Clamping bracket	1	1
9	0424609	Carrier bolt 3/4NC-2A (before aug 2013)	1	1
	0424633	Bolt 3/4NC x 8,13IN (from aug 2013)	1	1
10	0424610	Pivot bolt (before aug 2013)	1	1
	0424634	Bolt 1 IN NC x 7,35IN (from aug 2013)	1	1

Pos.	Item no.	Designation	No. per tine 2,5-3,5m	No. per tine 4m-6m
11	0424611	Bolt 5/8NCx4	1	1
12	0424612	Bolt 5/8NCx2-3/4	2	2
13	0424613	Bolt 5/8NCx3-1/2	1	1
14	0424614	Bolt 3/4NCx2-1/4	4	4
15	0424615	Facet plate 3/4	2	2
16	0424616	Carrier bolt 5/8NCx1-1/2	2	2
17	0424617	Facet plate 1/1	2	2
18	0424618	Steel bolt 1NCx4	2	2
19	0424619	Steel nut 3/4	1	1
20	0424620	Steel nut 1/1	1	1
21	0424621	Distance bush 9/16x1	2	2
22	0424622	Facet plate 5/8	4	4
23	0424623	Steel nut 5/8	4	4
24	0424624	Bush	2	2
25	0424625	Facet plate 3/4	4	4
26	0424626	Bush	2	2
27	0424627	Facet plate 3/8	2	2
28	0424628	Steel nut 5/8 (before aug 2013)	1	1
	0424635	Steel nut 5/8 (from aug 2013)	1	1
29	0424629	Spring bracket	2	2
31	0424619	Steel nut 3/4 (before aug 2013)	2	2
	0424636	Steel nut 3/4 (from aug 2013)	2	2
32	0424250	Tine, double-twisted 35x35 mm (R)	1	
32A	0424252	Tine, double-twisted 35x35 mm (L)	1	
32	0424250	Tine, double-twisted 35x35 mm (R) (for machine. No 37528)		1
32A	0424252	Tine, double-twisted 35x35 mm (L) (for machine No 37528)		1
	0424260	Tine, double-twisted 40x40mm (R) (from machine No 37529)		1
33	1160745	Bracket for spring 35x35 tine	2	
	1160745	Bracket for spring 35x35 tine (for machine No 37528)		2
	1160942	Bracket for spring 40x40 tine (from machine No 37529)		2
34	0235991	Bolt M16x200 10.9 (for machine No 37707)	1	
	0235995	Bolt M16x210 10.9 (from machine No 37708)	1	
	0235991	Bolt M16x200 10.9 (for machine No 37528)		1
	0236290	Bolt M20x220 10.9 (from machine No 37529)		1
35	0235991	Bolt M16x200 10.9 (for machine No 37707)	2	
	0235995	Bolt M16x210 10.9 (from machine No 37708)	2	
	0235991	Bolt M16x200 10.9 (for machine No 37528)		2
	0236011	Bolt M16x220 10.9 (from machine No 37529)		2
36	0272290	Facet plate Ø16	6	
	0272290	Facet plate Ø16 (for machine No 37528)		6
	0272290	Facet plate Ø16 (from machine No 37529)		4
	0272310	Facet plate Ø20 (from machine No 37529)		2
37	690113017	Lock nut M16	3	
	690113017	Lock nut M16 (for machine No 37528)		3

Pos.	Item no.	Designation	No. per tine 2,5-3,5m	No. per tine 4m-6m
	690113017	Lock nut M16 (from machine No 37529)		2
	0263000	Lock nut M20 (from machine No 37529)		1
38	1160501	Upper part for tine holder	1	1
39	1160455	Lower part for tine holder	1	1
40	0235870	Bolt M16x75	6	6
41	1160450	Tine	1	1
42	0236410	Bolt M24x100	1	1
43	0272330	Facet plate Ø24	2	2
44	0264130	Lock nut M24	1	1
45	0424330	Point 12,7mm , left	1	1
	0424340	Point 12,7mm, right	1	1
	0424333	Point 12,7mm, hardmetal, left	1	1
	0424343	Point 12,7mm, hardmetal, right	1	1
45a	0424331	Point 19 mm , left	1	1
	0424341	Point 19 mm, right	1	1
46	0424480	Twisted mould board, left	1	1
	0424490	Twisted mould plate, right	1	1
47	1139890	Straight mould plate (35x35 mm spring tine)	1	
	7435000	Straight mould plate (40x40 mm spring tine)		1
47a	7435003	Straight mould plate f/tine Nr 1160450 when point 0424390 is mounted	1	1
	7435001	Straight mould f/ 35x35 spring tine when point 0424390 is mounted	1	1
	7435002	Straight mould f/ 40x40 spring tine when point 0424390 is mounted	1	1
48	0424450	Chisel point, 75 mm	1	1
	0424453	Chisel point, 75mm, w/ hardmetal	1	1
49	0424402	Wing share, 260 mm	1	1
	0424403	Wing share, 260 mm, w/ hardmetal		
50	0424360	Retaining spring	1	1
51	0424350	Adapter	1	1
52	0381300	PB-bolt M12x70 12.9 – w/nut	1	1
53	0272620	Disc Ø13/37x3	2	2
54	0424447	Point 50x25mm	1	1
55	0381290	Bolt M12x65 12.9	2	
	0381290	Bolt M12x65 12.9 (for machine No 37528)		2
	0381300	Bolt M12x70 12.9 (from machine No 37529)		2
56	0261071	Lock nut	2	2
57	1161110	Shims 35x35 tine (from machine No 37708)	1	
	1161105	Shims 40x40 tine (from machine No 37919)		1
58	0424405	Wing share 305mm	1	1
	0424406	Wing share 305mm, w/ hardmetal	1	1
59	0381340	PB-Bolt M12x80 12.9 m/nut	2	2
60	0424390	Point, w/ hardmetal	1	1

Pos.	Item no.	Designation	No. per tine 2,5-3,5m	No. per tine 4m-6m
61	0424380	Reversible point	1	1
63	1068430	Steering washer	1	1
64	1160515	Steering pin	1	1
65	0475176	Slide bearing PCM 606530 E	2	2
66	1160519	Lock washer f. steering pin	2	2
67	0228032	Bolt M8x30mm 10.9 fzb DIN7991	2	2
68	1067650	Nut	1	1
69	0373450	Split ø6,3x50mm	1	1
70	1160598	Arm	1	1
71	1160600	Pin ø30, L=174mm	2	2
72	630532600	Locking bushing	2	2
73	690101101	Bolt M12x25	2	2
74	0272310	Facet plate Ø20	2	2
75	0264110	Lock nut M20	2	2
76	0236400	Bolt M24x 90mm	1	1
77	0235130	Bolt M10x70mm	1	1
78	0272260	Facet plate Ø10	1	1
79	0264060	Lock nut M10	1	1
80	0272290	Facet plate Ø16	12	21
81	0264090	Lock nut M16	6	6
82	0475152	Slide bearing PCM 303440 E	4	4
83	1160597	Lower part for tine holder	1	1
84	1160523	Clamping bracket	1	1
85	1160510	Spring holder	1	1
86	0431560	Pressure spring ø22 x 125 x 390 x 10v	1	1
87	0431530	Pressure spring ø14 x 76 x 380 x 15v	1	1
88	0235140	Bolt M10x75	1	1

