

Operating Instructions

Semi-Mounted Reversible Ploughs

Euro SM



Safety is our concern!

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DEFINED USE



- Read and adhere to these "General Health- and Safety precautions" before putting the plough to work!
- The EURO SM range of ploughs has been designed purely for cultivation of agricultural soil!

• Any use beyond the one stipulated above is no longer considered as defined use. The manufacturer does not accept any responsibility for damages resulting from this; the operator himself carries the full risk!

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- Under "defined use" the manufacturer's prescribed operation-, maintenance- and repair conditions are to be adhered to!
- The EURO SM plough may only be operated, maintained and repaired by such persons who have been made acquainted with it and who have been advised about the dangers!
- The applicable accident prevention advice as well as the generally accepted safety technical, working, medical and road traffic rules should be adhered to!
- Any damages resulting from arbitrary changes on the machine rule out the responsibility of the manufacturer!

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SAFETY TECHNICAL ADVICE



- Read and adhere to these "General Health- and Safety precautions" before putting the plough to work!
- The fitted warning- and advising plates give important hints for riskfree operation. Following these helps your own safety!

regulations!

When making use of public roads adhere to applicable road traffic

• The operator should familiarise him-/herself with all controls and their functions before staring work. During work could be too late!

EXEMPERATE

- Ensure good visibility before driving off!
- Sitting or standing on the implement during operation or during transport is not permissible!
- Attach implements as advised!
- Special care should be taken when the implement is coupled to or uncoupled from the tractor!
- Adhere to the maximum permissible axle loads, total weights and transport measurements!
- The release ropes for quick coupler should hang freely and in the lowered position must not release the quick coupler by themselves!
- Never leave the drivers seat whilst in motion!
- Mount the implement as prescribed. Handling characteristics are influenced by mounted implements, trailers and ballast weights. Check sufficient steerability and braking!
- When driving round bends note the width of the machine and/or the changing centre of gravity of the implement!
- Never stay or allow anyone to stay within the operating area!
- Do not operate any hydraulic controls while anybody is in the operating area!
- Before leaving the tractor lower the machine to the ground. Apply the parking brake, stop the engine and remove the ignition key!
- Do not allow anybody between the tractor and implement if the parking brakes are not applied!
- Repair-, maintenance-, cleaning- and operations and adjustments should be carried out with tractor brakes applied and engine switched off. Remove ignition key!
- When conducting maintenance work on a lifted implement always place suitable supports underneath!
- Dispose of old oils, grease and filters as prescribed by law.
- Any spare parts fitted must in minimum meet with the implement manufacturer's fixed technical standards. This is ensured by using genuine spareparts!
- When conducting electrical welding operations on the tractor or on the mounted implement remove cable from the generator and the battery!

Before working on the electric gear disconnect battery cables!



Attachment of the implement

- When fitting the machine to the three-point linkage of the tractor bring all control levers into such a position that unintentional lifting or lowering is impossible!
- When fitting to the three-point linkage the mounting categories at the tractor and the implement must be compatible or must be made compatible!
- There is a danger of being crushed in the area of the three-point linkage. Be careful!
- When actuating the control levers for the three-point linkage from outside the tractor cab never step between tractor and implement!
- Ensure that sideways swing is minimised when the plough is in the transport position!
- When driving on public roads with a lifted machine the lifting control lever should be locked against unintentional lowering!
- In the event of any damage occurring to the plough its remedy should be completed before work continues!

Hydraulic assembly

- The hydraulic system is under high pressure!
- Always release hydraulic pressure from both tractor and implement before coupling!
- To avoid wrong hydraulic connection sockets and probes should be marked. This helps to prevent contrary function and reduces the danger of accident!
- Regularly check hydraulic hoses and pipes and exchange if found defective. The replacement hoses and pipes must meet with the implement manufacturer's technical standards!
- When searching for leaks appropriate aids should be used because of the danger of injury!
- Liquids leaking under high pressure (Diesel fuel, hydraulic oil) can penetrate the skin and cause severe injury. When injured see a doctor immediately! Danger of infection!
- Before starting any hydraulic repair work, lower the plough to the ground and stop engine and release system pressure!

Tyres

- When working on the tyres make sure that the implement has been placed on the ground safely and that it is secured by chocks against unintentional rolling!
- Fitting tyres requires knowledge and special tools!
- Repairwork on tyres may only be conducted by trained staff and with suitable tools!
- Check air pressure regularly and adhere to the advised air pressure!



