



Mini Dumper Operator's Manual MD500H PRO

FOR YOUR SAFETY

**Ensure you read and understand how to operate
the machine safely. Check your machines oil
levels before every use.**



Lumag Servicing and Maintenance Schedules

To maximise the life of your Lumag machine it needs to be serviced and maintained at every indicated month or operating hour interval, whichever comes first, in accordance with the below Schedules. Please note that failure to service your machine on schedule or use genuine Lumag parts and consumables will result in your warranty being void.

Engine Service & Maintenance Schedule

Item	Checks/Work	Each Use	20hrs (1st Month)	50hrs (2nd Month)	100hrs (6th Month)	300hrs (Yearly)
Engine Oil	Check Level	X				
	Change		X (1)		X	
Air Filter	Check	X				
	Clean			X (3)		
	Replace					X (4)
Sediment Cup	Clean				X	
Spark Plug	Check/Clean				X	
	Replace					X
Idle Speed	Check/Adjust					X (2)
Valve Clearance	Check/Adjust					X (2)
Fuel Tank Strainer	Check/Clean					X (2)
Combuster Chamber	Inspect/Clean					X (2)
Fuel Lines	Check					X (2)

Engine Oil	1000ml	Lumag Engine 1
Gear Oil	1500ml	Lumag Trans 1
Hydraulic Oil	5000ml	Lumag Hyd 1

Machine Service & Maintenance Schedule

Item	Checks/Work	Each Use	Weekly	20hrs (1st Month)	50hrs (2nd Month)	100hrs (6th Month)	300hrs (Yearly)
Hydraulic Oil	Check Level	X					
	Change				X (1) (2)		X (2)
Gearbox Oil	Check	X					
	Change				X (1) (2)		
Fasteners Tension	Check	X					
Clean Machine	Clean	X					
All Other Moving Parts & Cables	Lubricate			X			X (2)

1 – First service only, 2 = Should be carried out by your Lumag Dealer, 3 = May need to be done more often in dusty areas &
4 = Replace paper element only

Service & Maintenance Record

Product Details:

Model:

Serial number:

Purchase Date:

Date:	Description of checks/work carried out:
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Parts Used?	Y/N

Parts Invoice
Number:

Dealers Name:	
---------------	--

Engineers
Name:Engineers
Signature:

Please note that failure to service your machine on schedule or use genuine Lumag parts and consumables will result in your warranty being void

Service & Maintenance Record

Product Details:

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Engineers
Name:Engineers
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Please note that failure to service your machine on schedule or use genuine Lumag parts and consumables will result in your warranty being void

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1. GENERAL

1.1 Information on operating instructions

These operating instructions provide important information on handling the MINI-RAUPENDUMER MD 500HPRO. Requirement for safe operation is the correct observance of all specified safety and handling instructions. In addition, the rules governing the application range of the machine local accident prevention regulations and general safety regulations must be observed.

For your own safety and to protect third parties, the operating instructions carefully before the initial start-up, otherwise there is risk of injury! As a product component, these operating instructions must be kept at a known and for all users at all times accessible place and hand them over to a third party for disclosure of the machine.

Machine designation

The name of the machine replaces the commercial designation of the object to which these operating instructions - see cover sheet - applies.

reservations

Information on specifications, dimensions and illustrations of the machine as well as changes of safety standards are subject to continued development and are not binding for the delivered goods.

Printing and formulation errors.

1.2 limitation of liability

We have done our best to inform you as extensively as possible on the prevention of accidents when operating the machine, but do not assume liability for information incomplete to listed risk points and sources.

The manufacturer is not liable for damages due to:

- Failure to follow the operating instructions
- Improper use of the machine
- Improper installation, commissioning, operation and maintenance of the machine
- Operation of the machine is not properly mounted with defective or non-functional safety and protective equipment
- Failure to observe the instructions in the operating instructions regarding transport, storage, function, operation, maintenance and care of the machine
- Unauthorized modifications to the machine
- Inadequate monitoring of machine parts that are subject to wear
- Improper repairs
- Disaster caused by foreign objects and force majeure

1.3 copyright

All documents are protected by copyright. A transmission and reproduction of documents, including excerpts, as well as communications of the contents to third parties are not permitted, unless expressly agreed.

2. INTENDED USE

The MINI-Tracked is a motorized wheelbarrow, hand-held and has a four-speed transmission with two shift stages. Thanks to its efficient reduction gear, the machine is able to move in any situation and under any load. The machine is suitable for small loading and transportation tasks in landscaping and agriculture, taking into account the specifications and safety instructions listed in this manual.

It can be moved with a total weight up to 500 kg only loads. The allowable tilt in the direction of travel of 20 ° and transverse to the direction of 10 degrees must not be exceeded.

By default, the Mini-dumper is equipped with caterpillar tracks and a dump body. The unlocking and tilting takes place hydraulically.

The MINI-Tracked is not approved for people promoting or animal transport. Also, it is forbidden to use this machine to tow other machines, vehicles and / or equipment. This also applies to special or emergency.

Any other or additional use is not considered improper. The manufacturer is not liable for any resulting damage. The risk is borne solely by the user.

Observance of the operating and maintenance instructions and carrying out the maintenance and adherence to the maintenance intervals are intended for use.



Persons who are not familiar with the operating instructions, children, youth and persons with alcohol, drugs and medication influence may not operate the machine.

Possible misuse

Safety devices may not be removed or bypassed. Use of non-approved accessories.

The machine must not be used in commercial applications.



**Caution - Risk of injury!
Safety and protective devices must not be overridden!**

3. SECURITY

This section gives a comprehensive overview of all important safety aspects for adequate protection of the operator as well as for safe and trouble-free operation.

Failure to follow the instructions and safety information provided in this guide may result in considerable danger.

3.1 warnings

Warnings are indicated in this manual by symbols, it are highlighted by a warning triangle safety information for their personal safety, notes without a warning triangle relate to property damage only.

The instructions must be followed to prevent accidents, personal injury and property damage.

DANGER

Failure to follow these instructions highest danger to life or the risk of life-threatening injuries.
Failure to follow these instructions can be fatal or serious injury.

⚠ WARNING

ATTENTION

Failure to follow these instructions slight to moderate injury.

NOTE

Failure to observe this instruction is a risk of damage to the engine or other property.

In addition, the manual contains other important passages that by the word **ATTENTION** Marked are.

3.2 General safety

WARNING

Familiarize yourself with the machine. Proper training is essential for the safe operation of this device. Incorrect operation or operation by untrained personnel can be dangerous.

Read the manual of this machine carefully and observe the information stated on the machine labels. Familiarize yourself with the application and limitations as well as the associated, specific, potential hazards.

Familiarize yourself with the control panels and their appropriate use further. Learn how to stop the machine quickly and off. Inexperienced operators should receive instruction from the staff who are familiar with the machine. Only then they can operate the machine.

Besides the industrial safety instructions in this manual that apply to the application range of machine safety, accident prevention and environmental protection regulations and the road traffic regulations must be observed.

Operator responsibility

The operator must make the operator's manual available and ensure that the operator has read and understood the operator. The instruction manual should be handed over to it. In addition, he must train and inform about the dangers of handling the machine, the staff at regular intervals. Furthermore, the operator is responsible for ensuring that the machine is always in perfect condition.

Responsibility of the operator

Only trained persons are allowed to start, operate and switch off the machine. The operator should be trained in the correct operation of the machine and be familiar with the necessary safety devices. Insufficiently informed will endanger themselves and others due to improper use.