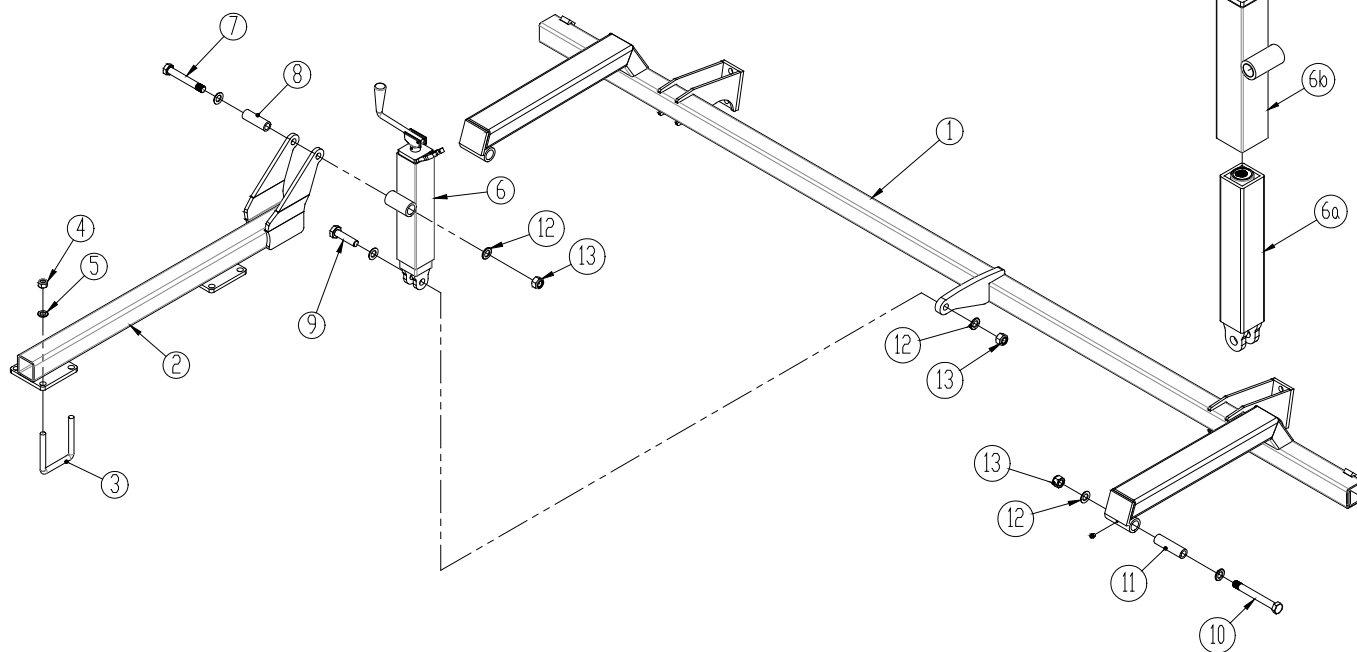
Number of Left/Right teeth per machine

	Total number of teeth	Number of teeth with left point	Number of teeth with right point
Rigid			
2,5m	10	6	4
3m	12	8	4
3,5m	14	9	5
4m	16	10	6
Hydraulic			
4m	16	10	6
5m	20	12	8
6m	24	14	10

Levelling bar (rigid edge equipment)

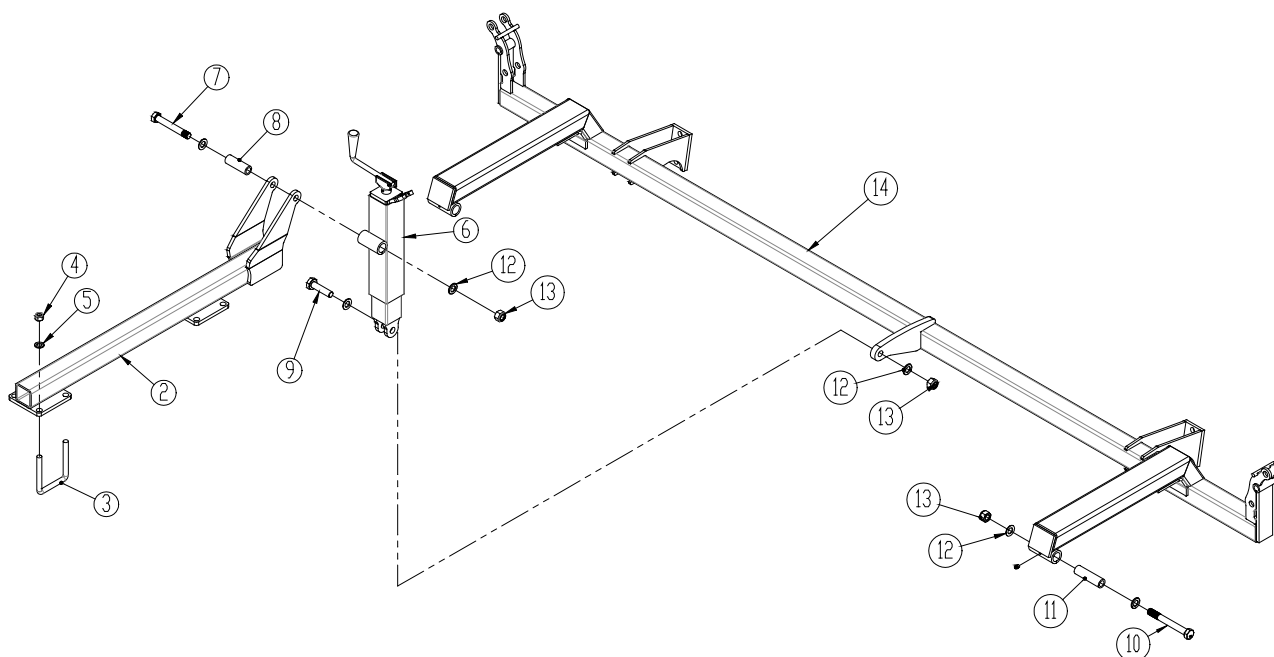
2,5m – 4m rigid (for machine No 33364)

4m – 6 m hydr.

