

UK

HE-VA

Operating Instructions
Spare Parts List
Declaration of Conformity



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

Front-Roller

2-section models: 3.00 m

Manual no. 8000431-01 061021



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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.

The declaration comprises the following machines:

Front-Roller
3,0m hydraulic foldable

A handwritten signature in blue ink, appearing to read 'Villy Christiansen', with a horizontal line extending to the right.

Nykøbing the 28th february 2016 Villy Christiansen

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

Delivery Check

Check the Front-Roller for any damage when it is received at either the dealer and the final customer.

Check that the frame construction has not been exposed to impacts.

Check the hydraulic hoses, at hydraulic models, for cuts and squeezing damages. Check also the other hydraulic components, are not damaged during transport.

Machine description

The Front-Roller is a hydraulic foldable model as a 2-section construction.

The machine can be delivered with 11 different ring options.

The machine is delivered as a front mounted model, and some optional accessories are available.

Additional Equipment:

- Frontharrow with spindle adjustment and 12x45 mm tines
- Spring-Board 10x80 mm tines, with mechanical adjustment of hight and hydraulic adjustment of tine angel
- Travers locking system with individual on- and of mounting without tolls
- LED-light bar
- 2 stk. reflex boards
- Stabilization equipment
- Edge equipment
- Easy Change tines for quick replacement
- Top-Cutter

Working with the Front-Roller

The area must be dry and firm to achieve the best result. Drive around wet spots where the machine sinks and works unintentionally.

The speed to be driven should be between 6 - 10 km / h. For solid stones, the speed must be reduced and possibly lift the machine.

Avoid driving over deep tracks in the field that are perpendicular to the direction of travel, with the Front-Roller lowered.

The tractor's lift arms **must always** be in the float position while driving.

The machine support legs **must always** be used when the machine is disconnected. The machine can stand without support legs but is unstable and can tip over with a slight impact.



Technical specifications

Work width	Ringtype	Qty. of rings	Transport width	Weight kg
3,0m hydr. foldable	510 mm/21" Cambr.	53	2,13 meter	1.240
	560 mm/22,5" Cambr.	53		1.410
	620 mm/24" Cambr.	53		1.630
	450/500 mm Star ring	50		1.290
	550/600 mm Star ring	50		1.590
	Twin 450/450 Star ring	35		1.120
	Twin 550/550 Star ring	35		1.300
	485/530 mm Cross-kill	27		1.010
	550/600 mm Cross-kill	27		1.360
	600 mm V-profile ring	23		1.200
	700 mm V-profile ring	18		1.150

Oil pressure	Minimum 170 bar
Hydraulic outlets	1 double acting
Quick couplings, standard	Sterling type E 402
Hydraulic oil: The machine is filled with	Hydro Texaco HD32 Specification DIN 51524-3 / ISO 11158 L-HV

Safety Instructions, regarding Hydraulic System

- The highest allowable pressure is 225 bar.
- It is recommended to mark the hydraulic connections between the implement and tractor, to avoid incorrect operation!
- When checking for hydraulic leaks, suitable safety gear must be used due to danger. (Safety, goggles, gloves, etc.)
At high pressure, hydraulic oil can penetrate the skin and cause serious injuries.
- Before any work at the hydraulic system, the implement must be lowered to solid ground. Pressure must be relieved, engine stopped, and ignition key removed.
- 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.
- Hydraulic hoses last for no more than 5 years.
New hydraulic hoses must be identical to the manufacturer's specifications.



Safety around the Top-Cutter Solo

Do not operate the machine, if any **people**¹ are at risk in the **dangerous area**.²

When persons are at risk in the dangerous area (e.g., when doing adjustments, maintenance or connect or disconnecting), the following points must be met:

- Lower the machine on solid ground.
- Hydraulics must be relieved.
- Tractor must be turned off, and the key removed.
- Driver must be aware, when operating that there is no persons at risk in the dangerous area.
- The machine must not be operated by persons who have not been properly instructed or trained
- He-Va cannot be held responsible for any falling accidents due to washing lubrication and other maintenance tasks

Most accidents when operating the machine, transporting and doing maintenance occurs, when avoiding the simplest safety regulations.

For this reason, it is of highest importance, that any person who is operating the machine, strictly follows the safety regulations and other instructions, which belongs the machine.

