

Translation of original Oprating Instructions

Lawn Maintenance Machine Super 500

270.005

From equipment I.D. No. : 10102700011141091

Status : November 2014

270 99 01



EC DECLARATION OF CONFORMITY

We

2

Wiedenmann GmbH Am Bahnhof 89192 Rammingen

declare under our sole responsibility that the product

Lawn Maintenance Machine Super 500

to which this declaration refers, corresponds with the relevant basic safety and health requirements of the machinery directive 2006/42/EC.

Rammingen, the 26.06.2010	Horst Wiedenmann Managing Partner	
(Place and date of issue)		
	(Name, function and signature of authorised person)	

Rammingen, the 26.06.2010	Peter Rischar	
(Place and date of issue)	Technical office manager Authorised representative for tech. documentation	
	(Name, function and signature of authorised person)	

NOTE: The declaration of conformity is no longer valid if changes are made to the machine that have not been agreed with the manufacturer.



Declaration of conformity

We

Wiedenmann GmbH Am Bahnhof 89192 Rammingen

hereby declare that the product

Lawn Maintenance Machine Super 500

referred to by this declaration complies with the requirements of Machinery Directive 2006/42/EC.

Rammingen, the 26.06.2010

(Place and date of issue)

Sales Manager (Name, function and signature of authorised person)

Karl Wiedenmann

3

Rammingen, the 26.06.2010	Harald Reuen	
(Place and date of issue)	Operations Manager	
	(Name, function and signature of authorised person)	

Wiedenmann GmbH Am Bahnhof D 89192 Rammingen Tel. No. : +49 (0) 7345 / 953-0 Fax No. : +49 (0) 7345 / 953 233 E-mail : info@wiedenmann.de Internet : http://www.wiedenmann.de

Preface

- **READ THESE OPERATING INSTRUCTIONS** carefully to learn how to operate and service your machine correctly. Failure to do could result in personal injury or equipment damage. These operating instructions and safety signs on your machine may also be available in other languages (see your dealer to order).
- **THESE OPERATING INSTRUCTIONS SHOULD BE CONSIDERED** a permanent part of your machine and should remain with the machine when you sell it.
- **MEASUREMENTS** in these operating instructions are given in metric units. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.
- **THE DESIGNATIONS "RIGHT" AND "LEFT"** are applicable to the trailed device moving in forward direction.
- **WRITE PRODUCT IDENTIFICATION NUMBERS** (P.I.N.) in the "Technical specifications" section. Record all the numbers accurately. These numbers help to trace the machine should it be stolen. Your dealer also needs these numbers when you order spare parts. File the identification numbers in a secure place off the machine.
- **BEFORE DELIVERY**, your dealer carried out an inspection to guarantee optimum functioning of the machine.
- THE LAWN MAINTENANCE MACHINE SUPER 500 IS SOLELY intended for conventional maintenance of lawns (INTENDED USE).

This includes following tasks:

4

- Gathering and collecting cuttings, leaves and twigs
- Mowing lawns, parks, recreational areas, golf courses, extensively cultivated areas and eco-meadows using the multifunction head
- Verticutting golf courses and sports fields with different line distances using the multifunction head
- Breaking up of cores and output of said by means of the special assembly set option with a slightly opened trap.

NOTE: The machine is NOT designed for picking up balls of earth and similar materials.

Use in any other way is considered as contrary to the intended use. The manufacturer accepts no liability for damage or injury resulting from this misuse. These risks must be borne solely by the user. Compliance with and strict adherence to the conditions of operation, service and repair as specified by the manufacturer is also regarded as intended use.

- **FORESEEABLE INCORRECT USE/MISUSE**. It is not permitted to use the trailed device to transport persons or things. The machine is NOT designed for picking up balls of earth and similar materials.
- **THIS MACHINE SHOULD BE OPERATED,** serviced and repaired only by persons familiar with all its particular characteristics and acquainted with the relevant safety rules (accident prevention). The accident prevention regulation, all other generally recognized regulations on safety and occupational medicine and the road traffic regulations must be observed at all times. Any arbitrary modifications carried out on this machine will relieve the manufacturer of all liability for any resulting damage or injury.

TABLE OF CONTENTS

* *

Page

5

* * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
1.0. Safety	y measures
1.1.	Safety decals
1.2.	Notes on safety15
1.3.	Safety features 16+17
2.0. Assemb	oly
2.1.	General Information
2.2.	Electric connection to battery
2.3.	Connecting the control unit19
3.0. Trans	port
3.1.	General Information
3.2.	Super 500 transportation
4.0. Attack	ning to a tractor
4.1.	General Information
4.2.	Adjusting the drawbar23
4.3.	Adjusting the PTO-shaft24
5.0. Detach	ning from the tractor
5.1.	General Information25
5.2.	Dismantling25
6.0. Before	e initial operation
6.1.	General Information
6.2.	Setting the working height
6.3.	Setting the protection roller
6.4.	Description of the individual
	functions on the control unit
7.0. Operat	tion
7.1.	General Information
7.2.	Hydraulic lever
7.3.	Transport and road journeys
7.4.	Start-up
7.5.	Flail mowing or verticutting with
	the multifunction head
7.6.	Sweeping with the sweeping head
7.7.	Converting the perforated panel
7.8.	High-ievel emptying
7.9.	Troubleshooting
7.10 7.11	$ \begin{array}{c} Start up$
/.11	. Emplying the container

Page * * * * *

* * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
8.0. Mainter	nance
8.1.	General Information
8.2.	Lubricating greases
8.3.	Maintenance table
8.4.	Dismantling the drive protection
8.5.	Lubricating points
8.6.	Gearbox
8.7.	Changing the V-ribbed belt of
	the multifunction head54+55
8.8.	Hydraulic system56+57
8.9.	Tool replacement on multifunction sweeper head58-63
8.10.	Adjusting the sweeping roller
8.11.	Cleaning the back blow-out opening
8.12.	Disassembly/Disposal65
8.13.	Unauthorised conversion and
	Spare part manufacture65
9.0. Additic	onal equipment
9.1.	Front roller
9.2.	Anti-Scalp-Rollen68
9.3.	Core processing set
10.0. Techni	.cal specifications
10.1.	Technical data
10.2.	Torques for metric screws
10.3.	Chassis number75

6

1.0. Safety measures

RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury. It means that there is a risk of injury.

Follow recommended precautions and safe operating practices.

FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety instructions in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your dealer.

Learn how to operate the machine and to use controls properly before beginning starting work. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and safety and affect machine life.

If you do not understand any part of these operating instructions and need assistance, contact your dealer.





1.0 Safety measures OBSERVE ROAD TRAFFIC REGULATIONS

Always observe local road traffic regulations when using public roads.



WEAR PROTECTIVE CLOTHING

Wear tight-fitting clothing and suitable safety equipment during work.

