

RootPruner / QuickDrain

Manual



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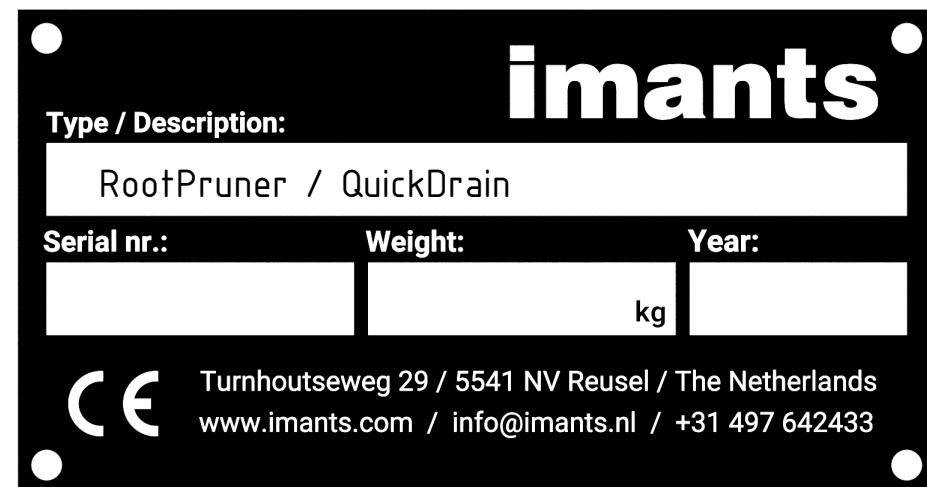


Illustration 1: Type plate



See [Position of the warning stickers and type plate on the machine](#) on page 15 for the exact location of the type plate on the .



Keep the details of your type plate in a safe location. If you have any questions about your RootPruner / QuickDrain or wish to order parts, those specific details will allow us to help you quickly and efficiently.



Carefully read the full contents of this document. A failure to do so may result in serious injury or damage to the RootPruner / QuickDrain . Keep this document in a safe place. Always ensure that everybody who uses the RootPruner / QuickDrain or performs maintenance on it has read and understood the contents of this document.

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1 Foreword

First of all, we would like to congratulate you on purchasing a **Imants®** machine. You have chosen a high-quality product. If used correctly, your machine will bring you many years of enjoyment.

This Manual is an important document to ensure the machine is used correctly. It contains all the information required to use the machine safely and optimally.

We recommend that you read this Manual thoroughly and that you study and follow all the instructions before using the machine for the first time. The illustrations used in this Manual may differ from the configuration of your machine; they are merely intended to explain a working principle.

Please contact your point of sale/dealer should there be any questions or ambiguities as regards this Manual.

We update our manuals regularly. Your suggestions help us to make our manuals even more user friendly. You can e-mail your suggestions to info@imants.nl with 'manuals' in the subject line.

Imants® BV accepts no responsibility whatsoever for any damage or consequential damage due to the incorrect use of the machine.

For this Manual, it is a "Original document".

2 Safety instructions

The machine has been carefully designed and professionally built to allow it to be worked with safely. The CE Declaration confirms this. There are always however hazards and safety risks that cannot be excluded. The functions of the machine and its operation by the operator give rise to these hazards and risks.

This chapter covers the safety instructions and precautions, how these are brought to your attention and with which the operator must comply. It is extremely important that you are properly familiar with the safety instructions and rules and that you respect them in all circumstances!

2.1 Explanation of pictograms

Pictograms are present under many headings in this manual. Symbols have also been applied to the machine. In this chapter, you can see what these pictograms and symbols mean, what they refer to, or what they are warning you about.

2.1.1 Hazard indications

The symbols below indicate a possible danger of personal injury. The symbol is composed of an equilateral triangle surrounding an exclamation mark.

Warning pictograms that are used in the Manual but are not present on the machine as stickers.



Warns of hazardous situations which must be avoided absolutely and are likely to result in death or serious injury.



Warns of a hazardous situation that, if not avoided, could lead to death or serious injury.



Warns of a hazardous situation that, if not avoided, could lead to slight or more significant injury.

This symbol is not a hazard symbol but rather an information symbol.



Provides additional information aimed at facilitating or improving the use of the machine.

2.1.2 Meanings of pictograms

Below, you can see what the illustrations in the manual mean, what they refer to, or what they are warning you about.

	Danger of personal injury		Fire hazard
	Hot surfaces		Trapping risk
	Moving parts		Leakage
	Explosive substances		Safety footwear
	Hearing protection		Gloves
	Eye protection		Clothing stipulations
	Document reference		Use of tools
	Material use		Read the manual
	Danger of becoming trapped due to being present within the lifting range		Danger of becoming trapped due to the machine lowering unintentionally
	Danger from hydraulic oil under high pressure as a result of leaking hydraulic hoses!		Max. hydraulic system pressure
	Unintentional starting and rolling away of the machine		Recycle
	Acceptable, correct		Unacceptable, wrong
	Use lifting hook		Visual inspection

2.1.3 Meanings of operating pictograms

Operating pictograms indicate schematically what action must be taken or what setting must be chosen.

The summary below includes all possible pictograms, which does not mean they are all used in this Manual:



On



Off



Hitch tension adjustment



Hitch position adjustment



Hitch downwards



Hitch upwards



Hitch working depth



Pressure gauge



PTO on



PTO off



PTO 1000 rpm



PTO 540 rpm



Front wheel drive



Direction of travel



Engage gear



Engine speed down



Engine speed up



Ram in floating position



Ram in



Ram out



Fold out



Fold in

2.2 General safety instructions



The user must hold a valid tractor driving licence in order to operate the machine.