The machine must only be operated, maintained, and fixed by persons, who is confident with and skilled for this work and is aware of moments of danger, which can occur.

ATTENTION!! Rotating parts and clothes in a loose condition, is a dangerous combination.

IMPORTANT!! It is strictly prohibited for any person to stand on the frame or chassis of the machine, when it is either operating or the tractor is idling.

Instructions for transport on public roads:

Before transport on public roads, make sure that the attachment of the implement to the tractor, is in accordance with the local rules and regulations in force (permitted total weight, permitted axle load, transport width, lights and warning signs).

Front axle load:

When the implement is attached and at maximum load, the tractors driving properties must be ensured. Check that the front axle is sufficiently loaded. The front axle load must be at least 20% of the tractors weight. Permitted axle load and total weight for the tractor must be respected.

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

¹ People at risk: Any person, who is completely or partially in the dangerous area.

² Dangerous area: At the machine and underneath it, and in a distance of 4 m from it.



Markings on the machine

Several markings are located on 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.

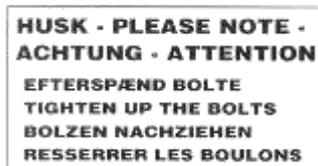
Safety and other markings on the machine



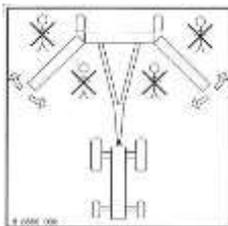
Study the Operating Instructions thoroughly before any operation of the machine and observe all safety instructions.



Plate with number and year of manufacture.



Warning instruction



Take care that no persons are within the machine's hazardous area during the unfolding and folding procedure.



Maintenance

After 10 hours of operation, tightening of wheels, bearings and stop rings must be done. If this is not respected our warranty will lapse.

Maximum torque according to ISO 898-1 in Nm. With lubricated thread			
Metric thread	Quality 8.8	Quality 10.9	Quality 12.9
M10x1,5	38	54	63
M12x1,75	66	95	110
M14x2,0	105	150	176
M16x2,0	164	235	274
M18x2,5	233	323	377
M20x2,5	331	458	535
M22x2,5	450	622	727
M24x3,0	572	791	925

- On foldable models the cylinder bushings and hinge joints must be greased at every 20 hour of operating
- Bearings at the rollers twice a year and after every machine wash.

Eventually damages at the paint must be repaired at least once in the season. This will preserve and make the machine stay in a good condition for many years.

