

Gigant Pro 25.130

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Please read the manual carefully before
commissioning the machine!

This manual is valid for:

Model	Item number
Gigant Pro 25.130 Pro E	HOGIEPRO
Gigant Pro 25.130 Pro Z	HOGIZPRO
Gigant Pro 25.130 EZ	HGIEZPRO

Version of this manual:

Gigant Pro 1.0

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Table of Contents

1	EC Declaration of Conformity.....	5
2	Safety instructions.....	6
2.1	Explanation of symbols and instructions.....	6
2.2	Pictograms and their meaning.....	7
2.3	General safety instructions.....	9
2.4	Intended use.....	9
2.5	Operator requirements.....	9
2.6	Alterations to the machine.....	10
3	Description of the machine.....	11
3.1	Functionality.....	11
3.2	Overview.....	12
3.3	Explanation of the components.....	14
3.4	Technical data.....	14
4	Transportation of the machine.....	15
4.1	Safety instructions during transport.....	15
4.2	Transportation and travelling on public roads.....	15
4.3	Switch off.....	16
5	Installation of the machine.....	17
5.1	Safety instructions for installation of the machine.....	17
5.2	Duties before starting operation.....	18
5.3	Electrical supply (Gigant Pro E and Gigant Pro E-Z).....	19
5.4	Controlling the rotation direction of the motor (Gigant Pro E and Gigant	

Pro E-Z).....19

5.5Connection of the PTO shaft (Gigant Pro Z and Gigant Pro E-Z).....20

6	Operation.....	21
6.1	Safety instructions during operation.....	21
6.2	Important instructions during operation.....	23
6.3	Switching on the machine in E-mode (Gigant Pro E and Gigant Pro E-Z).....	25
6.4	Switching on the machine in Z-mode (Gigant Pro Z and Gigant Pro E-Z).....	25
6.5	Functionality of the joysticks.....	26
6.6	Optional: Chain feeder.....	27
6.7	Bringing the Gigant Pro into working position.....	28
6.8	Splitting process.....	28
6.9	Daily inspections.....	28
7	Shutdown.....	29
7.1	Safety instructions for the shutdown.....	29
7.2	Switching off the drive mechanism and bringing into transport position.....	30
8	Maintenance.....	32
8.1	Safety instructions during maintenance.....	32
8.2	Important instructions during maintenance.....	34
8.3	Instructions for working on electrical equipment.....	35
8.4	Instructions for working on hydraulic equipment.....	35
8.5	Duties before stopping operation.....	35
9	Servicing.....	37
9.1	Safety instructions during the servicing.....	37
9.2	Cleaning.....	38



9.3 Tyres.....38

9.4 Lubrication.....38

9.5Hydraulic oil change.....	39
9.6Changing the oil filters.....	40
9.7Changing the hydraulic hoses.....	41
9.8Servicing schedule.....	41
9.9Emergency lighting.....	41
10Assistance with malfunctions.....	42
10.1Safety instructions for malfunctions.....	42
10.2Troubleshooting.....	43
11Guarantee and warranty.....	44
12Conduct in dealing with accidents.....	45
13Notes.....	46

1 EC Declaration of Conformity

We hereby declare that the machine, in its different technical implementations, corresponds to the regulations of Machinery Directive 2006/42/EC and any additionally related standards.

Each of the respectively included safety regulations and manuals are applicable to these machines.

The machines may not be altered. In the case of an alteration to the machine that is not verified by us, this declaration is rendered invalid.

Operation without the appropriate safety devices is not permitted, as the lack of safety devices would no longer comply with the EC directives and would additionally increase the risk of injury.

The name and address of the person who is authorised to compile the technical documentation is as follows:

St. Georgen am Fillmannsbach, 2015








Karl Binderberger
Director

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2 Safety Instructions




2.1 Explanation of symbols and instructions

Please pay attention to the meaning of the following symbolic explanations and instructions description. They are divided into levels of risk and classified in accordance with ISO 3864-2.

 GEFAHR	
	<i>Indicates an immediate threat of danger. If the information is not followed, death or serious bodily injury (disability) are the result.</i>
 WARNUNG	
	<i>Indicates a potentially dangerous situation. If the information is not followed, death or serious bodily injury (disability) are the result.</i>
 VORSICHT	
	<i>Indicates a potentially dangerous situation. If the information is not followed, death or serious bodily injury (disability) are the result.</i>
NOTICE	
	<i>Indicates general instructions, useful operator instructions and working recommendations that have no influence on the safety and health of the personnel.</i>

2.2 Pictograms and their meaning

	<p>Read the operating instructions carefully before starting up!</p> <p>Ear protection and safety glasses are to be worn during the operation!</p> <p>Safety shoes (with steel cap) are to be worn during the operation!</p> <p>Gloves are to be worn during the operation</p> <p>The machine may only be operated by one person.</p> <p>Warning - hot surfaces.</p> <p>Warning - rotating parts.</p> <p>Warning – retraction. Warning – risk of crushing</p>
	<p>Switch the machine off before servicing and secure against restarting.</p> <p>Machine may only be serviced by person.</p> <p>Allow the machine to cool down before servicing.</p>

	Risk of injury through tripping
	Risk of injury through slipping
	Lubrication points

2.3 General safety instructions

The machine may only be operated only by people who are trained, instructed and authorised for its use. These people must know the operating instructions and act in accordance with them. The respective competences of the operating personnel are clearly defined.

