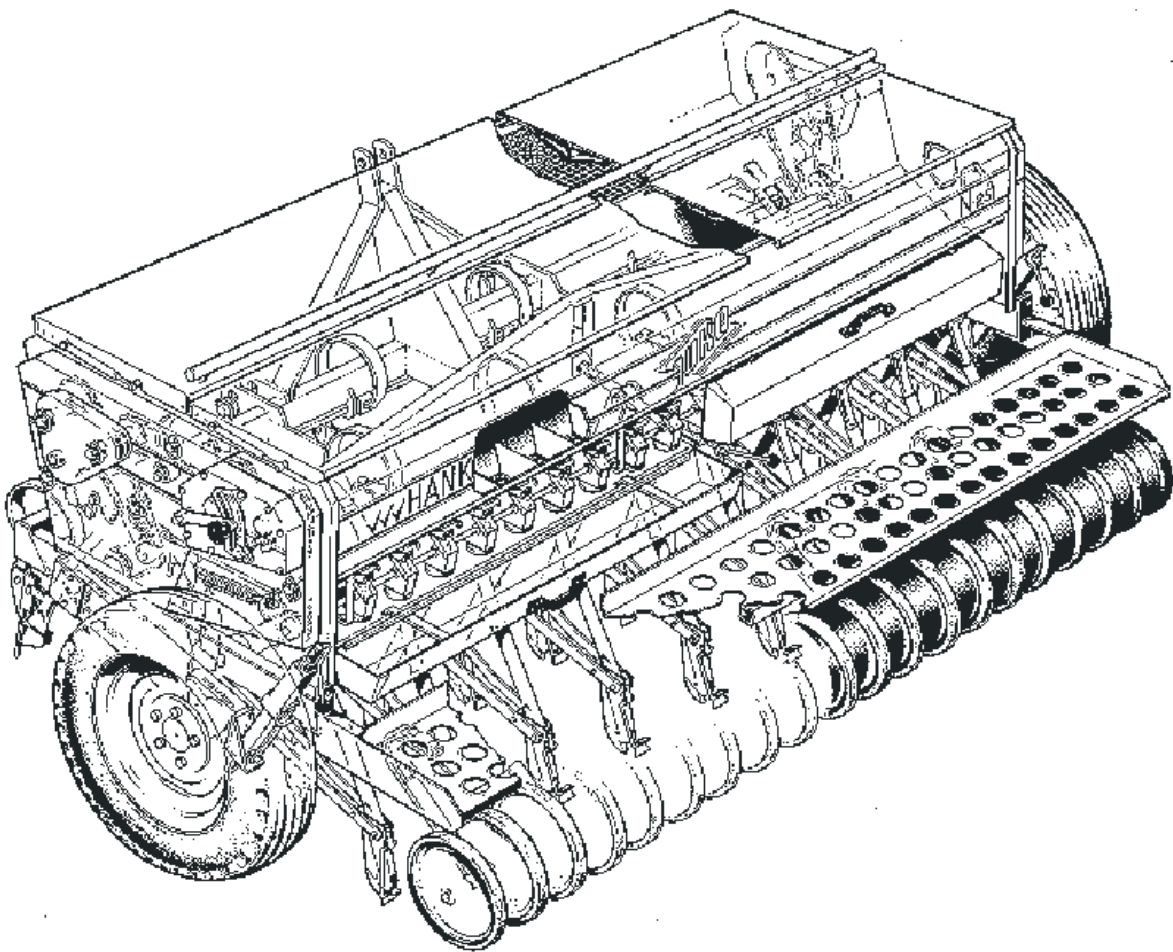


*Demeter Combiseed N25*



Users manual and Spare part list

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## 4. TRANSPORTATION AND LIFTING OF THE MACHINE

Transportation on public roads

Check the headlights and reflectors before starting off.

Make sure that the light and the warning triangle for slow vehicle can be seen.