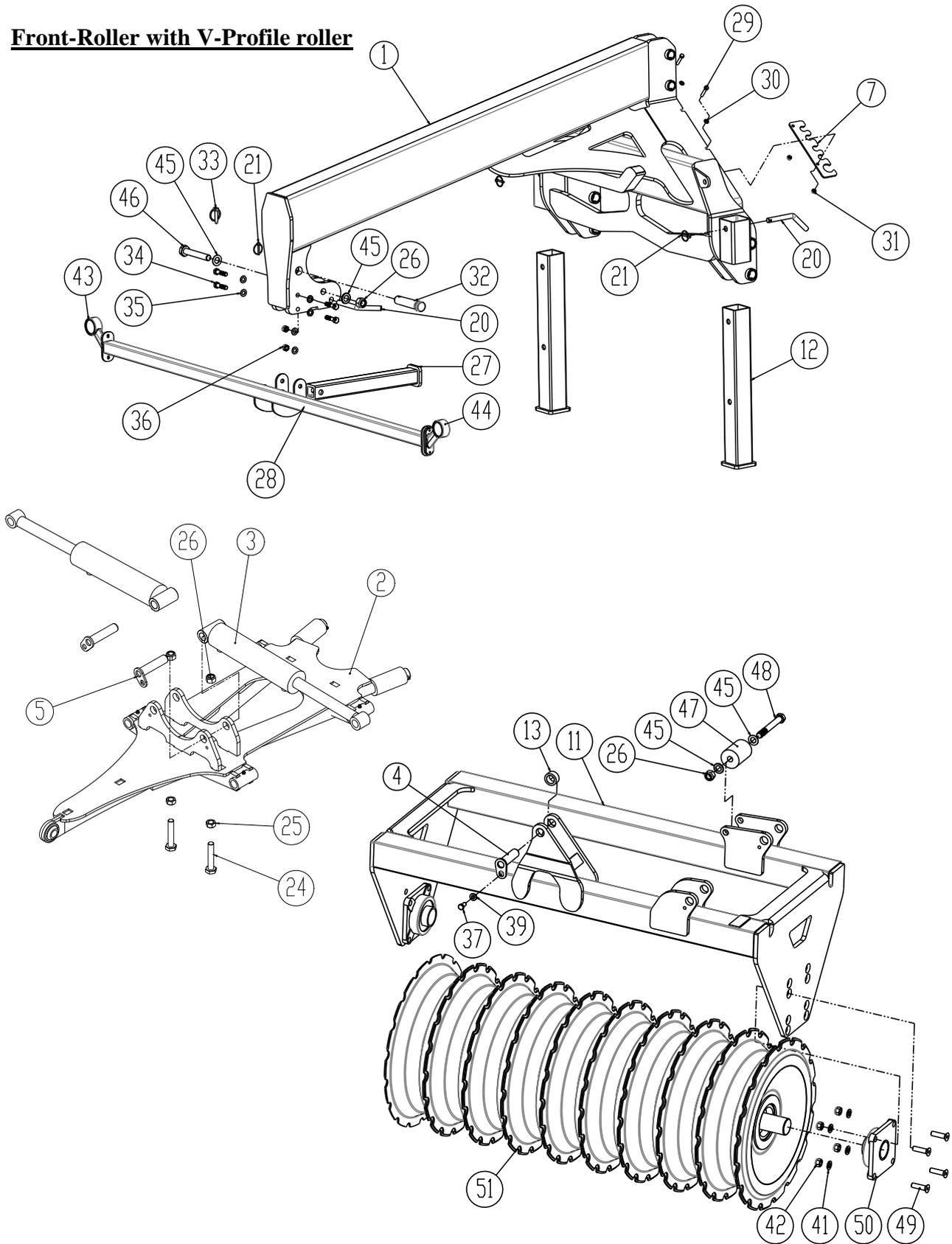
Disposal

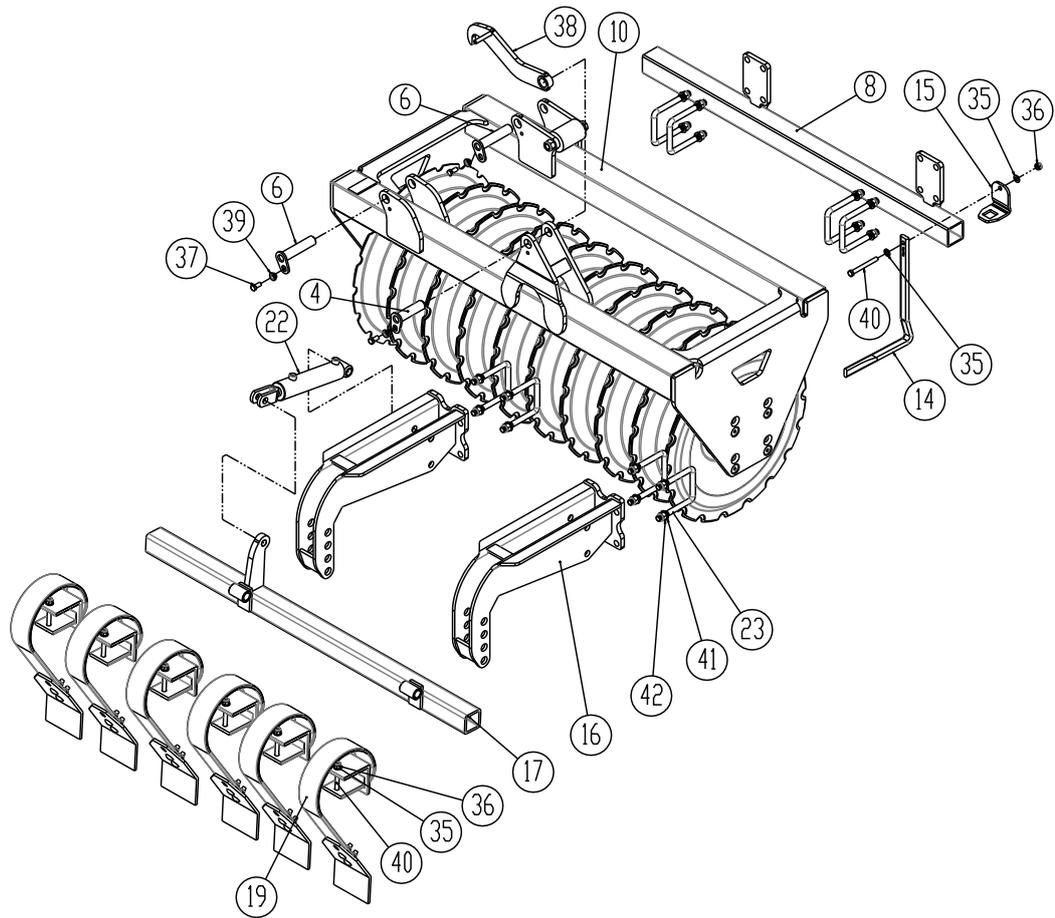
When, after many years of use, the machine is to be regarded as end-of-life, it must be disposed of to a registered and approved product dealer. This will carry out the statutory discharge and disposal of hydraulic oil, as well as sorting materials for further processing for recycling.