Operating personnel undergoing training may only initially work with the machine under the supervision of an experienced person. The completed and successful instruction is to be confirmed in writing.

2.4 Intended use

The Gigant Pro is exclusively intended for the splitting of logs. All other forms of usage do not comply with the intended use. The manufacturer is not responsible for any personal injury or material damage that originates from non-compliant usage, but rather the operator of the machine is!

The reading of this manual as well as the observance of all instructions contained within it, particularly the safety instructions, also form part of compliance with the intended use. Also included is the fact that all inspection and servicing work is to be conducted within the prescribed time intervals.

2.5 Operator requirements

No special knowledge of mechanical engineering or electrical engineering is necessary for the operation of the machine. Nevertheless, the operator must be at least **18 years old**. Before the machine is operated for the first time, the user must be trained by the operator of the machine and instructed accordingly. Protective shoes and close-fitting clothing are to be worn during the operation of the machine. In instances where servicing work is to be carried out, the operator must possess the necessary technical expertise.

2.6 Alterations to the machine

For safety reasons, no unauthorised alterations may be conducted on the machine; this is also valid for welding work on load-bearing parts. All planned alterations must be approved in writing by the Binderberger company.

Only use original replacement parts / original wear parts / original accessories - these parts are specially designed for the machine. There is no guarantee with externally manufactured parts that they have been designed and manufactured to fulfil the operational stress and safety demands.

Parts and additional equipment that have not delivered by us are also not authorised by us for use in the machine.

3 Description of the machine

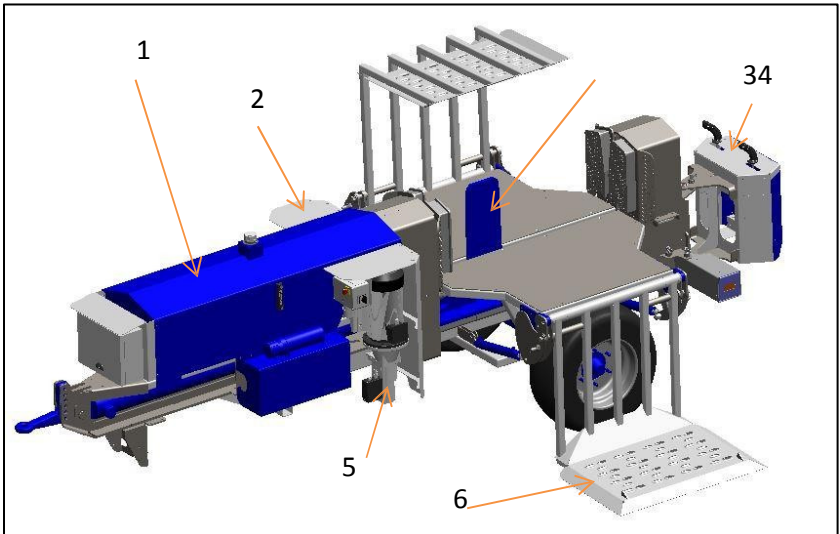
3.1 Functionality

The Gigant Pro is hydraulically driven. The drive mechanism of the hydraulic system occurs through an electric motor or PTO shaft-driven pump. The logs are lifted onto a delivery table or a chain feeder by means of a lifting cage. Then the splitting process is started by means of a joystick through electric-hydraulic control.

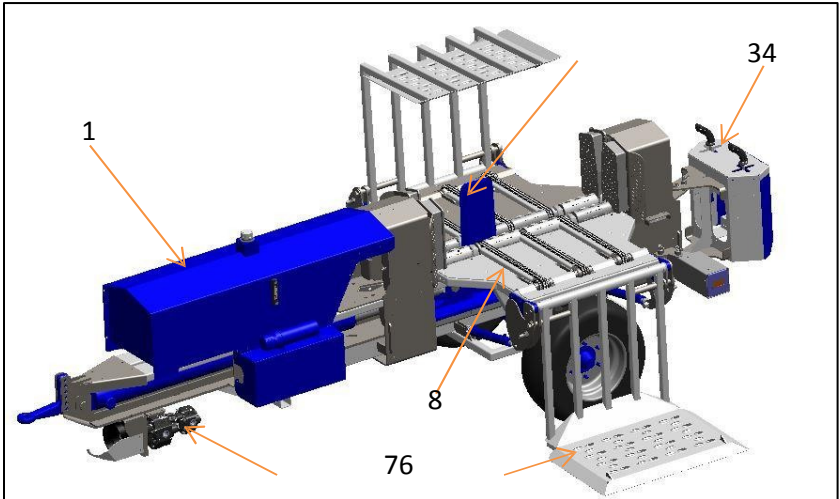
The Gigant Pro may only be used, serviced or maintained by people who are familiar with it and are instructed in the possible dangers. The requirements for the operator or the servicing and maintenance people are stated in the following.