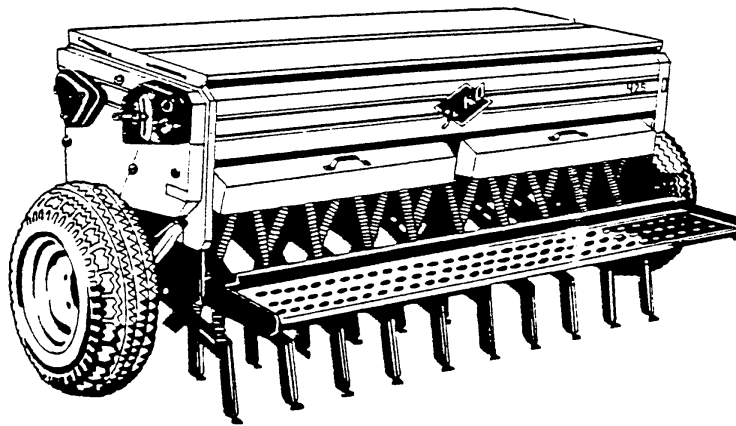
Make sure that the machine is empty of load and persons when transporting it on public roads.

Make sure that power transmission is set off when transporting the machine on public roads.

When transporting or moving the machine without using a tractor, the following instructions must be followed:

**When lifting the machine, only marked points may be used as lifting points.**

Lifting points are the bracket and links on the three-point lifting bar of the frame that are welded on the lug of the lifting cylinders on the sides of the hopper. Lifting links have been marked with a figure of lifting hook.

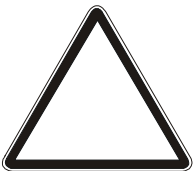


**Lifting chains and belts have to be long enough so that they do not chafe or damage the machine.**

Only approved and absolutely undamaged lifting machinery may be used in lifting the machine. The lifting machinery must be dimensioned for at least twice the weight given at the plate.

**The person who carries out the lifting must ensure that no person may at any stage go or pass under the drill.**

When moving the drill to the platform of a lorry, the provisions of road traffic legislation must be observed. Especially the total height of the load must be checked carefully. Also ensure that the load is properly tied on the platform.



When lifting the machine with a forklift or a similar vehicle, make sure the machine is not damaged.

This type of lifting is not recommended.

## 6.9.2. CALIBRATION TEST FOR FERTILIZER

A) Check that the settings for shutters and bottom flaps are the correct ones. Adjust the lever of the Optiseed rotation speed converter on the RIGHT HAND SIDE of the drill according to the settings given in the calibration chart. Tighten the locking screw carefully.

B) As there are no calibration trays for the fertilizer unit, lift the drill slightly off the ground and place a tarpaulin or plastic sheet under the fertilizer coulters to collect the fertilizer.

C) Remove the cassette on the LEFT HAND SIDE of the drill and fasten the calibration crank to the FRONT AXLE. Turn the crank IN THE DIRECTION INDICATED BY THE ARROW until all fertilizer feeder units start to feed. Pour the fertilizer from the tarpaulin back into the hopper and place the tarpaulin back in its place under the coulters.

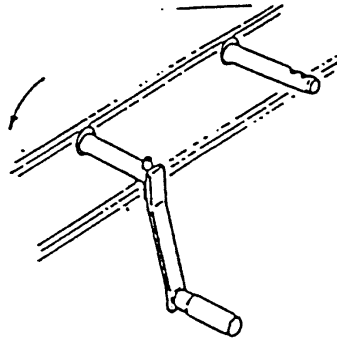


Fig. 9. Calibration test for fertilizer.

D) Turn the crank in the direction indicated by the arrow. The number of turns is the same as in the calibration test for seed (see above). This gives the quantity for 1/100 hectare.

E) The collected fertilizer is weighed and multiplied by 100 to get the quantity for 1 hectare (if all coulters are used for the test). If it is not the required, the lever setting of the Optiseed unit on the RIGHT HAND SIDE of the drill is adjusted using the calibration chart as guidance. The calibration test should then be repeated. After completing the calibration test for fertilizer, the CASSETTE MUST ABSOLUTELY BE PUT BACK IN the sowing position.

NOTE! NEVER use the area meter for calibration purposes. Too low TYRE PRESSURE WILL INCREASE the feed rates, so it must be checked regularly.

