UK

Accu-Disc

Operators Manual, Spare Parts List & Declaration of Conformity

HE-VA Aps
N A Christensensvej 34
Nykobing
Mors
DK-7900
Denmark

Index

CE

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 machine:

Accu-Disc 3.0m – 3.5m – 4.0m (Mounted Rigid)
Accu-Disc 4.0m – 5.0m (Mounted Hydraulic)
Accu-Disc 4,0m - 5.0m - 6.0m - 7.0m (Trailed Hydraulic)

Nykøbing 01.06.2010

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 Accu-Disc for possible damage and any shortages

Machine Description

Range of Application

The Accu-Disc Seeding Bars are an accessory designed to fit onto and be used in conjunction with HE-VA Subsoilers of various working widths. These can be rigid or Hydraulic Folding and Mounted or Trailed Subsoilers. The Accu-Disc, with different mounting components, can also be fitted and used in conjunction with both mounted and trailed HE-VA Disc Rollers both fixed and hydraulic Folding. Accu-Discs Kits are also available for fitting to other types and Makes of equipment however the purchasor is responsible for the fabrication work to fit these. The Accu-Disc comprises a mounting frame for the specific machine, depth and pressure Adjustment facility and a specified number of Double Disc Coulters which are used for seeding. The Seed for the Accu-Disc units is supplied by Small Seed metering units mounted on the implement or from a suitable front tank with metering system. Accu Discs can be used for seeding most combinable crops.

Technical specifications

	Rigid models			Hydraulic models Mounted/Trailed		
Model	**3.0m**	**3.5 m**	**4 m**	**4.0 m**	**5.0 m**	**6.0 m**
Working width	3.0 m	3.5 m	4 m	4.0 m	5.0 m	6.0 m
Width folded				2.6m	2.6m/3m	3 m
D/A Hyd Services Required.	0	0	0	1	1	1
No. Disc Assemblies	5-6pcs.	5-7pcs.	5-7 pcs.	7 pcs.	7-9 pcs.	9-11pcs
No. Disc Assemblies (Twin Coulter Version)	10-12 pcs.	10-14 pcs.	10-14 pcs.	14 pcs.	14-18 pcs.	18-22 pcs
Weight:						
With Single Coulter Assemblies (Weight for Minimum pcs.)	260 kg	327 kg	394 kg	394 kg	487 kg	581 kg
With Twin Coulter Assemblies (Weight for Minimum pcs.)	378kg	493 kg	559 kg	559 kg	700 kg	841 kg
Weight of Additional Coulter Assembly (Add to weight above if necessary)	24kg					

Safety instructions for SubSoiler or Disc Roller Fitted with Accu-Disc

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.**

Safety and Instructions on Hydraulics

1. The maximum working pressure is 225 bar.

2. It is advisable to label the attachment parts at hydraulic connections between the tractor and the tool in order to eliminate incorrect operation!

3. 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!**

4. Before operating the hydraulics, lower the machine to firm ground.
   Relieve the hydraulics, stop the motor and remove the ignition key.

5. 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.

Safety and Instructions for Transport

INSTRUCTIONS FOR TRANSPORT ON THE PUBLIC ROADS:

Before transport on public roads check that the Combination of the complete machine and tractor is in accordance with the local rules and regulations in force (permitted total weight, permitted axle load, transport width, transport length, lights, warning signs, etc.).

FRONT AXLE LOAD:

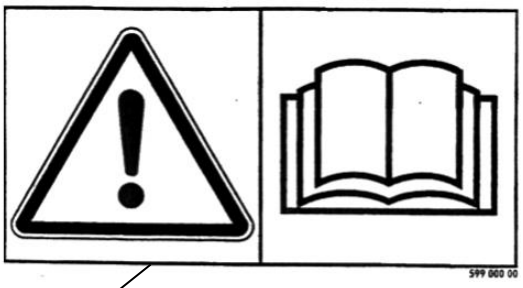
After the attachment of the Accu-Disc to the machine, and at maximum load, the driving properties of the tractor must be checked. Check that the front axle is sufficiently loaded. As a minimum, the front axle load must be 20% of the tractor weight. Permitted axle load and permitted total weight for the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

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

Labels on the machine

You will find several labels on your machine containing **safety** and practical instructions as regards the correct application of the machine. Please study the instructions and point out to the user the importance of the labels as well as the **safety instructions** in the Operating Instructions. Always keep the labels clean and readable – if not they must be replaced.

A



B

C

Explanation of the machine labels

A Plate with number and year of manufacture.

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

C Tighten up all bolts regularly. If this is not performed, our guarantee obligations will no longer apply.

Start-up of the machine

General information

Accu-Discs for Rigid Machines do not require Hydraulic services.
Accu-Discs for Hydraulic Folding Machines require 1 double acting outlet.

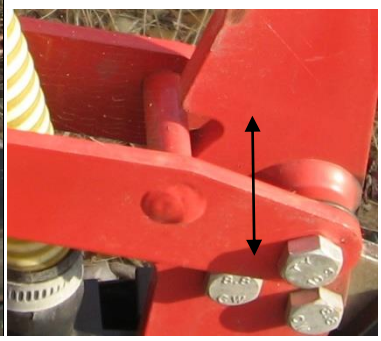
Attachment and uncoupling (Accu-Discs fitted to Hydraulic Folding machines)

1. When uncoupling the Machine that the Accu-Disc is fitted to, relieve the tractor's oil outlet which controls the pressure on the Accu-Disc Bar, and the Accu-Discs quick couplings can be uncoupled without pressure.

Setting the Accu Disc up for Work – Rigid Machines.

Once the Accu Disc has been attached to the Machine the following settings should be made.

1. Each Accu-Disc is mounted on a Parallelogram which is designed to float within certain limits to follow the Ground Contours. At the rear of the Parallelogram you will see a fixed pin which works between two stops. When the Machine the Accu-Disc is fitted to is in normal working position and the Accu Disc is at its standard working depth this pin should be half way between the stops. This allows for maximum float to follow ground contours.



2. It is necessary to set the working height of the mounting bar each parallelogram is fitted to and therefore position of the above pin between the stops. On rigid machines this is set by adjusting the Toplink adjuster bar as shown in the picture below.

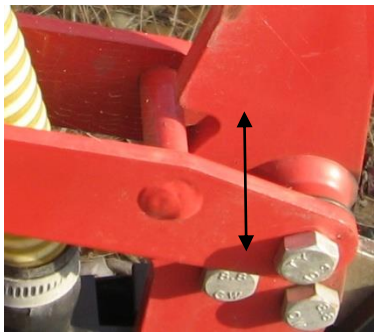
3. Seeding Depth – The Seeding Depth is determined by the relative position of the Press wheel and the Double Disc Coulter. The Press wheel is effectively the Depth control wheel for each Coulter. The Depth is adjusted using the winder which attaches the front mounting bar to the coulter bar. Shorten this adjuster and the Accu-Disc will work Deeper, Lengthen it and the Accu-Disc will work Shallower. The Setting Scale does not represent the Seeding Depth it is simply to provide a point of reference. The Seed depth will not necessarily be the depth that the disc penetrates to so check the depth of the seed once in work before proceeding to drill. Always lock off the adjusting handle after setting the depth.