Prolonged exposure to loud noise can cause hearing impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

Operating equipment safety requires the full attention of the operator. Do not wear earphones or headphones while operating the machine.



STAY CLEAR OF ROTATING DRIVE SHAFTS

Entanglement in rotating drive shafts can cause serious injury or death.

Keep tractor master shield and drive shaft shields in place at all times. Make sure rotating shields turn freely. Wear tight-fitting clothing.

Before adjusting or cleaning, and before connecting or disconnecting P.T.O. driven devices, switch off the engine and wait for all moveable machine parts to come to a standstill.

8



1.0. Safety measures

GUARD AND SHIELDS

Keep guards and shields in place all the time. Ensure that they are in good condition and installed correctly.

Always disengage the drive elements, shut off engine and wait for all moveable machine components come to a standstill before removing safety devices.

Keep hands, feet and clothing away from moving parts.

CAREFUL OF LINE LEAKAGE

High-pressure fluids which leak under pressure can penetrate the skin causing serious injury. For this reason, always depressurize the system before disconnecting lines.

Tighten all connections before applying pressure.

Hydraulic oil escaping from a small opening is hardly visible. A piece of cardboard should therefore be used when looking for leaks. Protect hands and body.

If a fluid penetrates the skin, it must be removed immediately by a doctor who is familiar with such injuries. Otherwise serious infections may result.

Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.



1.0. Safety measures USE SAFETY LIGHTS AND DEVICES

Avoid collisions with other road users. Slow-moving tractors with attached or hitched devices and self-propelled machines are especially dangerous. Always watch the traffic behind you, especially when changing direction. Ensure safe traffic conditions through hand signals or indicators.

Use headlamps, warning lights, indicators and other safety devices according to applicable legal regulations. Keep safety devices in good repair. Replace or repair lighting and markings that has been damaged or lost. A lighting installation for journeys on the road is available as additional equipment.



AVOID HEATING NEAR PRESSURIZED FLUID LINES

Do not cause heating near pressurized fluid lines by welding, soldering or using a torch. Pressurized fluid lines can be cut through accidentally if heat develops outside the immediate area of flame. In addition, heating near pressurized fluid lines can cause highly flammable mists to develop. If these mists ignite they can cause serious burns.



1.0. Safety measures REMOVE PAINT BEFORE WELDING OR HEATING

Welding should only be carried out by persons with a relevant qualifying certificate i.a.w. EN287.

Avoid generation of toxic vapour and dust.

Hazardous fumes can be produced when paint is heated by welding, soldering, or using a torch.

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

Remove paint before welding or heating:

- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from the area. Allow fumes to disperse at least 15 minutes before welding or heating.



1.0. Safety measures

1.1. Safety decals

Pictorial safety signs

Pictorial safety signs are affixed at the important places of this machine, intendent to signify potential danger. The hazard is identified by a pictorial in a warning triangle. An adjacent pictorial provides information how to avoid personal injury. These safety signs, their placement on the machine and a brief explanatory text are shown below.



Operating Instructions

These operating instructions contain all important information necessary for safe machine operation. Carefully observe all safety instructions to avoid accidents.



Hydraulic system for the elevated emptying unit

Close the safety value on the hydraulic cylinder before lingering near the elevated container. The closed safety value prevents the elevated container from unintended lowering.



1.1. Safety decals

Trap opening and emptying

Never reach into the crushing danger area when parts are able to move there.



Maintenance

Before performing maintenance or repair work, shut off engine and remove key.



Tools for the multifunction head

Never operate the multifunction head when the container is elevated. There is danger of injury from the spinning tool drum and from parts flung out of it.



1.0. Safety measures

1.1. Safety decals

Container flap opening

Do not linger in the swivel area of the trap when the tractor engine is running.



Perforated grid and cleaning flap

Do not operate the multifunction head or the sweeping head when the cleaning flap is open.

No person may be in front of the perforated grid on the rear of the machine when the multifunction head or sweeping head are running. There is a risk of injury from thrown or flying objects.



1.0. Safety measures

1.2. Notes on safety



- Only persons who are qualified and instructed on the operation of the machine may operate the machine.
- Observe the generally applicable safety and accident prevention regulations as well as the notes in these operating instructions!
- Familiarize yourself with all equipment and operating elements and their functions before starting work. Ensure that all protective equipment has been properly installed. It is too late to do this when you have started work!
- In the working area, the user is responsible for the safety of other persons.
- Observe the applicable regulations when using public roads!
- Check the immediate surroundings before driving (children!)! Ensure that your visibility is not impaired!
- Keep all persons clear of the danger zone of the machine!
- Only attach the machine when the engine is at a standstill and the P.T.O. drive is switched off.
- Only use the cardan shaft allocated to the machine.
- Observe the maximum permissible trailer and drawbar load of the tractor.
- Ensure that the front axle has a sufficient load. The tractor must be steerable.

- The driving and operating properties of the tractor may be influenced by the attachment of the Super 500! Always adapt your driving style to match the terrain and ground conditions. Special care should be taken when working and turning on a slope.
- Switch the P.T.O. drive of the tractor off before elevating the container.
- Lingering under the elevated container without a safeguard is forbidden. Always close the safety valve on the hydraulic cylinder.
- The container may only be elevated when the Super 500 is attached to a tractor. Otherwise the Super 500 can tip.
- Switch the machine and the motor of the tractor off and remove the ignition key before carrying out maintenance.
- All safety devices must be assembled before initial operation of the Super 500.

1.3.1. Safety features



Never operate the Super 500 without safety devices. Otherwise you expose yourself and others to great danger.

Serious injury by moving parts can result.

The safety devices are positioned on the machine as follows:



- A Safety flap for in series switched combination (keeps the hydraulic levers in the correct position for transport and road journeys)
- B Protection device for cardan shaft connection (can only be undone with tools)
- C Hoop guards middle, left and right (firmly screwed on as spacers - only on the multifunction head)

- D Safety valves on both telescopic cylinders (prevent an unintentional lowering of the lifted container)
- E Safety flap above the tool drum of the multifunction head (only for multifunction head)
- F Flaps for tool replacement on multifunction sweeper head (only for multifunction sweeper head)

1.0. Safety Measures

1.3.2. Safety Equipment on the remote control



Serious injury by moving parts can result.

Positions of the buttons:



G ON/OFF button – When the control unit is switched off, all valves are locked.

H Only after pressing the unlock button is it possible to switch modes.

2.1. General Information

For this work, please use your personal protective equipment (PSA) such as: gloves, goggles, ear protectors.

2.2. Electric connection to battery

Only appropriately qualified professionals may carry out the connection work.

Mount 3-pin socket (A) at a suitable location in the area of the driver's seat.

Install cable (B) from the battery to 3-pin socket (A).

Insert flat connector (C) of line 1 in socket (A) at position (D).