1 WARNING STICKERS



WARNING: KEEP WELL CLEAR OF THE WORKING AND SWINGING AREA OF THE IMPLEMENT!



WARNING: KEEP WELL CLEAR OF THE TURNING AND SWINGING AREA OF THE IMPLEMENT!



WARNING: PINCH POINT!



2 TYRES

Ensure that all are at the manufacturer's recommended pressures, that left and right hand side tyre pressures are identical and state of wear is approximately the same. For heavy conditions it may be necessary to add wheel weights and/or water ballast. (See Manufacturer's Instructions).



2.1 Lift Rods

Adjust lift rods to equal length. (See manufacturer's instructions.)

2.2 Check Chains or Sway Blocks of the Three Point Linkage

Check chains or sway blocks MUST be adjusted so that the lower links are fixed in their middle position.

2.3 Hydraulics

The hydraulics must be set to 'Position control' during work. A double acting spool valve is required for the hydraulic turnover device and a second one is required for the working width adjustment ram. A single acting spool valve is required for the depth adjusting ram of the wheel.

2.4 Hydraulic equipment

The following spool valves must be available at the tractor:

	Required spool valves		
	single acting	double acting	
Turnover device		1	
Hydraulic front furrow width adjustment		1	
Depth wheel	1		
Attachment arm	1		

The hydraulic assembly must have an operating pressure of minimum 160 bar. An oil flow of at least 30 l/min is a precondition for a quick turnover operation.



3 ATTACHING AND DETACHING THE PLOUGH

3.1 Attaching to the Tractor

Attach the plough which must be parked in right-handed working position as follows:

- Set tractor hydraulics to 'Position Control'.
- Attach lower links to the drawbar (13) and secure.
- Fix lower links by means of the check chains or sway blocks.
- Fit top link and adjust its length so that the headstock axle (2) of the headstock (7) is vertically in working position.
- Raise lower links slightly, swing up stand (14) and secure.
- Make hydraulic connections, ensuring that they are clean. The hydraulic hoses of the turnover mechanism, the hydraulic working



width adjustment and the hydraulic front furrow width adjustment will be fitted to double acting spool valves and the hydraulic hose of the depth adjustment will be fitted to a single acting spool valve.

Fit warning boards and lighting equipment, if the plough has to be transported on public roads.

For transport the plough frame must be turned in halfturned position! After that the lock valves (SP) of both rams (21) must be locked!

Warning: After attaching, it must be checked whether, with fully lifted linkage, sufficient clearance between lower links and headstock will be kept. Furthermore it must be checked, if it is possible to angle the plough to the tractor by 90°. The manoeuvrability is limited, if the tractor is wider that 260 cm.





- Before the first turnover operation the upper hydraulic ram must be completely extended!
- The hydraulic ram is completely extended when the distance between the centre of the mounting pins is approx. 103 cm!



3.2 Detaching from the Tractor

The plough must always be parked in right hand working position and on level and firm ground.

- Set tractor hydraulics to 'Position Control'.
- Turn plough frame into the right-handed working position and lower the plough a little.
- Stop tractor engine and move the auxiliary spool valve levers to and fro to relieve the oil.
- Remove hydraulic hoses and fit protective caps.
- Swing stand (14) down and secure.
- Lower the plough completely.
- Remove top link from headstock (7).
- Before removing lower links from drawbar (13), ensure that the parked plough will be stable.
- Remove the lower links from the drawbar (13).

Important: The headstock is in angled position with detached plough. This makes it more difficult to attach the plough to the tractor. Therefore it is recommendable to set the

headstock straight by means of the vertical adjuster screws (20). This makes the next attaching easier. Note the amount of the adjustment

3.3 Drawbar

With the Euro SM 9 ploughs the drawbar (13) is connected to the the headstock (7) by the slotted holes.

The drawbar (13) must always be fitted in the upper position.

3.4 Linkage K 700

The headstock (7) of the Euro SM 9 ploughs can be equipped with a headstock extension (TV) with suited drawbar, when the plough shall be fitted to a 'Kirovets' tractor (for example K 700).

(With an Euro SM 8 plough this is not possible). The headstock extension (TV) with top link pin will be fitted to the headstock (7) as shown in the picture ED-06.

Tighten bolts carefully.







- Read and adhere to these "General Health- and Safety precautions" before putting the plough to work!
- Adhere to the maximum permissible axle loads, total weights and transport measurements!

• The release ropes for quick coupler should hang freely and in the lowered position must not release the quick coupling by themselves!