Spare Parts List

Front-Roller with V-Profile roller





Pos.	Part no.	Description	Qty.
1	630410002	Main frame	1
2	630410003	Pivoting frame	1
3	690200200	Cylinder 80/40x280	2
	690200143	Gasket set for cylinder 80/40	2
4	69430110G	Pin Ø30 L=110	2
5	69430130G	Pin Ø30 L=130	2
6	69430135G	Pin Ø30 L=135	4
7	630410050	Holder for hydraulic hoses	1
8	630410060	Scraper bar left	1
8	1270176 ³	Scraper bar left <i>From serial number 709475</i>	1
9	630410061	Scraper bar right, <i>not shown</i>	1
9	1270178 ⁴	Scraper bar right, <i>not shown From serial number 709475</i>	1
10	630410070	Left side frame	1
11	630410071	Right side frame	1
12	630410024	Support leg	2
13	630410032	BK-bushing 45x7 L=22	1
14	630938520	Scraper	18

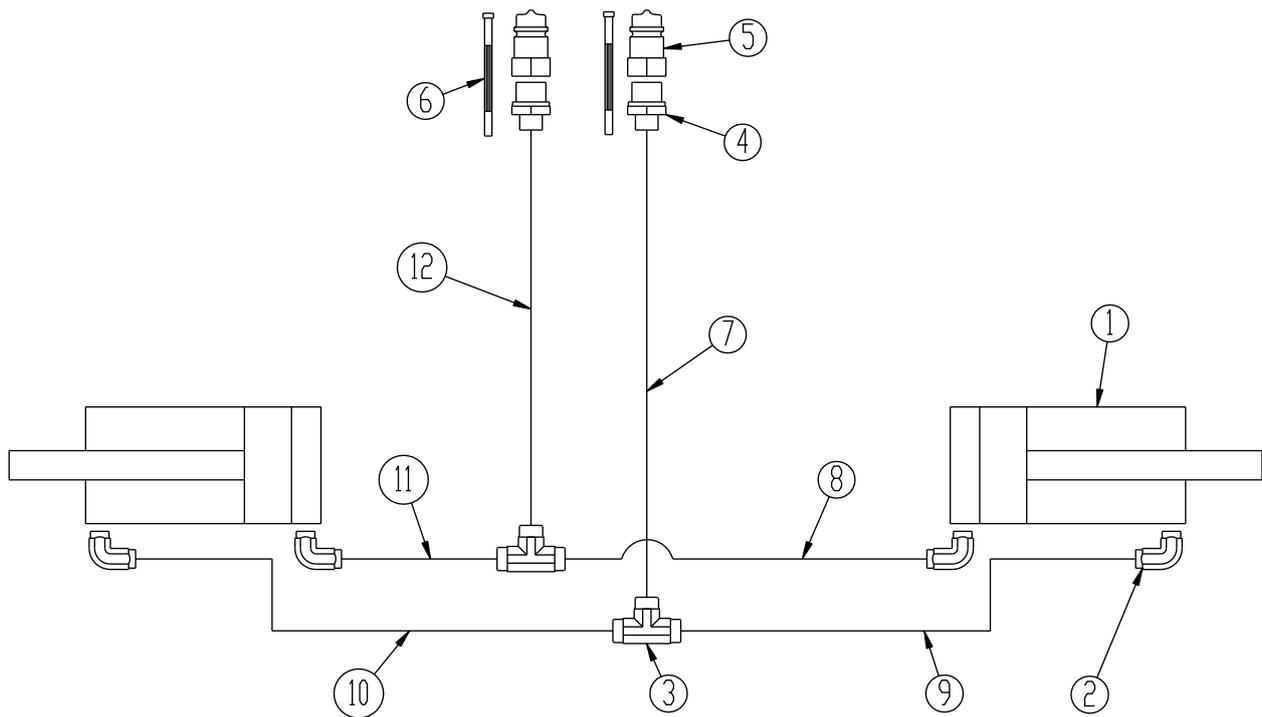
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³ When Ø700 roller use 1270176 left scraper bar as right bar