3.2 Overview

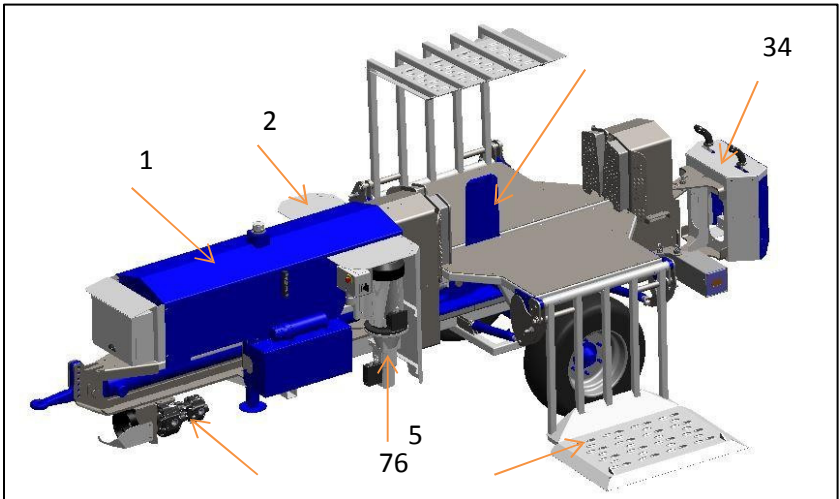
Gigant Pro E:



Gigant Pro Z with chain feeder (optional):



Gigant Pro E-Z:



3.3 Explanation of components



Number	Description
1	Hydraulic oil tank
2	E-motor 2 with single pump
3	Splitting blade
4	Control console
5	E-motor 1 with double pump
6	Lifting cage
7	PTO shaft-driven pump

3.4 Technical data

	Gigant Pro-E	Gigant Pro-Z	Gigant Pro- EZ
Weight [kg]			
Working height [mm]	950		
Splitting length [mm]	1150-1300		
Splitting diameter max. [mm]	750		
Splitting diameter min. [mm]	100		
Splitting force [t]	25		
Working pressure [bar]	210		
Connection power [V] /[A]	400/32		400/32
Tractor power [HP]		50	50
Drive mechanism revolutions per minute [rpm]		540	540
Forward speed [cm /sec]	25	27	25/27
Reverse speed [cm /sec]	23	25	23/25
Oil pump volume [l / min.]	74	81	74/81
Hydraulic tank capacity [l]	155		
Dimensions L x B x H [mm]	4900 x 1900 (lifting cage lowered 3200) x 1800		

4 Transportation of the machine

4.1 Safety instructions during transport

 WARNING	
	<p style="text-align: center;"><u>Risk of injury during transport!</u></p> <ul style="list-style-type: none">• Care must be taken to ensure that nobody is in the danger area and a sufficiently safe distance is kept!• During transport, any sloping or inclinations may result in the leaking of lubricants, which can result in a risk of chemical burns, should they come into direct contact with the skin.• The machine is only permitted to be hoisted by The intended points!

4.2 Transportation and travelling on public roads

All points for the decommissioning must be conducted before transporting the machine.

Check whether the lights are folded outwards and that the 7-pin vehicle plug is plugged into the tractor. Conduct a function test as to whether the lights are functioning perfectly.

The national legal regulations must be complied with during transportation on public roads!



- Keep the reflectors and lights clean.
- If you go drive by the vehicle, the travel speed of the surface conditions must be adapted to local conditions. In this manner, the machine can be protected against strong vibrations that could have a negative impact on the connections.
- Pay attention to the total height when travelling under bridges.


4.3 Switch off

- The Gigant Pro should be cleaned and all paintwork damage should be touched up before the device is switched off.
- All lubrication points are to be lubricated.
- Apply a thin layer of lubricant in the areas that cannot be point enamelled or greased.
- The hoses are to be cleaned and dried.
- Lower the pressure in the cylinders.
- The storage area should be cool and dry.


5 Installation of the machine

5.1 Safety instructions for installation of the machine

 WARNING	
	<p style="text-align: center;"><u>Risk of injury with improper installation of the machine!</u></p> <ul style="list-style-type: none">• Check the machine for damage as a result of transportation before each installation!• Install the machine on level and solid ground!• Use the supporting legs of the machine!• Ensure that nobody is endangered by the installation!• Lay the machine connections, cables and hoses in such a manner that there is no risk of tripping!• The machine may only be operated while in good order and condition!• Do not assemble or dismantle hoses under pressure!• Hoses under pressure may not be placed in the operator's cabin! If this is not possible, ensure that the operator cannot be injured from a possible rupture in the hoses!• Secure the PTO shaft guard against rotation.• Care must be taken to ensure that nobody is between the machine and tractor!

 VORSICHT	
	<p><u>Risk of injury through rotating drive shaft</u></p> <ul style="list-style-type: none">• Secure the PTO shaft guard against rotation.

5.2 Duties before starting operation

NOTICE	
	<p><u>Conduct the following actions before starting operation:</u></p> <ul style="list-style-type: none">• Assembly and connection must occur according to instructions.• Before start of operation, check that all hoses, couplings, bolts and screw connections are mechanically secured.• With outside temperatures under 0° Celsius, allow the machine to run in neutral without a load for approximately 10 minutes.• Secure the PTO shaft guard against rotation.

5.3 Electrical supply (Gigant Pro E and Gigant Pro E-Z)

The safeguarding and dimensioning of the electrical power supply are to be determined by an electrical expert in accordance with the national standards and dependent upon the line length!