The user must be at least 16 years old, unless the local legislation stipulates a higher minimum age. The higher age limit shall prevail.



The user of the machine is responsible at all times for compliance with local safety regulations and guidelines.



The user must have read through the whole contents of this manual and must follow to the letter the instructions therein.



Keep this manual and that of the PTO drive shaft within reach.



Use the machine solely for the purpose it was designed for.



The machine may only be used and maintained by persons who are familiar with the machine and have been made aware of the risks. No-one who could not be expected to make correct use of the machine is to be permitted to commission or operate the machine.



No one should be standing between the machine and the tractor while these are being coupled or uncoupled.



All safety facilities must be assembled on to the machine and be in good conditions. Never remove or open a guard when the machine is running.



Always follow the specifications and requirements set by the manufacturer of the tractor in relation to its use. Please refer to Tractor manual.



Always comply with the requirements regarding the maximum load of the front and rear axles, given by the tractor manufacturer.



Standing on or within the range of the machine during work is prohibited. This also applies during transport.



The maximum load of the tractor tyres, given by the tyre manufacturer, should not be exceeded during operation of the machine.



Warning labels should always be legible.



Work may only be carried out under a raised machine if the machine has been properly supported.



For reasons of quality and safety, only use original **Imants®** parts.



Maintain the machine as indicated later in the manual. Only perform this work when the machine is at a complete stop. Remove the key from the tractor's ignition.



Modifications, additions or developments on or to the machine are not allowed without the written permission of Imants BV. This includes welding on load bearing parts. Without this written authorisation, Imants BV's responsibility for the CE marking is invalidated and is passed on to the buyer.

2.3 Warning stickers on the machine



See [Position of the warning stickers and type plate on the machine](#) on page 15 for the position of the warning stickers.

The warning stickers below can be found on the machine.



Danger of hands or arms being pulled in or locked in by the moving parts of the power transmission.

It could cause serious injury, possibly leading to the loss of body parts.

Never open or remove the protective devices while the tractor engine is running and the PTO drive shaft and/or hydraulic system are connected.



Danger of fingers and/or hands being cut/torn off altogether. Keep away from exposed moving parts that are part of the work process!

It could cause serious injury, possibly leading to the loss of body parts.

- Never insert your hands or arms into the hazardous area while the tractor's engine is running and the PTO drive shaft and/or hydraulic system are connected.
- Wait until the machine's moving parts have come to a complete standstill before you reach into the hazardous area with your hand and/or arm.



Read and observe the operating instructions and safety regulations before you operate the machine.



Risk of the tractor and machine unexpectedly being started and rolling away while work is being carried out on the machine, such as installation, set-up, troubleshooting, cleaning, maintenance and repair work.

There is a risk of serious injury or even death.

- Before any intervention on the machine, protect the tractor and the machine against being unintentionally started and against unintentional rolling away.
- Read the relevant sections in the user manual and follow the instructions.



Danger of feet being cut or torn off altogether. Keep away from exposed moving parts that are part of the work process!

It could cause serious injury, possibly leading to the loss of body parts.

- Keep your feet away from the hazardous area while the tractor engine is running and the PTO drive shaft and/or hydraulic system are connected.
- Wait until the machine's moving parts come to a complete standstill before you place your foot in the hazardous area.

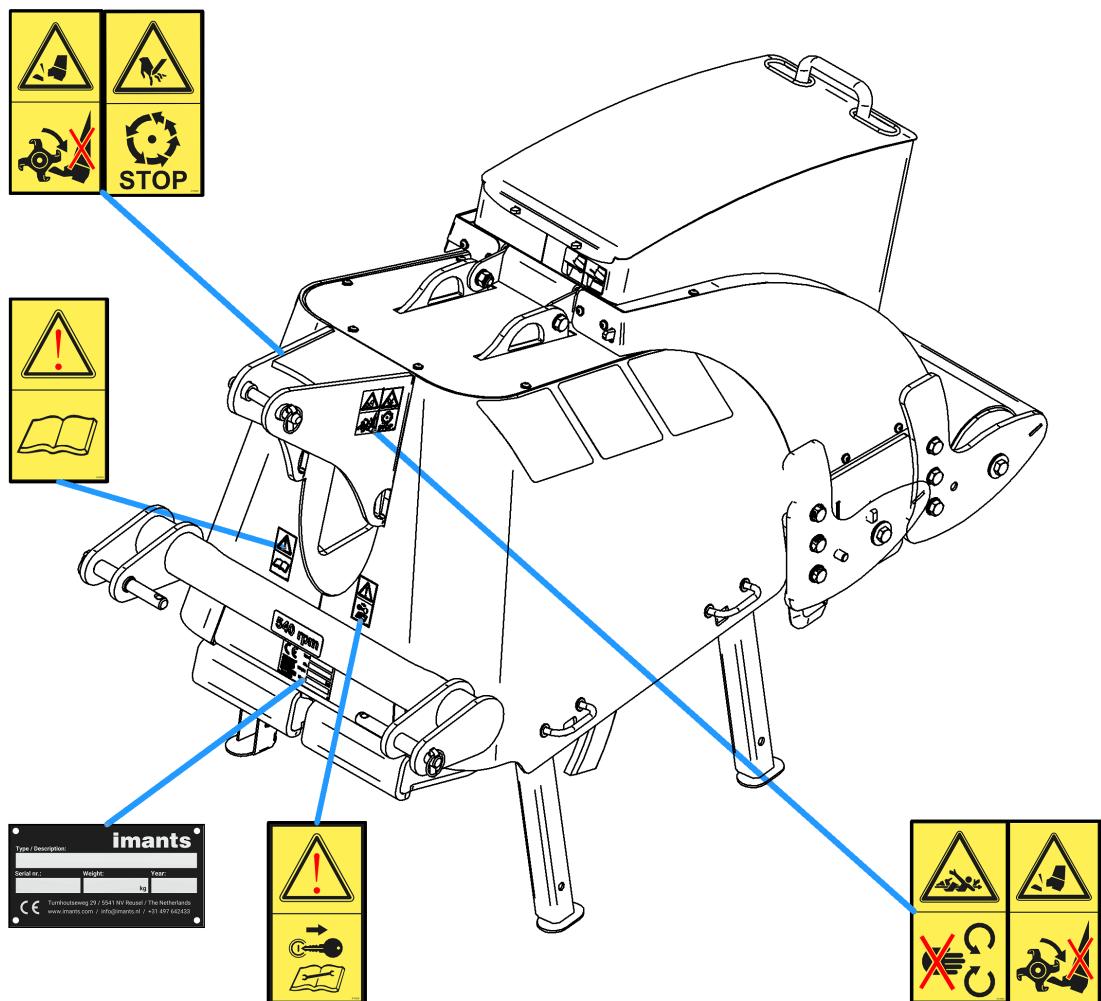
2.4 Position of the warning stickers and type plate on the machine