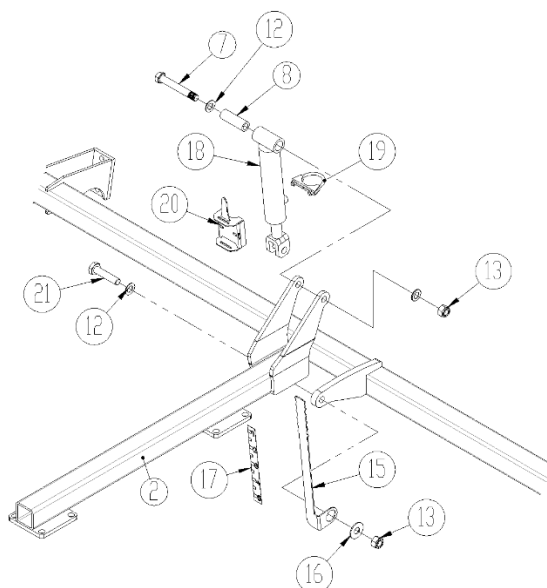


Levelling bar (hydraulic edge equipment)

2,5m – 4m rigid (from machine No 33365)



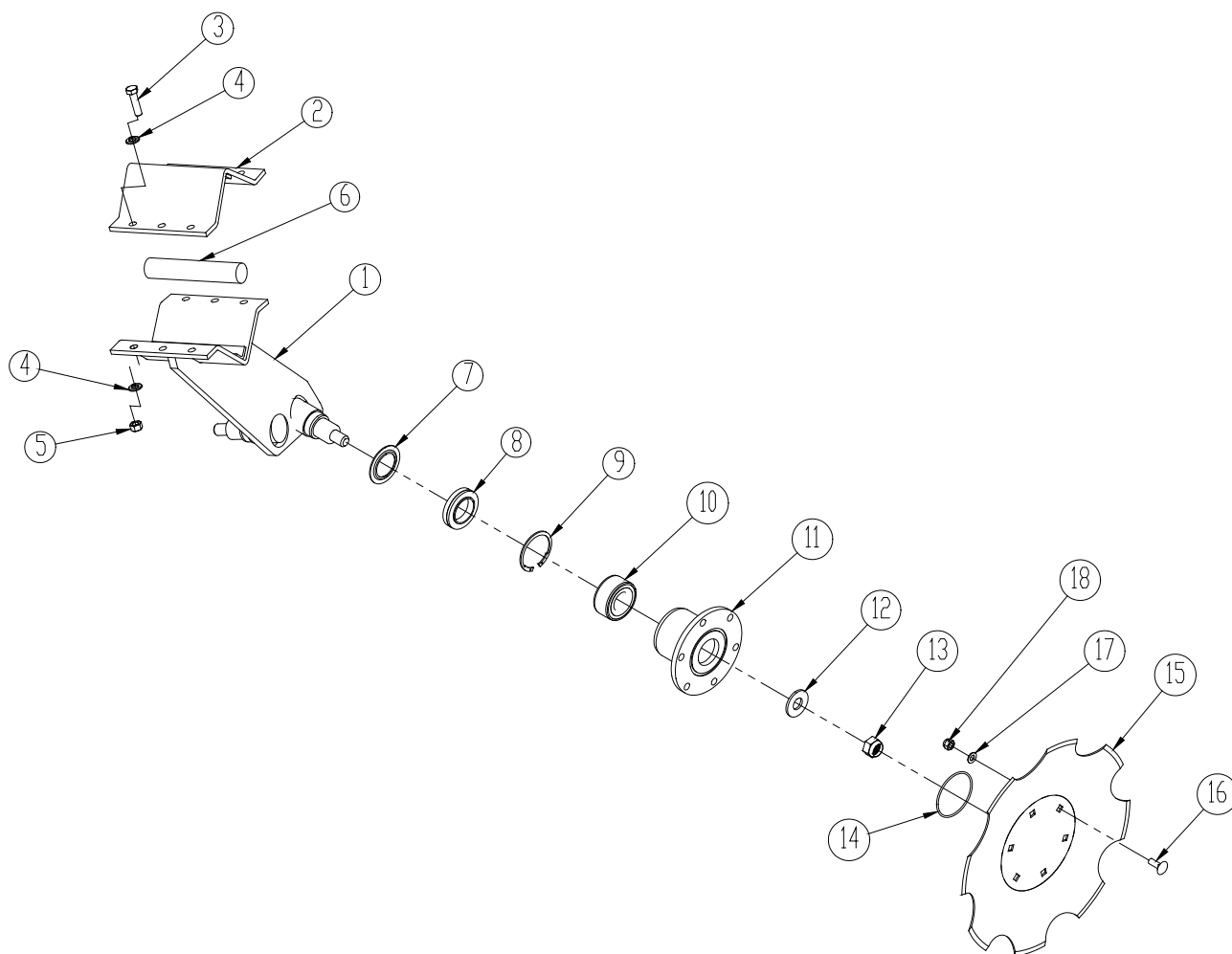
Hydraulic lift levelling bar



Pos.	Item no.	Designation	2,5m	3m	3,5m	4m	4m hydr	5m hydr	6m hydr
1	1160742	Levelling bar (for machine No 33364)		1					
	1160650	Levelling bar (for machine No 33364)			1				
	1160743	Levelling bar (for machine No 33364)				1			
	1161349	Levelling bar (L)					1		
	1161350	Levelling bar (R)					1		
	1160937	Levelling bar (L)						1	
	1160930	Levelling bar (R)						1	
	1160842	Levelling bar (L)							1
	1160847	Levelling bar (R)							1
2	1160653	Spindle bracket	1	1		2			
	1160653	Spindle bracket (for machine No 37701)			1				
	1160653	Spindle bracket (from machine No 37702)			2				
	1160851	Spindle bracket					2	2	2
3	0382160	U-bolt M16x100x100x100	4	4	4	8	8	8	8
	0382160	U-bolt M16x100x100x100 (from machine No 37702)			8				
4	0264090	Self-locking nut M16	12	12	12	24	24	24	24
	0264090	Self-locking nut M16 (from machine No 37702)			24				
5	0272290	Facet plate Ø16	8	8	8	16	16	16	16
	0272290	Facet plate Ø16 (from machine No 37702)			16				
6	1160325	Spindle	1	1		2	2	2	2
	1160325	Spindle (for machine No 37701)			1				