Plug the 5 -pin CEE 400V/ 16A supply line into the power plug.

The Gigant Pro must be operated with a supply grid that is secured with a 30mA fault-current circuit breaker.

Never conduct works on electrical installations if you do not have the necessary technical expertise.

5.4 Controlling the rotation direction of the motors (Gigant Pro E and Gigant Pro E-Z)

Briefly switch the motor on and check the rotation direction in the fan blade of the motor. The correct rotation direction can be determined by the sticker on the fan cover of the motor. If the rotation direction is not correct, disconnect the power supply to the Gigant Pro.



There is a phase inverter in the plug with which the rotation direction of the motor can be changed (push in and turn the disc within the plug 180° using a screwdriver).



5.5 Connection of the PTO shaft (Gigant Pro Z and Gigant Pro E-Z)



Drive the tractor in front of the Gigant Pro and connect it to the 3-point securing of the tractor.



Switch off the tractor. The splitter and the tractor can now be connected to the PTO shaft.



Secure the PTO shaft guard against rotation.

6 Operation



6.1 Safety instructions during operation



 GEFAHR	
	<p><u>Risk of injury by being drawn in or caught by moving machine parts!</u></p> <ul style="list-style-type: none">• Maintain a sufficiently safe distance from moving machine parts!

 WARNING	
	<p><u>Risk of injury while operating!</u></p> <ul style="list-style-type: none">• Care must be taken to ensure that only the operator is at the control console.• Ensure that no other people are in the danger area and a sufficiently safe distance is kept! (min. 25 metres)• Make yourself familiar with the operational controls of the Gigant Pro!• Ensure that the machine is in a secure position!• Care must be taken to ensure that nobody is between the machine and tractor!


 VORSICHT	
	<p><u>Tripping over parts lying around!</u></p> <ul style="list-style-type: none">• All parts that do not belong to the machine are to be removed from the area surrounding it.

 VORSICHT	
	<p><u>Risk of injury through negligent use of the personnel protective equipment!</u></p> <ul style="list-style-type: none">• Wear protective gloves and safety shoes with steel caps.

 VORSICHT	
	<p><u>Risk of injury while operating</u></p> <ul style="list-style-type: none">• One person only may work on the machine at all times.• Care must be taken to ensure that no other people remain in the area of the machine.

 VORSICHT	
	<p><u>Risk of injury through rotating drive shaft</u></p> <ul style="list-style-type: none">• Secure the PTO shaft guard against rotation.

6.2 Important instructions during operation

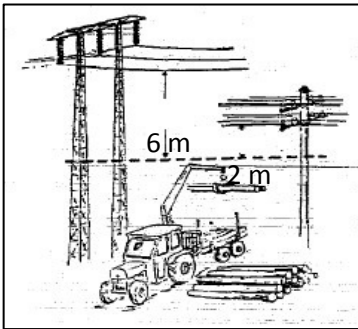
NOTICE	
	<ul style="list-style-type: none">• The operating personal must take care to ensure that no unauthorised people remain in the working area of the machine.• Before turning the machine on, familiarise yourself with the correct conduct in the event of a failure.• Before the turning the machine on, perform the points cited in the section "Duties before starting operation".• After switching off the machine, the working steps from the following section "Shutdown" must always be carried out.• If the operating personnel leave the machine so that it is unattended, it must be switched off and is to be secured against unauthorised restarting.

Operation under power supply lines:

Pay strict attention to the specified safety distance when working under power supply lines. No part of the machine may be closer than the safety distances (stated below) from the power supply lines.

With low-voltage lines: min. 2 metres

With high-tension lines: min. 6 metres



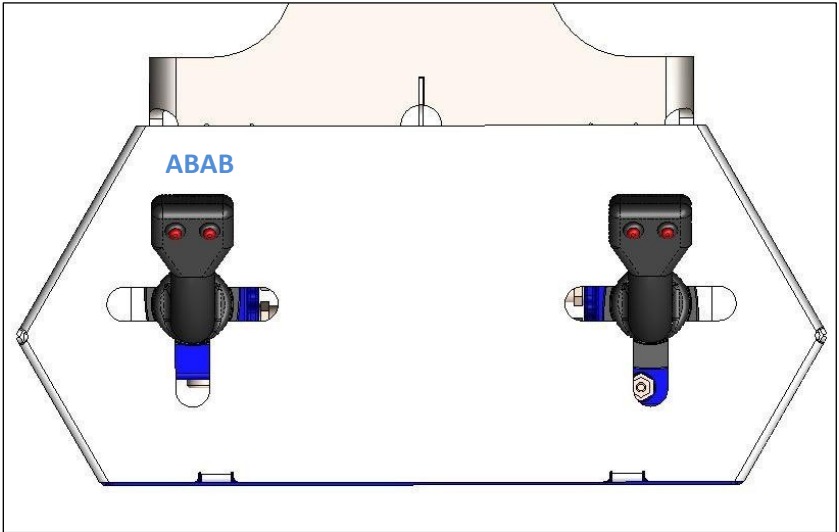
6.3 Switching on the machine in E-mode (Gigant Pro E and Gigant Pro E-Z)

1	Plug in the 5 -pin CEE 32A supply.
2	Switch on the motor on the left side in the direction of travel using the star – delta
3	Switch on the motor in the right direction of travel with the switch
4	The machine is now operational

6.4 Switching on the machine in Z-mode (Gigant Pro Z and Gigant Pro E-Z)

1	Connect the Gigant Proto the tractor
2	Connect the tractor and splitter with the PTO shaft
3	Secure the 12V supply
4	Switch on the PTO shaft with a minimum rpm of 440R/ min
5	The machine is now operational

6.5 Functionality of the joysticks



Function		Symbol
Splitting against the direction of travel (splitting blade moves	Hold both joysticks and press the "A" key.	
Splits in the direction of travel (splitting blade moves away from	Hold both joysticks and press the "B" key.	