4. The Pressure on each individual Disc can then be adjusted by using the spring handle on the Unit. This tightens or loosens the spring which works across the parallelogram applying pressure to the Coulter. **It is advisable to lift the machine slightly before adjusting these springs so that there is little or no pressure on them and they are easy to adjust.**
    a. In Hard/Heavy Soil conditions this spring should be set to achieve enough pressure on the discs so that they do not “ride out” of the soil and lift the depth wheel.
    b. In variable soil conditions the spring should be set to keep enough pressure on the Disc to penetrate to the set depth in the hardest part of the field. In lighter/Easier parts of the field the depth wheel will control the depth and prevent the discs from penetrating too deep.
    c. In Dry conditions it is advisable to increase the pressure on the spring even if it is not needed to achieve penetration of the Disc. This will ensure additional pressure on the depth wheel for extra consolidation. Extra consolidation in dry conditions aids capillary action of the soil moisture towards the seed.
    d. In wet conditions and in certain soil types it can be important to reduce the pressure on the land wheel so that the surface is not sealed above the seed.
    e. After finally Setting the Seeding depth check that the amount of float up and down of the Parallelogram as described in “1.” is still in the mid position.

Setting the Accu Disc up for Work – Mounted Hydraulic Folding Machines.

Once the Accu Disc has been attached to the Machine the following settings should be made.

1. Each Accu-Disc is mounted on a Parallelogram which is designed to float within certain limits to follow the Ground Contours. At the rear of the Parallelogram you will see a fixed pin which works between two stops. When the Machine the Accu-Disc is fitted to is in normal working position and the Accu Disc is at its standard working depth this pin should be half way between the stops. This allows for maximum float to follow ground contours.



2. It is necessary to set the working height of the mounting bar each parallelogram is fitted to and therefore position of the above pin between the stops. On Hydraulic Folding machines this is set by adjusting the Hydraulic Rams show in the pictures below.

3. Seeding Depth – The Seeding Depth is determined by the relative position of the Press wheel and the Double Disc Coulter. The Press wheel is effectively the Depth control wheel for each Coulter. The Depth is adjusted using the winder which attaches the front mounting bar to the coulter bar. Shorten this adjuster and the Accu-Disc will work Deeper, Lengthen it and the Accu-Disc will work

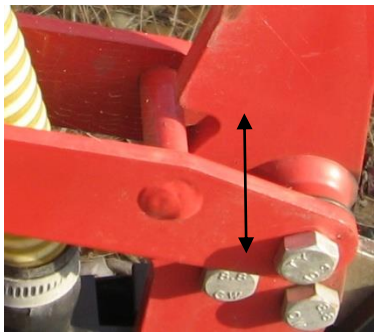
Shallower. The Setting Scale does not represent the Seeding Depth, it is simply a point of reference. The Seed depth will not necessarily be the depth that the disc penetrates to so check the depth of the seed once in work before proceeding to drill. Always lock off the adjusting handle after setting the depth.

4. The Pressure on each individual Disc can then be adjusted by using the spring handle on the Unit. This tightens or loosens the spring which works across the parallelogram applying pressure to the Coulter. **It is advisable to lift the machine slightly before adjusting these springs so that there is little or no pressure on them and they are easy to adjust.**
    a. In Hard/Heavy Soil conditions this spring should be set to achieve enough pressure on the discs so that they do not "ride out" of the soil and lift the depth wheel.
    b. In variable soil conditions the spring should be set to keep enough pressure on the Disc to penetrate to the set depth in the hardest part of the field. In lighter/Easier parts of the field the depth wheel will control the depth and prevent the discs from penetrating too deep.
    c. In Dry conditions it is advisable to increase the pressure on the spring even if it is not needed to achieve penetration of the Disc. This will ensure additional pressure on the depth wheel for extra consolidation. Extra consolidation in dry conditions aids capillary action of the soil moisture towards the seed.
    d. In wet conditions and in certain soil types it can be important to reduce the pressure on the land wheel so that the surface is not sealed above the seed.
    e. After finally Setting the Seeding depth check that the amount of float up and down of the Parallelogram as described in "1." is still in the mid position.

Setting the Accu Disc up for Work – Trailed Hydraulic Folding Machines.

Once the Accu Disc has been attached to the Machine the following settings should be made.

1. Each Accu-Disc is mounted on a Parallelogram which is designed to float within certain limits to follow the Ground Contours. At the rear of the Parallelogram you will see a fixed pin which works between two stops. When the Machine the Accu-Disc is fitted to is in normal working position and the Accu Disc is at its standard working depth this pin should be half way between the stops. This allows for maximum float to follow ground contours.



2. It is necessary to set the working height of the mounting bar each parallelogram is fitted to and therefore position of the above pin between the stops. On Trailed Hydraulic Folding machines this is set by adjusting the pairs of Top links shown in the pictures below.

3. Seeding Depth – The Seeding Depth is determined by the relative position of the Press wheel and the Double Disc Coulter. The Press wheel is effectively the Depth control wheel for each Coulter. The Depth is adjusted using the winder which attaches the front mounting bar to the coulter bar. Shorten

this adjuster and the Accu-Disc will work Deeper, Lengthen it and the Accu-Disc will work Shallower. The Setting Scale does not represent the Seeding Depth, it is simply a point of reference. The Seed depth will not necessarily be the depth that the disc penetrates to so check the depth of the seed once in work before proceeding to drill. Always lock off the adjusting handle after setting the depth.

4. The Pressure on each individual Disc can then be adjusted by using the spring handle on the Unit. This tightens or loosens the spring which works across the parallelogram applying pressure to the Coulter. **It is advisable to lift the machine slightly before adjusting these springs so that there is little or no pressure on them and they are easy to adjust.**
    a. In Hard/Heavy Soil conditions this spring should be set to achieve enough pressure on the discs so that they do not "ride out" of the soil and lift the depth wheel.
    b. In variable soil conditions the spring should be set to keep enough pressure on the Disc to penetrate to the set depth in the hardest part of the field. In lighter/Easier parts of the field the depth wheel will control the depth and prevent the discs from penetrating too deep.
    c. In Dry conditions it is advisable to increase the pressure on the spring even if it is not needed to achieve penetration of the Disc. This will ensure additional pressure on the depth wheel for extra consolidation. Extra consolidation in dry conditions aids capillary action of the soil moisture towards the seed.
    d. In wet conditions and in certain soil types it can be important to reduce the pressure on the land wheel so that the surface is not sealed above the seed.
    e. After finally Setting the Seeding depth check that the amount of float up and down of the Parallelogram as described in "1." is still in the mid position.