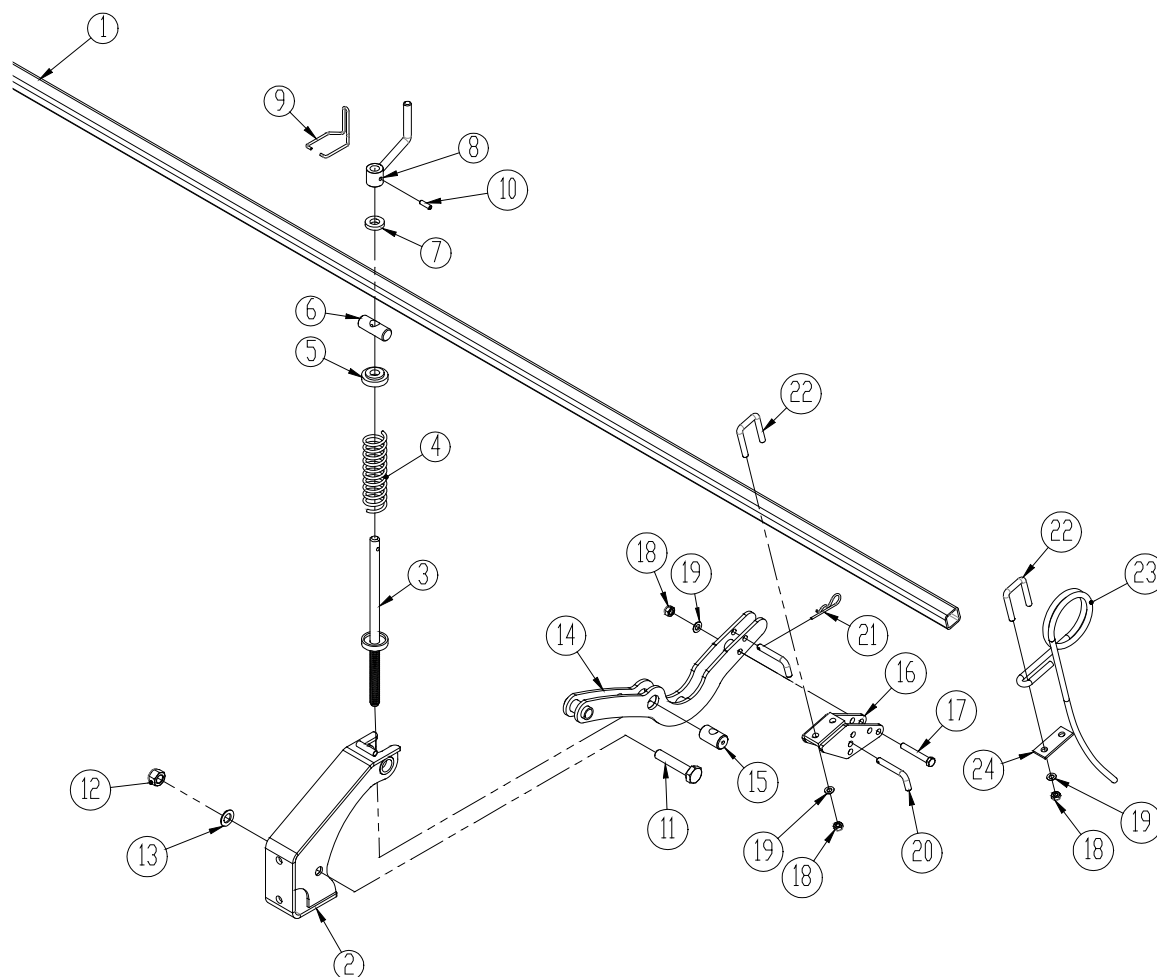
Pos.	Item no.	Designation	2,5m	3m	3,5m	4m	4m hydr	5m hydr	6m hydr
	1160325	Spindel (from machine No 37702)			2				
6a	7385001	Inner pipe							
6b	7385000	Outer pipe							
6c	690304101	Spindle Tr28x5 L=410							
6d	0371660	Retaining pin Ø8x30mm							
6e	690304102	Crank handle							
7	0236230	Bolt M20 x 140mm	1	1	1	2	2	2	2
	0236230	Bolt M20 x 140mm (from machine No 37702)			2				
8	675101006	Bush 30x5 L=89	1	1	1	2	2	2	2
	675101006	Bush 30x5 L=89 (from machine No 37702)			2				
9	0236170	Bolt M20 x 80mm	1	1	1	2	2	2	2
	0236170	Bolt M20 x 80mm (from machine No 37702)			2				
10	0236260	Bolt M20 x 170mm	2	2	2	2	4	4	4
11	1160560	Bush 30x5 L=108	2	2	2	2	4	4	4
12	0272310	Facet plate Ø20	8	8	8	12	16	16	16
	0272310	Facet plate Ø20 (from machine No 37702)			12				
13	0264110	Self-locking nut M20	4	4	4	6	8	8	8
	0264110	Self-locking nut M20 (from machine No 37702)			6				
14	1160915	Levelling bar	1						
	1160781	Levelling bar (from machine No 33365)		1					
	1160774	Levelling bar (from machine No 33365 for 37701)			1				
	1161106	Levelling bar (from machine No 37702)			1				
	1160803	Levelling bar (from machine No 33365)				1			
15	1165369	Indicator f/depth control	1	1	1	1	1	1	1
16	1165377	Plate	1	1	1	1	1	1	1
17	0652560	Transfer	1	1	1	1	1	1	1
18	7345202	Cylinder	1	1	2	2	2	2	2
19	73550002	Pipe Clamp 60	1	1	1	1	1	1	1
20	1165370	Bracket f/depth indicator	1	1	1	1	1	1	1
21	0236180	Bolt M20 x 90mm	1	1	2	2	2	2	2

Eradicator disc



Pos.	Item no.	Designation	2,5m	3m	3,5m	4m	4m hydr	5m hydr	6m hydr
1	1139870	Carrier arm (R + L)	3	3	3	5	5	7	7
	1139871	Carrier arm (R)			1				1
	1139872	Carrier arm (L)			1				1
2	30949046	Clamping plate	3	3	5	5	5	7	9
3	690103091	Steel bolt M12x45 10.9	18	18	30	30	30	42	54
4	0272270	Facet plate M12	36	36	60	60	60	84	108
5	0264070	Self-locking nut M12	18	18	30	30	30	42	54
6	690210710	Rubber cord	12	12	20	20	20	28	36
7	630949019	Disc Ø45/71,7	6	6	8	10	10	14	16
8	690140651	Seal Ø72	6	6	8	10	10	14	16
9	0379253	Seeger circlip ring I Ø72	6	6	8	10	10	14	16
10	690140199	Bearing Ø35	6	6	8	10	10	14	16
11	30949030	Hub	6	6	8	10	10	14	16
12	690117062	Disc Ø20	6	6	8	10	10	14	16
13	0263000	Lock nut M20	6	6	8	10	10	14	16
14	0483738	O-ring ø 84,5 x 3mm	6	6	8	10	10	14	16
15	0427791	Serrated disc Ø410 with 6 holes	6	6	8	10	10	14	16
16	0248421	Carrier bolt M10x30	36	36	48	60	60	84	96
17	0272260	Facet plate Ø10	36	36	48	60	60	84	96
18	0264060	Self-locking nut M10	36	36	48	60	60	84	96
	1139860	Complete carrier arm (R +L)	-	-	-	-	-	-	-
	1139861	Complete carrier arm (R)	-	-	-	-	-	-	-
	1139862	Complete carrier arm (L)	-	-	-	-	-	-	-
	630949035	Repair outfit/conversion set incl. hub (no: 7 – 14)	-	-	-	-	-	-	-