Insert flat connector (E) of line 2 in socket (A) at position (F).

Insert flat connector (G) of green/yellow line in socket (A) at position (H).

Connect ring shoe of lines 1 and 2 to positive terminal of battery.

Connect ring shoe of green/yellow line to negative terminal of battery.

The lines are fused as follows:

Line 1 with 25 A (K)

Line 2 with 10 A (L)





2.3. Connecting the control unit

The control unit has a 4-pin connection on its rear side to which the connection cable (A) must be connected.

The control panel must be in a suitable bracket during operation. A suction cup holder is included with the machine. It must be attached to a smooth and clean glass surface. A screw-on adapter plate (B) is included for mounting at other positions.





3.1. General Information



- The lawn maintenance machine is delivered secured on a transport frame.
- Only use fork lifts, cranes or hoisting gear with sufficient lifting capacity.
- Never stand under lifted loads. There is an imminent danger to life if the load falls.

Improper transportation and attachment of the lawn maintenance machine can:

- injury to persons
- damage to property.

Pay special attention to the direction of approach when lifting the machine with the transport frame.

We do not accept any liability for damage resulting from improper handling.



Caution must be excercised when cutting through the securing straps. Risk of injury due to ends "springing open".

3.2. Super 500 transportation

3.2.1. Transport using a forklift

If the lawn maintenance machine is still secured on the transport frame:

- Insert the forks under the transport frame (pay attention to the direction of approach),
- carefully lift the transport frame,
- unload the lawn maintenance machine from the transport device, where said device is in equilibrium,
- Remove top part and side parts of the transport frame,
- cut through the securing straps,
- lift the lawn maintenance machine off the transport frame.



3.2.2. Transport Using a Crane

The following 2 points are provided on the lawn maintenance machine for attachment to a crane.

Point A: 2x on the frame



4.1. General Information



ATTENTION:

Only connect on firm and even ground. - DANGER OF TILTING!

Only attach the machine when the engine is at a standstill and the P.T.O. drive is switched off. The warning and information signs on the machine provide important information for safe operation. Observe them for your own safety.

Compare the specified revolution speed and direction of rotation of the cardan shaft (sticker on the machine) to the specifications of your tractor. The stickers state which revolution speed and direction of rotation the machine is set to.

4.0. Attaching to a tractor

4.2. Adjusting the drawbar

- Park the machine on an even surface and secure against rolling away with blocks.
- Swivel the support (A) down and use it to adjust the machine until it is straight.
- Screw the drawbar to the mounting bores (B) on the machine at the necessary height.
- Fasten the upper drawbar at the height of the coupling head (C) of the tractor.

Fasten the bottom drawbar at the height of the bottom tow bar (D).

- Always use all 4 screws for fastening each drawbar.
- Fasten the drawbar to the tractor and secure it.
- Swivel the support upwards and check whether the hitched machine stands up straight.
- Check whether the drawbar fits the tractor if you change the tractor. Adjust the height of the drawbar if necessary.







4.0. Attaching to a tractor

4.3. Adjusting the PTO-shaft

- To carry out longitudinal adjustments, place the halves of the cardan shaft next to one another and mark.
- Shorten the inner and outer slide profile by the same amount as the protective sleeve.



• Shorten the inner and outer protective sleeves evenly.

- Sand down the section edges.
- Remove the shavings carefully.
- Lubricate the slide profile.





24 All information, illustrations and specifications in these Operating Instructions are based on the latest information available at the time of publication. We reserve the right to make design changes at any time without prior notification.

5.0. Detaching from the tractor

5.1. General Information



ATTENTION:

Always park on a paved and even surface when detaching the machine.

Only detach the machine when the engine is at a standstill and the P.T.O. drive is switched off. Never detach the machine when the container is elevated.

Only detach the machine from the tractor when it is empty.

5.2. Dismantling

- Lower the sweeping head or the multifunction head to the ground.
- Swivel the support (A) down.
- Secure the machine against rolling away by using blocks on both sides.
- Disconnect the hydraulic connections and hook them into the holder (B).
- Dismantle the cardan shaft from the tractor and put it down.
- Unhitch the drawbar.





6.0. Before initial operation

6.1. General Information

- Check whether all connection parts necessary for complete delivery are there.
- Observe the technical data when connecting to other tractor types.
- Compare the revolution speed and direction of rotation (sticker on the machine) to the specifications of your tractor.
- The sticker states which revolution speed and direction of rotation the machine is set to.

- Lubricate the cardan shaft (see cardan shaft operating instructions).
- The warning and information signs on the machine provide important information for safe operation. Observe them for your own safety.
- Do not carry out a test run of the multifunction head on paved surfaces. The cutting blades and verticutter knives can be damaged.

6.2. Setting the working height



Only adjust the working height when the P.T.O shaft is switched off.

You can adjust the working height by lifting or lowering the supporting wheels on an even surface. Align the supporting wheels evenly by choosing suitable distance peaces in the support wheel of the mower casing and secure with tilting splint pins.

Adjust the working height to suit the equipment (sweeping or multifunction head). Observe the different working heights necessary for different tools for the multifunction head.



6.0. Before initial operation

6.2. Setting the working height

Take the following into account when setting the working height:

- Take into account unevennesses of the ground (bumps).
- Take into account the degree of wear of the tools on the sweeper head or multifunction sweeper head.
- Adjust the working height to the respective equipment (sweeper head or multifunction sweeper head).

- The brushes must not touch the ground in the case of the sweeper head.
- In the case of the multifunction sweeper head, take into account the working height requirements due to the different tools.
- In the case of the multifunction sweeper head, the maximum the verticutting blades may penetrate the ground is 5 mm.

6.3. Setting the protection roller

The protection roller protects the lawn surface on uneven ground from being pierced by tools on the sweeping or multifunction head.

The holder of the protection roller contains several mount-ing boreholes (A).

Adjust the height of the protection roller to suit the requirements of the ground by choosing different boreholes.



6.0. Before initial operation

6.4. Description of the individual functions on the control unit

The valve control offers security when working with the hydraulic systems on the lawn maintenance machine.



In principle, the controller must be activated for operation via button **3b** "On/Off".

The controller automatically switches off if no buttons are pressed for more than 60 minutes ("Standby mode").

The controller is switched on if the

"Display: **3a** On/Off" lights up, if it is not lit then the controller is in "Standby mode", i.e. it is switched off and only requires a small amount of power from the battery. All valves are closed when the control unit is switched off.

Three modes can be selected on the controller, which correspond to the three functions of the lawn maintenance machine.

For safety reasons, the three mode buttons must be unlocked with button **2** "Entriegeln/Unlock" before actuation.