Maintenance

- After 10 hours of operation, retighten the machine. Check hydraulic hoses, fittings and cylinders for leaks and retighten.
- 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 bearings. After the washing, you should spray the machine with oil. Ensure any Hydraulic rams which are open and exposed are covered with a good coating of Oil or prefrebly grease to prolong the life of the chrome.

Lubrication

For lubrication, maintenance and repair, lower machine that the Accu-Disc is mounted on to the ground and put the brakes of the tractor on and stop the engine

Each Parallelogram Assembly has 4 greasing points to lubricate the bushes.- These should be greased every 25 hours.

The 3.0m, 3.5m and 4.0m Rigid Mounted Accu-Discs have no other greasing points but it is advised to occasionally Un-assemble and grease the Disc Depth Adjuster and to grease the Top link used to set the height of the Seeding bar.

The 4.0m, 5.0m & 6.0m Mounted Hydraulic Folding Accu-Discs have no other greasing points but it is advised to occasionally Un-assemble and grease the Disc Depth Adjusters.

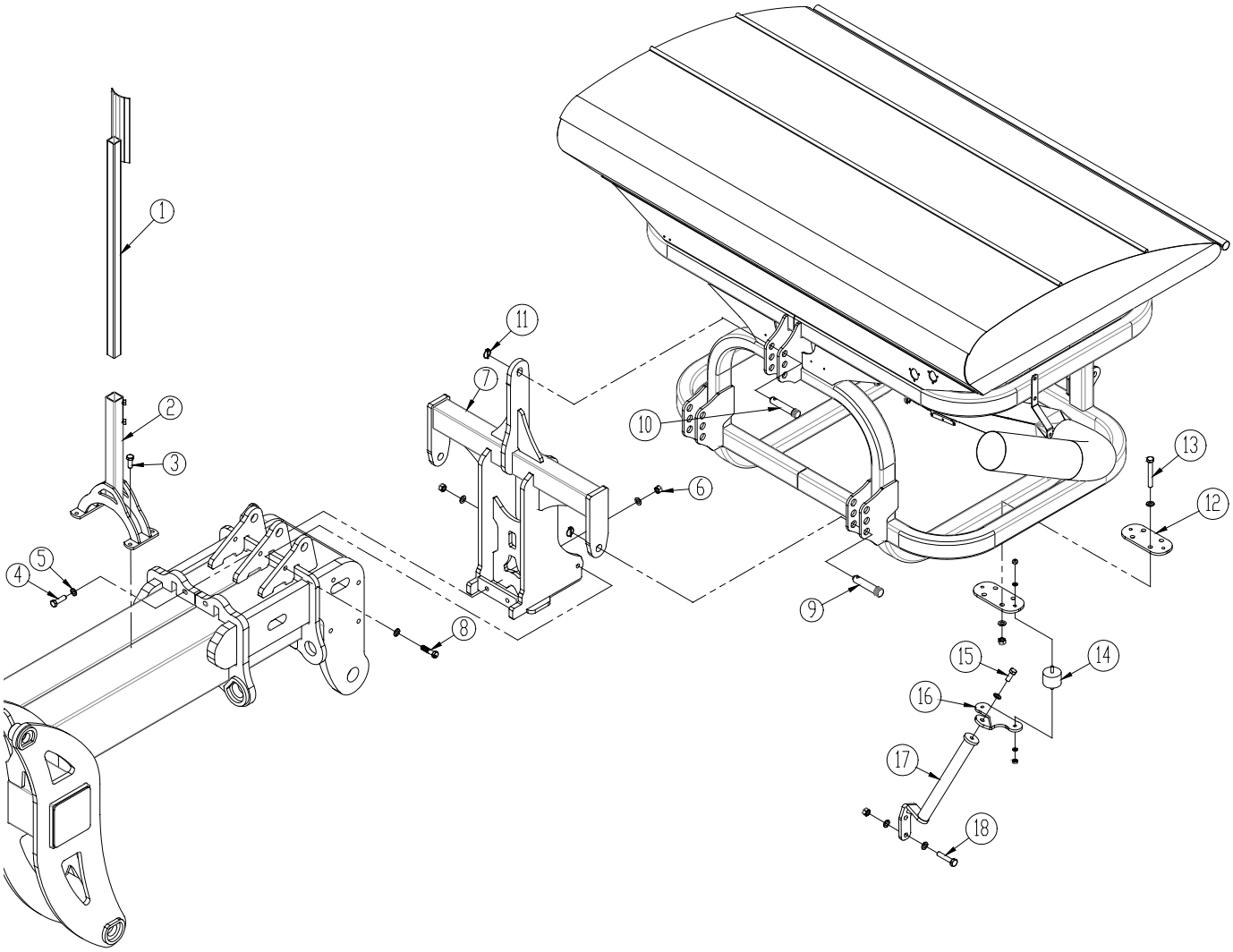
The 5.0m and 6.0m Trailed Hydraulic Folding Accu-Discs have no other greasing points but it is advised to occasionally Un-assemble and grease the Disc Depth Adjusters and to grease the Top links used to set the height of the Seeding bar.

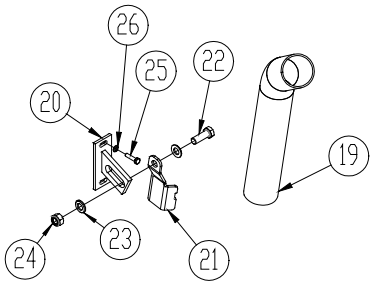
Important!

Oil, type Hydro Texaco HD32 has been filled in the hydraulic system.