The correct pressure is:

245 kPa (2,5 bar)

## 7.4. OPTISEED ROTATION SPEED CONVERTER

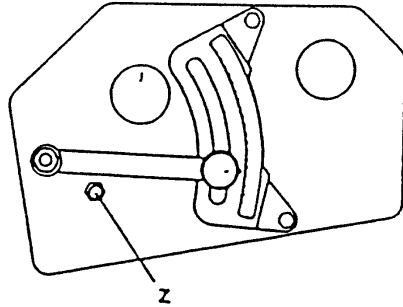


Fig. 12. Optiseed

The Optiseed rotation speed converters do not need much maintenance. Occasionally check that the oil level is close to the rim of the filling opening (Z). The oil should be changed after every 500 hours of use. Remove the old oil through the filling opening (Z) either by sucking or loosening the Optiseed and turning it. Tighten the plug again and fill new oil to the rim of the filling opening (Z), using gear oil SAE 90. The capacity is approximately 0,5 litre.

Possible repair should be done by the dealer or importer.



The screws (M8) that go through the cover of the Optiseed must be tightened carefully. The correct torque value is 1 kpm - 10 Nm. Overtightening the screw can make the cover to crack.

Item	Part.nr.	FRAME	Qty/unit
1	31922	Frame 2,5 m .....	1
2	31982	Adjusting frame, left .....	1
2	31981	Adjusting frame, right .....	1
3	31980	Wheel axle .....	1
4	53293	Ball bearing 6207 2 RS .....	2
5	31939	Ball bearing 6306 2 RS .....	2
6		Key 8x7x32, L.H. adjusting frame .....	1
7	53619	Spacer tube, R. H. adjusting frame .....	1
8	10572	Washer 25,5x35x1, R.H. adj. frame .....	1
9	53378	Circlip A 25x2 .....	2
10	31933	Guard plate .....	2
11	40951	Slotted pan head tapping screw 5,5x13 .....	4
12	31931	Guard .....	1
13	40951	Slotted pan head tapping screw 5,5x13 .....	2
14	31937	Circlip A 50x3 .....	2
15	30263	Grease nipple M 6 .....	2
<b>For L.H. adjusting frame</b>			
16	31992	Sprocket 17 T, P 15,875 .....	1
17	31930	Chain tightener .....	1
x	31958	Ring (both sides of chain tightener) .....	2
18	31929	Axle .....	1
19	10462	Washer M 12 .....	1
20	30968	Nut, hex M 12 .....	1
21	31928	Axle .....	1
22	10525	Circlip A 25x1,2 .....	1
23		Key 8x7x32 .....	1
24	31955	Sprocket 17 T, P 15,875 .....	1
25		Roller chain 5/8"x3/8" - 67 link .....	1
26	20718	Sleeve bearing PM 2520 DX .....	2
27	30263	Grease nipple M 6 .....	1
28	31941	Washer 25,5x50x1 .....	1
	<b>310938</b>	<b>SPROCKET, assy .</b> .....	<b>1</b>
29	31938	Sprocket 21 T, P 12,7 .....	1
30	31735	Overrunning clutch FC35 .....	1
	<b>310983</b>	<b>WHEEL, assy.</b>	
40	31983	Rim 9x15.3 .....	2
41	31970	Tube 10.0/75 - 15.3 .....	2
42	31971	Tyre 10.0/75 - 15.3 .....	2
43	31984	Screw, hex M 20x45 .....	12
44	52233	Spring washer M 20 .....	12
45	20645	Nut, hex M 20 .....	12
46	30911	Linkage pin .....	2
47	30930	Washer 31,5x50x4 .....	2
48	40150	Linch pin D 9 .....	2
49	30740	Washer 36,5x55x2 .....	1
50	63535	Circlip A 35x1,5 .....	1

Items marked with X not shown.

Item	Part.nr.	HOPPER, FERTILIZER UNIT	Qty/unit
	<b>310203</b>	<b>ADJUSTING LEVER, assy</b> .....	<b>1</b>
37	31203	Lever .....	1
38	10325	Spring .....	1
39	10220	Catch .....	1
40	10344	Ball-headed rivet 5 x 20 .....	2
41	31693	Hexagon bolt M 8 x 45 .....	1
42	20554	Washer 10 x 30 x 2 .....	1
43	30969	Nut, hex. M 8 .....	1
44	32602	Fertilizer tube .....	10
<b>46</b>	<b>310945</b>	<b>CHAIN GUARD, assy.</b>	
x	31945	Chain guard .....	1
x	31960	Place .....	1
x	31213	Rivet, Pop 3,2 x 10 .....	3
47	31944	Chain guard .....	1
48	31948	Pin .....	2
49	10784	Washer M 8 .....	4
50	57535	Screw, hex. M 8 x 16 .....	4
51	40150	Linch pin D 9 .....	4
52	32636	Sieve .....	2
		Placed in front of the fertilizer hopper, on the inner side of the hopper end:	
53	310950	Calibration crank .....	1
54	31951	Bracket for calibration crank .....	1
x	41614	Bottom cone for hopper .....	4
x	53503	Washer M 6 .....	4
x	41649	Nut, hex. M 6 AISI .....	4
55	31993	Tap .....	2