After pressing button 2 "Unlock", the available modes flash for a short time. If a different mode is not selected within this time, the previous selection is retained and the mode buttons are locked again. Thus, the three functions are selected as follows:

Mode 5

Raise/lower rail:

Button 2 "Unlock"

Button 5b "Raise/lower rail"

Mode 6		
Raise/lower container:		
Button 2 "Unlock"		
Button 6b "Raise/lower container"		

Mode 7

Open/close hopper gate:

Button 2 "Unlock"

Button 7b "Open/close hopper gate"

After switching on, no mode is selected, all valves are closed and none of the displays **5a 6a 7a** "Display: respective mode" flashes.

To close all valves again, switch the controller off via button 3b .

7.0. Operation

7.1. General Information



ATTENTION:

The driving and operational characteristics of the tractor may be influenced by the attachment of the machine.

- Always adapt your driving style to match the terrain and ground conditions.
- Special care should be taken when working and turning on a slope.
- The sweeper head or multifunction sweeper head must always be lifted to empty the container.
- Take into account unevennesses of the ground (bumps).

7.2. Hydraulic lever

The sticker on the safety flap for the hydraulic levers displays the function of the hydraulic levers.

Importance of the label:

- Left: Open/close container
- Centre: Lift/lower container
- Right: Lift/lower sweeper head or multifunction sweeper head

The safety flap for the hydraulic levers keeps the hydraulic levers in the position prescribed for transport and road journeys.



7.3. Transport and road journeys

Observe the following rules for transport and road journeys:

- The container must be empty.
- The sweeping or multifunction head must be raised.
- The front supporting wheels may not touch the road.
- The hydraulic levers on the in series switched combination must be secured against adjustments by means of the safety flap.
- Journeys on public roads are only allowed if the machine is fitted with a lighting installation.

7.4. Start-up

Observe the following sequence during start-up:

- Drive onto the surface that is to be treated.
- Remove the safety flap from the hydraulic levers.
- Lower the sweeping head or the multifunction head onto the supporting wheels or onto the front roller.
- IMPORTANT ! Shift the hydraulic control lever of the tractor to open-centre position.
- Switch the P.T.O. drive on and slowly set to the prescribed revolution speed.
- Start driving.

7.5. Flail mowing or verticutting with the multifunction head

Tool set: Cutting blades (flail blades)

- For flail mowing any lawns in parks or on golf courses, as well as extensively cultivated areas and eco-meadows, in any weather
- For siphoning off and collecting cuttings, leaves and small twigs

Tool set for verticutting with a 57 mm interval

Verticutting with a 57 mm interval, for year-round, relatively gentle verticutting (standard proportioning). This tool set can also be used to siphon off and collect grass, small twigs and leaves.

Tool set for verticutting with a 38 mm interval

Suitable for verticutting in spring and late summer/autumn. This treatment is more gentle than that of a 19 mm interval. This tool set can also be used to siphon off and collect grass, small twigs and leaves.

Tool set for verticutting with a 19 mm interval

Verticutting with a 19 mm interval is very aggressive and therefore recommended only for regenerating matted lawns at the end of the growth period.

NOTE

If the cuttings block the rear blow-out openings, enlarge the blow-out openings by converting the perforated panel (see 5.7.).

7.6. Sweeping with the sweeping head

Always adjust the driving speed to the weather conditions and the amount of material to be collected.

For dry weather and few cuttings:

- Set the distance between the sweeping bars and the lawn surface to between 2 and 10 cm. The cuttings are sucked up without contact with the ground.
- Driving speed up to 8 km/h.

For dry or damp weather and a lot of cuttings:

- Set the distance between the sweeping bars and the lawn surface so that they touch lightly. The cuttings are swept up.
- Adjust the driving speed to the amount of cuttings to be collected: aprox.
 2-6 km/h.
- Make sure that the front roller in the middle is set correctly when sweeping or brushing up the cuttings. The roller should be fixed just above the ground without turning constantly or running along, to avoid leaving tracks. By timely lifting, the roller prevents the sweeping head from razing off the sod.

NOTE

If the cuttings block the rear blow-out openings, enlarge the blow-out openings by converting the perforated panel (see 5.7.).

7.7. Converting the perforated panel



ATTENTION:

Only convert the perforated panel when the container is fully lowered. The tractor must be switched off and secured against unintentional activation.

Note

If the mowed cuttings block the rear blow-out openings, the blow-out openings can be enlarged by converting the perforated panel.

- Release and lift flap (A) on both sides.
- Release eight screws (B) and remove together with washers.
- Detach perforated panel (C).



- Lower flap (A) and secure on both sides.
- Screw perforated panel (C) onto the outside of flap (A) using 8 screws (B) and washers.



7.8. High-level emptying



ATTENTION:

In the working area, the user is responsible for the safety of other persons.

Keep all persons clear of the danger zone of the machine!

Danger of overturning: The container must not be lifted and emptied if the Super 500 is on an incline.

- Switch off the cardan shaft drive on the tractor.
- Move hydraulic lever (C) "Lift/lower sweeper head or multifunction sweeper head" to the rear.
- Actuate control valve on the tractor and lift sweeper head or multifunction sweep- er head.
- Move the Super 500 so that it is just in front of the object to be filled.
- Move hydraulic lever (B) "Lift/lower container" to the rear.
- Actuate control valve on the tractor and fully lift up the container.
- Carefully and with container lifted, drive towards the object to be filled.

The container must only be lifted when the Super 500 is attached to the tractor. Otherwise the Super 500 can overturn!

Standing under the lifted container without appropriate safeguarding measures is expressly prohibited. Always close the safety valve on the hydraulic cylinder.



7.0. Operation

7.8. High-level emptying

- Move hydraulic lever (B) "Lift/lower container" to the front.
- Move hydraulic lever (A) "Open/close container" to the rear.
- Actuate control valve on the tractor and empty container.
- Drive away from the object to be filled when the container is empty.
- Actuate the control valve on the tractor until the container is closed.
- Move hydraulic lever (A) "Open/close container" to the front.
- Move hydraulic lever (B) "Lift/lower container" to the rear.
- Actuate the control valve on the tractor until the container is fully lowered.
- Move hydraulic lever (B) "Lift/lower container" to the front.