Spare Parts list

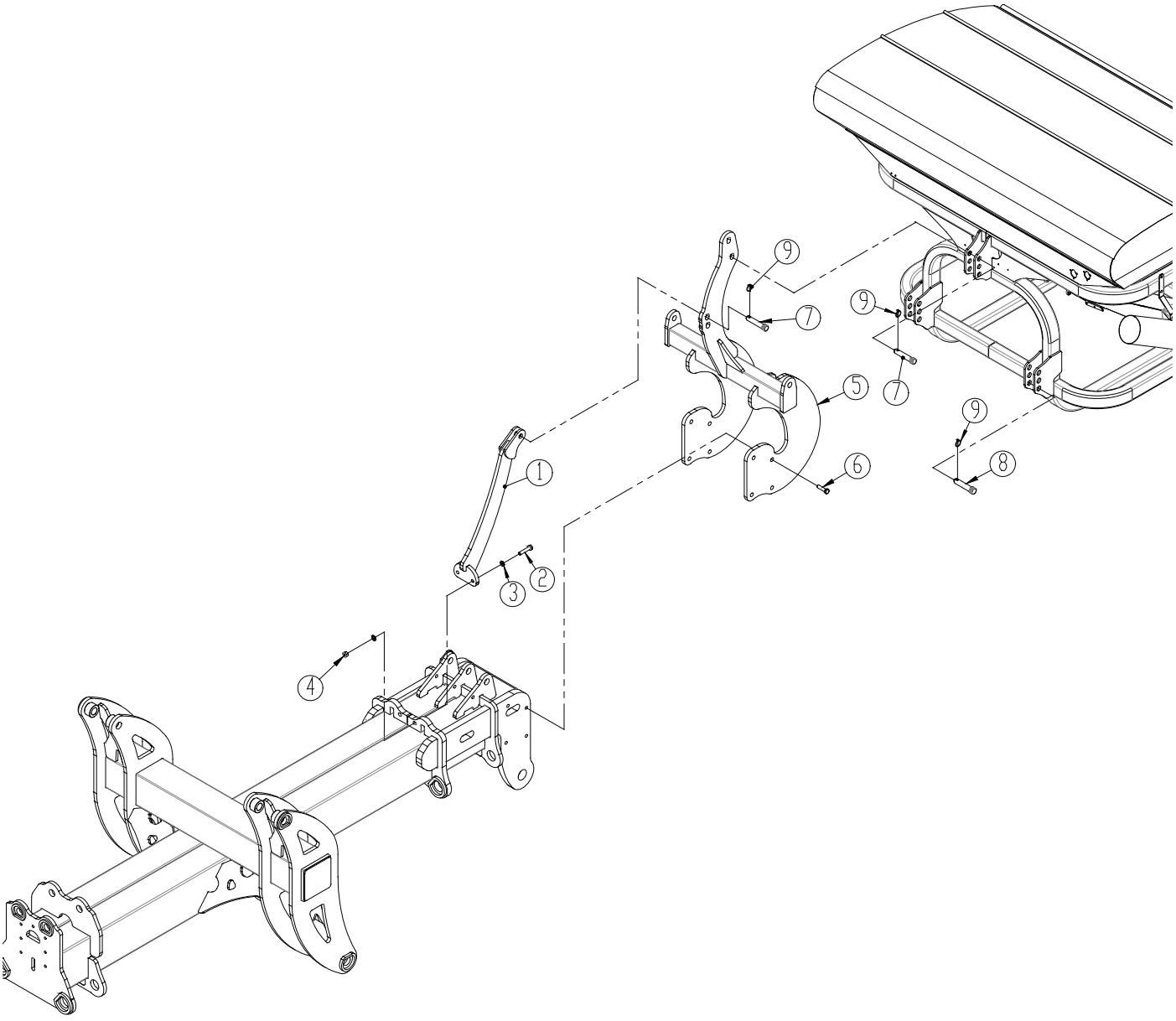
Mounting brackets for Front-Tank (trailed Subsoiler with Accu-Disc)

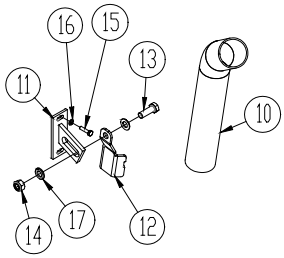




Pos.	Item no.	Designation	Number
1	645001332	Bracket for dividing head	1
2	645001328	Bracket for dividing head	1
3	0235790	Bolt M16x40	4
4	0235860	Bolt M16x70	2
5	0272290	Washer Ø16	34
6	0264090	Nut M16	16
7	1240159	Holder for seed hopper	1
8	0235850	Bolt M16x65	2
9	69528096J	Pin Ø28 L=96	2
10	69525097J	Pin Ø25 L=97	1
11	0378200	Ring split Ø4,5mm	3
12	1240445	Bracket	4
13	0235920	Bolt M16x120	8
14	0539003	Vibration absorber	4
15	0235790	Bolt M16x40	2
16	1240452	Bracket (right)	1
	1240446	Bracket (left)	1
17	1240773	Stabilizer arm (right)	1
	1240451	Stabilizer arm (left	1
18	0235880	Bolt M16x80	4
			Pcs per tooth
19	1240457	Seed tube	1
20	645000344	Holder for seed tube	1
21	1240458	Holder for Ø60mm seed tube	1
22	0235350	Bolt M12x35mm	1
23	0272270	Washer Ø12	2
24	0264070	Nut M12	1
25	0234340	Bolt M6x25mm	2
26	0272240	Washer Ø6	2

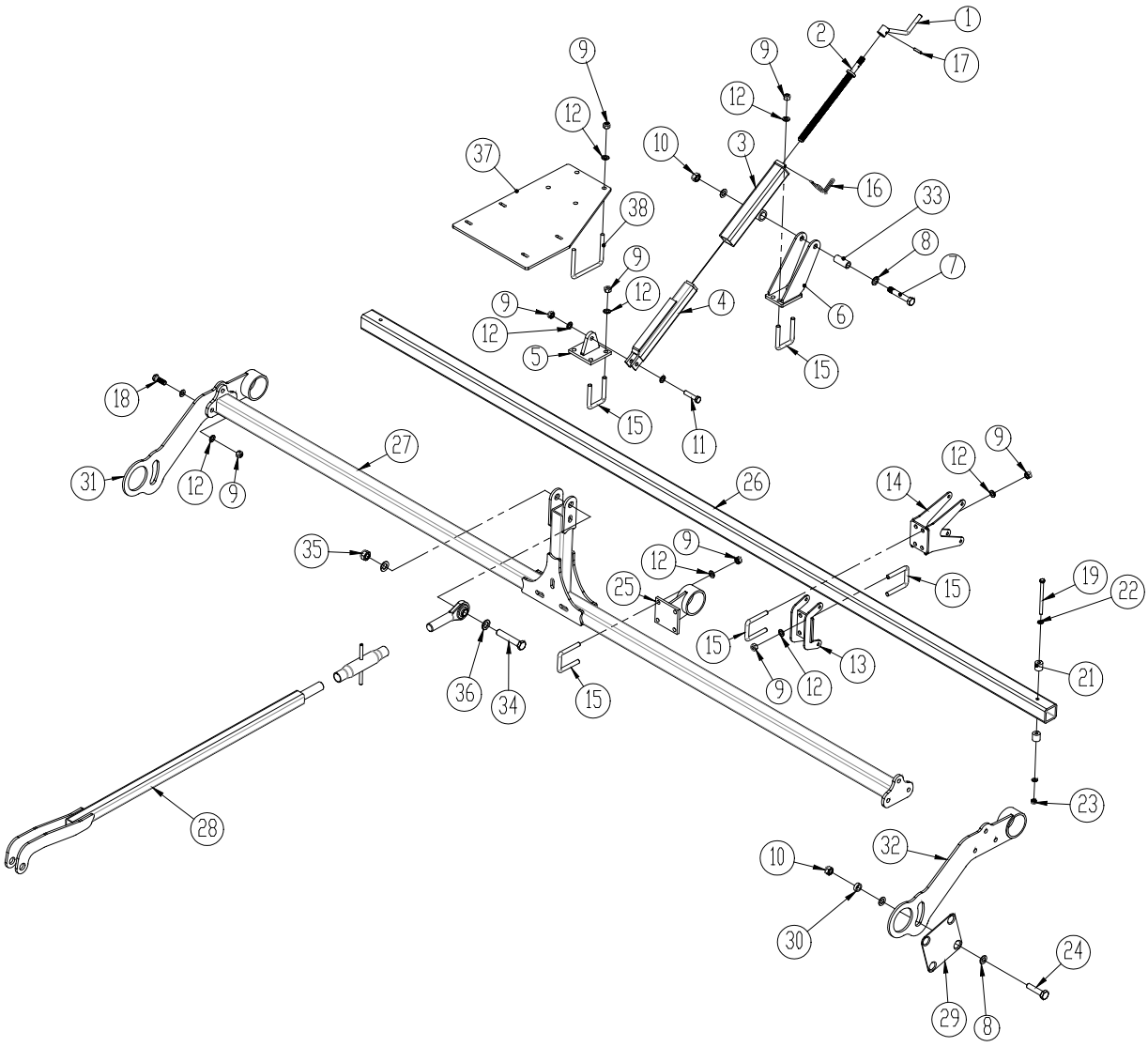
Mounting brackets for Front-Tank (trailed Subsoiler with Accu-Disc and Disc-opens)