Warning labels should always be legible.

The illustration below shows where the safety stickers and type plate are to be found on the machine

Illustration 2: Position of the pictograms and type plate



2.5 Operator's responsibilities

It is the operator's responsibility to ensure the machine is used safely. If the operator does not obey the safety instructions and rules, serious physical injury and major damage to the machine and the surroundings could be the result.

The operator must

- always be trained and qualified to operate the machine,
- remain alert and avoid hazardous situations,
- always conduct an inspection before use,
- conduct functional tests,
- check the workplace,
- keep bystanders at a safe distance,
- use the machine only for its intended purpose,
- wear the correct protective equipment and work clothing,
- not work under the influence of medicines, alcohol or drugs,
- be fully aware of the safety and usage rules, and
- know what the local government and official body instructions and rules are.

3 Residual risks



The people operating the machine are responsible for ensuring the work is carried out safely.



Every machine has inherent hazards. It is therefore always recommended to exercise the greatest caution when working.

Even if all the safety precautions are taken and the machine is used in accordance with the regulations, there are still residual risks:

Residual risks

- Contact with rotating parts of the machine.
- Material being ejected from the machine, which may cause an injury.
- Hinged parts, which may cause body parts being pinched.
- Human errors (e.g. fatigue, mental overload, etc.)

4 General description of machine

The machine has been designed for professional use:

- On sports fields and golf courses

The machine is constructed as follows: Some parts are available as an optional extra.

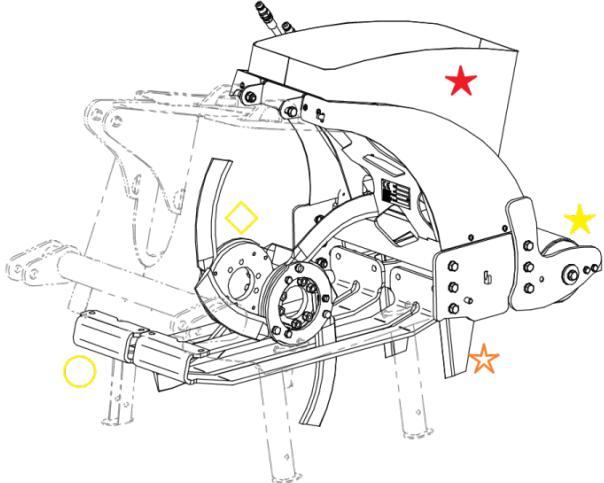
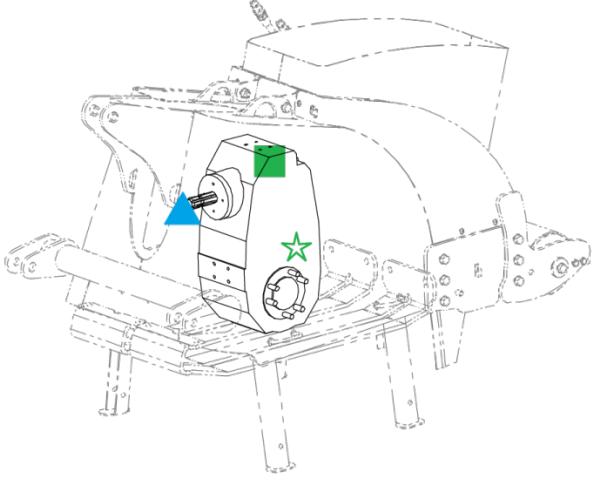
Components	Drive
	
<ul style="list-style-type: none"> • Coulter blades • Running rollers • Runner • Aeration blades • Sand bunker 	<ul style="list-style-type: none"> • Main gearbox • Centre drive • Torque limiter

Table 1: Machine parts and drive

Depending on the model, the machine functions are as follows:

- Restoring/maintaining stretches of grass
- Applying sand into the trenches created
- Creating improved drainage
- Stripping the top layer
- Cutting through roots in two places so no regrowth occurs
- Buffering the sand to be dealt with

A tractor provides the power needed to drive and tow the machine.