7.0. Operation

7.9. Troubleshooting

Description	Cause	Solution
Super 500 is not running even though	Drive belt is torn	Replace the drive belt
running	Drive belt slips through	Tense the drive belt
Cuttings are col- lected badly or not	Sweeping bars are too far away from the ground	Check the height of the sweeping bar and adjust at the front feeler wheels if necessary
sweeping head is at- tached	Sweeping bars are worn out	Replace the sweeping bars in sets
	No ideal pickup con- ditions	Remove perforated panel from the blow- out opening.
Cuttings are col- lected badly or not at all when the mul- tifunction head is attached	Tool roller or tools are too far away from the ground	Check the height of the tool roller and adjust at the front feeler wheels if necessary
Super 500 vibrates or engine runs er- ratically	per 500 vibrates Sweeping bars are engine runs er- tically	
	Tools are damaged or the tool roller is missing tools	Replace tools or add missing tools
Matawial is being	Verticutting knives have been shortened by wear	Replace the ver- ticutting knives
collected badly or not at all during verticutting	Verticutting knives have been worn down unevenly	Turn the verticut- ting knives by 180° or replace them
	Damp pickup cuttings	Remove the perforat- ed panel on the blow-out opening
7.0. Operation

7.9. Troubleshooting

Description	Cause	Solution
The conveyer channel is blocked	Height of the tools is too low, so earth is being gathered up	Adjust the height of the tool roller on the front feeler wheels
	Verticutting knives have been shortened by wear	Replace the ver- ticutting knives
The sod has been cut	Verticutting knives have been worn down unevenly	Turn the verticut- ting knives by 180° or replace them
unevenly	Verticutting knives are distributed une- venly	Check the intervals and reposition if necessary (see 6.9)
	Driving round bends that are too tight during operation	Switch the P.T.O. shaft off when driv- ing round tight bends
The cuttings are blown out between the sweeper head and container	Hydraulic lever "Open/close contain- er" was switched over when non-pressurised	Close container un- der pressure
Containon tilta ta	Series switch combination faulty	Replace series switch combination
the rear	Seal in hydraulic cylinder "Open/close container" faulty	Replace hydraulic cylinder
Wear on outside of guard rollers on multifunction sweeper head	Guard rollers set too deep	Set guard rollers so that they are not in constant contact with the ground

7.0. Operation

7.9. Troubleshooting

Description	Cause	Solution
The sweeper head or	Parking stand was not turned sufficiently upright	Turn parking stand to the highest position
sweeper head can not be lifted high enough	Drawbar for hitch set incorrectly	Set position of drawbar so that the upper edge of the machine is horizontal

7.10. Start-up

Observe the following sequence during start-up:

- Drive onto the surface that is to be treated.
- Switch on the control unit using button 3b.
- Lower the multi-cultivation rail onto the support wheels or onto the feeler roller in **Mode 5**.



- **IMPORTANT !** Shift the hydraulic control lever of the tractor to open-centre position.
- Switch the P.T.O. drive on and slowly set to the prescribed revolution speed.
- Start driving.

7.11. Emptying the container

7.11.1. without high dumping

NOTE

The hopper gate can only be opened if the cultivation rail is fully raised and display **1** is lit up green.

Switch on the control unit using via button 3b.

Emptying is performed in:





Open the hopper gate by actuating the control valve on the tractor.

To close the hopper gate, bring the control valve lever of the tractor into the required position and keep it there until the hopper gate is closed.

40 All information, illustrations and specifications in these Operating Instructions are based on the latest information available at the time of publication. We reserve the right to make design changes at any time without prior notification.

7.11. Emptying the container

7.11.2. with high dumping

NOTE

The container can only be raised and emptied if the cultivation rail is fully raised and display **1** is lit up green.

Switch on the control unit using via button 3b.

The container is raised in:





Drive to just before the filling device.

Raise container by actuating the control valve on the tractor.

Carefully and with container raised, drive towards desired filling device.

7.11. Emptying the container

7.11.2. with high dumping

NOTE

The container can only be raised and emptied if the cultivation rail is fully raised and display **1** is lit up green.

Die Emptying is performed in:





Open the hopper gate by actuating the control valve on the tractor.

Drive away from filling device when emptying is completed.

To close the hopper gate, bring the control valve lever of the tractor into the required position and keep it there until the hopper gate is closed.

To lower the container, switch to mode 6

To lower the container, move lever of the control valve on the tractor into the required position.

8.1. General Information

- Carry out all maintenance work while the machine is attached to a tractor.
- Only carry out repairs, maintenance, cleaning and troubleshooting when the drive is switched off and the motor is at a standstill. Remove the ignition key from the tractor.
- Only original parts should be used. Parts from other manufacturers are often not of sufficient quality and so endanger your safety. In addition, the warranty and claims against warranty can only be guaranteed if only **original** parts by Wiedenmann were used. We explicitly inform you that parts not delivered by Wiedenmann are not tested or released by Wiedenmann. Therefore, installing or using such products may negatively influence preset properties of your vehicle and therefore endanger your active or passive safety. Damage caused by the use of parts other than original parts are excluded from the manufacturer's liability.
- Welding of bearing parts of the vehicle may only be carried out according to the accepted rules of welding technology.
- Replace damaged tools.

- Cutting blades do not need sharpening. Replace the cut-ting blades if they are blunt.
- The edges of the verticutting knives that enter the gound are rounded by use. In this case, you should turn the verticutting blade around. Replace verticutting knifes when they are round on both sides.
- When installing the tools, take into account that the first and outermost as well as the last and outermost tool retainer can often only be partially or not equipped at all.

8.2. Lubricating greases

Select a lubricating grease suitable for the outside temperature expected until the next maintenance.

We recommend the following lubricating greases:

SAE high pressure multipurpose grease with 3-5 % molybdenum disulphide

8.3. Maintenance table

Machine general

Area	Maintenance measure	Maintenance interval
Whole machine	Clean the machine after use to ensure faultless function- ing during the next operation	Daily
	Clean the machine thoroughly and conserve with spraying oil	Yearly, at the end of the mowing season
	Carry out yearly inspections	Yearly, be- fore the start of the mowing season
Lifting and tilt- ing mechanism for ground-level and elevated emptying	No maintenance as plastic plain bearings are used	
Telescopic cylinder for high-level emptying	Lubricate bolts	50 hrs.

8.3. Maintenance table

Multifunction head

Area	Maintenance measure	Maintenance interval
Gearbox	Change the gear oil For the first time Further intervals (see 8.6.1)	100 hrs. 500 hrs.
Rotor bearing	Lubricate both outer flange roller bearings and the upper flange roller bearing (see 8.5.1 and 8.5.2)	100 hrs.
Front supporting rollers	Lubricate the guide bushing of the height adjustment (see 8.5.3)	100 hrs.
	Lubricate the wheel bearing (see 8.5.4)	100 hrs.
	Check the air pressure and correct if necessary	When neces- sary
Cardan shaft	Lubrication intervals accord- ing to manufacturer's in- structions	8 hrs.
V-ribbed belt drive	Check the tension of the v- ribbed belt, tense if neces- sary (see 8.7) First inspection Further inspections	20 hrs. 100 hrs.
Linkage points for control guide	No maintenance as plastic plain bearings are used	-
Work tools	Check the shape of the cut- ting blades	When neces- sary
	Check the shape and length of the verticutting knives	When neces- sary
Safety flap	Lubricate bolts	50 hrs.