Pos.	Item no.	Designation	Number
1	1240470	Drawbar for holder for seed hopper	1
2	0235870	Bolt M16x75mm	2
3	0272290	Washer Ø16	4
4	0264090	Nut M16	2
5	1240461	Holder for seed hopper	1
6	0235840	Bolt M16x60	8
7	69525097J	Pin Ø25 L=97	1
8	69528096J	Pin Ø28 L=96	2
9	0378200	Ring split ø4,5mm	4
			Pcs per tooth
10	1240457	Seed tube	1
11	645000344	Holder for seed tube	1
12	1240458	Holder for Ø60mm seed tube	1
13	0235350	Bolt M12x35mm	1
14	0264070	Nut M12	1
15	0234340	Bolt M6x25mm	2
16	0272240	Washer Ø6	2
17	0272270	Washer Ø12	2

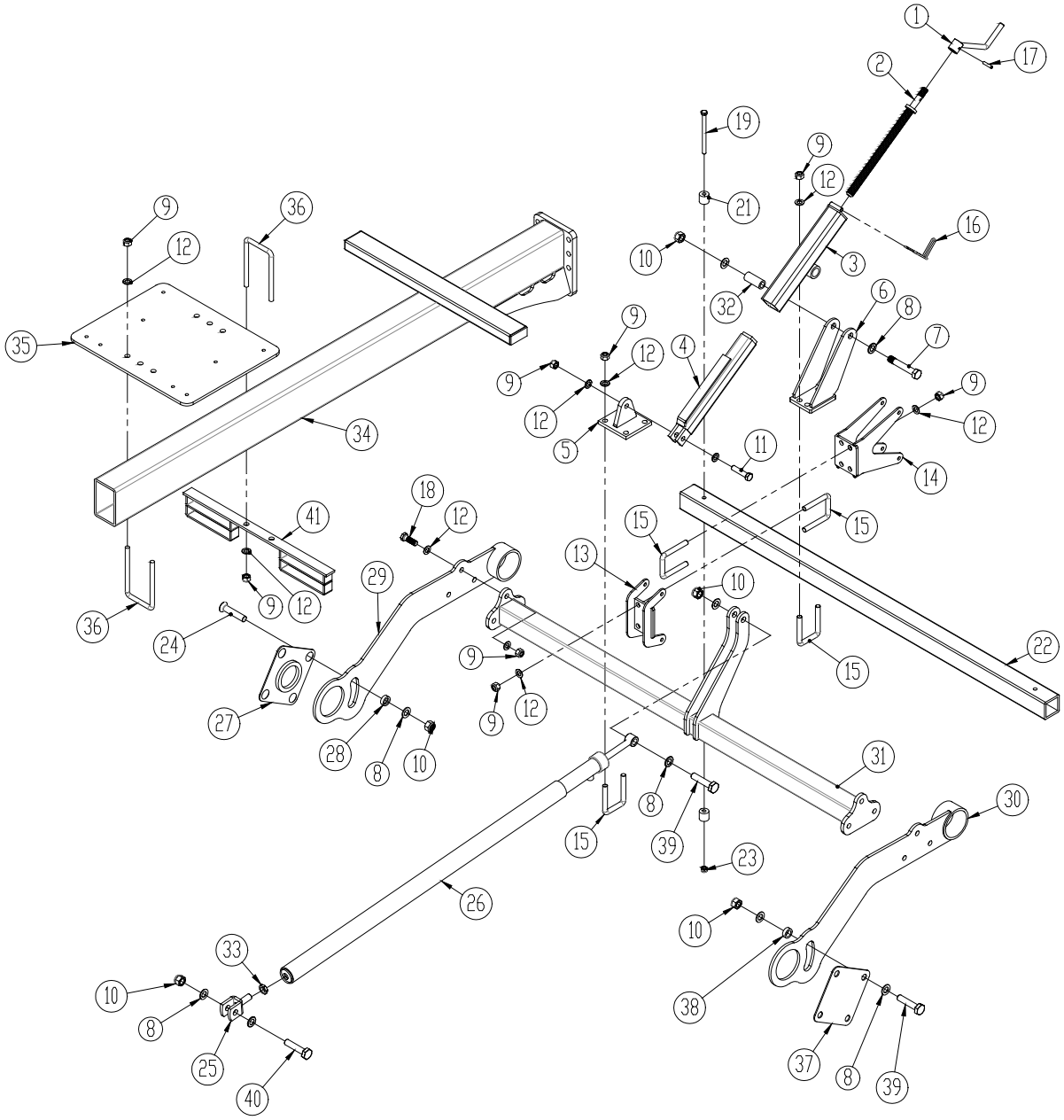
3m, 3.5m, 4m HE-VA Rigid Subsoiler Accu-Disc