The power of the tractor is transferred to the machine via a PTO drive shaft

The PTO shaft must rotate at: 540 revolutions per minute

The machine is operated from the tractor driver's seat

The tractor's three-point hitch is used to couple up the machine. The machine is fitted with coupling points for a tractor with a lifting hitch of Category 1

5 Machine specifications

5.1 RootPruner

		RootPruner	QuickDrain		
Dimensions					
Working width	[mm] ("")	270	10.6	270	10.6
Machine width	[mm] ("")	875	34.4	875	34.4
Machine length	[mm] ("")	1400	55.0	1680	66.0
Machine height (on legs)	[mm] ("")	1150	55.1	1150	55.1
Centre of gravity distance	[mm] ("")	580	23.0	675	27.0
Weight					
Machine weight	[kg] (lbs)	510	1125	600	1325
Volume					
Sand bunker	[L] (USgal)	-	-	95	25.1
Power					
Min. power	[kW(pK)]	15(20)			
Max. power	[kW(pK)]	37(50)			
Working speed					
Max. working speed	[km/h] (mph)	1.5	0.9		
Working depth					
Max. working depth	[mm] ("")	250	9.8		
Working depth Coulter	[mm] ("")			195	7.7
PTO drive shaft					
Drive train rotational speed	[/min] (rpm)	540			
PTO drive shaft type			W2300		
Torque limiter protection	[Nm] (lbf ft)	1100	815		
Noise level					
Noise level	dB(A)	< 80			

6 Loading and unloading the machine

Never go under a hoisted-up machine.

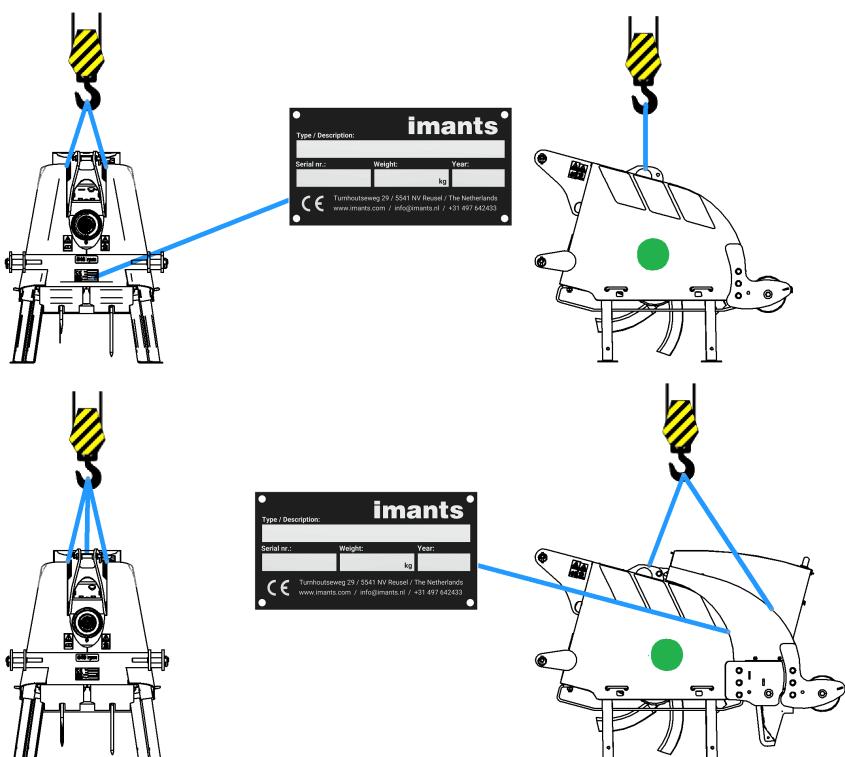


i Use only approved lifting equipment (wire ropes, belts, chains, etc.) that:

- have a permissible load that is greater than the weight of the machine, see type plate
- do not have any defects.

i Only qualified personnel should hoist machines.

i The machine's centre of gravity is indicated by the symbol: ● This is for a standard machine without options



7 Putting the machine into operation



The user must have read through the whole contents of this manual and must follow to the letter the instructions therein.



20% of the unladen weight of the tractor must always rest on the front axle.



A PTO drive shaft of the wrong length may cause serious damage to the tractor and the machine. This would invalidate the CE marking of the PTO drive shaft. [Putting the PTO shaft into operation](#) on page 23



Connect the overload clutch according to the instructions provided by the manufacturer of the PTO drive shaft.



Check whether the clearance around the PTO drive shaft is sufficient whatever the operating conditions. The PTO drive shaft will become damaged if there is too little clearance.

Procedure

1. Check:
 - That all bolted connections are tight
 - The oil level in the gearbox(es)
2. Couple the machine up to the tractor (see section on coupling and uncoupling)
3. Do **not** connect the PTO drive shaft yet
4. Carefully read the manufacturer's instructions for the PTO drive shaft
5. Shorten the PTO drive shaft [Putting the PTO shaft into operation](#) on page 23
6. Connect the PTO shaft to the tractor

7.1 Putting the PTO shaft into operation

The PTO shaft is an essential part of the machine.