Long finger harrow

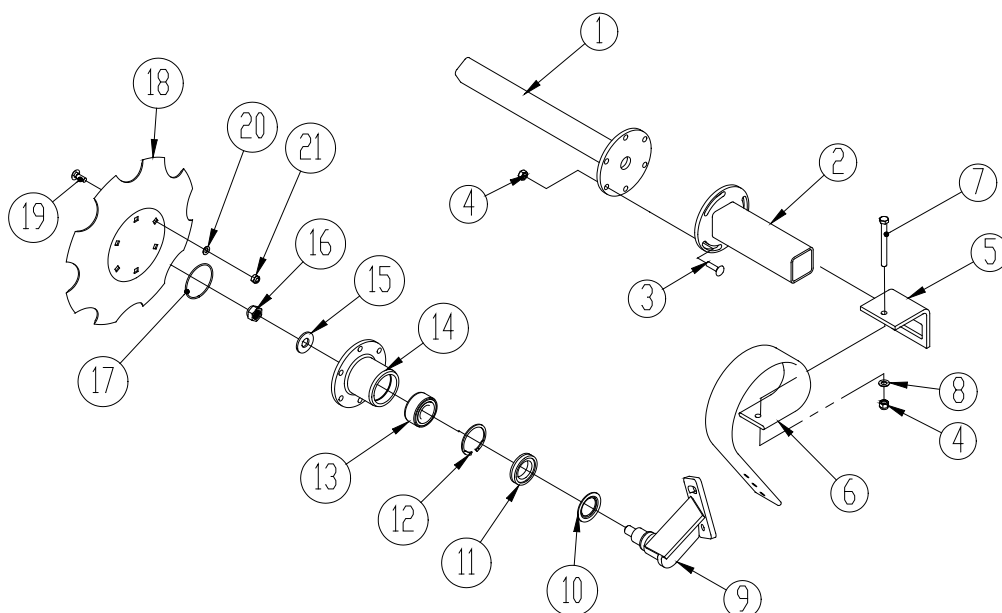


Pos.	Varenr.	Betegnelse	2,5m	3m	3,5m	4m	4m hydr	5m hydr	6m hydr
1	1117734	Bar 2250mm (before Nov 2020)	1						
	1141008	Bar 2485mm (from Nov. 2020)	1						
	1170122	Bar 2790mm (before Nov 2020)		1					
	1140910	Bar 2990mm (from Nov.ov 2020)		1					
	1140422	Bar 3005mm (before Nov 2020)			1				
	1140899	Bar 3485mm (from Nov.2020)			1				
	1141028	Bar 3735mm (before Nov 2020)				1			
	1160769	Bar 3985mm (from Nov.2020)				1			
	1141123	Bar 1985mm					2		
	1141008	Bar 2485mm						2	
	1140471	Bar 2950mm							2
2	1160739	Slideway	2	2	2	2	4	4	4
3	1170467	Spindle	2	2	2	2	4	4	4
4	0431250	Pressure spring	2	2	2	2	4	4	4
5	1170460	Plate	2	2	2	2	4	4	4
6	1011470	Bearing f/spindle	2	2	2	2	4	4	4
7	1011410	Stop ring	2	2	2	2	4	4	4
8	1036260	Crank handle	2	2	2	2	4	4	4
9	0431980	Locking hoop	2	2	2	2	4	4	4
10	0371660	Retaining pin Ø8x32mm	2	2	2	2	4	4	4
11	0236190	Bolt M20x100	2	2	2	2	4	4	4
12	0264110	Self-locking nut M20	2	2	2	2	4	4	4
13	0272310	Facet plate Ø20	2	2	2	2	4	4	4
14	1160741	Arm f/after-harrow	2	2	2	2	4	4	4
15	1012300	Spindle nut	2	2	2	2	4	4	4
16	1170469	Adjusting unit	2	2	2	2	4	4	4
17	0235440	Bolt M12x80	2	2	2	2	4	4	4
18	0264070	Self-locking nut M12	44	52	60	70	70	82	100
19	0272270	Facet plate Ø12	44	52	60	70	70	82	98
20	1170478	Pin Ø12	2	2	2	2	2	2	2
21	0377400	R-clip Ø4	2	2	2	2	2	2	2
22	0382120	U-bolt M12x40x40x40	21	25	29	34	34	39	48
23	0426125	Long finger tin	19	23	27	32	32	39	46
24	1012520	Clamping plate	19	23	27	32	32	39	46

Edge equipment

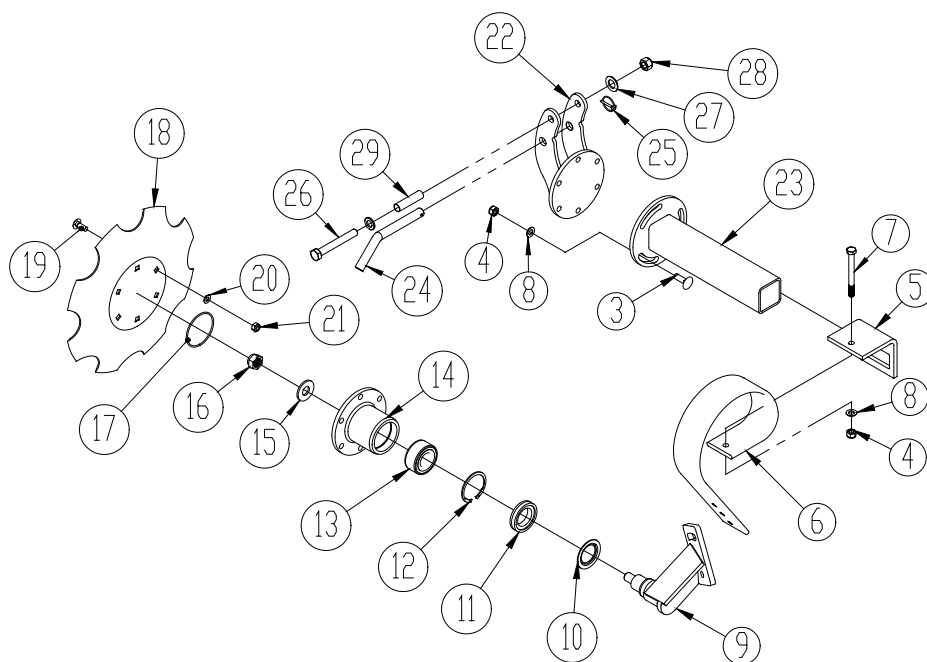
2,5m – 4m rigid (for machine No 33364)

4m – 6 m hydr.