8.3. Maintenance table

Sweeping head

Area	Maintenance measure	Maintenance interval
Gearbox	Check the oil level and top up if necessary (see 8.6.2)	Yearly
Rotor bearing	Lubricate both outer flange roller bearings and the upper flange roller bearing (see 8.5.5 and 8.5.6)	100 hrs.
Front supporting rollers	Lubricate the guide bushing of the height adjustment (see 8.5.3)	100 hrs.
	Check the air pressure and correct if necessary	When neces- sary
	The wheel bearings of the feeler wheels need no mainte- nance	
Cardan shaft	Lubrication intervals accord- ing to manufacturer's in- structions	8 hrs.
V-belt	Check the tension of the v- belt, tense if necessary (see 8.7) First inspection Further inspections	20 hrs. 100 hrs.
Linkage points for control guide	No maintenance as plastic plain bearings are used	-
Work tools	Check the sweeping bars of the sweeping head for worn bristles (see 8.10)	When neces- sary

8.3. Maintenance table

Bogeys

Area	Maintenance measure	Maintenance interval
Double bogey	Running axle needs no mainte- nance as it is lubricated at the factory	
	Check the air pressure and correct if necessary	When neces- sary
	Tightening torque wheel nuts 80 Nm	When neces- sary
Quadruple swing bogey	Lubricate the brass bushes of the swing units (see 8.5.7)	100 hrs.
	Check the air pressure and correct if necessary	When neces- sary
	Tightening torque wheel nuts 80 Nm	When neces- sary

Front roller

Area	Maintenance measure	Maintenance interval
Pedestal bearing unit	Lubricate pedestal bearing units left (see 6.5.8) and right (see 8.5.9)	100 hrs.

8.4. Dismantling the drive protection

ATTENTION DANGER:

Before dismantling the drive protection, you must disengage the drive elements, switch the motor of the tractor off, remove the ignition key, and wait for all moving parts to come to a standstill.

The drive protection must be dismantled for maintenance on the drive of the sweeping head or multifunction head.

- Loosen the three screws (A) and remove.
- Remove the drive protection.



8.5. Lubricating points

bearing

8.5.1. Multifunction head Left outer flange roller bearing (A). Upper drive flange roller bearing (B)





8.5.3. Supporting roller, guide bushing of the height adjustment unit

8.5.2. Multifunction head Right outer flange roller

8.5.4. Supporting roller for multifunction head, wheel bearing



All information, illustrations and specifications in these Operating Instructions are based on the latest information available at the time of 49 publication. We reserve the right to make design changes at any time without prior notification.

8.5. Lubricating points

8.5.5. Sweeping head
Left outer flange roller bearing (A). Upper drive flange
roller bearing (B)



8.5.6. Sweeping head Right outer flange roller bearing



8.5.7. Swing bogey Bearing bush



270.20

bearing unit left

8.5.8. Front roller, pedestal

50 All information, illustrations and specifications in these Operating Instructions are based on the latest information available at the time of publication. We reserve the right to make design changes at any time without prior notification.

8.5. Lubricating points

8.5.9. Front roller, pedestal bearing unit right



8.5.10. Bolts of telescopic cylinder on right and left



8.5.11. Bolts of safety flap on right and left (for multifunction sweeper head)



8.5. Lubricating points

8.5.12. Cardan shaft



- Lubricate the outer slide profile inside.
- Clean and grease the cardan shaft before any downtime.
- Clean the profile pipe and protective pipes if they are soiled.





8.6. Gearbox

8.6.1. Changing the gear oil of the multifunction head

- Place a drip tray under the multifunction head.
- Unscrew the drain screw (A).
- Unscrew the venting screw (B).
- Catch the oil draining out in a suitable vessel.
- Screw the drain screw in again.
- Top up the oil up to the level of the inspection opening (C).
- Dispose of old oil and empty packaging in an environmentally responsible way.



- 8.6.2. Check the oil level on the gearbox of the sweeping head
- Unscrew the screw (A) from the inspection opening.
- Check the oil level. The oil must reach the lower edge of the inspection opening.
- Top up the oil if necessary.
- Replace the screw in the inspection opening.
- Dispose of old oil and empty packaging in an environmentally responsible way.



8.7. Changing the v-ribbed belt of the multifunction head



ATTENTION:

Only replace the drive belt when the machine is attached to a tractor. The tractor must be switched off and secured against unintended switching on.

- Dismantle the drive protection (A) (see 6.4).
- Loosen the hexagonal nut (B) and unscrew until the tension pulley lever with the tension roller (C) can be moved easily.
- Unscrew both headless setscrews (D).
- Screw one of the headless setscrews into the borehole
 (E) until the v-ribbed wheel
 (F) and the stress bushing
 (G) separate. Pull the stress bushing (G) off the shaft. Take off the old vribbed belt.







8.7. Changing the v-ribbed belt of the multifunction head

- Put the new v-ribbed belt
 (H) onto the v-ribbed wheel.
- Put the stress bushing (G) onto the shaft (I) and push into the v-ribbed wheel (F).
- Align the stress bushing (G) and the v-ribbed wheel (F) on the shared fastening boreholes (D).
- Insert the headless screws manually.
- Align the v-ribbed pulley (F) roughly with the vribbed pulley (J) using a ruler.
- Tighten the headless screws so that the v-ribbed pulley can be aligned parallel by tapping lightly with a softheaded hammer.
- Once they have been aligned precisely tighten the head-less screws fully.
- If the parallel alignment of the v-ribbed pulleys is outside the tolerance (1mm) repeat the procedure.
- It is essential that the tensioning roller is centrally aligned and parallel to the rear of the belt.
- Tighten the hexagon nut (B) of the v-belt lever so that the v-ribbed belt on the untensioned side can be extruded by 4 mm, given a pressure of 100 N.
- Den Antriebsschutz (A) anbauen.









All information, illustrations and specifications in these Operating Instructions are based on the latest information available at the time of 55 publication. We reserve the right to make design changes at any time without prior notification.

8.8. Hydraulic system

Check hydraulic lines at regular intervals for damage and aging. Change when necessary.



The Super 500 lawn sweeper can not be used with BIO oils.

Only persons expressly trained for this purpose may carry out maintenance on the hydraulic system.

High-pressure fluids which leak under pressure can penetrate the skin causing serious injury. For this reason, always depressurize the system before disconnecting lines.

Tighten all connections before applying pressure.

Hydraulic oil escaping from a small opening

is hardly visible. A piece of cardboard should therefore be used when looking for leaks. Protect hands and body.

If a fluid penetrates the skin, it must be removed immediately by a doctor who is familiar with such injuries; otherwise serious infections could result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.

8.8. Hydraulic system

Hydraulics diagram: Elevated emptying unit



- A Hydraulic cylinder: Opening and closing the container
- B Hydraulic cylinder: Lifting and lowering the container
- C Safety valve
- D Hydraulic cylinder: Lifting and lowering the multifunction head or sweeping head
- E Hydraulic levers

8.9. Tool replacement on multifunction sweeper head



ATTENTION:

Only replace tools when the machine is connected to the tractor. The tractor must be switched off and secured against unintentional activation.