There are a number of matters that need to be watched out for:

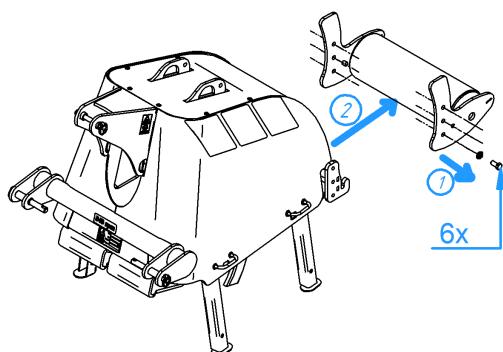
- See PTO drive shaft manual
- of <https://www.walterscheid-group.com/mediaportal/#downloads> Go to tab Walterscheid

Points of attention

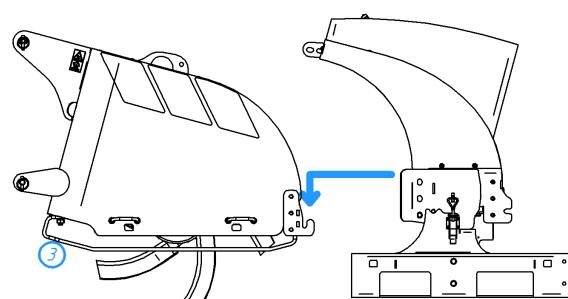
1. The length of the PTO shaft.
 - With the shortest operating distance between the tractor and the machine , the PTO shaft must still be able to slide in by 40 mm / 1.6 inch . In this, account must be taken of:
 - A hydraulic top link (if present) in its shortest position
 - The minimum profile overlap is: See PTO shaft manual
2. Attach overloading/freewheel clutch or bolt connection (conical) at the machine end

7.2 Assembly QuickDrain

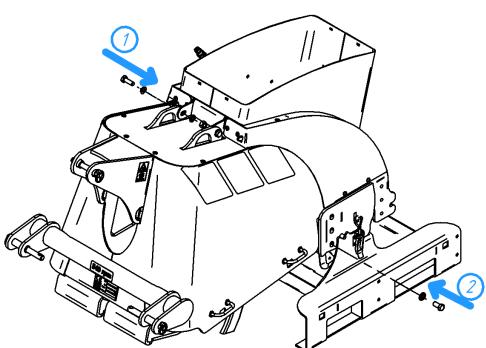
1.



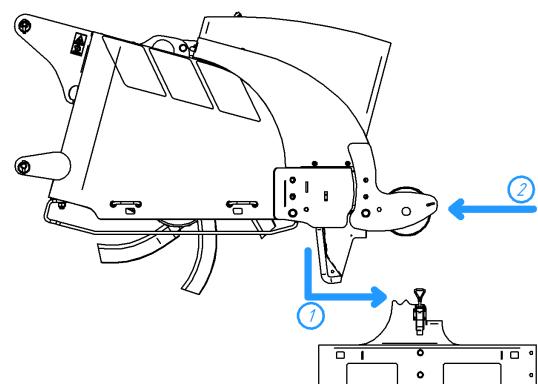
2.



3.



4.



8 Transport



20% of the unladen weight of the tractor must always rest on the front axle.

The machine may be transported on the public road while on the tractor.

Information concerning local traffic regulations must be obtained in advance.

This information could include matters such as:

- Maximum transport width;
- Maximum axle load;
- Lighting to be shown;
- Use of warning signs.

Before the tractor-machine combination goes on a public road at least check the following:

1. That the top link and draw bar pins are secured with a lynch pin
2. That the legs are raised and secured
3. That the lighting works, is undamaged and properly visible
4. That the braking system works properly
5. That the supply lines are correctly connected



The support legs have been designed in such a way that the machine can be stored on them. If the machine is secured for transport with lashing straps or chains, the support legs may give way. In this case, precautions must be taken to ensure that the machine is not resting on the legs.

9 Working with the machine



The machine may only be used and maintained by persons who are familiar with the machine and have been made aware of the risks. No-one who could not be expected to make correct use of the machine is to be permitted to commission or operate the machine.



Before carrying out maintenance work or changing the machine's settings, it must have come to a complete standstill. The tractor's engine must be switched off and the key must have been removed from the ignition.



The operating speed must be adjusted to suit the soil and working conditions.



The machine is only suitable for treating soil and fields that are free of obstacles, such as stones, tree stumps, steel objects, etc.



Only engage the PTO if there is nobody in the machine's danger zone.



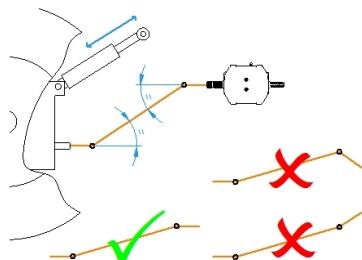
While working with the machine, never depress the clutch pedal, nor take the tractor out of gear. The machine could actually push the tractor forward. This could lead to hazardous situations.



It is not permitted to stand on the machine or to stand within the range of the machine while the machine is in use. This also applies during transport.



Risk of additional wear of the PTO drive shaft if the shaft angles are unequal.



 Take into account the permissible angle rotations of the rotating PTO drive shaft.

 Limit the lifting height. The sudden excessive lifting of a powered machine can cause serious damage to the:

- PTO
- PTO drive shaft
- gear box

 Immediately turn off the PTO if the raised machine runs erratically.

 Friction with the soil may cause the wear parts to become very hot.

9.1 Tractor settings



- Ensure there is sufficient weight at the front of the tractor
- Ensure the tyre pressures are equal
- Place the lifting arms at the same height.
- Put the lowering speed of the hitch to slow
- Select the correct PTO speed: 540 revolutions per minute

9.2 Coupling the machine

In order to use the machine it must first be coupled up.