First time users should be instructed by the seller to familiarize yourself with the characteristics of the engine operated machine, the intended use and the necessary safety devices.

Persons who are not familiar with the operating instructions, children, young people

WARNING

under 18 and people with alcohol, drug and medication influence may not operate the machine. Aged 16 and over are allowed to use the machine as part of a training and under the supervision of a trained person.

3.3 Working and danger zone

DANGER

Internal combustion engines during operation and fueling a special hazard. Always read and follow the warnings and to the additional safety instructions given in parallel later in this manual. Failure to do so could result in serious injury or death.

Risk of injury from moving machine parts or moving engine equipment. The operator is

⚠ WARNING

liable for all damage to third parties and their property. Before commissioning and the start-up of the machine the short range is essential to control!

1. Do not start the engine in enclosed spaces or garages. The exhaust gases of the engine contains poisonous carbon monoxide. Staying in a carbon monoxide-containing environment may lead to unconsciousness and death. Do not let run into the engine indoors without proper ventilation and no way.
2. operate only with good visibility and light conditions.
3. Adjust the operating speed to the prevailing conditions.
4. When reversing special care to avoid slipping or falling.

3.4 Personal security

To minimize risk to the operator when handling the machine wearing expediently personal protective equipment (PPE) is mandatory.

Observe the following precautions:

1. Dress properly. Wear long pants, non-slip shoes or boots and gloves. Do not wear loose clothing, shorts and all kinds of jewelry. Protect them by tie it at shoulder height long hair. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
2. Always wear personal protective equipment (PPE).
 - Close-fitting work clothes that do not hinder the movement. Its main purpose is to protect against being caught by moving parts.
 - **Hearing protection** such as hearing protection, capsules, etc. to protect against hearing damage.



WATCH OUT! Noise can be harmful. If the allowable noise level of 80 dB (A) is exceeded, a hearing protection must be worn.

- **mouthguard** to protect against respiratory diseases to retain fine dust or particles.
- **Safety glasses with side protection** To protect the eyes from dust or splinters.
- **working gloves** made of thick leather to protect against sharp edges, splinters or excessive vibration.

- **Safety shoes or boots with steel toecaps** to protect against rough, sharp-edged surfaces or falling objects. Safety shoes also ensures a secure footing.
 - **Helmet** to protect the head from falling objects and suspended loads. He can protect them from injury even in tight situations.
3. Check your machine before commissioning. Make sure that all safety devices are properly installed and working. Make sure that all nuts, bolts, etc. are tight.
 4. You use the machine when it is in need of repair or in poor condition. Replace damaged, missing or in need of repair parts before operating the machine. Check that no fuel leaks and keep the machine in safe condition.
 5. Remove or change never the guards. Therefore, check regularly their proper function.
 6. Do not use the machine if they are not switched on by the motor switch or can be switched off. All gasoline-powered devices that can not be controlled by the motor switch is dangerous and must be replaced. Defective switches must be replaced at a service station.
 7. Make it a habit that any adjustment tools and wrenches are removed before the machine from the machine area. Tools or keys that are in the vicinity of a moving machine part can lead to injuries.
 8. Be attentive. Pay attention to what you are doing and use you if you use the machine your common sense.
 9. Do not overestimate yourself. Do not operate the machine when barefoot, in sandals or similar lightweight footwear. Wear safety shoes to protect your feet and provide them grip on slippery surfaces. Maintain a firm footing and always keep your balance. This allows for better control of the machine in unexpected situations.
 10. Avoid accidental starting. , Make sure that the motor is off before moving the machine or performing any maintenance or service work. Transportation or maintenance work on a running machine can cause accidents.

3.5 Fuel safety

DANGER

Internal combustion engines during operation and fueling a special hazard. Always read and follow the warnings and to the additional safety instructions given in parallel later in this manual. Failure to do so could result in serious injury or death.

1. When adding or draining the fuel tank, use a licensed waste fuel tank. Do this in a clean place outdoors. Do not smoke and make sure that while you are operating the machine, the environment is free from sparks, open flame or other ignition sources. Never refill the fuel tank in enclosed spaces!
2. Keep grounded conductive objects such as tools, away from open

current-carrying parts and connections, to avoid sparking or arcing. These events could ignite fumes or vapors.

3. Turn off the engine always off and let it cool before filling the fuel tank. Never remove the fuel cap or refuel with hot or running on. Do not operate the machine never known leaks in the fuel system.
4. Loosen the fuel cap slowly to release any pressure in the tank.
5. Do not overfill the fuel tank. Fill the tank no more than 1 1/2 cm below the lower edge of the filler neck to provide enough expansion space as the heat of the engine can stretch the fuel.
6. Replace all fuel tanks and container lid securely and wipe beaten on fuel. Never operate the equipment without the fuel cap is securely held.
7. Avoid creating ignition sources in the case of spilled fuel. In spilled fuel not try to start the engine. Remove the machine from the relevant field and avoid having to volatilize any source of fuel vapors.
8. Keep fuel into specially designed and approved for this purpose containers. Store fuel in a cool, well-ventilated area, safely away from sparks, flames or other sources of ignition.
9. Never store fuel or one serviced with fuel machine indoors, into the fuel vapors to sparks, flames or other sources (such as water heater, furnace, clothes dryer and the like.) Can make. Let the engine cool down before being parked in an enclosed space.

3.6 Use and care of the machine

1. Set the machine so that it both during the maintenance, cleaning, adjusting, installation of accessories or spare parts as well as during storage can not begin to move.
2. Do not overload the machine. Use your work only use a suitable device. With a proper machine do the job better and safer at the rate for.
3. The engine may not be operated at excessive speed. Do not change the basic setting of the engine. The speed controller regulates the maximum operating speed of the engine.
4. Do not let the engine run at high speed when you are not working.
5. Keep hands and feet away from rotating parts.
6. Avoid contact with hot fuel, oil, exhaust fumes and hot surfaces. Not the engine or exhaust touch! These parts will be extremely hot during operation. They remain even after the engine has been switched off for a short time hot. Leave to cool the engine before doing any maintenance or adjustments.
7. Should the machine start to give an unusual noise or vibration of itself, make the engine immediately, remove the spark plug and look for the cause. Unusual noises or vibrations are usually warning signs of problems.
8. Use only manufacturer-approved parts. This machine complies with the relevant safety regulations. Repairs may only by an authorized

Service center or our service team are performed by original spare parts are used; Otherwise accidents for the user may result.

9. Wait for the machine. Make sure that all movable and fixed parts are in the right position, no parts are broken or if there are other errors that may affect the smooth operation of the machine. If anything goes wrong, let the machine repaired before use. Many accidents are caused by poor maintenance.
10. Keep reducing the engine and exhaust free of grass, leaves, excessive grease or carbon covering the risk of a fire hazard.
11. Baste or never splash the unit with water or other liquids. Keep handles dry, clean and free of dirt. Clean the machine after each use.
12. Follow the proper disposal laws and regulations for gas, oil, etc. to protect the environment.
13. Store when not in use the machine properly. Select a safe location so that the machine can not be set by unauthorized persons in motion. Do not place outdoors or in a humid environment from the device. The machine from rolling away.

3.7 maintenance

WARNING

Improper maintenance or failure to comply or failure to correct a defect, technical defect or problem, can be a source of danger during operation. Only operate regularly and properly maintained machine. Just so you can assume that you operate your device safe, economical and trouble-free. And for a long time.