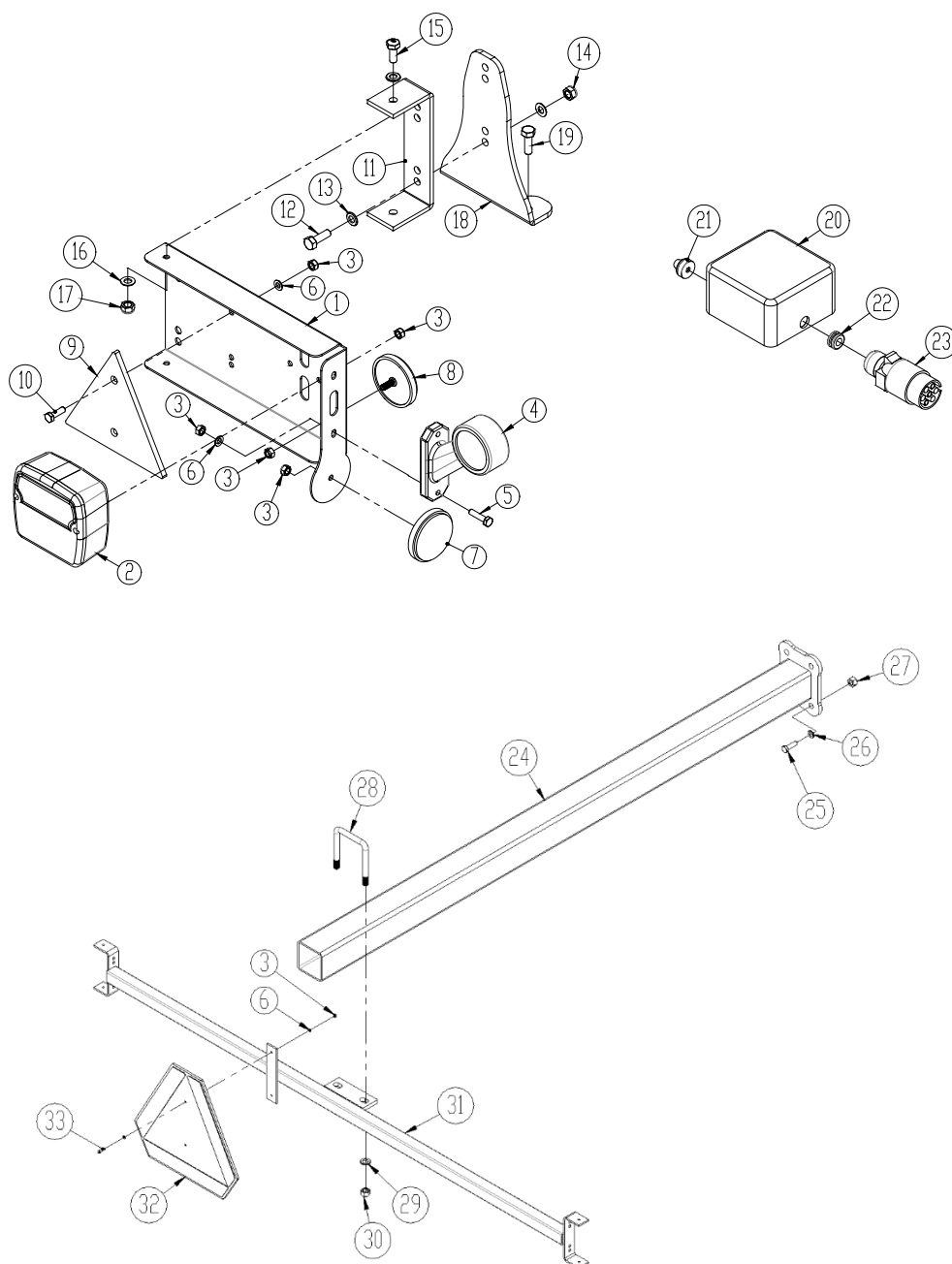
Edge equipment

2,5m – 4m rigid (from machine No 33365)



Pos.	Item no.	Designation	No.
1	1139830	Inner tube f/edge equipment (for machine No 33364)	2
2	1139800	Outer tube f/edge equipment (for machine No 33364)	2
3	0248660	Carrier bolt M12x40mm	6
4	0264070	Nut M12	8
5	0422390	Tine holder f/ 80x10 mm tine	2
6	0422144	Tine 80x10mm	2
7	0235480	Bolt M12x120mm	2
8	0272270	Facet plate Ø12	8
9	1139850	Bracket w/axle (right)	1
	1139840	Bracket w/axle (left)	1
10	630949019	Disc Ø45/71,7	2
11	690140651	Seal Ø72	2
12	0379253	Seeger circlip ring I Ø72	2
13	690140199	Bearing Ø35	2
14	30949030	Hub	2
15	690117062	Disc Ø20	2
16	0263000	Lock nut	2
17	0483738	O-ring ø 84,5 x 3mm	2
18	0427791	Serrated disc Ø400x5,0 mm	2
19	0248421	Carrier bolt M10x30mm	12
20	0272260	Facet plate Ø10	12
21	0264060	Self-locking nut M10	12
22	1160786	Bracket (right) (from machine No 33365)	2
23	1160772	Outer tube f/edge equipment (from machine No 33365)	2
24	1141072	Pin Ø20 L=125mm	2
25	0378200	Ring split Ø4,5	2
26	0235920	Bolt M16x120	2
27	0272290	Facet plate Ø16	4
28	0264090	Self-locking nut M16	2
29	1160924	Bush	2