EXEMSEN

- Attach the implement as described!
- When fitting the hydraulic hoses to the tractor hydraulic sockets always ensure that the hydraulic system at the tractor's as well as at the implement side is without pressure!
- To avoid wrong hydraulic connection sockets and probes should be marked. This helps to prevent contrary function and reduces the danger of accident!
- Regularly check hydraulic hoses and pipings and exchange if found defective. The replacement hoses and pipings must meet with the implement manufacturer's technical standards!
- When fitting the machine to the three-point linkage of the tractor bring all control levers into such a position that unintended lifting or lowering is impossible!
- When fitting the machine to the three-point linkage the mounting categories at the tractor and the implement must be compatible or must be made compatible!
- There is a danger of being crushed in the area of the three-point linkage. Be careful!
- When actuating the control levers for the three-point linkage from outside the tractor cab never step between tractor and implement!

4 TURNING OF THE PLOUGH FRAME

Turn the plough frame, only, with plough atttached to the tractor. The hydraulic rams (21) of the turnover mechanism must be connected to a separate double acting spool valve via its hydraulic hoses. To turn and to reverse the plough operate as follows:

Set spool valve to pressurise the port of the lower ram. Set spool valve to 'Neutral position N' after the plough frame has turned 120 ° - 135 °, to interrupt the turnover operation. Reverse tractor and plough on the headlands. Complete the turnover operation by setting the spool valve lever to the same pressure position as before. For the next turnover operation into the opposite working position set spool valve to the opposite position "H".



- Before turning the plough ensure that there are no persons in the turning- and swinging area of the plough.
- Operate the turnover mechanism from the tractor seat, only!
- Do not over-angle the hydraulic hoses!
- Keep always the hydraulic couplings clean!
- Replace damaged hydraulic hoses immediately!



5 TRANSPORT

For transport turn the attached plough into the half-turned position and lock the turnovermechanism by closing the lock-valves (SP).

(Fit marker boards and lighting equipment when using public roads.)

Lift the plough in front (with tractor power lift) until there is sufficient clearance between plough and ground and lower the plough in the rear (with hydraulic ram of the wheel). Do not lift the plough fully in front. The distance between the drawbar and the ground must be in the range of 95 cm to 100 cm. Set the control levers of the spool valves in such a position that unintentional lifting or lowering is impossible.

The maximum allowed transport speed is 30 km/h. On uneven roads drive with reduced speed.

• With fully lifted tractor hydraulics the manoeuvrability is limited.



- Regularly check hydraulic hoses and pipes and exchange if found defective. The replacement hoses and pipes must meet with the implement manufacturer's technical standards!
- Sitting or standing on the implement is not permissible!
- When driving on public roads with a lifted machine the lifting control levers should be locked against unintentional lowering.

6 REVERSING ON HEADLANDS

The width of the headlands should be between 16 m and 22 m. It depends on the manoeuvrability of the tractor, the length of the plough and the field conditions. When reaching the headlands, the tractor will be steered to the ploughed side and the turnover operation will be started by setting the spool valve lever of the turnover device into the first pressure position. The plough frame should be turned by about



120° - 135° and must be held then in this position by setting the spool valve to the 'Neutral position'. Then the tractor will be steered to the unploughed land. When entering the next furrow, the turnover operation will be completed.

Important: For the turnover operation, it is not necessary to lift the front or the rear end of the plough. With fully lifted plough, the manoeuvrability of the tractor may be reduced.



- Sitting or standing on the implement during operation or transport isn't permissible.
- Keep well clear of the lifted or turning plough!
- Operate the hydraulic equipment only, when no persons are in the swinging and working area of the plough and the equipment.
- In hilly conditions the stability of the tractor is reduced. Pay therefore attention to a wide wheel distance and sufficient weight or ballast (See manufacturer's instructions)!



7 ADJUSTMENTS

7.1 Front furrow width

The front furrow width will be adjusted by means of the turnbuckle (9) or an hydraulic ram.

Turnbuckle/ram longer = wider front furrow Turnbuckle/ram shorter = narrower front furrow

Instead of the turnbuckle a double acting hydraulic ram can be used. Therewith the front furrow width can be adjusted from the tractor seat.

Hydraulic ram longer = wider front furrow Hydraulic ram shorter = narrower front furrow

7.2 Working depth

With the Euro SM 8 ploughs the working depth will be adjusted in the rear by means of using the pin adjuster (25). The pin adjuster has a removable grip lock at each end. Before adjusting the pin adjuster remove the grip lock. After the depth adjustment secure the pin adjuster by means of the grip lock and the securing pin.