1. Before cleaning, repair or inspection work that the engine is off and all moving parts are at a standstill.
2. Before any work on the machine the spark plug cap to prevent accidental starting of the engine.
3. Let repair your machine by qualified personnel using original spare parts. The safety guarantee of the machine is guaranteed.

3.8 Special safety

WARNING

Instructions on hazards, warnings and precautions must be followed carefully to minimize the risk of injury or damage and incorrect service work.

1. Check the work carefully and keep it this clean and free of dirt to eliminate tripping hazards. Work on level ground.
2. Do not stand in areas where on your body in the event of movement

would put at risk during the assembly, installation and commissioning, maintenance, repair or installation.

3. Make sure that bystanders, children and animals keep a distance of at least 22 meters. When approaching immediately stop the machine.
4. Do not climb on the dump body and carry no people.
5. Set the machine, especially when loaded, never on an unstable soil could yield to the decreases.
6. always loosen the clutch before starting the engine.
7. Start the engine carefully according to the instructions and keep a safe distance from moving machine parts.
8. Never leave the operating position with the engine running.
9. Move the appliance in operation with both hands. Hold the handlebar firmly. Note that the machine can jump unexpectedly upward or forward if they should take as large stones to buried obstacles.
10. Run the machine at walking pace! Never walk with the machine.
11. Do not overload the machine. Introduce them at a safe speed and adapt them to the terrain slope, the road conditions and the to be transported to load.
12. Make sure that there are no obstacles behind you when reversing.
13. Always be very careful when you cross or drive on dirt roads, gravel roads or dirt roads. Stay alert for hidden hazards or traffic.
14. Drive on soft ground in the first forward / reverse. do not accelerate quickly, turn or stop sharp.
15. Apply maximum attention to when working on frozen ground, as the machine can here start to slip.
16. Avoid, if possible, driving on gravelly riverbeds, gravel terrains, reinforced concrete, stony fields, tree trunks and the like., Since these operations can lead to major damage or shortened life of the tracks.
17. Do not operate the machine in which there is the risk in a small space that the leader of the machine between the machine and other objects can be squeezed.
18. You use the machine on slopes, the angle is more than 15 °.
19. Always make sure when driving on a slope, whether forward or backward, that the weight is evenly distributed. Always in the leading direction parallel to the slope scroll (up or down). To avoid danger, do not change gears on a slope.
20. When tilting the load from the dump body center of gravity of the load is constantly changing and the soil conditions will be crucial for the stability of the machine. There are particular risks for tracked working on soft surfaces and their load like mud on the car trunk sticks.

3.9 Electrical system

A cardiac pacemaker must not touch the live parts of the ignition system with the engine running.

3.10 Residual hazards and protective measures

Mechanical residual hazards

To squeeze

Sloppy passing the machine can cause serious injury.

→ In uneven terrain or slopes Special care is required. Pay attention to a safe stand.

Neglecting ergonomic principles

Careless use of personal protective equipment (PPE)

Negligent use or omission of personal protective equipment can result in serious injury.

→ Wear prescribed protective equipment.

Human behavior, misconduct

→ Always be fully focused when working.

Residual risk - can never be ruled out.

Electrical residual hazards

Electric contact

When touching the spark plug may cause an electric shock when the engine is running.

→ Do not touch the spark plug or the spark plug with the engine running.

Thermal residual hazards

Burns, frostbite

Touching the exhaust / housing can cause burns.

Let cool → motor unit.

Exposure to noise

hearing loss

Prolonged, unprotected work with the machine can cause hearing damage.

→ wear hearing protection principle.

Exposure to materials and other substances

Contact, inhalation

The exhaust gases from the engine can be harmful to health.

→ Use power tool only outdoors and take regular breaks.

Fire, explosion

Fuel is flammable.

→ While working and fueling the machine is forbidden to smoke and fire.

Hazard due to vibration

Whole Body Vibration

Longer working with the machine can perform vibrations to physical impairments.

→ Insert regular breaks.

other dangers

Slipping, tripping or falling of persons

On unstable ground you can be injured by tripping.

→ Watch out for obstacles in the working area. Always ensure a safe footing and wear safety shoes.

3.11 behavior in case of emergency

In a possible accident, initiate the first aid measures in accordance with the necessary and request as soon as possible qualified medical help.

When calling for help, give the following information:

- *where it happened*
- *what happened*
- *as many injured*
- *Kind of injuries*
- *waiting for inquiries*

4. SYMBOLS

The machine symbols are attached, represent important information about the product and usage instructions.



WATCH OUT!

This is about your safety. The symbol indicates a danger, warning or caution.

read thoroughly before starting up the operating instructions and safety information.

off before cleaning, maintenance and repair engine and remove the spark plug cap.

DANGER

Health and explosion due to engine



In the exhaust gas of the engine poisonous carbon monoxide is contained. Staying in a carbon monoxide-containing environment may lead to unconsciousness and death. not run the engine in an enclosed space.

read thoroughly before starting up the operating instructions and safety information.

Keep the engine from heat, sparks and flames. Do not smoke in the vicinity of the machine!

Gasoline is extremely flammable and explosive. Before refueling, stop the engine and let it cool.

use unleaded fuel ROZ95: resources.

BID SIGNS

read thoroughly before starting up the operating instructions and safety information. Otherwise, the risk of injury to operator and others increased.

When operating the machine, always wear hearing and eye protection. Enter the working environment in accordance with a safety helmet.

Wearing safety gloves.

Wear protective footwear.





TIPPING HAZARD!

If the max. allowed inclination is tipping hazard. in no case exceed max. slope of 10%.



Never tip container on soft ground or at an angle.



WARNING! Danger from flying objects.

Other persons or domestic animals are allowed before and stay beside the moving machine while. keep the engine running at a safe distance of min. 22 meters.



Bystanders keep.



Warning of hot surfaces!

Contact can cause burns. perform maintenance, servicing and cleaning work when the engine is cold.



WARNING! Hands and feet away from rotating parts hold. Only touch machine parts when they are completely stopped. With the engine running, never open or remove safety shields. Hazard due to rotating parts such as chain or belt drive.



Protection and safety devices must not be removed or altered.



Forward / reverse gears with two switch levels for LOW (slow) + HIGHT (fast), N = neutral position



Sound power level LWA



NAMEPLATE

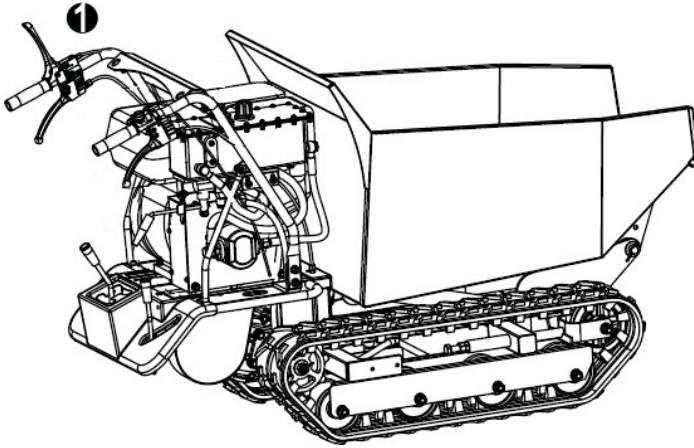
Equipped with model name, year and serial number. For ordering spare parts or service information, this data Always state.