1. Set the tractor lift arms at equal height
2. Check that the PTO drive shaft slides in and out easily (lubricate!)
3. Send people away from the danger area between the tractor and the machine
4. Drive the tractor close to the machine, leaving about 25 cm of room between the tractor and the machine
5. Secure the tractor to prevent unintended starting or rolling away
6. Connect the PTO shaft
7. Reverse further with the tractor towards the machine
8. Connect the three-point hitch to the machine's coupling points. Ensure the coupling points are properly secured
9. Use the stabilizer rods to secure the tractor's lifting arms
10. Raise the machine so that it is in the transport position. Be aware of the max. lifting height
11. Raise support legs up and lock them again with a lynch pin
12. Check whether the clearance around the PTO drive shaft is sufficient whatever the operating conditions. The PTO drive shaft will become damaged if there is too little clearance.
13. By performing a visual inspection, check that the three-point hitch is properly locked before driving away

9.3 Machine settings

9.3.1 Sand supply system



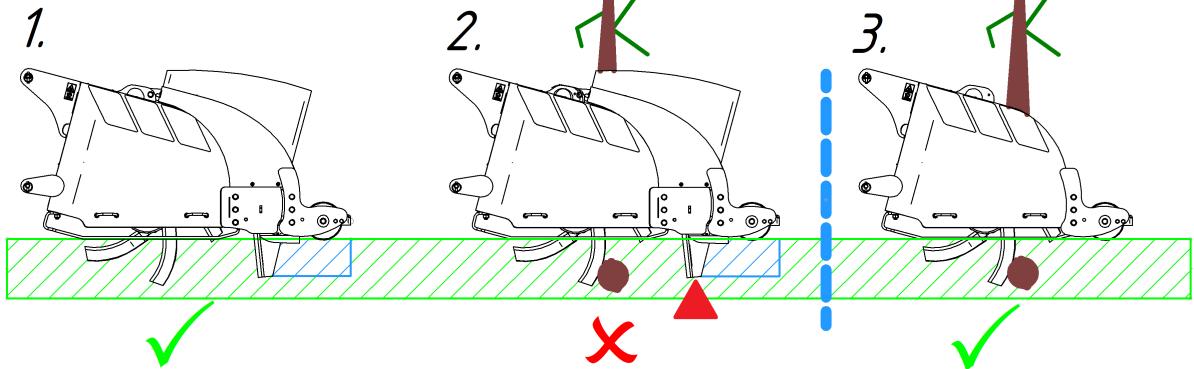
When the sand hopper is filled, it is forbidden for people to be within the reach of the machine. It is also forbidden to climb into the sand hopper.



When filled with sand the machine weighs approx. 735 [kg] 1620 (lbs)



Use only dry sand. Moist sand can block the machine.



1. Only use QuickDrain when the soil is free of obstacles.
2. Obstacles can cause serious damage to the coulter blades.
3. Remove QuickDrain when there are obstacles in the soil.

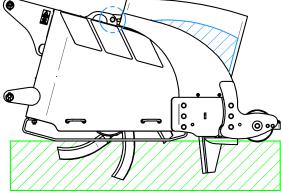
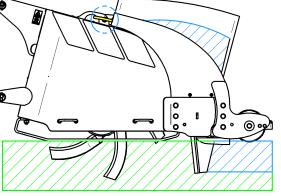
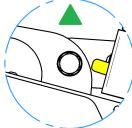
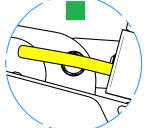
Procedure	Illustration
<p>Filling</p> <ol style="list-style-type: none"> 1. Close the hopper's valve. Indicator in position  2. Secure the tractor to prevent unintended starting or rolling away 3. Fill the hopper with dry sand. 	 
<p>Starting injection</p> <ol style="list-style-type: none"> 1. Slowly lower the machine while it is moving and the engine is revving slowly. 2. While the machine is being driven, open the hopper's valve. Indicator in position  	 
<p>Stopping injection</p> <ol style="list-style-type: none"> 1. Raise the machine out of the ground in a smooth motion while the machine is moving. 2. Close the hopper's valve. Indicator in position  	

Table 2: Sand supply system

9.4 Starting and stopping work and settings

Working with the machine is described in the two tables below. Actions that recur during every job for starting and stopping are shown **printed in bold**. One-off settings are printed normally. Some of the instructions may concern an optional extra that your machine may not have.



The machine must never be turned on when the driven rotor is placed on the ground. This can result in serious damage to the tractor and the machine.

<ol style="list-style-type: none">1. Check that the correct PTO speed is engaged: 540 revolutions per minute2. Drive forwards.3. Slowly lower the machine while it is moving and the engine is revving slowly.4. Engage the PTO just before the rotor contacts the ground5. Gradually increase the engine speed and the driving speed			

Table 3: Starting the machine and configuring the settings

<ol style="list-style-type: none">1. Reduce the travelling speed2. Reduce the engine revs3. Raise the machine out of the ground in a smooth motion while the machine is moving.4. Switch the PTO off during lifting		

Table 4: End of job, stopping the machine (and settings)

	The machine's working speed depends on:
	<ul style="list-style-type: none">• The depth of the tillage• Type of soil• Soil condition (wet, dry)• Compacting (disruptive layers)
	Damage to the turf layer: <ul style="list-style-type: none">• Blades crooked• Blades not aligned• Do not drive straight forward

*)= If present **)= Optional

9.5 Blocking the machine



Apply the tractor's handbrake so that it cannot roll away.



Work may only be carried out under a raised machine if the machine has been properly supported.