LED-Lights

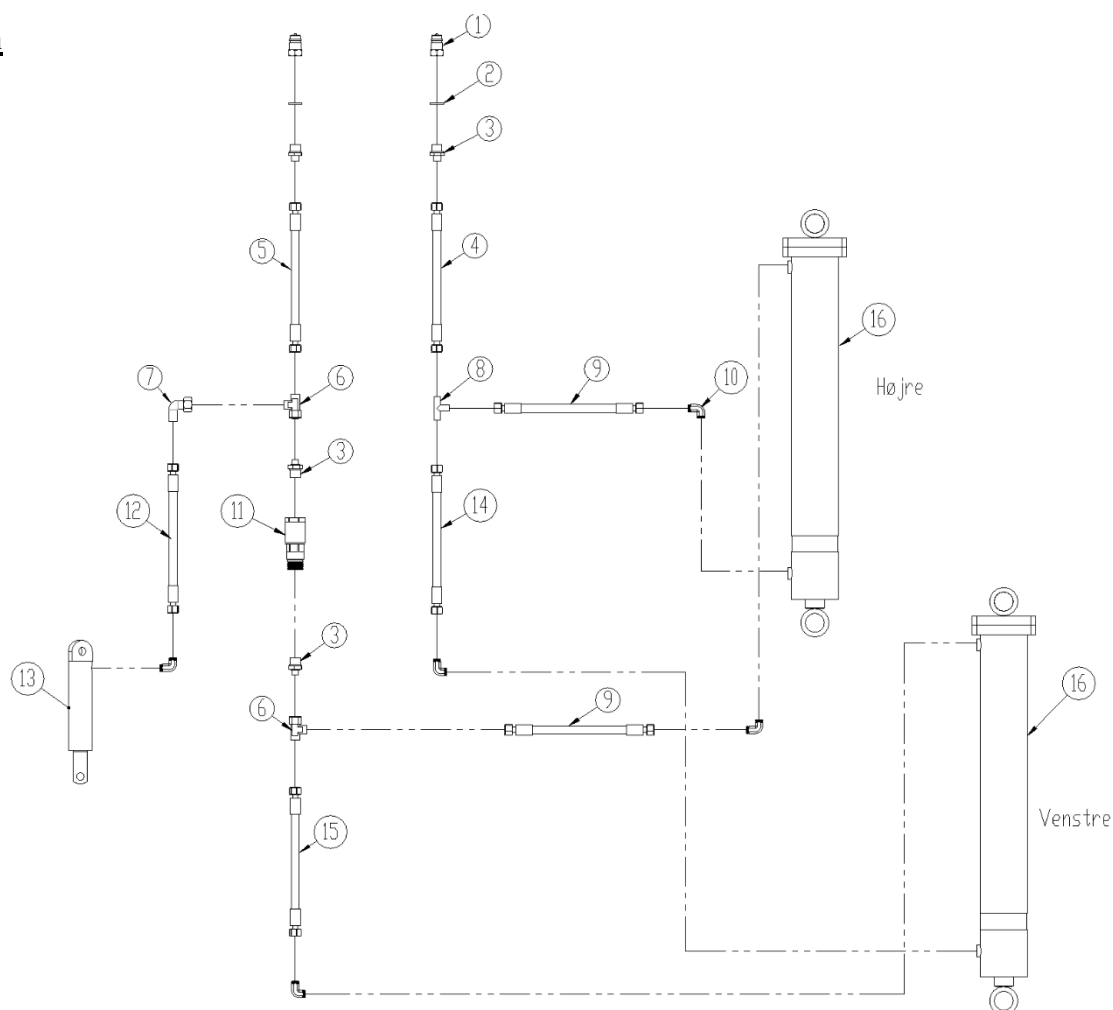


Pos.	Item no.	Designation	2,5m-4m rigid	4m-6m hydr.
1	7357505	Light bracket, left	1	1
	7357508	Light bracket, right	1	1
2	7357504	Rear light	2	2
3	0264030	Self-locking nut M5		
4	7357507	Marking lights (V)	1	1
	7357509	Marking lights (H)	1	1

Pos.	Item no.	Designation	2,5m-4m rigid	4m-6m hydr.
5	0233860	Bolt M5x20		
6	0272230	Facet plate Ø5		
7	0656240	Reflex, yellow	2	2
8	0656250	Reflex, white	2	2
9	0521030	Reflex, red	2	2
10	0233860	Bolt M5x20		
11	7357516	Bracket	2	2
12	0234760	Bolt M8x25		
13	0272250	Facet plate Ø8		
14	0264050	Self-locking nut M8		
15	0234330	Bolt M6x20		
16	0272240	Facet plate Ø6		
17	0264040	Self-locking nut M6		
18	30910110	Consol	2	
19	0230825	Taptite bolt M8x25		
20	0520492	Connecting box 105x105x60	1	1
21	7357545	Rutaseal nippel M20 8-12mm	2	2
22	7357546	Rubber bushing	1	1
23	0527140	Plug 7 poles DIN 72 577 – ISO 1724	1	1
	690160080	Cable 5x1mm ²		
24	1160370	Mounting bracket		1
25	0235360	Bolt M12x40		
26	0272270	Facet plate Ø12		
27	0264090	Self-locking nut M12		
28	0382160	U-bolt M16 x 100 x 100 x 100		1
29	0272290	Facet plate Ø16		
30	0264090	Self-locking nut M16		
31	630835020	Lightingbar		1
32	0521010	Warning triangle		1
33	0233860	Bolt M5 x 20mm		

Hydraulics

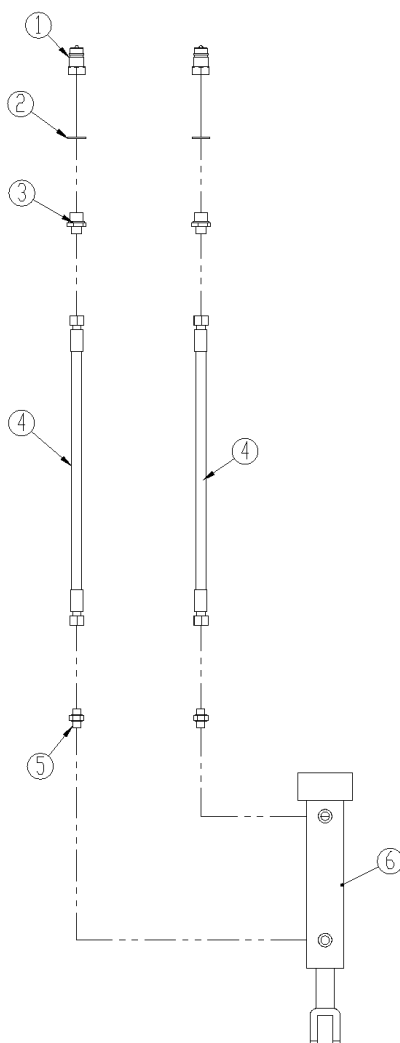
Side section



Pos.	Item no.	Designation	No.
1	0444020	Quick coupling 1/2", male	2
2	0449070	Bounded seals 1/2"	2
3	0446752	Fitting, straight 10-1/2" BSP	2
4	0454660	Hydraulic hose 2450mm 1/4" st/st	1
5	0454645	Hydraulic hose 2300mm 1/4" st/st	1
6	690203014	Fitting T10L	2
7	0446678	Fitting 90angle 10mm	1
8	690203015	Fitting T10	1
9	690201052	Hydraulic hose 935mm 1/4" st/st	2
10	690203006	Fitting, 90angle 10-3/8" BSP	5
11	0442450	Sequential valve, adjustable 1/2" m33X2 (145 bar)	1
12	0454645	Hydraulic hose 2300mm 1/4" st/st	1
13		See pos. 30 page 14	
14	0454441	Hydraulic hose 1460mm 1/4" st/st	1
15	690201009	Hydraulic hose 355mm 1/4" st/st	1
16		See pos. 21 page 14	