⁴ When Ø700 roller use 1270178 right scraper bar as left bar

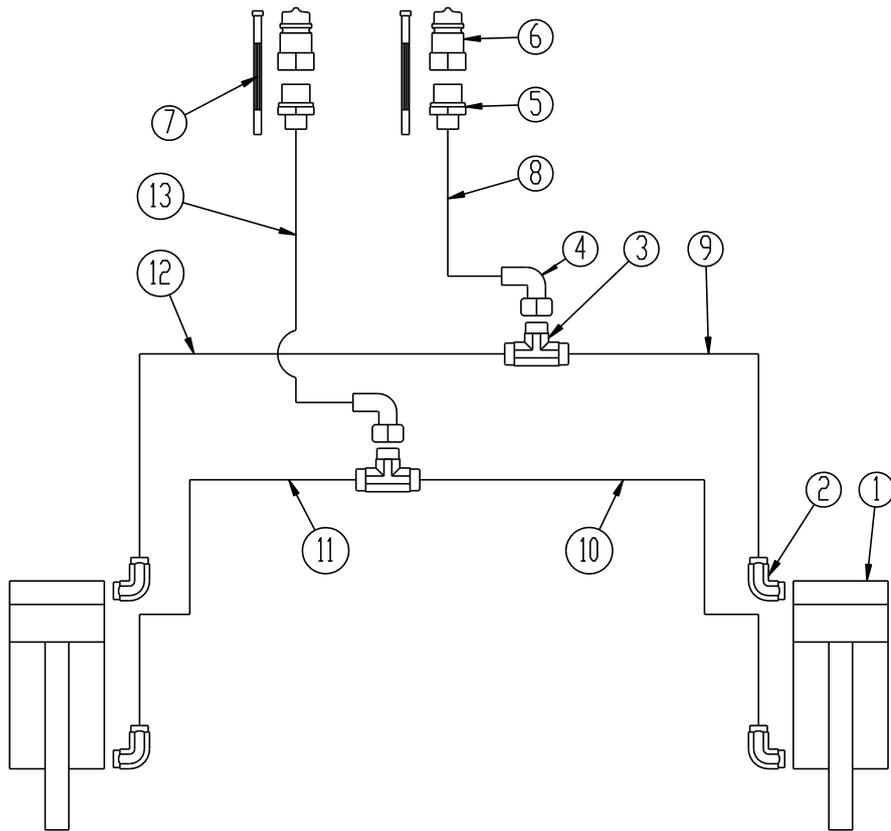
15	690152030	Clamp to 70/70 bar for scraper	18
15	630938522	Clamp to 50/70 bar for scraper <i>From serial number 709475</i>	18
16	35054520	Horn for Spring-Board	4
17	630410080	Spring-Board bar left	1
18	630410081	Spring-Board bar right, <i>not shown</i>	1
19	633052000	Spring-Board tine, complete	12
20	69516094A	Pin for support leg	3
21	690134001	Ring pin Ø4,5 mm	3
22	690200160	Cylinder 50/30x155	2
	690200145	Gasket set for cylinder 50/30	
23	690110404	U-bolt M18x100x100x100	16
24	690103196	Bolt M20x110, 8.8 fzb	2
25	690112009	Nut M20	2
26	690113009	Self-locking nut M20	2
27	630410018	Support leg	1
28	1270172	Light bar weldet	1
29	0234790	Bolt M8x40 8.8	2
30	0272250	Facet washer 8mm	2
31	0264050	Self-locking nut M8	2
32	69528096J	Pin Ø28 L=96	1
33	690134004	Ring pin Ø10	1
34	0235380	Bolt M12x50mm 8.8 fzb	4
35	0272270	Facet washer 12mm, fzb DIN985	44
36	0264070	Self-locking nut M12, fzb DIN985	22
37	0235040	Set bolt M12x25 8.8	8
38	630410059	Locking claw	1
39	630532600	Lock bushing for pin head	8
40	0235470	Bolt M12x110 8.8	18
40	0235450	Bolt M12x90 8.8 <i>From serial number 709475</i>	18
41	0772290	Facet washer 16mm fzb	32
42	0264090	Self-locking nut M16 fzb	32
43	7357509	Marking light, LED, white/red, right	1
44	7357507	Marking light, LED, white/red, left	1
45	0272310	Facet washer Ø20 DIN 125B	2
46	0236220	Bolt M20x130 8.8 fzb	1
47	630410040	Roller POM sort ø70 L=98	2
48	0236250	Bolt M20x160 8.8 fzb	2
49	0229000	Bolt M16x60 DIN 7991 Counter sunk insex	16
50	0478970	Bearing UCF 212 4 huls ø60 Complete	4
51	1160500	V-profile roller Ø600 1,5m	2