Before carrying out maintenance work or changing the machine's settings, it must have come to a complete standstill. The tractor's engine must be switched off and the key must have been removed from the ignition.



Be aware of residual mechanical, hydraulic, pneumatic and electrical energy present in the machine.

The machine may come to a halt because it is full, or because of stones or other obstacles.

To prevent damage to the transmission, the PTO drive shaft is fitted with an overload protection device.

A rattling noise is heard when the torque limiter is engaged.

<ol style="list-style-type: none">1. Immediately disengage the PTO drive shaft2. Raise the machine fully out of the ground.3. Place the support legs under the machine4. Place the machine on the ground and turn off the tractor engine.5. Remove the obstacle from the ground or the machine.6. Start tilling on the newly prepared section of soil.			

9.6 Uncoupling the machine



Be aware of residual mechanical, hydraulic, pneumatic and electrical energy present in the machine.



1. Lower the machine's support legs and secure them again with a lynch pin
2. Place the machine on a flat, stable surface
3. Secure the tractor to prevent unintended starting or rolling away
4. Disengage the three-point hitch
5. Drive the tractor forward about 25 cm
6. Disconnect the PTO shaft
7. Do not store the machine with full sand hopper



The support legs have been designed in such a way that the machine can be stored on them. If the machine is secured for transport with lashing straps or chains, the support legs may give way. In this case, precautions must be taken to ensure that the machine is not resting on the legs.

10 Maintenance of the machine



The machine may only be used and maintained by persons who are familiar with the machine and have been made aware of the risks. No-one who could not be expected to make correct use of the machine is to be permitted to commission or operate the machine.



Before carrying out maintenance work or changing the machine's settings, it must have come to a complete standstill. The tractor's engine must be switched off and the key must have been removed from the ignition.



Never use your hand or fingers to try to stop a leak in the hydraulic system. Fluid escaping under pressure (hydraulic oil) could enter the body through the skin and cause serious injury. Consult a doctor immediately in case of wounds from hydraulic oil!



Avoid dangerous situations. Repair broken or worn parts before using the machine.



Be aware of residual mechanical, hydraulic, pneumatic and electrical energy present in the machine.



Work may only be carried out under a raised machine if the machine has been properly supported.



For reasons of quality and safety, only use original **Imants®** parts.

10.1 Daily inspection

         	
General <ul style="list-style-type: none">• Warning stickers• Loose bolted connections• Running rollers	Guards <ul style="list-style-type: none">• PTO drive shaft guard(s)• Runner
Wear parts <ul style="list-style-type: none">• Aeration blade• Coulter	Drive <ul style="list-style-type: none">• Oil level in gearbox(es)• Vent nipples

10.2 Drive train

The drive train comprises the following components:

10.2.1 PTO drive shaft



Keep the PTO drive shaft clean. Lubricate sliding parts so that the PTO drive shaft can slide in and out easily.

- Consult the PTO shaft manual for its maintenance
- or <http://www.gkn-walterscheid.de/downloads/anleitungen>

10.2.2 Gear box



The gearbox is filled with running-in oil. This should be changed after **50** operating hours.
See oil type in table below



Position indications on the machine are always expressed as seen from the rear of the machine.



Dispose of the waste oil in an environmentally responsible manner. To do so, follow the local statutory regulations in force



Check the oil level

1. Set the gear box to be horizontal
2. The oil level must be in the middle of the sight glass of the level plug
3. The oil level should be at the bottom of the level plug



Change the oil

1. Place a collection pan under the gear box
2. Check the vent plug for correct operation
3. Open the drain plug.
4. Drain all the oil
5. Screw the drain plug back in and fill the gearbox
6. Screw the vent and filler plugs back in

10.2.2.1 Centre drive

10.2.2.2 Middle gearbox

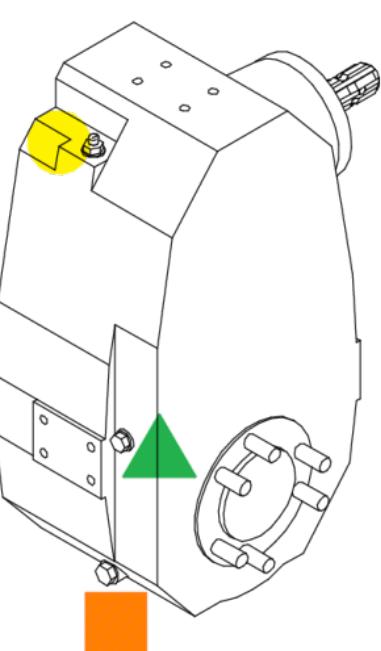
Symbol	Description	Gearbox type
●	Vent plug / filler plug	
▲	Level plug	
■	Drain plug	

Table 5: Oil level legend 6020-M-1

Gearbox type	Oil type	Oil volume	Maintenance interval
010963: 6020-M-1	MobilGear 600XP320	3.5 [L] / 0.9 (USgal)	12 months or 500 operating hours

Table 6: Gearbox filling details and maintenance interval 6020-M-1

10.3 Periodic maintenance and inspection: Checking the vent nipples

Symbol	Number of bleed nipples	Maintenance interval
★	1 (Main gearbox)	12 months or 500 operating hours

Table 7: Checking the vent nipples

10.4 Wear parts

10.4.1 Replace Aeration blade



Before carrying out maintenance work or changing the machine's settings, it must have come to a complete standstill. The tractor's engine must be switched off and the key must have been removed from the ignition.



For reasons of quality and safety, only use original **Imants®** parts.