Recommends measuring hydraulic hoses before re-ordering

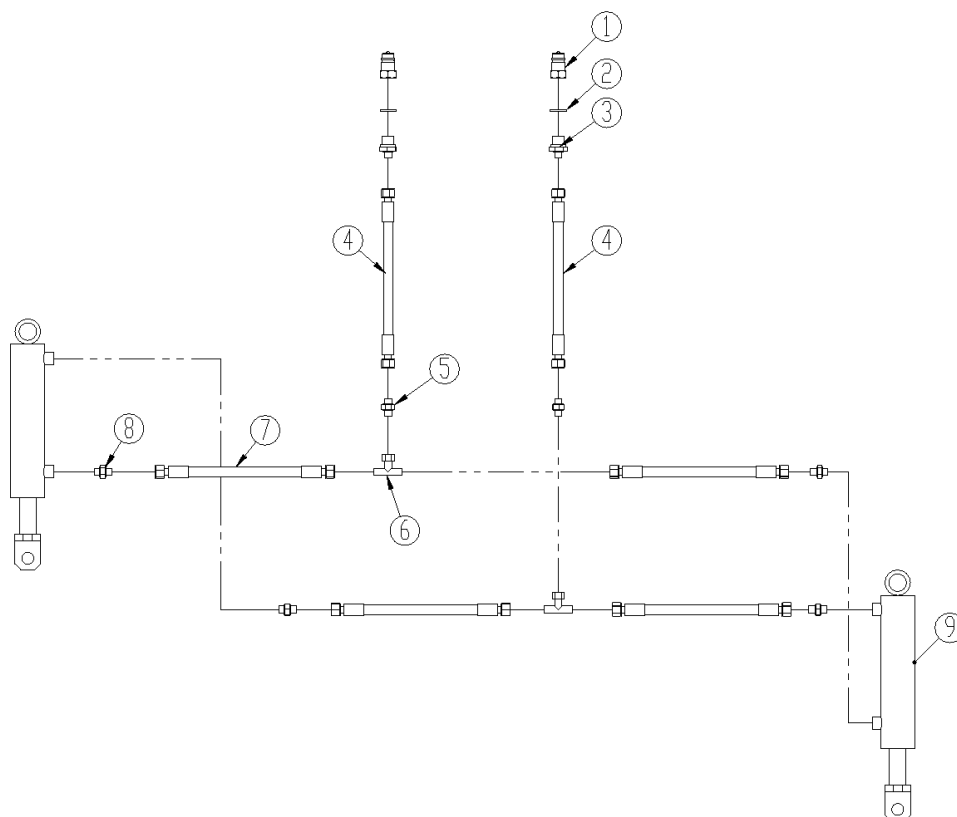
Hydraulic lift, levelling bar 2,5m – 3m



Pos.	Item no.	Designation	No.
1	0444020	Quick coupling ½", male	2
2	0449070	Bounded seals 1/2"	2
3	0444490	Nipple 1/2"x1/4"	2
4	0454920	Hydraulic hose 3350mm1/4" st/90°	2
5	0444500	Nipple 1/4" conical	2
6		See pos. 18 page 24	

Recommends measuring hydraulic hoses before re-ordering

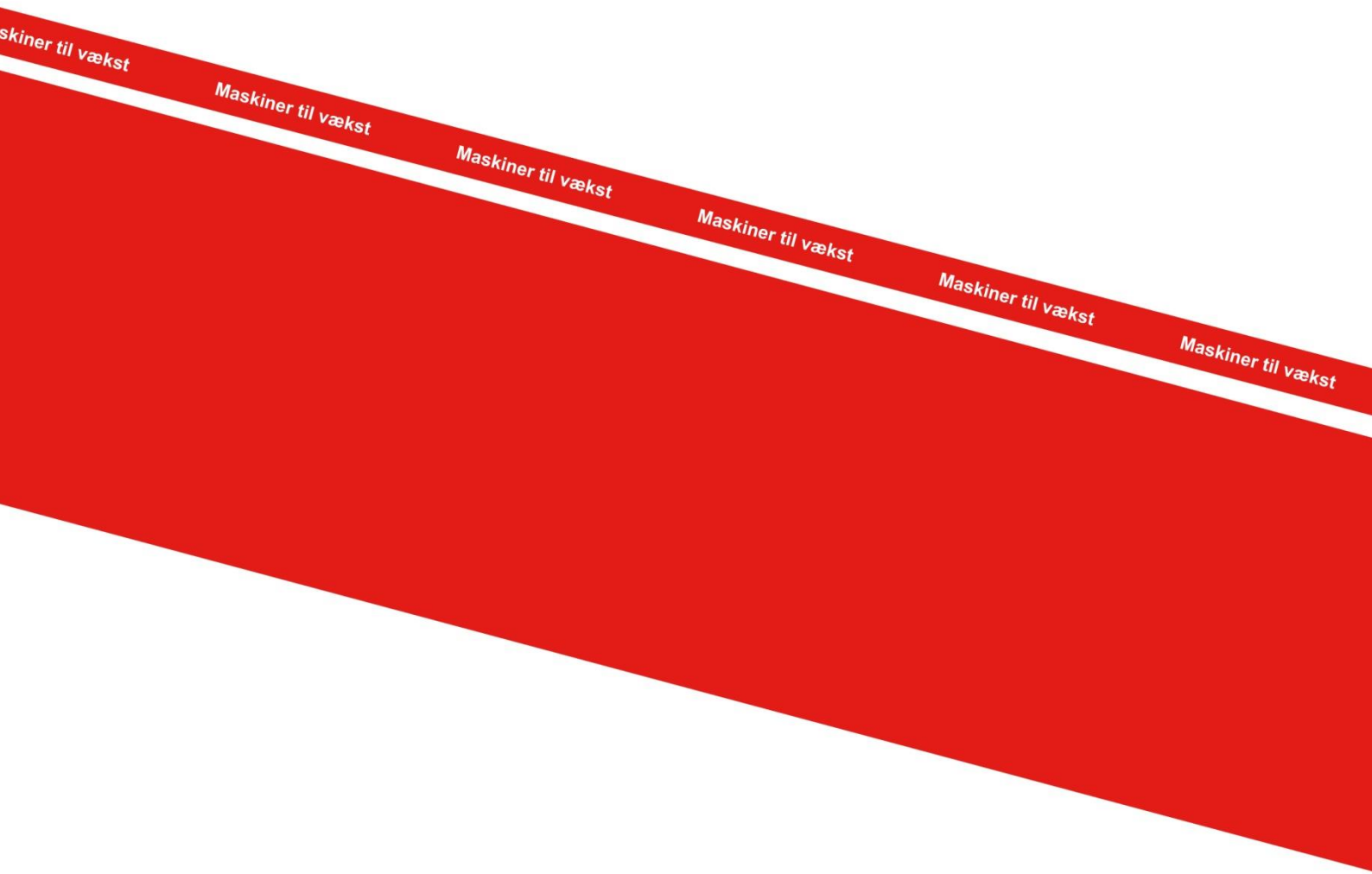
Hydraulic lift, levelling bar 3,5m – 6m



Pos.	Item no.	Designation	No.
1	0444020	Quick coupling ½", male	2
2	0449070	Bounded seals 1/2"	2
3	0444490	Nipple 1/2"x1/4"	2
4	0454645	Hydraulic hose 2300mm 1/4" st/st	2
5	0444501	Nipple 1/4"	2
6	0446610	T-nipple 1/4" with nut	2
7	xxxxxxx	Hydraulic hose xxxx mm 1/4" st/st	4
8	0444500	Nipple 1/4" conical	4
9		See pos. 18 page 24	

Recommends measuring hydraulic hoses before re-ordering

Notes



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