Old Engine devices are recyclable waste and does not belong in the household rubbish! Please dispose of the parts in an environmentally friendly.

5. DELIVERY

The all-terrain MINI-Tracked with dump body (hydraulic tilted forward) and gasoline engine is assembled supplied to steel pallet.



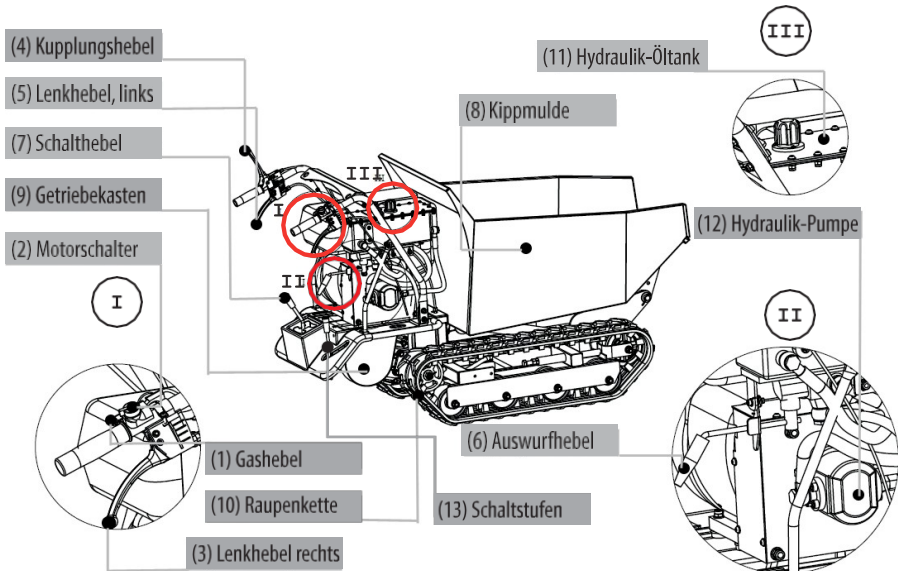
1 Preassembled equipment unit with the guide rail, and gasoline engine dump box

Check in after unpacking the contents of the box and the transport box

- completeness
- any transport damage

Share immediately complaints to the dealer or the manufacturer. Later complaints will not be accepted.

6. FUNCTIONS AND CONTROLS



Motor switch (2)

With the engine switch the ignition system on and off.

Allow the engine to run, the engine switch to ON (ON) has to be connected. When the engine switch to OFF (OFF) is switched, the motor is turned off.

Coupling lever (4)

Disengagement is done by pressing the clutch lever. To engage the lever is released.

Throttle lever (1)

With the throttle lever, the engine speed is controlled. By corresponding actuation of the accelerator the engine is running faster (H) or slow (L).

Left steering lever (5)

This lever is actuated to turn left.

Right steering lever (3)

This lever is actuated to turn right.

Shift lever (7)

With this lever, the forward and backward movements of the machine are controlled.

Switching stages (13)

In addition, the manual two switch levels "LOW" has to slow and "HIGHT" for fast.

Ejection lever (6)

The tilting of the tray takes place via the hydraulic pump and the hydraulic cylinder. With the lever you can lift the dump body and lower. For lifting first unlock the ejection lever. After completion of the tipping and, before driving the trough must be secured again.

7. GETTING STARTED

WATCH OUT!

You may only carry out the work described in this chapter, after you have read "SAFETY" and understood the chapter 3. It affects your personal safety!

Please note that durability and operational safety of the engine depend to a large extent on its breaking. Always run a few minutes to warm up a cold engine and demand a full power immediately, always on good air filters regularly and clean fuel. Think.
not entitled during the first 20 hours of the engine at the maximum power.

NOTE

7.1 Add engine oil

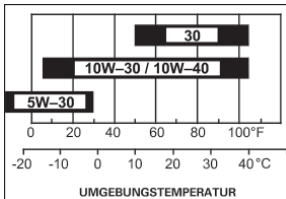
The engine is for reasons of transportation from the factory

NOTE

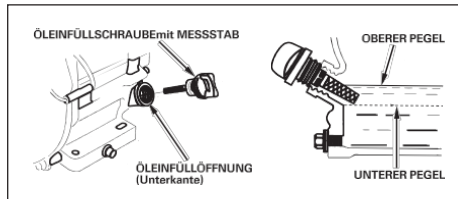
without engine oil!

In front the first time must be filled engine oil! Faulty oil filling can cause irreparable damage to the engine. In this case, retailers and manufacturers to distance themselves from any warranty services.

- stand machine so that the motor is horizontal.
- Commercial use engine oil specification 10W-30 or 10W-40th



Motor Oil / Specification



Engine oil filler plug

Engine oil, charged approximately 1.1 liters. Do not overfill!

NOTE

When oil SAE 30 is used below 10 °C, there is a severe start and possible damage to the engine bore by insufficient lubrication.

Check the engine oil level

1. Engine oil filler plug screw out.
2. Dipstick, wipe with a clean cloth and insert it again, do not screw.
3. Pull out the dipstick and read the oil level, if necessary engine oil up to level mark "UPPER LEVEL" refill. With the engine running, the engine oil filler cap must always sit firmly in the filler neck!
4. / Wipe away oil residue contamination.

7.2 Fill hydraulic oil

The machine is delivered without hydraulic oil.

Before the first start-up is filled into the hydraulic tank HYDRAULIC OIL!



The hydraulic oil has been drained for shipment. Failure to comply may result in damage to the hydraulic system. In this case, retailers and manufacturers to distance themselves from any warranty services.

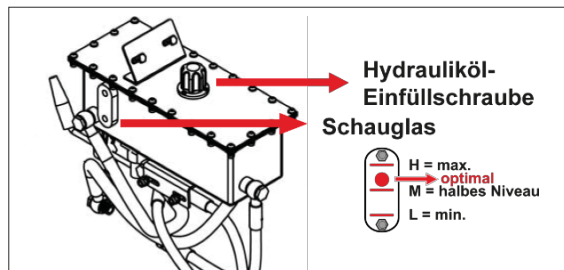
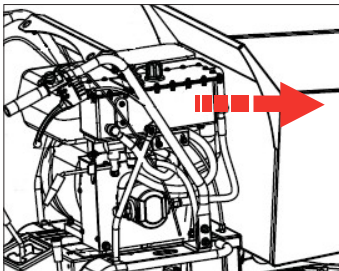
Hydraulic Oil Capacity: max. 2.5 - 3.0 liter. Do not overfill!

Recommended hydraulic oil

standard hydraulic oil such as Shell Tellus 10-46, Esso Nuto H46, DEA HD B46 are suitable for the machine. As an alternative, any other equivalent hydraulic oil viscosity class HLP is 46. This oil is there in agricultural machinery dealer.

The hydraulic system is a closed system and consists of an oil tank, oil pump and control valves. Too low oil level can damage the pump.

1. Commercial use hydraulic oil with viscosity class HLP 46th
2. Remove the hydraulic oil filler cap on the hydraulic tank.
3. Approximately Fill with 3.0 liters of hydraulic oil. An in-close sight glass makes it easier to check the oil level, as shown below. This measure should not be exceeded so that the content has room to expand.



Hydraulic oil tank filler plug and sight glass

4. No later than mid-level hydraulic oil must be added to ensure safe use of the machine.
5. In front each start up, check whether enough hydraulic oil in the tank.
6. The connections and fittings must be regularly checked for leaks, tighten if necessary.
7. Ensure that the machine and the working area around the machine are clean and free of oil stains. Slipping and fire hazard!