Pos.	Item no.	Designation	3m	3,5m	4m
1	1011420	Handle	1	1	1
2	1145346	Spindle	1	1	1
3	645000548	Outer tube	1	1	1
4	1145508	Inner tube	1	1	1
5	645000638	Bracket	1	1	1
6	1170115	Bracket	1	1	1
7	0236210	Bolt M20x120	1	1	1
8	0272310	Washer Ø20	18	18	18
9	0264090	Nut M16	22	22	22
10	0264110	Nut M20	9	9	9
11	0235860	Bolt M16x70	1	1	1
12	0272290	Washer Ø16	34	34	34
13	645000843	Console short	5	5-7	7
14	645000895	Console long	5	5-7	7
15	0382150	U-bolt M16x70x70x70	26	26-32	32
16	0431980	Locking clamp	1	1	1
17	0371690	Pin	1	1	1
18	0235810	Bolt M16x50	6	6	6
19	0235520	Bolt M12x160	2	2	2
21	1241147	Guide	4	4	4
22	0272270	Washer Ø12	4	4	4
23	0264070	Nut M12	2	2	2
24	0236180	Bolt M20x90	8	8	8
25	645001109	Support	1	1	1
26	645000640	Bracket	1		
	645000644	Bracket		1	
	645000537	Bracket			1
27	645000641	Lever	1		
	645000643	Lever		1	
	645000546	Lever			1
28	645001071	Top link	1	1	1
29	1240202	Guide	2	2	2
30	645000544	Spacing	8	8	8
31	645001093	Bracket (right)	1	1	1
32	645001105	Bracket (left)	1	1	1
33	645000550	Bush	1	1	1
34	0236440	Bolt M24x130	8	8	8

Pos.	Item no.	Designation	3m	3,5m	4m
35	0264130	Nut M24	1	1	1
36	0272330	Washer Ø24	2	2	2
37	645000065	Plate for seed box	1	1	1
38	0382800	U-bolt M16x100x150x100	2	2	2

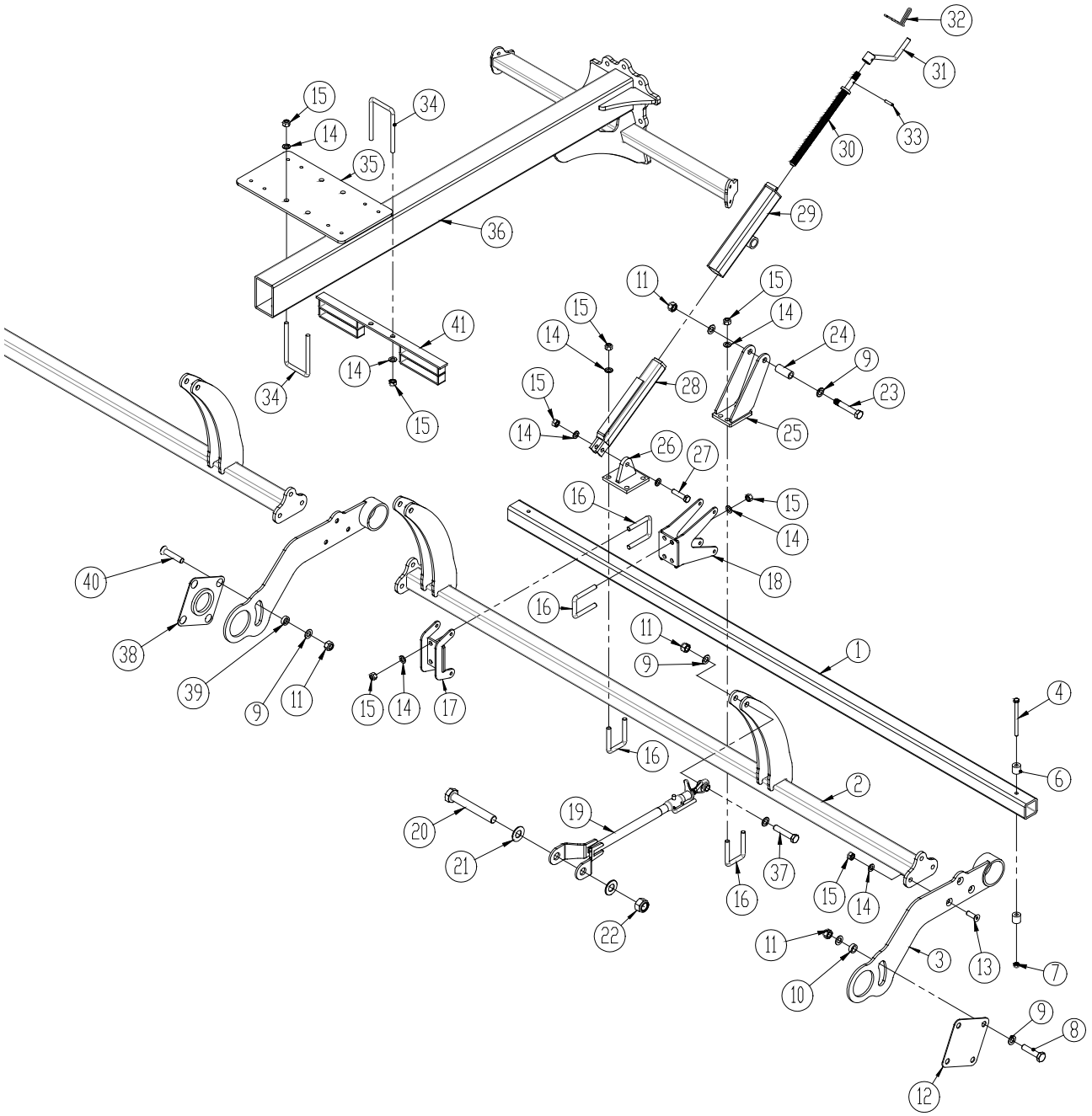
4m & 5m HE-VA Mounted Folding Subsoiler Accu-Disc



Pos.	Item no.	Designation	4m	5m
1	1011420	Handle	2	2
2	1145346	Spindle	2	2
3	645000548	Outer tube	2	2
4	1145508	Inner tube	2	2
5	645000638	Bracket	1	1
6	1170115	Bracket	1	1
7	0236210	Bolt M20x120	2	2
8	0272310	Washer Ø20	36	36
9	0264090	Nut M16	48	48
10	0264110	Nut M20	22	22
11	0235860	Bolt M16x70	2	2
12	0272290	Washer Ø16	76	76
13	645000843	Console short	7	9
14	645000895	Console long	7	9
15	0382150	U-bolt M16x70x70x70	32	40
16	0431980	Locking clamp	2	2
17	0371690	Pin	2	2
18	0235810	Bolt M16x50	12	12
19	0235520	Bolt M12x160	4	4
21	1241147	Guide	8	8
22	645000657	Mounting bar (right)	1	
22	645000654	Mounting bar (left)	1	
22	645000663	Mounting bar (right)		1
22	645000660	Mounting bar (left)		1
23	0264070	Nut M12	4	4
24	0229270	Bolt M20x90	8	8
25	1114090	Fork	2	2
26	645000852	Cyl.	2	2
27	645000667	Guide	2	2
28	1240204	Spacing	8	8
29	645001093	Bracket (right)	2	2
30	645001105	Bracket (left)	2	2
31	645000907	Lever (right)	1	
31	645000909	Lever (left)	1	
31	645000871	Lever (right)		1
31	645000867	Lever (left)		1
32	645000550	Bush	2	2

Pos.	Item no.	Designation	4m	5m
33	0261411	Nut	2	2
34	645000245	Holder for seed box	1	1
35	645000261	Plate for seed box	1	1
36	690110104	U-bolt M16x150x100x150	2	2
37	1240202	Guide	2	2
38	645000544	Spacing	8	8
39	0236170	Bolt M20x80	10	10
40	0236130	Bolt M20x60	2	2
41	1190034	Hose bracket	2	2

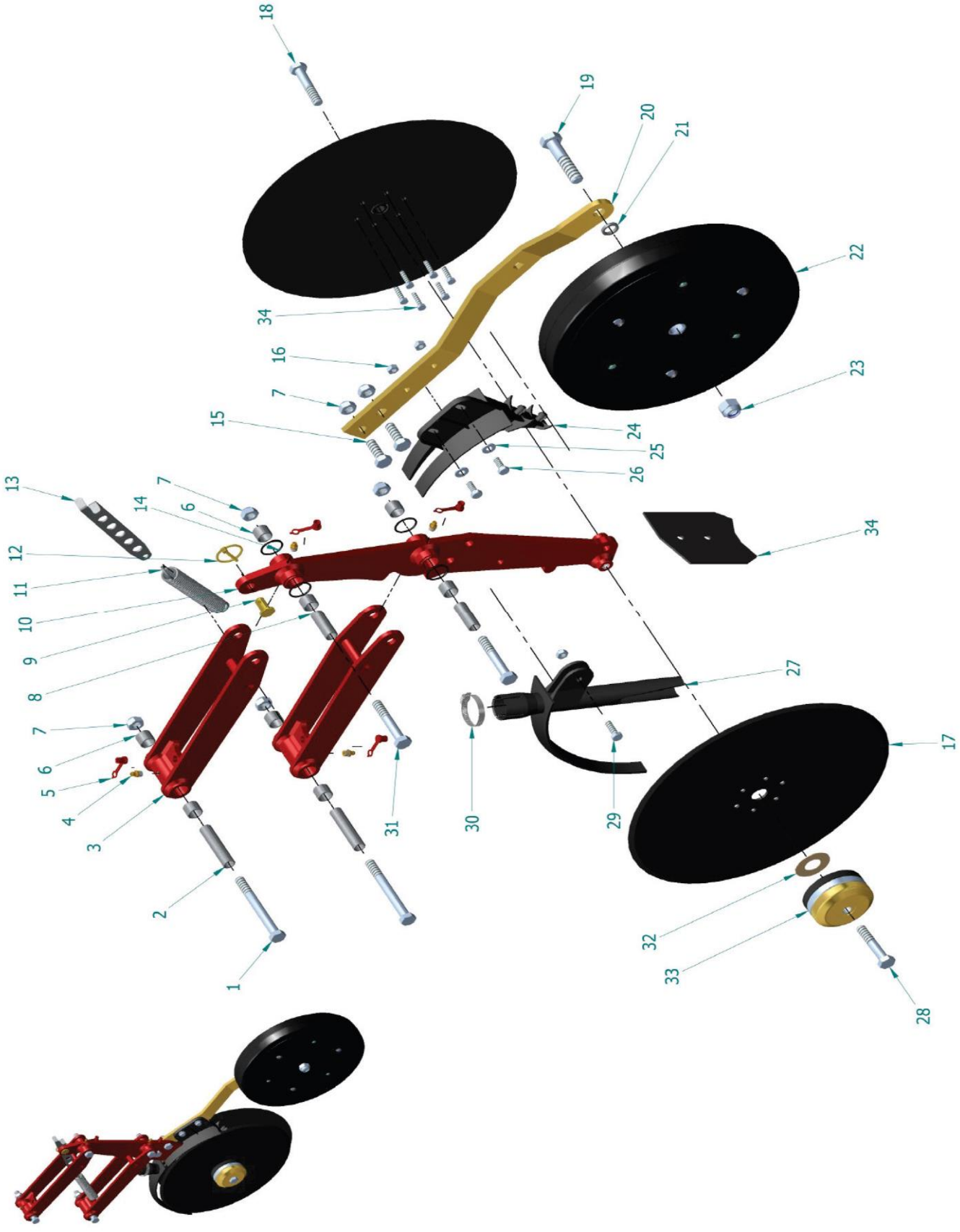
4,0m – 7,0m HE-VA Trailed Folding Subsoiler Accu-Disc



Pos.	Varenr	Betegnelse	4m	5m	6m	7m
1	1240757	Mounting bar (right)	1			
	1240756	Mounting bar (left)	1			
	645001431	Mounting bar (right)		1		
	645001430	Mounting bar (left)		1		
	645001305	Mounting bar (right)			1	
	645001300	Mounting bar (left)			1	
	645001197	Mounting bar (right)				1
	645001194	Mounting bar (left)				1
2	1240754	Lever (right)	1			
	1240752	Lever (left)	1			
	645001428	Lever (right)		1		
	645001426	Lever (left)		1		
	645001306	Lever (right)			1	
	645001301	Lever (left)			1	
	645001198	Lever (right)				1
	645001195	Lever (left)				1
3	645001192	Bracket (right)	1	1	1	1
	645001190	Bracket (left)	1	1	1	1
4	0235520	Bolt M12x160	4	4	4	4
6	1241147	Guide	8	8	8	8
7	0264070	Nut M12	4	4	4	4
8	0236170	Bolt M20x80	8	8	8	8
9	0272310	Washer Ø20	32	32	32	32
10	645000544	Spacing	8	8	8	8
11	0264110	Nut M20	20	20	20	20
12	1240202	Guide	2	2	2	2
13	0228980	Bolt M16x50	12	12	12	12
14	0272290	Washer Ø16	112	112	112	112
15	0264090	Nut M16	110	110	110	110
16	0382150	U-bolt M16x70x70x70	44	44	52	60
17	645000843	Console short	9	9	11	13
18	645000895	Console long	9	9	11	13
19	1240140	Rod connection	4	4	4	4
20	0237090	Bolt M30x220	4	4	4	4
21	0272350	Washer Ø30	8	8	8	8
22	0264155	Nut M30	4	4	4	4
23	0236210	Bolt M20x120	2	2	2	2

Pos.	Varenr	Betegnelse	4m	5m	6m	7m
24	645000550	Bush	2	2	2	2
25	1170115	Bracket	2	2	2	2
26	645000638	Bracket	2	2	2	2
27	0235860	Bolt M16x70	2	2	2	2
28	1145508	Inner tube	2	2	2	2
29	645000548	Outer tube	2	2	2	2
30	1145346	Spindle	2	2	2	2
31	1011420	Handle	2	2	2	2
32	0431980	Locking clamp	2	2	2	2
33	0371690	Pin	2	2	2	2
34	690110104	U-bolt M16x150x100x150	4	4	4	4
35	1190001	Plate for seed box	1	1	1	1
36	645001423	Holder for seed box	1	1	1	1
37	0236190	Bolt M20x100	4	4	4	4
38	645000667	Guide	2	2	2	2
39	1240204	Spacing	8	8	8	8
40	0229270	Bolt M20x90	8	8	8	8
41	1190034	Hose bracket	2	2	2	2

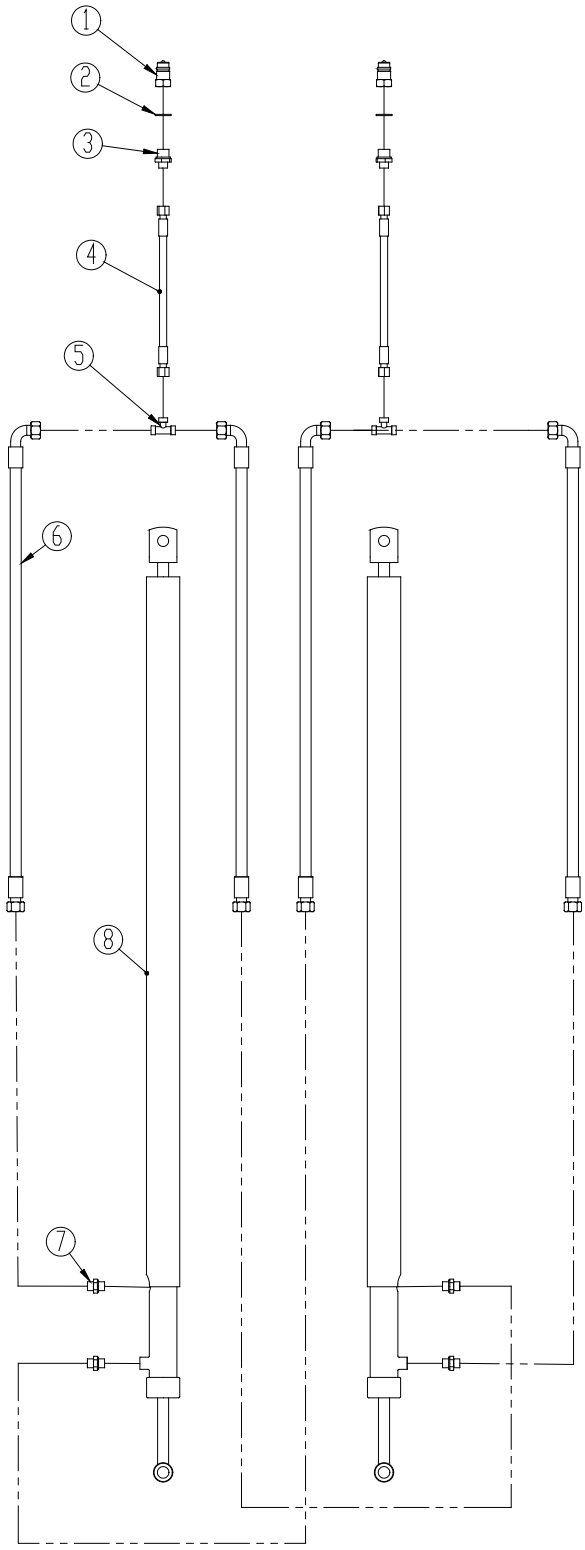
Spare Parts list for Accu-Disc Coulters



Pos.	Item no.	Designation
1	0235470	Hexagon head screw M12x110 – DIN931, 10.9
2	0438215	Bush 16/12, l=72, hardened
3	0438220	Parallelogram arm
4	-	Lubricating nipple
5	-	PVC cover for lubricating nipple
6	0438225	Bush 20/16, l=16, hardened
7	0264070	Stop nut M12 – DIN985
8	0438230	Bush 16/12, l=45, hardened
9	0438235	Bolt for spring handle
10	0438240	Central piece for seed parall*elogram
11	0438245	Extension spring, l=153, diameter=23.5
12	0378200	Ring pin
13	0438210	Spring handle
14	0438285	O-ring 25x2,5
15	0235350	Hexagon head screw M12x35 – DIN933
16	0264050	Stop nut M8 – DIN985
17	0438280	Seed disc 350x3
18	0238369	Hexagon head screw M12x55 – DIN931, 10.9, right-hand thread (until June 2019)
	0238372	Hexagon head screw M12x50 – DIN931, 10.9, right-hand thread (from June 2019)
19	0235870	Hexagon head screw M16x75 – DIN931
20	0438290	Bracket for pressure wheel
21	0438250	Distance ring for pressure wheel
22	0516901	Pressure wheel Ø330x50 (discontinued)
	0516902	Pressure wheel Ø330x75
23	0264090	Stop nut M16 – DIN985
24	0438255	Bracket for scraper
25	0272250	Washer
26	0234750	Hexagon head screw M8x20 – DIN933
27	0438260	Seed tube
28	0238368	Hexagon head screw M12x55 – DIN931, 10.9 left-hand thread (until June 2019)
	0238371	Hexagon head screw M12x50 – DIN931, 10.9 left-hand thread (from June 2019)
29	0234760	Hexagon head screw M8x25 – DIN933
30	0434460	Clamp 25-40
31	0235430	Hexagon head screw M12x75 – DIN931, 10.9
32	0438265	Sealing ring 47x22x1
33	0438270	Bearing for seed disc – incl. adapter ring (Obs when ordering bearing, enclose new bolts pos 18 + 28)
34	0438275	Scraper

Hydraulic

4m & 5m HE-VA Mounted Folding Subsoiler Accu-Disc



Pos.	Item no.	Designation	Quantity
1	0444020	Quick coupling ½”	2
2	0449070	Bounded seal ½”	2
3	0446752	Fitting Ø10x1/2”	2
4	0454645	Hose 2300mm ¼” st/st	2
5	690203015	Nipple T10	2
6	0454925	Hose 3500mm ¼” st/90°	4
7	0446750	Fitting straight Ø10-1/4”	4
8		Look at page 23 pos. 28	

Attention:
The number of hoses and hose lengths can vary – dependent on the machine type, therefore check measurements and number before ordering the spare parts.

Notes

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

HE-VA

2010

Danmark

The design is subject to modification without notice.