With the Euro SM 9 ploughs the working depth will be adjusted in the rear by means of the adjuster sleeve (VM) of the hydraulic ram.

For the adjustment open the ram (30) a little to unload the pin adjuster (25), respectively the adjuster sleeve (VM)

The ram can be used, too, to lift the rear end of the plough whenever it is required. In front, the furrow depth will be adjusted by means of the tractor power lift.

The tractor hydraulics should be set to position control during work.

7.3 Angle adjustment

With the plough in work at its required depth, the legs should be approx. vertical when viewed from the rear. This adjustment is achieved by use of the vertical adjuster screws (20). Adjust the angle at follows:

Raise the front of the plough a little and lower it again to unload the adjuster screw (20) concerned. Adjust the angle as required, use a 46 mm spanner.











During work, the three point linkage must be fixed laterally. If the tractor shows too much side pull, this can be reduced by adjusting the three point linkage laterally. This must be done for both sides and equally. The three point linkage is then free in a limited/adjusted way. This adjustment influences the front furrow width.

7.5 Slippage

If the tractor shows too much slippage the pivot pin (12) must be fitted into the upper bore (O). The adjustment may only be done when the plough is in working position, supported and fitted to the tractor. After the change of the bore positions secure pin (12) carefully. Only possible with the Euro SM 9.

7.6 Load on front axle

7.4 Side pull / alignment

If the front of the tractor is too light when in

work, the pivot pin (12) must be fitted into the lower bore (U). As standard the pivot pin is fitted in the upper position. Secure pin (12) carefully afterwards. Only possible with the Euro SM 9.

8 WORKING WIDTH PER BODY

After loosening the central bolt (55) and changing the adjuster bolt (56) it is possible to adjust 4 different working widths. The stated working width are approximate ones.

- B1 = 33
- B2 = 38
- B3 = 44
- B4 = 50

When changing the working width per body at the wheel arm (R) the draw support (Z) must be connected to one of the 4 bores (RB) so that the wheel runs parallel to the working direction during work and that in accordance to the above table.







9 SHEARBOLTS

All EURO SM and EURO SM X ploughs are fitted with shearbolts (40) as standard.

IMPORTANT: Only genuine LEMKEN shearbolts should be used. There is a serious risk of damage if other bolts are used and any warranty will be void. Be very careful of the guillotine effect of a pivoting leg assembly and its support plates. To replace a broken shearbolt proceed as follows:

Raise plough a little and slacken pivot bolt (42). Remove broken sections of old shearbolt (40). Swing body back into position.

Fit new shearbolt of correct type and tighten securely.

Securely tighten pivot bolt (42).

NOTE: In conditions where frequent failure of the shearbolt is experienced.

Ensure that both shearbolt and pivot bolt are securely tightened.

After a number of shearings, it will be found an advantage to replace the pivot bolt (42).

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Shearbolt		
Part No.	Dimension	
301 3424	M 12X75 LS 57X15 - 10.9	
301 3409	M 12X70 LS 52X15 - 12.9	
301 3607	M 14X85 LS 61X20 - 10.9	
301 3595	M 14X70 LS 51X15 - 12.9	
	Shearl Part No. 301 3424 301 3409 301 3607 301 3595	



- In the shearing area are pinch points. Keep distance!
- Sitting or standing on the implement during operation is not permissible!
- The body trips upwards when a shear bolt shears. Keep distance!





10 EURO SM X WITH AUTOMATIC RESET LEGS

The automatic overload safety device protects the plough from damage when an obstacle is encountered. The mechanism breaks back upon impact and automatically returns the body to the working position once the obstacle has been passed. Additionally, each leg is fitted with a shearbolt (40) for protection when the body 'hooks' an obstacle.

The preload on the breakback springs (36) is set at the factory for average conditions. In heavy conditions, this can be adjusted so that the legs only break back when an obstacle is encountered rather than through normal ploughing loads.

Adjust the mechanism as follows:

Tighten screws (35) 2 - 4 turns. This should prove adequate.

Should the mechanism still trip without meeting an obstacle, tighten screws (35) a further 2 - 3 turns.

IMPORTANT: It is essential that all 4 screws on each leg assembly are adjusted equally to ensure operation.

- Never stay or allow anyone to stay within the operating area!
- Sitting or standing on the implement during operation is not permissible!
 - Repair-, maintenance-, cleaning operations and adjustments should be carried out with tractor brakes applied and engine switched off. Remove ignition key!
- The body trips upwards when a shear bolt shears. Keep distance!

11 BODIES

To check correct pitch, measure from plough frame to underside of new point and end of landslide. Frame to point measurement should be 1,5 cm (5/8 in) greater than frame to landslide.

This setting is for average conditions. To improve penetration, increase pitch by a small amount on each body. Slacken bolt (54) and adjust setscrews (53). Tighten bolt (54).



Excessive pitch will increase draft and effect depth control.

Having set one body as required, note measurement from point to beam and adjust remainder to the same measurement. Finally check alignment of all points and make any minor adjustments that are necessary.

12 SKIM COULTERS

12.1 General Instructions

The skim coulters (65) should be finally set when the plough is operating at the required depth and speed. The skim point should be set to a depth between 5 and 10 cm (2 - 4 in) and the tip of the point set to run 2 - 3 cm ($3/4 - 1 \frac{1}{4}$ in) to the landside of the body. If discs are fitted, that measurement may be a little bit smaller.

EXEMPERATE

In connection with the angle adjustment the swivel bracket (SK) can be fitted to the bracket (K) in three different positions. So an optimal lateral position of the skimmers is always guarantied also in connection with disc coulters.

12.2 Depth Adjustment

Adjust the depth adjustment of the skimmers with flat skims (66) by means of the adjuster pin (67). The depth adjustment of skimmers with round stalks (68) will be adjusted by means of the setscrews (69). After each adjustment the adjuster pin and the setscrews must be secured.







12.3 Angle adjustment

Adjust the depth of flat stalk skims (66) by means of the adjuster pins (67). Use clamping screw (69) for depth adjustment with skimmer having a round stalk (68). The angle is not adjustable with those skimmers which have their flat stalk fitted directly to the leg bracket. Otherwise the angle is steplessly adjustable by means of the clamping bolts (69) for skimmers with round stalks (68) or step controlled by means of the adjuster pins (75) with skimmers having flat stalks (66) by angle adjuster (76).

13 TRASHBOARDS

Bolt carrier (78) of the trashboard (77) to the holes provided in the top of the mouldboard (142). Fit trashboard (79) to the carrier and adjust for optimum trash 'mix'. Adjust support-bolt (80) so that it touches the leg. Secure bolt (80) by means of locknut (81).

14 COULTERS

14.1 Sword Coulters

Sword coulters (83) are available. They are recommended for tough and heavy conditions and provide a clean cut of a furrow wall. It is recommendable to provide - at least - the rear bodies with a coulter.

14.2 Disc Coulters

14.2.1 General Instructions

When fitted, disc coulters (93) should be set to a working depth of 7 - 9 cm $(2 \frac{3}{4} - 3 \frac{1}{2} \text{ in})$ and 2 - 3 cm $(\frac{3}{4} - 1 \frac{1}{4} \text{ in})$ to the landside of the body.

14.2.2 Adjustments

Adjust depth by slackening setscrew (90), move arm (91) as required then, after checking that serrations mesh correctly, securely tighten setscrew (90). Use pin (96) to adjust the depth of the spring loaded disc coulters (Euro SM X). For lateral adjustment, slacken setscrew (95) and swing arm (94) to give required setting. Securely tighten setscrew (95). Use clamping bolts (97) to limit the castor effect of the disc-coulter. The beam (B) shows a number of holes which give further fore and aft fitting positions for the bracket and the disc coulter.









IMPORTANT: All locking setscrews should be very tight after adjustment.

15 WIDE FURROW CUTTERS

If the tractor is equipped with wide tyres, it is recommendable to use a wide furrow cutter (BFM). This wide furrow cutter must be fitted to the landslide of the rear body.

If the plough is equipped with C-bodies, to the rear body the landslide 340 1450 must be fitted so that the holder (HL) or (HR) of the wide furrow cutter can be fitted. Two free bores must be available at the rear landslide.

The wide furrow cutter increases the furrow of the rear bodies. It can be used in light and medium soil conditions. The wide furrow cutter provides a 15 cm wider but less deep furrow. It influences the height and width of a furrow which will look - especially in heavy soils unequal. After a qualified seedbed preparation or after a natural re-consolidation period, the land is level again.

The wide furrow cutter is available in two



versions. For shallower working depths the version with the holder (HL) is required. For a deeper working depth (15 cm and more) the version with the holder (HR) is required. The distance (A) amounts to 50 mm with the holder (HL) and 110 mm with the holder (HR). The part No. of the holder (HL) is 457 2961 and that one of the holder (HR) 457 2960.