Close the safety valves on both telescopic cylinders in order to secure the container against unintentional lowering.

- Remove and set aside the cardan shaft on the tractor.
- Fully lift the container.
- Close safety valves (A) on left and right (without illustration) on both telescopic cylinders.
- Fully lift the multifunction sweeper head and secure against lowering.
- Move all three hydraulic levers on the series switch combination forwards and secure using the safety flap.
- Loosen 2 screws (C) in each case at both service flaps (B) and remove together with locking rings and washers.
- Open both service flaps (B) and engage.





8.9. Tool replacement on multifunction sweeper head

NOTE

The following chapter "Tool division" describes possible tool divisions. The figures show a top view through service flaps (B) on tool drum (D) of the multifunction sweeper head.

- After tool replacement ensure that all loose parts, in particular all old tools, have been removed from tool drum (D).
- Close both service flaps (B) and in each case tighten using two screws (C), retaining washers and washers.
- Open safety valves (A) on left and right (no illustration) on both telescopic cylinders and release the safety flap on the hydraulic levers of the series switch combination.
- Lower the container.



8.9.1. Tool division

- Flail mowing, fully fitted (100 %)
- Collecting



- A First and outer tool bracket, left side (not equipped)
- B Double row 1
- C Wind paddle double row (not shown)
- D Double row 2
- E Double row 3
- F Wind paddle double row
 (not shown)

- G Double row 4
- H Last and outer tool bracket, right side (not equipped)
- I Cutting blade long, right, Article number 1230374 (82 pieces)
- J Cutting blade long, left, Article number 1230375 (82 pieces)

8.9.2. Tool division

- Verticutting with a 57 mm interval
- Verticutting with a 57 mm interval and simultaneous mowing
- Collecting



- A First and outer tool bracket, left side (without cutting blades)
- B Double row 1
- C Wind paddle double row (not shown)
- D Double row 2
- E Interval 57 mm
- F Double row 3
- G Wind paddle double row (not shown)

- H Double row 4
- I Last and outer tool
 bracket, right side
 (not equipped)
- J Cutting blade short, right, Article number 1230376 (82 pieces)
- K Verticutting knife, Article number 1230370 (28 pieces)
- L Cutting blade short, left, Article number 1230377 (82 pieces)

All information, illustrations and specifications in these Operating Instructions are based on the latest information available at the time of 61 publication. We reserve the right to make design changes at any time without prior notification.

8.9.3. Tool division

- Verticutting with a 38 mm interval
- Verticutting with a 38 mm interval and simultaneous mowing
- Collecting



- A First and outer tool bracket, left side (without cutting blades)
- B Double row 1
- C Wind paddle double row (not shown)
- D Double row 2 (only cutting blades)
- E Interval 38 mm
- F Double row 3
- G Wind paddle double row (not shown)

- H Double row 4 (only cutting blades)
- I Last and outer tool
 bracket, right side
 (not equipped)
- J Cutting blade short, right, Article number 1230376 (82 pieces)
- K Verticutting knife, Article number 1230370 (42 pieces)
- L Cutting blade short, left, Article number 1230377 (82 pieces)

62 All information, illustrations and specifications in these Operating Instructions are based on the latest information available at the time of publication. We reserve the right to make design changes at any time without prior notification.

8.9.4. Tool division

- Verticutting with a 19 mm interval
- Verticutting with a 19 mm interval and simultaneous mowing
- Collecting



- A First and outer tool bracket, left side (without cutting blades)
- B Double row 1
- C Wind paddle double row (not shown)
- D Double row 2
- E Interval 19 mm
- F Double row 3
- G Wind paddle double row (not shown)

- H Double row 4
- I First and outer tool
 bracket, right side
 (without cutting blades)
- J Cutting blade short, right, Article number 1230376 (82 pieces)
- K Verticutting knife, Article number 1230370 (84 pieces)
- L Cutting blade short, left, Article number 1230377 (82 pieces)

All information, illustrations and specifications in these Operating Instructions are based on the latest information available at the time of 63 publication. We reserve the right to make design changes at any time without prior notification.

8.10. Adjusting the sweeping roller

The ideal distance between the bristle tips and the front conveyor wall is 10-20 mm.

- Unscrew the screws on the flange roller bearings of the sweeping bar rotors on the right (A) and left (not shown).
- Move the flange roller bearings on the right and left until the ideal distance between the bristle tips and the front conveyor wall is reached.
- Tighten the screws on the flange roller bearings.
- On the left side, check the tension of the v-belt. Tense the v-belt if necessary.

INFORMATION

When the bristles have been shortened by 50 mm by wear, the ideal distance between the bristle tips and the front conveyor wall cannot be set anymore. Replace the sweeping bars.

8.11. Cleaning the back blow-out opening

- Unlock the flap (A) on both sides and lift.
- Tap the grid underneath until it is free of dirt.
- Close the flap and lock it on both sides.





8.12. Disassembly/Disposal



Proceed with caution when disassembling the machine. Please refer to the chapter "Safety measures" and local safety regulations.

Dangers are:

- residual pressure in lines and components
- heavy parts that could fall after disassembly
- sharp edges
- crushing if machine topples

Disassembly for disposal

- Place the machine on firm ground.
- Drain the hydraulic oil and collect it in a suitable vessel.
- Disassemble the machine from top to bottom.

INFORMATION

Regulations and laws concerning the disposal of hazardous substances and pollutants must be observed in all cases. Familiarize yourself completely with the procedure for disposal.

8.13. Unauthorized conversion and spare part manufacture

- Only convert or change the machine with the express permission of the manufacturer!
- The use of original parts and accessories authorized by the manufacturer is in the interest of your safety. Using parts not released by the manufacturer can have a negative impact on the properties of the machine. In this case, the manufacturer will assume no responsibility for the resulting consequences.

9.1. Front roller

Assembly (only on multifunction head)

The front roller replaces the two front support rollers and the protection roller at the front of the machine. Disassemble these parts.

- Screw the front roller to the boreholes in the fixture plates on the left (A) and right (not shown) of the machine.
- Use 3 hexagonal screws
 M 10x30 (B) with matching washers and nuts each on the right and left side.

The protection roller can be mounted at the back of the multifunction head (C). It offers heightened protection on uneven surfaces.





NOTE

If the feeler roller is removed for specific work then the impact tabs (D) and front jockey wheels (E) must be reinstalled.

The guard roller must be reinstalled at the front.



9.1. Front roller

Setting the working height for the multifunction head

The working height is set by turning the cranks on the right (A) and left (not shown) side of the front roller.

- Turn the cranks clockwise: The multifunction head is lowered.
- Turn the cranks anticlockwise: The multifunction head is raised.
- Use the scale on the left (B) and right (not shown) to set the working height identically on both sides.