Hydraulics folding



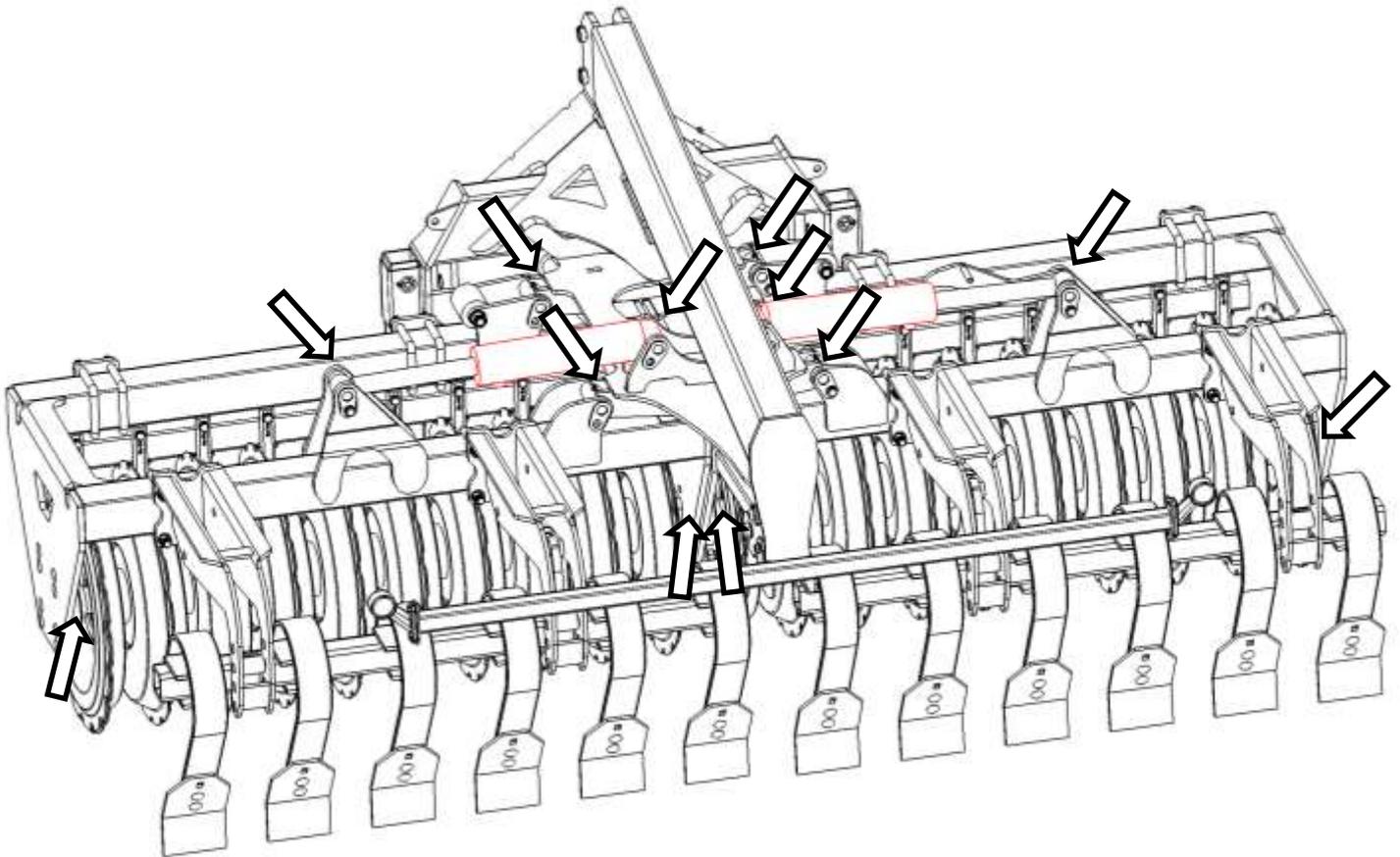
Pos.	Part no.	Description	Qty.
1	690200200	Cylinder 80/40x280	2
	690200143	Gasket set for cylinder 80/40	2
2	690203006	Fitting 90° Ø10-3/8"	4
3	690203015	Fitting T-10	2
4	0446752	Fitting straight Ø10-1/2"	2
5	0444020	Quick coupling 1/2", male	2
6	690119202	Straps blue	2
7	0454645	Hydraulic hose 1/4" L = 2300 mm	1
8	0454171	Hydraulic hose 1/4" L = 500 mm	1
9	0454183	Hydraulic hose 1/4" L = 600 mm	1
10	0454183	Hydraulic hose 1/4" L = 600 mm	1
11	0454171	Hydraulic hose 1/4" L = 500 mm	1
12	0454645	Hydraulic hose 1/4" L = 2300 mm	1