16 SUBSOILERS

The subsoiler UD6 will be fitted as shown in the sketch. By means of displacing the stalk (102) the working depth of the subsoiler can be adjusted.

Maximum working depth = 20 cm Minimum working depth = 14 cm

For the adjustment of the working depth the pin (104) must be unlocked and pulled out and the stalk (102) removed accordingly in the bracket (105). After the adjustment the the stalk (102) must be fitted again and secured. The stalk (102) is protected by shin (101). Also the shin (101) and the tine (100) can be replaced when worn after removal of nut (103).



IMPORTANT: When a plough is parked with subsoilers, the subsoilers of the lower side of the plough must be pulled out and removed after unlocking the pins (104) in order to secure the stability of the plough.

17 TYRES

The max. or min. allowed pressures are listed below. The pressure information of previously used wheels or other wheels are also listed below.

Wheel	profile	Ply-rating PR	min. pressure (bar)	max. pressure (bar)	
400/60-15.5	T 404	8	2,2	2,8	
38x20.00-16.1	STG	10	2,5	2,8	
38x20.00-16.1	STG	8	2,5	2,8	

The stated maximum pressures must not be exceeded! The minimum pressures may also not be reduced, in order to prevent overwork of the tyres and thus damage to the tyres.



- When working on the tyres make sure that the implement has been placed on the ground safely and that it is secured by chocks against unintentional rolling!
- Fitting tyres requires knowledge and special tools!
- Repairwork on tyres may only be conducted by trained staff and with suitable tools!

Check air pressure regularly and adhere to the advised air pressure!



18 TRANSPORT ON PUBLIC ROADS

The general traffic rules have to be adhered, too!

The max. allowed transport speed is 25 miles per hour. On bad roads the speed must be reduced accordingly.

Attention: During work the lighting equipment and warning boards must be removed, in order to prevent damage.

19 NOTES

It must be stated that these instructions apply only to the current design.

20 NOISE, AIRBORNE SOUND

The noise level of the EURO SM ploughs does not exceed 70 dB (A) during work.

21 TECHNICAL DATA

Туре	Max. KW/HP	Working width (cm)	Weight (kg) without equipment
EURO SM 8 5 N 100	110/150	175-260	2.054
EURO SM 8 5+1 N 100	125/170	210-312	2.282
EURO SM 8 6 N 100	125/170	210-312	2.272
EURO SM 8 6+1 N 100	132/180	245-364	2.510
EURO SM 8 X 5 L 100	110/150	175-260	2.299
EURO SM 8 X 5+1 L 100	125/170	210-312	2.576
EURO SM 8 X 6 L 100	125/170	210-312	2.566
EURO SM 8 X 6+1 L 100	132/180	245-364	2.853
EURO SM 9 5 L 100	132/180	165-250	2.200
EURO SM 9 5+1 L 100	155/210	198-300	2.450
EURO SM 9 6 L 100	155/210	198-300	2.430
EURO SM 9 6+1 L 100	177/240	231-350	2.690
EURO SM 9 7 L 100	177/240	231-350	2.670
EURO SM 9 7+1 L 100	<140/190	264-400	2.920
EURO SM 9 7+1+1 L 100	<140/190	297-450	3.170
EURO SM 9 X 5 L 100	132/180	165-250	2.500
EURO SM 9 X 5+1 L 100	155/210	198-300	2.810
EURO SM 9 X 6 L 100	155/210	198-300	2.790
EURO SM 9 X 6+1 L 100	177/240	231-350	3.210
EURO SM 9 X 7 L 100	177/240	231-350	3.190
EURO SM 9 X 7+1 L 100	<140/190	264-400	3.670



• All ploughs with a Max. KW/HP rating of 96/130 and above must be fitted with Category III cross shafts (either 461 7923 Cat III/II or 461 7925 Cat III/III).

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22 MAINTENANCE

The Euro SM plough requires a little maintenance, only. All pivot points must be greased regularly with an environmentally friendly grease according to the following table. For a long operation break all smooth areas of wearing parts, pins and adjusting devices must be greased.

	10 w	all 50 orking hou	100 rs	Before and after a long Winter break
Pivot points of turnover device and stabilizer		х		х
Ram eyes and rocker arms	х			х
Headstock	х			Х
Turnbuckle				Х
Pivot points of wheel arm		х		Х
Bearing of depth wheel			х	Х
Pivot points of overload device	х			Х
Bearings of disc coulters			x	X