Items marked with X not shown.

Item	Part.nr.	ROTATION SPEED CONTERTER	Qty/unit
<b>310765 ROTATION SPEED CONVERTER, assy</b>			
1	31765	Casing (back part) .....	2
2	31764	Casing (front part) .....	2
3	31782	Hexagon socket screw plug R 1/4" .....	2
4	31707	Axle .....	2
5	31730	Spacer ring .....	4
6	31706	Cam disc .....	6
7	31738	Bush .....	4
8	55851	Ball bearing 6004-2RS .....	8
9		IRS .....	4
10	30237	Sprocket 30 T, P 12,7, for seed .....	1
10	30238	Sprocket 15 T, P 12,7, for fertilizer .....	1
11	10838	Circlip A 20 x 1,2 .....	4
12	31708	Axle .....	2
13	20524	Sprocket 20 T, P 12,7, for seed .....	1
13	40258	Sprocket 52 T, P 12,7, for fertilizer .....	1
14	31701	Stop plate .....	2
15	20618	Washer 22 x 38 x 1,5 .....	4
17	31742	Bracket, for spring (items 18 and 19) .....	4
18	31740	Tension spring 12-1,2-120-83 .....	6
19	31741	Tension spring 12-1,2-70-41 .....	6
21	31464	Screw, hex. M 8 x 80 .....	12
21	60339	Screw, hex. M 8 x 90.....	4
22	30969	Nut, locking .....	16
23	31733	Bracket plate (small) / seed unit .....	1
23	31713	Bracket plate (large) / fertilizer unit .....	1
24	31714	Guard (small) / seed unit .....	1
24	31743	Guard (large) / fertilizer unit .....	1
25	32703	Indicator lever .....	2
26	10462	Washer M 12 .....	2
27	30968	Nut, hex. M 12 .....	2
28	57229	Screw, locking. M 12 x 40 .....	2
29	31745	Star knob M 12 .....	2
30	57535	Screw, hex. M 8 x 16 .....	10
31	10784	Washer M 8 .....	10
32	30969	Nut, hex. M 8 .....	10
33	310718	Push red .....	6
x	31810	O-ring OR 15,3x2,4 .....	2

Items marked x not shown.

Item	Part.n:o	FERTILIZER DISC COULTER	Qty/unit 2,5
1	30998	Bracket . . . . .	10
2	31199	Screw, hex M12x50 . . . . .	10
3	10462	Washer M12 . . . . .	10
4	56448	Nut, locking M12 . . . . .	10
5	35422	Spring, coulter . . . . .	10
6	32478	Coulter boot, front . . . . .	5
x	32477	Coulter boot, rear . . . . .	5
7	32480	Funnel, front . . . . .	5
x	32479	Funnel, rear . . . . .	5
8	38409	Disc . . . . .	10
9	52624	Z-lamell . . . . .	10
10	38410	Ball bearing 6304RS . . . . .	20
11	10719	Circlip A20x1,75 . . . . .	10
12	38407	Housing, bearing . . . . .	10
13	56627	Cover . . . . .	10
14	52427	Circlip J52x2 . . . . .	10
15	10350	Washer, spring M8 . . . . .	10
16	30985	Screw, hex M8x25 . . . . .	40
17	13429	Screw, hex M10x40 . . . . .	10
18	10760	Nut, hex M10 . . . . .	10
19	32483	Rubber plate . . . . .	10
20	32484	Rubber plate . . . . .	10
21	58835	Screw, locking M10x40 . . . . .	30
22	10607	Washer M10 . . . . .	30
23	57379	Nut, locking M10 . . . . .	30

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