Hydraulic Spring-Board

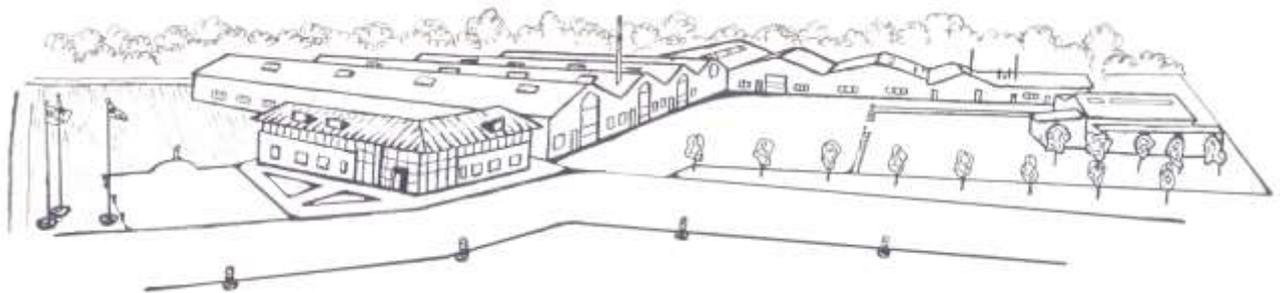


Pos.	Part no.	Description	Qty.
1	690200160	Cylinder 50/30x155	2
	690200145	Gasket set for cylinder 50/30	2
2	690203006	Fitting 90° Ø10-3/8"	4
3	690203015	Fitting T-10	2
4	0446678	Fitting 90° adjustable Ø10 m/omløb	2
5	0446752	Fitting straight Ø10-1/2"	2
6	0444020	Quick coupling 1/2", male	2
7	690119204	Straps green	2
8	0454645	Hydraulic hose 1/4" L = 2300 mm	1
9	0454211	Hydraulic hose 1/4" L = 710 mm	1
10	0454215	Hydraulic hose 1/4" L = 820 mm	1
11	0454215	Hydraulic hose 1/4" L = 820 mm	1
12	0454211	Hydraulic hose 1/4" L = 710 mm	1
13	0454645	Hydraulic hose 1/4" L = 2300 mm	1

Lubrication chart



Maskiner til vækst
Maskiner til vækst



The design is subject to modification without notice.