Never operate the machine if a threat by hydraulic liquid.

7.3 fill fuel

DANGER

Health and explosion due to combustion engine. When handling fuel caution!



In the exhaust gas of the engine poisonous carbon monoxide is contained. Staying in a carbon monoxide-containing environment may lead to unconsciousness and death. not run the engine in an enclosed space.

In front Read commissioning the instructions for the machinery and the engine manual.

Keep the engine from heat, sparks and flames. Do not smoke in the vicinity of the machine!

Gasoline is extremely flammable and explosive. Before refueling, stop the engine and let it cool.

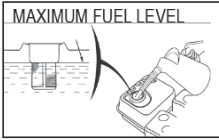
ATTENTION

Engine failure! Risk of engine damage from improper gasoline.



Refuel only petrol RON 95 or higher. refuel in no case the machine with 2-stroke mixture, diesel or non-approved fuel.

Regular unleaded gasoline with a research octane number of 95 or higher is required exclusively for this engine. Use only fresh, clean fuel. Water or impurities in the fuel can damage the fuel system.



Tank capacity: 6.0 liters

Refuel in a well-ventilated area with the engine stopped. If the engine has just been running, allow it to cool first. Never refuel the engine inside a building where gasoline vapors can be achieved by flames or sparks.

⚠ WARNING

Gasoline is extremely flammable and explosive. You may suffer burns or other serious injuries when handling fuel.

Fueling must be observed:

- Switch off engine and let cool for at least 10 minutes before the gas cap.
- Engine from heat, sparks and flames.
- The fuel outdoors or fill in a well ventilated area.
- Gasoline away from sparks, open flames, pilot lights, heat sources and other sources of ignition.
- To make the gasoline space for expansion, do not fill above the lower edge of the fuel nozzle out.
- Do not spill any fuel, use suitable filling aids.
- If fuel spills, wait until it evaporates before starting engine.

refueling machine

1. Clean the area around the fuel cap around of dirt and debris.
2. Remove the fuel cap.
3. Fill the fuel tank with gasoline (ROZ91 or higher). To make the gasoline space for expansion, do not fill above the lower edge of the fuel nozzle out.
4. Unscrew the lid on the tank nozzle firmly on.
5. Spilled gasoline clean up immediately

NOTE

Fill the tank only up to 1 1/2 cm below the lower edge of the neck to allow the contents of space has to expand.

store gasoline

- Fuels are a limited storage life, they age. Superimposed fuels and fuel mixtures can cause starting problems. Store as you consume only as much fuel in one month.
- Store fuel in containers that are specifically approved for this purpose. Keep fuel containers on dry and safe.
- Store fuel container away from children.

8. BUSINESS



WATCH OUT!

Check each mother and each screw on firm fit before using the machine. During operation the machine vibrates strongly. Not tightened screws may become loose and lost and lead to dangerous situations!

DANGER

Do not start the engine in enclosed spaces. Exhaust fumes contain carbon monoxide which acts toxic when inhaled!

ATTENTION

Caution with hot engine parts!

With the engine running and immediately after turning off of the engine danger of burning on the exhaust, and other engine components. Keep children away from the running engine and hot components.






8.1 Starting the engine

A detailed description of engine operation and all connected therewith precautions and procedures can be found in the engine manual that accompanies the machine separately.

Check if sufficient fuel in the fuel tank is present.

Starting a cold engine

When you start the machine, it must be based on a level surface.

1. Shift lever (7) in the neutral position (N) on the gear set. 
2. Fuel valve to open to the right (if any). 
3. Activate choke. Push is cold the choke lever fully to the left. 
4. Throttle lever (1) bring to the handlebar in its central position.
5. Set the motor switch / ignition switch (2) to ON (ON).
6. Starter handle gently pull until resistance is felt. Then pull the rope smoothly and quickly and let slowly walk again. To repeat until the engine starts.
7. Choke lever during warm-up of the engine gradually return to ON (open) slide.
8. Select the desired response and shift speed and slowly pull the clutch lever.

If the gear does not jump in the same, let the clutch lever slowly release and repeat the process. In this way, the machine begins to move.

NOTE

The operator has the option to the corridors affected in two switching stages "LOW" for slow and "HIGHT" for fast. The additional adjustment of the speed the machine can be optimally adapted to different loading conditions, thereby ensuring a higher level of driving stability.

9. Throttle lever (1) put on to increase speed.
10. The machine has steering lever (3 + 5) at the guide rail and can be easily guided in this way. To drive to the right or simply left respectively to the right (3) or left (5) steering arms use.

Starting a warm engine

When the engine from the previous operation is still warm, the use of the choke lever is normally not required. Follow the instructions from above, but let the points 3 and 7, which relate to the choke.

8.2 Neutral

Move the throttle lever in the SLOW "L" (SLOW) to save the engine when no work is done. Downshift of the engine in the idling prolongs the life of the engine, reduces fuel consumption and the noise level of the machine.

8.3 Stopping the motor

To stop the engine in an emergency, release the clutch lever and turn the engine switch / ignition switch (2) to the OFF position (OFF).

Under normal conditions, proceed as follows.

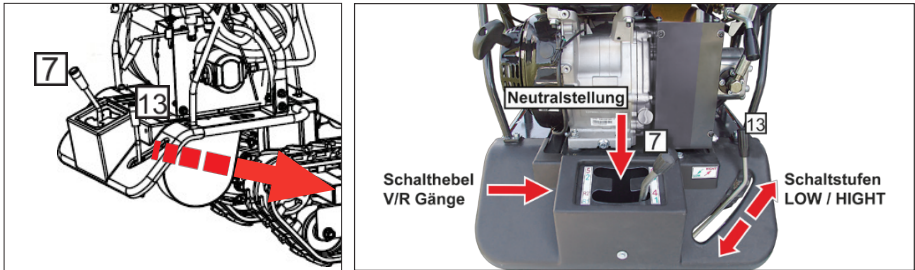
1. bring throttle control to the SLOW position.
2. Run the engine to idle for 1-2 minutes.
3. Motor switch / ignition switch to OFF (OFF).
4. Fuel valve to the OFF (CLOSE) filters (if any).

NOTE

Do not place choke lever to stop the engine to CHOKE. Risk of re-ignition or damage to the engine!

8.4 manual transmission

The machine has a four-speed transmission with two shift stages.



Transmission and switching stages

8.5 Raising and lowering the dump body

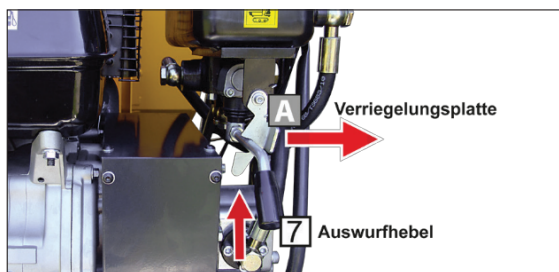
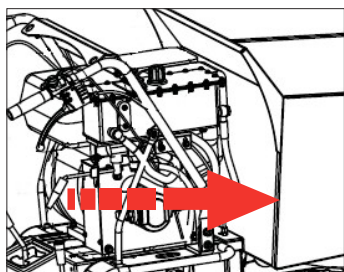
The tilting and lowering of the body via the hydraulic pump and the hydraulic cylinder.