Raise left lifting cage	Press the left joystick forwards in the direction of drawbar eye	
Lower lifting cage left	Pull the left joystick towards you.	
Raise lifting cage right	Push the right joystick forwards in the direction of drawbar eye	
Lower lifting cage right	Pull the right joystick towards you.	

6.6 Optional: Chain feeder

Function		Symbol
Left chain feeder turns in the direction of lifting cage	Press the left joystick to the left.	
Left chain feeder turns in the direction of the splitting blade	Press the left joystick to the right.	
Left chain feeder turns in the direction of the lifting cage	Press the left joystick to the left.	
Left chain feeder turns in the direction of the splitting	Press the left joystick to the right.	

6.7 Bringing the Gigant Pro into a working position

1	Start the tractor and switch on the PTO shaft or switch on the electric motor
2	Drive both right cylinders upwards until the spring bolts engage
3	Now swing out the lifting cage with both hands until it lies completely on the lifting cage kinematics
4	Lower the right lifting cage completely down
5	Drive both left cylinders upwards until the spring bolts engage
6	Now swing out the lifting cage with both hands until it lies completely on the lifting cage kinematics
7	Lower the left lifting cage completely down
8	You can now begin the splitting process

6.8 Splitting process

1	Lay a log with a maximum length of 1300 mm in the lifting cage
2	Now lift the log into the splitting chute with the aid of the lifting cage
3	Concentrically align the log with the splitting blade
4	Split the log through with the splitting blade
5	Lay one piece of the log outside the splitting chute
6	Repeat the process until the desired log size has been reached



6.9 Daily inspections



Visually inspect the machine. Pay attention to faults and defects that could have an influence on safety. Potential faults and defects are to be repaired.



- Be certain that no leaks exist in the hydraulics
- Be certain that no hoses are damaged.



7 Shutdown

7.1 Safety instructions for the shutdown

 GEFAHR	
	<p><u>Risk of injury by being drawn in or caught by moving machine parts!</u></p> <ul style="list-style-type: none">• After the shutdown, wait until all moving machine parts have come to a complete stop!• Keep a sufficiently safe distance away from moving machine parts

 WARNING	
	<p><u>Risk of injury during shutdown!</u></p> <ul style="list-style-type: none">• Care must be taken to ensure that nobody is in the danger area and a sufficient safe distance is maintained!• Do not stand under suspended loads as these can drop down!• Care must be taken to ensure that nobody is between the machine and tractor!

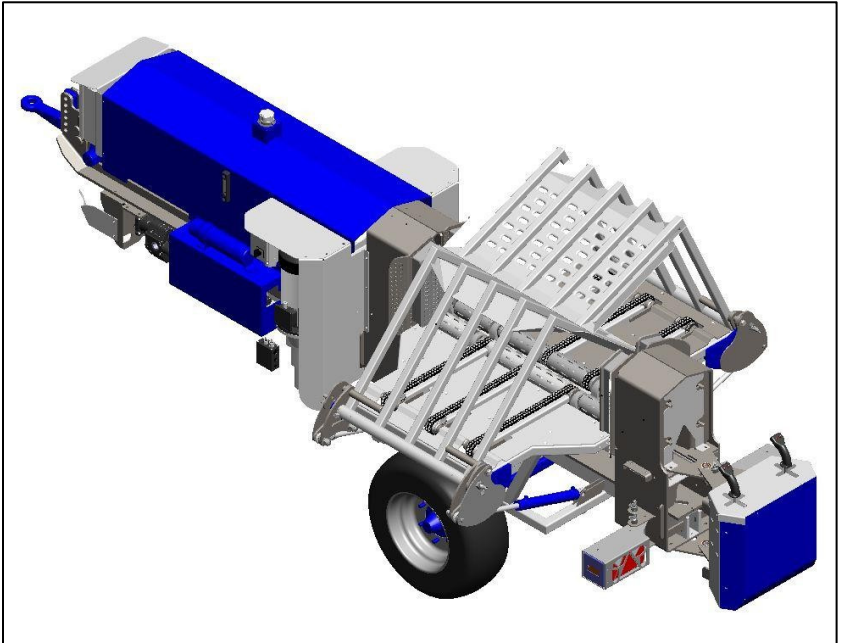
 WARNUNG	
	<p><u>Risk of injury with the switching on of the machine by unauthorised people!</u></p> <ul style="list-style-type: none"> • After operation, secure the machine against unauthorised switching on! • With longer absences from the work area, the machine is to be disconnected from the energy supply.