9.2. Anti-scalp rollers

Connection (only on multifunction sweeper head)

The anti-scalp rollers ensure that only the verticutting blades come into contact with the ground and not the flywheels.

Setting the anti-scalp rollers

NOTE

Set the anti-scalp rollers the same on both sides.

- Release upper screw (A) and remove with retaining washer.
- Swivel locking plate (B) downwards.
- Hold anti-scalp roller (C) and withdraw pin (D).
- Secure anti-scalp roller (C) using pin (D) in another bore in the desired height.
- Swivel locking plate (B) upwards and tighten.



68 All information, illustrations and specifications in these Operating Instructic publication. We reserve the right to make design changes at any time without prior notification.

9.3. Core processing set



The parts may only be installed where the drive is switched off and the engine is at a standstill. Remove the ignition key from the tractor.

NOTE:

This assembly set may ONLY be used for breaking up cores.

Screw bracket (A) into existing bores on container.



Remove the nuts on the 3rd screw seen from either side (see arrow marks)



Slightly raise the container in order to mount both sheet metal plates.

Secure the container and trap against unintentional lowering and closing as described in the operating instructions!

9.3. Core processing set



The parts may only be installed where the drive is switched off and the engine is at a standstill. Remove the ignition key from the tractor.

NOTE:

This assembly set may ONLY be used for breaking up cores.

Connect sheet metal plate on right (C) to adjustment plate and secure in square hole using the round-head screw



Connect mounting link on screw (D) and secure using the removed nut.



Screw nut with locking elements through access opening (E) onto the round-head screw and tighten.



70 All information, illustrations and specifications in these Operating Instruct

publication. We reserve the right to make design changes at any time without prior notification.

10.0. Technical specifications

10.1. Technical data

		Super	c 500
		With sweeping head and ele- vated emptying unit	With multi- function head and elevated emptying unit
A	Total length	3,160 mm	3,160 mm
в	Total width	1,925 mm	2,050 mm
с	Total height	1,770 mm	1,770 mm
D	Working width	1,600 mm	1,600 mm
Е	Projection with elevated con- tainer	1,460 mm	1,460 mm
F	Maximum total height with ele- vated container	3,780 mm	3,780 mm
G	Lover edge of completely elevat- ed container	2,015 mm	2,015 mm
	Ground clearance for transport journey with elevated sweeping head/multifunction head	200 mm	200 mm
	Container volume	2,500 l	2,500 1
	Net weight	950 kg	1080 kg
	Front feeler roller	kg	+ 28 kg
	Anti-scalp rollers	kg	+ 12 kg
	Lower suspension	+ 10 kg	+ 10 kg
	Core processing set	kg	+ 9,3 kg
	max. permissible payload	450 kg	320 kg
	Permissible total weight	1,400 kg	1,400 kg
	Permissible hubload	1,400 kg	1,400 kg
	Permissible drawbar load	180 kg	180 kg

10.0. Technical specifications

10.1. Technical data

	Super 500	
	With sweeping With multi head and ele- vated empty- ing unit emptying un	- ad ≩d it
Max. p.t.o.	540 min ⁻¹ 540 mi	n ⁻¹
Working revolution speed sweep ing head	- 1,450 min ⁻¹	· _
Working revolution speed mult: function head	2,600 mi	n ⁻¹
Minimum power requirements of the tractor	11 kW (15 PS) 22 kW (30 P	'S)
Hydraulics operating pressure	140 bar 140 b	ar
Tyre equipment at front	11x4.00-5/2PR 11x7-4AM/4	PR
Air pressure, front tyres	2 bar 2 b	ar
Tyre equipment at back, rigid bogey	23x10.50-6PR 23x10.50-6	PR
Air pressure, tyres on rigid b gey	o- 1.4 bar 1.4 b	ar
Tyre equipment at back, swing bogey	18x8.50-8/4PR 18x8.50-8/4	PR
Air pressure, tyres on swing b gey	0- 0.8 bar 0.8 b	ar
Air pressure, tyres Articulate frame for MOT approval	d 2,5 bar 2,5 b	ar
LWA sound power level measured with the John Deere 2520 tractor	dB(A) 109 dB(A)
LPA sound pressure level measured with the John Deere 2520 tractor	dB(A) 81 dB(A)

72 All information, illustrations and specifications in these Operating Instructions are based on the latest information available at the time of publication. We reserve the right to make design changes at any time without prior notification.
10.0. Technical specifications

10.1. Technical data



All information, illustrations and specifications in these Operating Instructions are based on the latest information available at the time of 73 publication. We reserve the right to make design changes at any time without prior notification.

10.0. Technical specifications

10.2. Torques for metric screws



	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
Size	Lubricated * Dry **				Lubricated *		Dry **		Lubricated * Dry **			*	Lubricated * Dry **			*
	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft
M6	4.8	3.5	6	4.5	9	6.5	11	8.5	13	9.5	17	12	15	11.5	19	14.5
M8	12	8.5	15	11	22	16	28	20	32	24	40	30	37	28	47	35
M10	23	17	29	21	43	32	55	40	63	47	80	60	75	55	95	70
M12	40	29	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	47	80	60	120	88	150	110	175	130	225	165	205	150	260	190
M16	100	73	125	92	190	140	240	175	275	200	350	255	320	240	400	300
M18	135	100	175	125	260	195	330	250	375	275	475	350	440	325	560	410
M20	190	140	240	180	375	275	475	350	530	400	675	500	625	460	800	580
M22	260	190	330	250	510	375	650	475	725	540	925	675	850	625	1075	800
M24	330	250	425	310	650	475	825	600	925	675	1150	850	1075	800	1350	1000
M27	490	360	625	450	950	700	1200	875	1350	1000	1700	1250	1600	1150	2000	1500
M30	675	490	850	625	1300	950	1650	1200	1850	1350	2300	1700	2150	1600	2700	2000
M33	900	675	1150	850	1750	1300	2200	1650	2500	1850	3150	2350	2900	2150	3700	2750

1150 850 1450 1075 2250 1650 2850 2100 3200 2350 4050 3000 3750 2750 4750 3500

The torques in this table are guidelines and do NOT apply where a different torque for certain screws or nuts is given in this instruction manual. Check tightness of fasteners periodically. Shear bolts are designed to fail under predetermined loads. Always replace shear bolt with identical property class.

M36

Fasteners should be replaced with the same or higher property class. If higher property class fasteners are used, these should only be tightened to the strength of the original.

* "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings.

Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

Tighten plastic insert or crimped steel-type lock nuts to approximately 50 % of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

** "Dry" means plain or zinc plated without any lubrication.

10.0. Technical specifications

10.3. Chassis number

Enter the respective numbers in the space provided below. This number should be quoted in the event of warranty claims and when ordering spare parts.



Product Ident Number :