For damage to the hydraulic system, in particular, the hoses, the eighth! Otherwise can draw later during tipping down beating troughs serious damage to people and materials by themselves. In addition, a "clean hydraulic" of course good for the environment.

With the ejection lever (6) You can lift the dump body and lower. For lifting first unlock the ejection lever. After completion of the tipping and, before driving the trough must be secured again.

1. Press lock plate A with the left hand to the right (direction of arrow) to unlock the ejection lever.
2. Pull the eject lever with your right hand up. The hydraulic system starts to work and the dump body is raised by the hydraulic cylinder and the material located there is unloaded.
3. the depression is in the desired position, then release the lever and the lever automatically returns to the starting position and locked again. Otherwise, the well is ramped up to the maximum position.
4. In order to lower the trough to move the eject lever with the right hand down. The hydraulic system starts working again and the dump body is lowered by the hydraulic cylinder.
5. The latch is automatically reinstated upon lowering the trough.



Eject lever for raising and lowering the dump body

8.6 operating instructions

- The steering sensitivity increases proportionally to the speed and load state of the engine: When the machine is unloaded, sufficient a slight pressure on the lever to generate a steering movement. If the machine is loaded, a slightly higher pressure is required.
- The mini dumper has a maximum capacity of 500 kg. However, it is recommended to measure the load according to the floor on which the machine is to be used and adapted.
- It is therefore recommended to drive on difficult tracks in a low gear and with caution. In such situations, the machine should be driven in low gear all the way.
- Avoid sharp bends and frequent changes of direction when you drive, especially on rough, tough terrain, which has many sharp, uneven areas and causes high friction.
- Although the device has rubber tracks, please remember, to be cautious when working in adverse weather conditions (ice, heavy rain and snow), or on soils where the Mini-dumper could be unstable.
- Please note that this is a tracked vehicle is in this machine, which is used in considerable slopes when driving over bumps, holes and steps.
- When the clutch lever is released, stops and automatically brakes the machine.
- If the machine is stopped on a slope, one of the chains with a wedge must be secured.

HIN We IS

The machine is not approved for use on public roads.

9. MAINTENANCE

Regular maintenance prolongs the life of the machine and ensures trouble-free operation.

All personnel involved in the machine cleaning, maintenance and repair work must be technically qualified and trained. You must know all the dangers and risks associated with the device. Further actions that are not described in this operating instructions manual must be carried out only by your LUMAG dealer or authorized service centers.



⚠ WARNING

Before cleaning, maintenance and repair work switch off the engine, wait until the machine and disconnect the spark plug.



Maintenance not perform near an open flame. Risk of fire!

WATCH OUT!

Also observe the maintenance instructions in the engine manual. Let the machine at the end of the season by a specialist workshop and wait.

9.1 preventive measures

- **Switch off the engine and make all function lever to its starting position.** Allow it to cool the engine and exhaust system before touching corresponding parts.
- **Check general condition of the device.** Check the machine for loose screws, misalignment that moving parts do not jam, could affect on cracked or broken parts as well as other functions, the safe operation of the machine.
- **All dirt and other deposits that have accumulated on the caterpillar tracks and on the machine to remove.** Clean the machine after each use. Then lubricate all moving parts with a light, high-quality lubricating oil.

NOTE

Never use a pressure washer to clean the machine. Water can penetrate tight areas of engine and gearbox and damaging shafts, gears, bearings or the engine. The use of pressure washers shortens the lifespan and reduces the operating capability of the machine.

9.2 Adjusting the coupling

With increasing wear of the clutch, the clutch play can change and there is no proper operation impossible. In this case, the clutch cable must be adjusted and the clutch lever are brought to its initial position by pressing the adjusting and adapting the lock nut accordingly.

9.3 Adjusting the control

If the unit is difficult to steer the steering levers must be adjusted by means of special adjusters.

1. Loosen lock nut and screw the adjusters to eliminate the play in the cable that is produced during initial operation or normal wear and tear. **WATCH OUT!** not screw the adjusters too far, as might otherwise arise another problem: traction loss.
2. At the end of the adjustment not forget to tighten the lock nut.

9.4 Change lubrication / gear oil

The gearbox is factory-filled with gear oil 80W-90.

Check the oil level every 50 hours. (Center) to solve the oil inspection plug on the left side of the gear unit gently with a 10 hexagon socket wrench, see figure. Here, the machine in the horizontal position must be located. Should come out no oil upon release of the oil level plug, fill the gear unit with gear oil 80W-90 and turn the control screw again.

Changing the transmission oil

Oil change once a year.

Parts required: about 1.5 liters of gear oil (80W-90)

Tools Required: 10er and 16er Allen wrench

First you have to lift the machine. Without a lift such a change is hardly possible. Then you have to look at where the oil refill and the oil drain plug located.

Drain gear oil

On the left side of the transmission, just below the axle funnel is the oil drain plug, see illustration. This is necessary to unscrew with a 16 hexagon socket wrench and allow the oil to drain out. reintrehen again (the thread must be clean!) and tighten with 25-30 Nm!

Fill gear oil

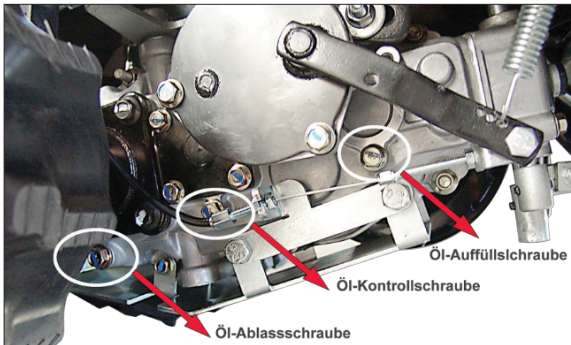
The oil-filling screw is on the right side of the transmission, directly via the brake rod.

You will get rotated with the same hexagonal socket wrench as the oil level plug.

Then you have to fill a hose or a special pump gear oil. There is enough oil in it, when oil out of the opening runs out again.

(Reference value: quantity of oil is approximately 1.5 liters; Gear oil specifications: 80W-90)

Now again the screw drain plug (ensure a clean thread!) And tighten with 25-30 Nm.



Gear unit with oil level plug, -Ablassschraube and -Auffüllschraube

9.5 Tensioning the endless tracks

With increasing service life, the crawlers can be loose. Operating with loose chains can cause these away slip over the drive wheel and cause them to jump out of its housing, or no longer work safely and so can damage the case.

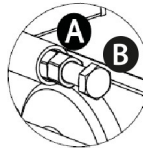
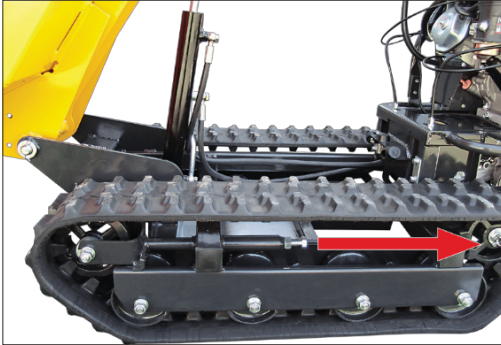
Proceed as follows for checking the tightness of the chains:

1. on a flat surface with a compact surface, preferably asphalt or stone floor, provide machine.
2. Now you can check how much slack the upper part of the track.
3. The center line of the track toward the horizontal measure. The distance should not be greater than 10 to 15 mm.

If the distance is greater, proceed as follows:

1. press the eject lever to tilt the dump body and to be placed on blocks or supports, which can support the weight of the trough.
2. Loosen the lock nut A.

3. Tighten the bolt B until the proper voltage is restored.
4. counter screw B by careful tightening of lock nut A.
5. Kippmulde again return to the starting position and secure.



⚠ WARNING

Setting the crawlers affect the brakes. Please proceed with great caution, because a spanned chain to loss of braking efficiency leads.

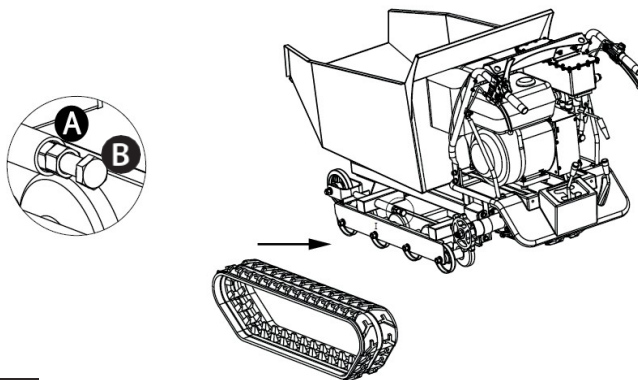
NOTE

If the adjustment does not allow further adjustment more that crawlers should be replaced.

9.6 Exchange of crawlers

Check the condition of the tracks regularly. If a chain is broken or become fibrous, they should be replaced soon as possible.

1. A Loosen the lock nut and bolt B, to loosen the crawlers sufficient.
2. Pull off old caterpillar tracks and assemble the new chains.
3. Set screw B to produce the correct voltage.
4. securing screw B by carefully tightening the lock nut A.



⚠ WARNING

Danger of bruising!

be careful when removing or installing the chains that you do not pinch your fingers between the chain and wheel.

9.7 Maintenance of the engine

For information on maintenance of the engine in the engine manual that comes with your device. This engine manual provides detailed information and a maintenance plan for carrying out the work.

9.8 Change the hydraulic oil

First hydraulic oil change after 50 operating hours and then every 350 hours of operation.



Used hydraulic oil must be disposed environmentally friendly. Bring waste oil into a public collection or stick to the appropriate local regulations where the machine is used. Do not dispose of the oil into drains, soil or bodies of water of all kinds.

Recommended hydraulic oil

standard hydraulic oil such as Shell Tellus 10-46, Esso Nuto H46, DEA HD B46 are suitable for the machine. As an alternative, any other equivalent hydraulic oil viscosity class HLP is 46. This oil is there in agricultural machinery dealer.

10. STORAGE

DANGER

Do not store the machine with fuel in an unventilated room, can come into contact in the fuel vapors with flames, sparks, pilot lights or other ignition sources.

Storing the machine for a Monday or longer.

remove dust, dirt and debris thoroughly from the motor and machine.

Clean engine with a cloth. A spraying with a strong water jet (eg high pressure washer) should be avoided because it could water gets into the ignition and fuel system causing malfunctions.

All movable parts with an environmentally friendly oil deal (do not use grease!) and the machine take short operating (run 1-2 minutes can).

empty the fuel. In this run the engine until the fuel is consumed. Clean air filter and replace when heavily soiled or damaged.

Check the operation of all moving parts. Replace damaged or worn parts. Make sure that all screws are tightened.

Disconnect the spark plug.

cover machine and engine to keep out dust and inaccessible in a dry clean place for children and untrained persons storing.

Machine against rolling and unauthorized use additional secure (chock). The machine must not be stored outdoors.

NOTE

Do not use abrasive cleaners or detergents from crude oil to clean plastic parts. Such chemicals can damage plastic parts.

11. TRANSPORT

Before transporting or before a change of location or storing indoors spaces:

- Switch off the motor of the machine and let it cool to avoid burns or fire.
- Disconnect the spark plug.
- Close the fuel tap (if available).
- Fuel tank empty to prevent a fuel spill.

Furthermore, to ensure that people at risk from tilting or slipping of the machine as well as portrait or slapdown of machine parts not.

WARNING

The machine is heavy and can not be raised alone. Obtain assistance or use the right equipment to lift the machine.

NOTE

transport the machine in an upright position!

- The dump body must be secured against tipping before transport.
- Carrying machine in an upright position to prevent fuel or oil leakage.
- When transporting over long distances, the fuel tank is completely emptied.
- Only suitable and tested tool for loading and securing loads on the machine, or use in vehicles.
- secure the machine to the transport vehicle not slip or overturning and also lashing at suitable points with tensioning belts, chains or ropes.
- Always make sure that the applicable traffic laws are complied with during transport.


NOTE

Before lifting that the lifting device is capable of the weight of the machine (see to wear "Technical data") without risk. Loading ramps must be sound and stable.

NOTE

The machine is not permitted on public roads to traffic.

12. TROUBLE

disorder	root cause	remedy
The engine doesn't start	Spark plug withdrawn	Spark plug securely fastened to the spark plug
	Lack of fuel or old fuel	fill with clean, fresh gasoline
	Choke is not enabled	Push the choke lever to choke position 
	Fuel line blocked	Clean fuel line
	Spark plug dirty.	, Adjust or replace spark plug distance cleaning
	Engine flooded.	Wait a few minutes, start again, but without fuel intake (primer)
Engine runs irregularly	Spark plug loose	Plug in the connector and tighten.
	Engine running on CHOKE	Choke lever to ON Reset (OPEN)
	blocking the fuel line or old fuel.	Clean fuel line. Fill the tank with clean, fresh gasoline
	exhaust clogged	Clean exhaust port
	Water or dirt in the fuel system	Drain fuel tank and fill it with fresh fuel
	Dirty air filter	Clean or replace air filter
	Carburetor not adjusted properly	See engine manual
engine overheats	Engine oil level too low	Fill the crankcase with the correct oil
	Dirty air filter	Clean the air filter
	Insufficient air flow	remove housing and clean
	Carburetor not adjusted properly	See engine manual
One of the two crawler tracks are being blocked.	A foreign substance enters between the chain and frame	remove foreign bodies
Machine does not move, even though the engine is running	Transition was not loaded properly	Make sure that the shift lever is not between two gears
	Crawlers not stretched tight enough	Tension crawlers

If these measures do not eliminate the error or errors occur that are not listed here, then let your machine by a professional check.

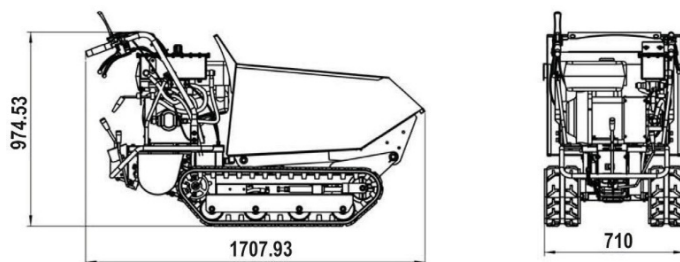
13. TECHNICAL SPECIFICATIONS

model	MD 500HPRO
drive motor	1 cylinder 4-cycle OHV engine LONCIN G270F
engine power	6.0 kW (at 3,600 rev / min)
capacity	270 cc
transmission	6 forward / 2 reverse
starting device	recoil
drive	gear transmission
steering	steering brake
Tilting	L / B x 950/700 x T / 450 mm
ground clearance	110 mm
tilting	Hydraulically tilted forward
hydraulic pump	12 l / min (at 3000 U / min)
working pressure	200 bar
own weight	272 kg
Payload max.	500 kg

Emissions idle

Sound pressure level LpA	92 dB (A)
Sound power level LwA	101 dB (A)
Hand-arm vibration	not more than 2.5 m / s ²
Whole Body Vibration	not more than 0.8 m / s
Engine oil	SAE 10W-30 or 10W-40 / 1.1 l
hydraulic oil	HLP 46 / 3.0 l
transmission oil	80W-90 / 1.5 l
fuel	Gasoline unleaded ROZ95 / 6,0 l

Dimensions in mm



The values given are emission values and must therefore not necessarily represent reliable workplace values. Although there is a correlation between emission and immission levels, it can be reliably deduced whether additional precautionary measures are necessary or not. Factors affecting the current level at the workplace immission level include the nature of the work space, other sources of noise, eg the number of machines and other neighboring operations. The permissible workplace values may vary from country well of the country. However, this information should enable the user to make a better assessment of the dangers and risks.

14. ENVIRONMENT



Old Engine devices are recyclable waste and does not belong in the household rubbish! Please make waste and not disposed of as waste recycling. All tools, hoses and packaging should be sorted, and to bring to the recycling center on site to ensure proper disposal.

The site must be protected from contamination with expiring supplies.



Check with your local waste disposal authority for options for environmentally friendly disposal.

15. WARRANTY / WARRANTY / SERVICE

WARRANTY

On the device, the statutory warranty period is given. Any defects that are detectable in material or assembly faults must be immediately reported to the seller. The proof of purchase of the equipment must be provided for warranty claims by submission of invoice and receipt.

The guarantee will not apply in respect of the parts when defects caused by natural wear, temperature, weather influences, as well as damages due to negligent installation, poor connection, improper fuel / Treibstoffmischung, installation, operation, maintenance, lubrication or violence arose.

Further, such as improper changes or autonomous repair work of the owner or a third party, but also in case of intentional overloading the machinery assume no liability for damage caused by improper misuse of the machine.

Wear parts with limited duration of life (eg, V-belt, clutch, throttle cable, spark plug, air filter, battery, blades, hoses, wheels, tools and other tools), and all setting and adjustment are excluded from the warranty.

WARRANTY

LUMAG guarantees impeccable quality and will, without prejudice to statutory liability, in the case of material or manufacturing defects warranty. Which guarantee LUMAG products is 24 months for industrial or professional use or use or for rental for private use only; 12 months from delivery date.

Warranty claims are always verified by the buyer by original sales receipt. This is attached to the warranty claim in copy. Buyers address and type of machine must be clearly identifiable at professional or commercial use. Without the original purchase receipt, we can perform the repair only against payment.

Please do not send equipment back to us without a SERVICE NUMBER that you have received from our service department. we obtain equipment without being asked, we can not accept and deal with this. To request a SERVICE NUMBER please contact our service team at: info@lumag-maschinen.de

Please label the shipping box are clearly labeled SERVICE NUMBER to ensure fast classification.

Warranty work be carried out by our LUMAG service workshop. Possible defects within the warranty period due to material or manufacturing errors, if they occur despite proper use and care of the unit to eliminate by a rectification. Here, we reserve the right to a two-time improvement, with same mistake before. Proposes an amendment fails or this is impossible, the unit can be exchanged for an equivalent device. Is the exchange unsuccessful or impossible, there is the possibility of conversion.

Normal wear and tear, natural aging, improper use as well as cleaning, maintenance and adjustments generally are not subject to the warranty (eg cutter, air and fuel filters, spark plug and reversing, drive belts and the like.). Operation and utilization Due subject to some devices, even when used as intended, normal wear and may have to be replaced in time.

CUSTOMER SERVICE

For technical questions, information about our products and spare parts orders, please contact our service team is available as follows:

Service time: Monday to Thursday from 7:30 - 12 am and 13 to 17 Pm,
Friday 7:30 to 12:30
Phone: 0049 / (0) 8571/92 556-0
Fax: 0049 / (0) 8571/92 556-19
E-mail: info@lumag-maschinen.de

16. EC DECLARATION OF CONFORMITY

Under the provisions of the EC directives

- Machinery Directive 2006/42 / EC
- Electromagnetic Compatibility 2014/30 / EU
- Outdoor Directive 2000/14 / EC

explains the company:

LUMAG GmbH
Robert-Bosch-Ring 3
D-84375 Kirchdorf /
Inn
Phone: +49 / (0) 8571/92 556-0
Fax: +49 / (0) 8571/92 556-19

that the product

Description: MINI-Tracked Type: MD-
500HPRO

corresponds to the basic requirements of the above EU guidelines. The conformity is based on standards listed below:

EN ISO 12100: 2010

Safety of machinery - General principles for design - Risk assessment and risk reduction

EN 55012: 2007 + A1

Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers

EN 6100-6-1: 2007

Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, business and commercial areas and small businesses

EN ISO 3744: 2010

Acoustics - Determination of sound and sound energy levels of noise sources from sound pressure - Engineering method 2 for a substantially free field over a reflecting plane

Authorized representative for the compilation of technical documents: Gabriele Denk

The declaration applies exclusively to the machinery in the state in which it was placed on the market; subsequently attached by the end user parts and / or subsequently tampering disregarded.

Kirchdorf, 06/06/2017

Christopher White Horner, Managing Director

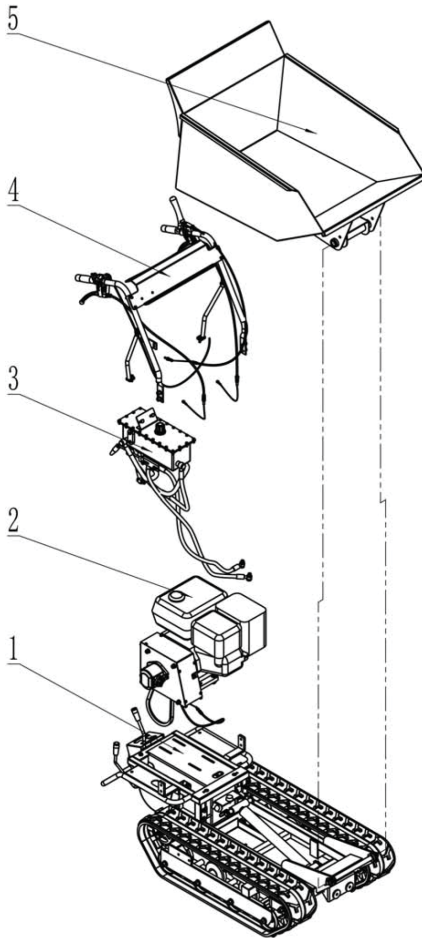
Place and date

Distributor, agent

signature



17. COMPONENTS OF THE MACHINE



- 1 machine frame
- 2 gasoline engine
- 3 Hydraulic oil tank
- 4 Handlebar
- 5 kippmulde

LUMAG GmbH

Robert-Bosch-Ring 3

D-84375 Kirchdorf

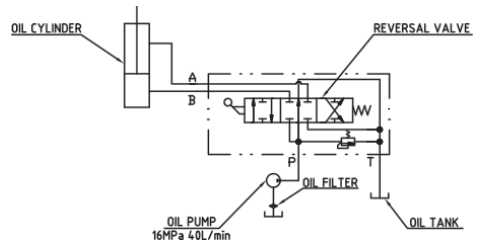
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Status: 06/2017 -

SCHEME





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