 VORSICHT	
	<p><u>Risk of injury through rotating drive shaft</u></p> <ul style="list-style-type: none"> • Secure the PTO shaft guard against rotation.

7.2 Switching off the drive mechanism and bringing it into the transportation position


1	Split the last log and clear it from the machine
2	Drive the splitting blade directly forwards, in the direction of the drawbar
3	Lift the left lifting cage completely upwards
4	Now swing the lifting cage back with both hands until it lies on the machine
5	Loosen both spring bolts in the lifting cage
6	Now both cylinders can be lowered again
7	Lift the right lifting cage completely upwards
8	Now swing the lifting cage back with both hands until it lies on the other lifting cage
9	Loosen both spring bolts in the lifting cage
10	Now both cylinders can be lowered again
11	Now, disconnect either the PTO shaft of the tractor and also switch them off or disconnect
12	Separate the PTO shaft or the power cables from the splitter

Transport position view





8 Maintenance



8.1 Safety instructions during maintenance

 GEFAHR	
	<p><u>Severe risk of injury through the switching on of the drive mechanism during maintenance works!</u></p> <ul style="list-style-type: none">• Switch off machine!• Secure against unintentional restart!

 VORSICHT	
	<p><u>Risk of slipping on oil residues during maintenance works (oil change)!</u></p> <ul style="list-style-type: none">• Use appropriate collection containers.• Remove leaked oil immediately.

 VORSICHT	
	<p><u>Risk of injury! Scalding through hot machine components and media!</u></p> <ul style="list-style-type: none">• Allow machine to cool down to ambient temperature before all maintenance works.

 VORSICHT	
	<p><u>Risk of injury through contact with lubricants!</u></p> <ul style="list-style-type: none">• Avoid contact with skin and eyes.• Do not swallow or inhale.• Use the appropriate protective equipment (gloves, safety glasses).

 VORSICHT	
	<p><u>Risk of injury through rotating drive shaft</u></p> <ul style="list-style-type: none">• Secure the PTO shaft guard against rotation.

8.2 Important instructions during maintenance

NOTICE



- Immediately exchange all impaired machine parts.
- Only use original replacement parts.
- Be certain that appropriate collection containers are available for all substances that pose a threat to ground-water (oils and coolants, among others). Only use the fuels specified.
- Only use the fuels specified.
- Self-securing bolts and nuts are always to be replaced.
- All fuels and lubricants that are not re-used are to be disposed of in an environmentally sound manner.
- Serious motor damage can originate from the installation of incorrect replacement parts or wear parts.
- There is a risk of fire when undertaking work involving welding. Keep fire extinguishers at the ready.
- Improperly laid lines can cause smoulder fires and cable fires.
- Never enable the machine without the factory-provided safety equipment for the operation.
- It is strictly forbidden to remove safety instructions attached the machine.
- Replace the instruction stickers on the machine if they are no longer readable.
- Always follow the warning instructions that are on the machine. They help to avoid danger.
- Do not conduct repairs if you do not have the necessary qualifications

8.3 Instructions for working on electrical equipment

It is essential that any work carried out on the electrical equipment of the machine is performed by trained electrical specialists.

- Regularly check electrical equipment.
- Retighten loose connections.
- Immediately exchange broken lines or cables.
- Never clean electrical equipment with water or similar liquids.

8.4 Instructions for working on hydraulic equipment

It is essential that any work carried out on the hydraulic equipment of the machine is performed by trained specialist personnel.

- Release the pressure in all hydraulic equipment/ machine components before work is undertaken.
- Be certain before beginning work that the appropriate collection containers are available for all substances that pose a risk to ground-water (oils and coolants among others).

8.5 Duties before finishing works



After end of the maintenance works and before starting up the machine, the following points are to be followed:

- Check that all previously loosened screw connections are solidly seated.
- Check whether all previously removed safety devices, covers, container lids, etc. are properly reinserted.
- Be certain that all used tools, materials and other equipment from the working area are removed again.
- Clean the working area and remove any liquids and similar substances that might have leaked.
- Be certain that all safety devices of the machine are perfectly functioning again.


- Check the function of the safety devices. Do not release the machine for use if the safety devices are not functioning perfectly.
- Conduct a trial run with a functional check of the repaired components.
- Protect the machine from unauthorised switching on if the work has not been completed.
- Contact with open fire and smoking is forbidden.



9 Servicing

9.1 Safety instructions during the servicing

 GEFAHR	
	<p><u>Severe risk of injury through the switching on of the drive mechanism during servicing works!</u></p> <ul style="list-style-type: none">• Switch off machine!• Secure against unintentional restart!• Disconnect from energy source.

 VORSICHT	
	<p><u>Risk of slipping on oil residues during servicing works (oil change)!</u></p> <ul style="list-style-type: none">• Use appropriate collection containers.• Remove leaked oil immediately.

 VORSICHT	
	<p><u>Risk of injury! Scalding through hot machine components and media!</u></p> <ul style="list-style-type: none">• Allow machine to cool down to an ambient temperature before all servicing is undertaken.• Keep easily inflammable material away from hot surfaces.

 VORSICHT	
	<p style="text-align: center;"><u>Risk of injury through contact with lubricants!</u></p> <ul style="list-style-type: none">• Avoid contact with skin and eyes.• Do not swallow or inhale.• Use the appropriate protective equipment (gloves, safety glasses).