Dispose of any worn components in an environmentally responsible manner. Always follow the locally applicable statutory regulations.



Procedure	Illustration
<ol style="list-style-type: none">1. ▲ Remove bolt connection2. Remove Aeration blade3. Clean wear and tear part holder4. Install Aeration blade5. ▲ Do up bolt connection6. Bolt connection torque: ▲ M14: 135 [Nm] / 100 (lbf ft) ▲ M12 10.9: 120 [Nm] / 86 (lbf ft)	

Table 8: Aeration blade

10.4.2 Replace Coulter QuickDrain



Before carrying out maintenance work or changing the machine's settings, it must have come to a complete standstill. The tractor's engine must be switched off and the key must have been removed from the ignition.



Dispose of any worn components in an environmentally responsible manner. Always follow the locally applicable statutory regulations.



Procedure	Illustration
<ol style="list-style-type: none">1. Place the machine on its legs.2. Remove the coulter cartridge3. Remove Sand hopper4. ▲ Remove bolt connection5. Remove Coulter6. Clean wear and tear part holder7. Install Coulter8. ▲ Do up bolt connection9. Install Sand hopper10. Fit the coulter cartridge.	

Table 9: Coulter

11 Cleaning



Never clean a machine while it is in operation. There is a risk of serious injury or even death.



Carefully check hydraulic hoses and electrical cables.



Never treat hydraulic hoses and electric cables with gasoline, benzene, petroleum or mineral oils.



Lubricate the machine after cleaning it. Especially after the machine has been cleaned using a high-pressure cleaner/steamer or fat-soluble agents.



Observe the legal requirements concerning the use and disposal of cleaning agents.

When cleaning with a high-pressure cleaner, you must always follow the instructions below:

1. Maximum permitted pressure is 100 bar.
2. The maximum temperature is 50°C
3. Do not clean the electrical components.
4. Never direct the jet of the high-pressure cleaner or steamer directly at the stickers, lubricating points or bearings.
5. Keep the high-pressure cleaner/steamer a minimum distance of 600 mm away from the machine
6. Observe the safety regulations for the use of high-pressure cleaners.

12 Decommissioning

When the machine is decommissioned, the parts can be sorted as follows:

1. Metals
2. Plastics
3. Oils and greases



Dispose of the sorted materials in an environmentally responsible manner. Always follow the locally applicable statutory regulations.

13 Warranty

IMANTS BV warranty information

(A) Warranty

IMANTS BV guarantees that none of the products that it manufactures has any material faults and IMANTS BV issues a warranty for the manufactured products at the time of shipment, which is valid for a period of twelve (12) months from the date of delivery to the customer. IMANTS BV delivers replacement parts, free of charge, for all parts that IMANTS BV considers to be faulty at the time of shipment. Alternatively, IMANTS BV can opt to repair such components or have such components repaired on its behalf on the condition that such components are returned on request to the factory at Turnhoutseweg 29, 5541 NV, Reusel, the Netherlands. The transport costs for the return shipment must be paid in advance.

This warranty does not apply to any products that have been subject to incorrect use, incorrect application, negligence (including, but not limited to, incorrect maintenance), an accident, incorrect installation, a modification (including, but not limited to, the use of components or add-on components for which permission has not been granted), an alteration or repair. Motors and all accessories that are delivered with products from IMANTS BV but which are not manufactured by IMANTS BV are not covered by the warranty issued by IMANTS BV. They are only sold with the explicit warranty, if there is one, issued by the manufacturer concerned. **THE ABOVE REPLACES ALL OTHER WARRANTIES, EITHER EXPLICITLY OR IMPLICITLY (INCLUDING GUARANTEES OF SALEABILITY AND SUITABILITY OF ANY PRODUCT FOR A CERTAIN PURPOSE), AS WELL AS ANY OTHER LIABILITY OF IMANTS BV.**

(B) Limitation of liability

It is expressly stated that the liability of IMANTS BV for its products, either on account of termination of the warranty, negligence, strict liability or otherwise, is limited to the delivery of replacement components and that IMANTS BV is not liable for any injury, loss, damage or expenses, neither directly or indirectly, including, but not limited to, a loss of use, income, profit or production, or higher operational costs, or decay or damage of materials resulting from the sale, installation, use, inability to use, or repair or replacement of IMANTS BV products.

Every operation that is expressly forbidden in the operating instructions or instruction manuals that are provided with the machine, and any alteration or assembly procedure that is not recommended by or is not permitted according to the operating or maintenance instructions invalidates such warranty.

(C) Registration

THIS WARRANTY IS INVALID UNLESS THE REGISTRATION FORM IS COMPLETEED AND RETURNED TO THE FACTORY AT TURNHOUTSEWEG 29, 5541 NV, REUSEL, THE NETHERLANDS, WITHIN 30 DAYS AFTER DELIVERY OF THE UNIT TO THE CUSTOMER.

No component must be returned under warranty unless IMANTS BV has given permission for it to be returned (RGA - Return Goods Authorization).

ALWAYS STATE THE NAME OF THE COMPONENT, THE COMPONENT NUMBER AND THE SERIAL NUMBER OF THE MACHINE WHEN ORDERING COMPONENTS.

NOTE:

IMANTS BV maintains the right to make changes to the design and construction without the obligation to also make these changes to previously sold products. In the event of conflicts, the general terms and conditions of delivery and payment laid down by the Koninklijke Metaalunie are applicable.

14 Appendix/Appendices

In this part of the manual, you can find extra information about your machine

15 CE declaration



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