 VORSICHT	
	<p style="text-align: center;"><u>Environmental danger!</u></p> <ul style="list-style-type: none">• Care must be taken to ensure that no oil leaks into the environment.• Leaked oil pollutes waters and ground water.

9.2 Cleaning

The machine is to be free of dirt after each use and before any maintenance operation!

The Gigant Pro must be lubricated after each cleaning with water!

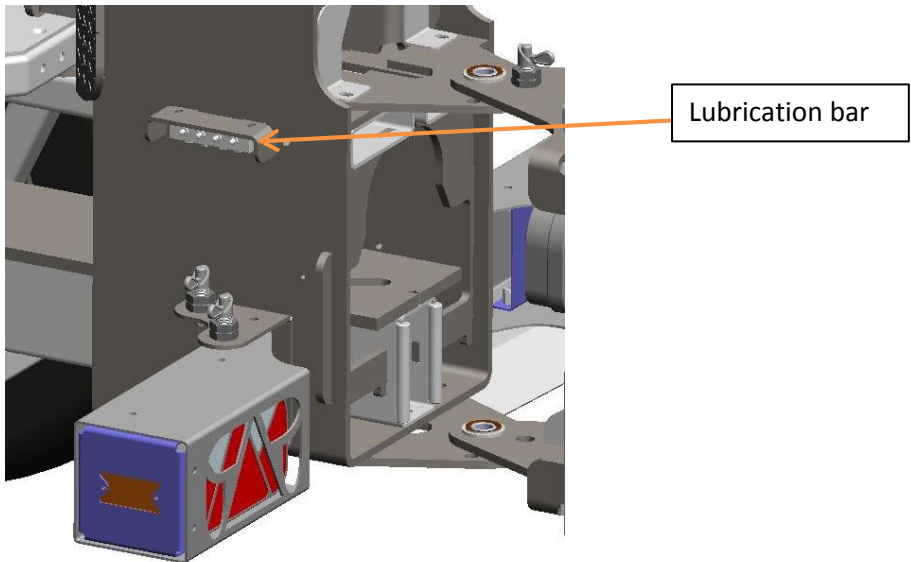
9.3 Tyres

Make sure that the tyres have an air pressure of 5 bar. The lug nuts must be tightened to 340 Nm.

The wheel nuts must be checked after the first 5 km and retightened!

9.4 Lubrication

Lubrication should be carried out according to the schedule shown below. It is more appropriate to lubricate on a regular basis, rather than using a great deal of lubricant all at once. Broken lubricating nipples are to be replaced.



The central lubrication point is on the left side in the direction of travel, behind the control console. Lubrication should take place after every 10 hours of operation. **Every lubricating nipple must be individually lubricated.**

Only use brand name lubricating grease. Do not use **any** greases with solid additives, for example, molybdenum sulphide (MoS₂). This can lead to accelerated bearing wear.

- Do not use plant-based oils because these corrode the seals and valves more quickly.
- As an alternative oil, synthetic, environmentally friendly oil are available.

Warning!

If, for example, the lubrication duct of an axle tap or a bearing housing is clogged and therefore cannot be penetrated, the operation is to be stopped and the lubrication duct is to be cleaned.

9.5 Changing the hydraulic oil

The first oil change must be carried out after 50 hours of operation.

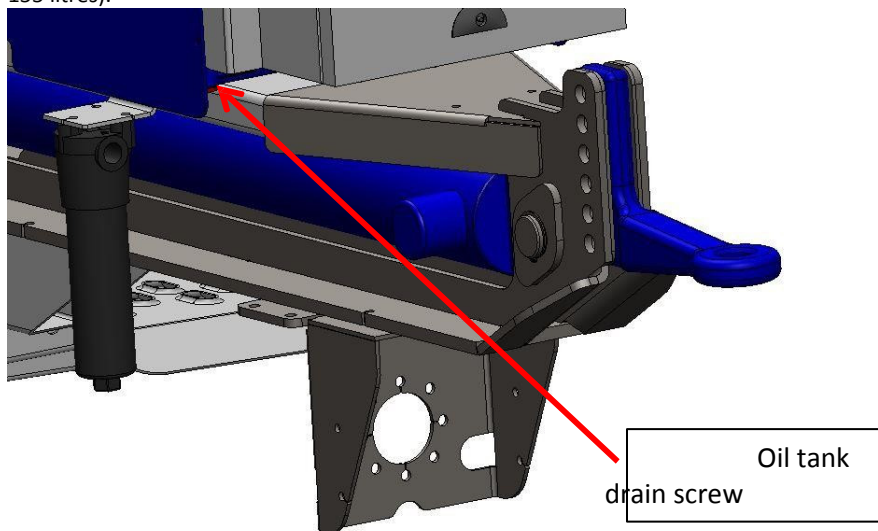
Thereafter, oil changes must be carried out after every 250 hours of operation or at least once a year.

Use HVI 46, or equivalent hydraulic oil.

Care must be taken to ensure that a sufficiently large collection container is available.

For the draining of the hydraulic oil, unscrew the drain screw on the underside of the tank and drain the oil. This is on the left side in the direction of travel at the front end of the tank. When the oil is drained, screw the drain screw back in, using a new sealing ring. Now using the filling hole, fill the tank with new hydraulic oil up to the upper third of the gauge glass (approx.

155 litres).



9.6 Changing the oil filters

With the Gigant Pro, the oil filter is on the right side in the direction of travel in the front third of the machine in the hydraulic oil tank. The filter must be changed for the first time after 50 hours of operation. Then the oil filter change should be carried out after every 250 hours of operation or at least once a year.

For this:

1. Unscrew the external filter sleeve
2. Exchange the filter cartridge
3. Check the seal and change if damaged

4. Screw the filter sleeve back on
5. Examine for tightness

9.7 Changing the hydraulic hoses

All hydraulic hoses must be replaced after 5 years at the latest. Severe injury can occur if the hoses are damaged!

9.8 Servicing schedule

Regular servicing is the best guarantee for the effective and economical functioning of your splitters. The Gigant Pro has already been carefully tested and adjusted in accordance with factory standards.

	10h	1st time after 50hrs	Then every 250hrs or once per year
Lubrication points	Lubricate		
I-beam	Lightly grease		
Oil change		x	x
Oil filter change		x	x

9.9 Emergency lighting

The Gigant Pro can be equipped against a surcharge with emergency lighting and a 7-pin plug. This emergency lighting includes an indicator, rear lights and a brake light.

You must check the lighting before each time it is transported on public roads!







Broken lamps can be replaced as follows.

1. First, unscrew the four screws from the cover.
2. Remove the cover.
3. Remove the 2 screws that are screwed in the lighting.
4. Pull out the lamp and detach the light glass.
5. Change the lamp and reassemble everything.

Always ensure the correct watt number is used when changing lamps.

10 Assistance with malfunctions

10.1 Safety instructions for malfunctions

 GEFAHR	
	<p><u>Severe risk of injury through the switching on of a drive mechanism in the event of a failure!</u></p> <ul style="list-style-type: none">• Switch off machine!• Secure against unintentional restart!
 VORSICHT	
	<p><u>Risk of injury! Scalding through hot machine components and media!</u></p> <ul style="list-style-type: none">• Allow machine to cool down to ambient temperature before fault repair.
 VORSICHT	
	<p><u>Risk of injury through contact with lubricants!</u></p> <ul style="list-style-type: none">• Avoid contact with skin and eyes.• Do not swallow or inhale.• Use the appropriate protective equipment (gloves, safety glasses).

10.2 Troubleshooting

Failure	Cause	Correction
Pusher does not drive out	Incorrect motor rotation direction (with E-drive mechanism)	Change rotation direction
	Not enough hydraulic oil in the system	Check oil level
Motor does not run or frequently switches off	Fuse blown	Use correct fuses (32A inert)
	Motor guard is triggered	Inlet too weak (min 5x 2,5 mm)
	Motor guard triggered (Motor hums)	Only two phases
		A connector has come loose in the phase inverter Faulty line
	Faulty line	Allow the line to be checked by an expert
	Contactor or motor guard switch defective	Check switches
	Motor covered or heavily soiled	Uncover or clean motor (ATTENTION!! Do not clean with water)
Motor is hot and has no power	Only two phases are connected	Allow the line to be checked by an expert
Pusher blocked	Wood too knotted	Turn log
	Sealing set leaking (only after very long operation hours)	Replace sealing collars
Hydraulic hose is hot	Not enough oil in the system	Check oil level
	Old oil in the system	Conduct oil change
Hydraulic cylinder leaking	Sealing collars	Replace sealing collars
	Piston rod broken	Replace piston rod
Should you not be able to remedy the malfunctions, please contact your contact please contact your dealer! They will be happy to assist you.		

11 Guarantee and warranty

Guarantee Terms 950601:

The Binderberger Maschinenbau GmbH company provides a guarantee for a period of two years on parts that fail to fulfil their intended purpose as the result of material defects or production errors.

A one year guarantee is provided by our suppliers on goods procured by us, such as wheels, axles and valves. The guarantee comes into force with the delivery date.

The guarantee does not cover failures that are due to normal wear, inattentiveness, incorrect use and incorrect assembly. Hydraulic hoses and couplings are excluded from the guarantee.

Costs that originate within the scope of the guarantee procedure for detaching, assembly and delivery are not refunded. The guarantee is valid under the condition that the guarantee claim is registered directly with the Binderberger company. The fault should be repaired upon the mutual arrangement of the customer, the appointed dealer and the Binderberger company.

Where deemed appropriate by the manufacturer, the product or components of the machine must be returned to the manufacturer for the purpose of guarantee measures. For this, the model of the machine, the production number, the delivery date and the name of the owner, as well as the address, must be indicated.

The guarantee is invalid if the machine deviates from the original implementation, e.g., due to changes, set-up, additional constructions or the replacement of parts that have not been delivered by us. Otherwise, the NL92 delivery regulations are valid.

12 Conduct in dealing with accidents

As a matter of routine, ensure you have up-to-date information about available first aid options

After the initial care of anybody who is injured, immediately inform your supervisor of any personal injuries, damage to the machine or material damages.

In the event of the specific use of emergency vehicles, state the severity of the injury and damage.

In a disaster situation, immediately leave the machine (fire).

Dealer's stamp:

Name plate: