MD-500HPRO/HT

DANGER!
The engine, transmission and hydraulic oil was drained for shipping. **Before first use**
Engine, transmission and hydraulic oil must be topped up!
(Chapters 7 & 9)

ATTENTION! Danger of tipping over!
During the tipping process, the footboard not to be abandoned!
Before leaving the running board, place the trough back in Bring to the starting position.
running board***only***Use with loaded trough!

CE

Art.No.**MD500H**PROHT

03/2021

D

original operating instructionsinstructions

mini crawler dumper MD-500HPRO/HT**with high-tip function**

Model: MD-500HPRO/HT **Serial number:** _____

Both the model number and the serial number can be found on the rating plate on the machine. You should keep both numbers in a safe place for future reference. This manual explains the basic functions and uses of the machine.

Read the operating instructions before using the device. Please note the safety and warning instructions!

www.lumag-maschinen.de

1. GENERAL

1.1 Information on operating instructions

This manual provides important information on how to use the**MINI-CRAWLER DUMPER MD-500H**PRO/HT. The prerequisite for safe working is the correct observance of all specified safety instructions and handling instructions. In addition, the local accident prevention regulations and general safety regulations applicable to the area of application of the machine must be observed.
For your own safety and to protect third parties, please read the operating instructions carefully before using the machine for the first time, otherwise there is a risk of injury! As part of the product, this operating manual must be kept in a known location that is accessible to all users at all times and must be passed on if the machine is passed on to third parties.

name of the machine
The designation of the machine replaces the commercial name of the item to which this operating manual - see cover sheet - refers.

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

Subject to printing and wording errors.

1.2 Limitation of Liability

We have endeavoured to provide you with as much information as possible about accident prevention when operating the machine, but we accept no liability for incomplete information on the danger points and sources listed.

The manufacturer assumes no liability for damages resulting from:

– Failure to follow the operating instructions
– Improper use of the machine
– Improper assembly, commissioning, operation and maintenance of the machine
– Operating the machine with defective, improperly installed or non-functional safety and protective devices
– Failure to observe the instructions in the operating manual regarding transport, storage, function, operation, maintenance and care of the machine
– Unauthorized structural changes to the machine
– Inadequate monitoring of machine parts subject to wear
– Improperly performed repairs
– Disasters caused by foreign bodies and force majeure

1.3 Copyright

2. INTENDED USE

The MINI TRACKED DUMPER is a motorized wheelbarrow, hand-held and has a four-speed gearbox with two gears. 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 transport tasks in gardening, landscaping and agriculture, taking into account the specifications and safety instructions listed in this manual.

Only loads with a total weight of up to 500 kg may be moved. The permitted inclination of 20° in the direction of travel and 10° across the direction of travel must not be exceeded.

The MINI-DUMPER is equipped with crawler tracks and a tipping trough as standard. Unlocking, lifting and tipping are done hydraulically.

The MINI TRACKED DUMPER is not approved for transporting people or animals. It is also forbidden to use this machine to pull other machines, vehicles and/or equipment. This also applies in special or emergency cases.

Any other use or use beyond this is not considered to be in accordance with the intended use. The manufacturer is not liable for any damage resulting from this. The user alone bears the risk.

Observing the operating and maintenance instructions and carrying out maintenance work as well as adhering to the maintenance intervals are part of the intended use.

Persons who are not familiar with the operating instructions, children, young people and persons under the influence of alcohol, drugs or medication are not permitted to operate the machine.

Possible misuse

Safety devices must not be dismantled or bypassed. Use of non-approved accessories.
The machine must not be used for commercial purposes.

Attention - risk of injury!
Safety and protective devices must not be deactivated!

3. SAFETY

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

Failure to follow the instructions and safety information contained in this manual may result in significant hazards.

3.1 Warnings

Warning notices are marked with symbols in this operating manual. The safety notices highlighted with a warning triangle refer to your personal safety, while notices without a warning triangle refer solely to material damage.

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

⚠ DANGER

Failure to follow these instructions may result in serious danger to life or death.

⚠ WARNUNG

Failure to follow these instructions may result in death or serious injury.

⚠ CAUTION

Failure to follow these instructions may result in minor to moderate injury.

A NOTICE

Failure to follow these instructions may result in damage to the engine or other property.

In addition, the operating instructions contain other important text passages marked with the word **DANGER**are marked.

3.2 General safety instructions

⚠ WARNUNG

Familiarize yourself with the machine. Proper training is a prerequisite for working safely with this device. Incorrect operation or operation by untrained personnel can be dangerous.

Read the operating instructions for this machine carefully and observe the labels on the machine. Familiarize yourself with the application and limitations as well as the specific potential hazards associated with it.

Also, familiarize yourself with the controls and how to use them properly. Learn how to stop the machine and turn it off quickly. Inexperienced operators must be instructed by personnel who are familiar with the machine. Only then may they operate the machine.

Next to the occupational safety instructions in this operating instructions must the the safety, accident prevention and environmental protection regulations as well as the road traffic regulations applicable to the area of application of the machine are observed.

responsibility of the operator

The operator must make the operating instructions available to the operator and ensure that the operator has read and understood them. The operating instructions must be handed over. In addition, the operator must train the staff at regular intervals and inform them about the dangers of using the machine. The operator is also responsible for ensuring that the machine is always in perfect technical condition.

operator's responsibility

Only trained persons may start, operate and switch off the machine. The operator must be trained in the correct operation of the machine and be familiar with the necessary safety devices. Insufficiently informed operators can endanger themselves and others through improper use.

First-time users should seek instruction from the seller to familiarize themselves with the characteristics of the motor-driven machine, its intended use and the necessary safety devices.

⚠ WARNUNG

Persons who are not familiar with the operating instructions, children, young people under the age of 18 and people under the influence of alcohol, drugs or medication are not permitted to operate the machine. Young people aged 16 and over may use the machine as part of a training course and under the supervision of a trained person.

3.3 Working and danger area

⚠ DANGER

Internal combustion engines pose a particular danger during operation and when refueling. Always read and observe the warnings and the additional safety instructions listed further down in this manual. Failure to observe these instructions could result in serious or even fatal injuries.

⚠ WARNUNG

Risk of injury from moving machine parts or moving motor devices. The operator is liable for all damage to third parties and their property. Before commissioning and starting the machine, the immediate area must be checked!

1. Do not start the engine in a closed room or garage. The engine's exhaust fumes contain poisonous carbon monoxide. Being in an atmosphere containing carbon monoxide can lead to unconsciousness and death. Do not run the engine without adequate ventilation and under no circumstances run it indoors.
2. Only operate the machine in good visibility and lighting conditions.
3. Adjust the working speed to the current conditions.
4. When reversing, use extreme caution to avoid slipping or falling.

3.4 Personal safety

In order to minimize the risk to the operator, it is advisable to wear appropriate protective clothing when handling the machine.personal protective equipment (PPE) absolutely necessary.

Please observe the following protective measures:

1. Dress properly. Wear long pants, non-slip shoes or boots and gloves. Do not wear loose clothing, shorts or any type of jewelry. Protect long hair by tying it back at shoulder height. Keep your hair, clothing and gloves away from moving parts. Loose clothing, jewelry or long hair can get caught in moving parts.

2. Always wear personal protective equipment (PPE).
   - Tight-fitting**work clothes**that does not hinder movement. It is primarily used to protect against being caught by moving parts.
   - **soundproofing agents**such as hearing protection, earmuffs, etc. to protect against hearing damage.

ATTENTION! Noise can be harmful to health. If the permissible noise level of 80 dB(A) is exceeded, hearing protection must be worn.

   - **face mask**to protect against respiratory diseases, to retain fine dust or particles.
   - **safety glasses with side protection**to protect the eyes from dust or splinters.
   - **work gloves**made of sturdy leather to protect against sharp edges, splinters or excessive vibration.

- **Safety shoes or boots with steel caps**to protect against uneven, sharp-edged surfaces or falling objects. The safety footwear also ensures a secure footing.

- **protective helmet**to protect the head from falling objects and swinging loads. It can also protect against injuries in confined situations.

3. Inspect your machine before starting it. Make sure that all safety devices are correctly fitted and working. Make sure that all nuts, bolts, etc. are tightened properly.

4. Never use the machine if it is in need of repair or is in poor condition. Replace damaged, missing or repairable parts before
you operate the machine. Check for fuel leaks and keep the machine in a safe condition.

5. Never remove or modify the protective devices. Therefore, check regularly that they are working properly.
6. Do not operate the machine if the engine switch does not turn it on or off. Any petrol-powered equipment that cannot be controlled by the engine switch is dangerous and must be replaced. Defective switches must be replaced at a service workshop.

7. Make it a habit to remove all adjusting tools and wrenches from the machine area before operating the machine. Tools or wrenches left near a moving part of the machine can cause injury.

8. Be alert. Pay attention to what you are doing and use common sense when operating the machine.
9. Do not overestimate yourself. Do not operate the machine barefoot, in sandals or similar light footwear. Wear safety shoes that protect your feet and give you grip on slippery surfaces. Make sure you have a firm footing and keep
Always keep your balance. This allows for better control of the machine in unexpected situations.
10. Avoid accidental starting. Make sure the engine is switched off before transporting the machine or carrying out maintenance or servicing. Transporting or servicing a running machine can lead to accidents.

3.5 Safe handling of fuel

⚠ DANGER

Internal combustion engines pose a particular danger during operation and when refueling. Always read and observe the warnings and the additional safety instructions listed further down in this manual. Failure to observe these instructions could result in serious or even fatal injuries.

1. When filling or emptying the fuel tank, use an approved fuel container. Do this in a clean outdoor area. Do not smoke and keep the area free from sparks, open flames or other sources of ignition while operating the machine.**Never fill fuel tanks in enclosed spaces!**

2. Keep grounded, conductive objects, such as tools, away from open

live parts and connections to avoid sparking or arcing. These events could ignite smoke or fumes.

3. Always stop the engine and allow it to cool before filling the fuel tank. Never remove the fuel cap or add fuel when the engine is hot or running. Never operate the machine with known leaks in the fuel system.

4. Slowly loosen the fuel cap to release any pressure in the tank.
5. Never overfill the fuel tank. Do not fill the tank more than 1 1/2 cm below the bottom of the filler neck to allow enough room for expansion as the heat of the engine can cause the fuel to expand.
6. Replace all fuel tank and container caps securely and wipe up any spilled fuel. Never operate the unit without the fuel tank cap securely in place.

7. Avoid creating sources of ignition in the event of fuel spillage. If fuel is spilled, do not attempt to start the engine. Remove the machine from the area and avoid any sources of ignition until the fuel vapors have dissipated.

8. Store fuel in containers specially designed and approved for this purpose. Store fuel in a cool, well-ventilated area, away from sparks, open flames or other sources of ignition.

9. Never store fuel or a fueled appliance in an enclosed space where fuel vapors can come into contact with sparks, open flames or other sources of ignition (such as kettles, ovens, clothes dryers, etc.). Allow the engine to cool before storing it in an enclosed space.

3.6 Use and maintenance of the machine

1. Position the machine so that it cannot move during maintenance, cleaning, adjustment, installation of accessories or spare parts, or during storage.

2. Do not overload the machine. Only use a device suitable for the work you are doing. With a suitable machine you will work better and more safely within the specified performance range.
3. The engine must not be operated at excessive speed. Do not change the basic setting of the engine. The speed controller regulates the maximum permissible operating speed of the engine.
4. Do not run the engine at high speed when not working.
5. Keep hands or feet away from rotating parts.
6. Avoid contact with hot fuel, oil, exhaust fumes and hot surfaces. Do not touch the engine or muffler! These parts become extremely hot during operation. They remain hot for a short time even after the engine has been turned off. Allow the engine to cool before attempting any maintenance or adjustment.
7. If the machine starts to make an unusual noise or vibration, stop the engine immediately, pull the spark plug connector and look for
   Find the cause. Unusual noises or vibrations are usually warning signs of problems.

8. Use only parts approved by the manufacturer. This machine complies with the relevant safety regulations. Repairs may only be carried out by an approved

Service Center or our service team using original spare parts; otherwise, accidents may occur to the user.

9. Maintain the machine. Make sure that all moving and fixed parts are in the correct position, that there are no broken parts or other defects that may affect the smooth operation of the machine. If any malfunction occurs, have the machine repaired before operating it. Many accidents are caused by poor maintenance.

10. Keep the engine and exhaust free of grass, leaves, excessive grease or carbon deposits to reduce the risk of fire hazard.
11. Never pour water or other liquids onto the device. Keep the handles dry, clean and free from dirt. Clean the machine after each use.

12. Follow proper disposal laws and regulations for gas, oil, etc. to protect the environment.

13. Store the machine properly when not in use. Choose a safe location so that the machine cannot be started by unauthorized persons. Do not store the device outdoors or in a damp environment. Secure the machine against rolling away.

3.7 Maintenance

⚠ WARNUNG

Improper maintenance or failure to observe or remedy a defect, technical fault or problem can become a source of danger during operation. Only operate machines that have been regularly and correctly maintained. This is the only way you can be sure that you will operate your device safely, economically and without problems. And for a long time to come.

1. Before cleaning, repairing or inspecting the machine, make sure that the engine is stopped and all moving parts are stopped.
2. Before carrying out any work on the machine, disconnect the spark plug connector to prevent the engine from being started accidentally.
3. Have your machine repaired only by qualified personnel and only with original spare parts. This will ensure the safety of the machine.

3.8 Special safety instructions

⚠ WARNUNG

Instructions on hazards, warnings and precautions must be strictly observed to minimize the risk of personal injury, property damage and improper servicing.

1. Check the work area carefully and keep it clean and free of dirt to avoid tripping hazards. Work on level ground.
2. Never stay in areas where your body could be in danger of moving

during assembly, installation and commissioning, maintenance, repair or laying.

3. Ensure that spectators, children and animals stay at least 22 metres away. If they approach, switch off the machine immediately.
4. Do not climb onto the tipping trough or transport any persons.
5. Never park the machine, especially when loaded, on unstable ground that could give way.

6. Always release the clutch before starting the engine.
7. Start the engine carefully according to the instructions and keep a sufficient safety distance from moving machine parts.
8. Never leave the operating position while the engine is running.
9. Always operate the machine with both hands. Hold the handlebar firmly. Be aware that the machine may unexpectedly jump up or forward if it encounters buried obstacles such as large stones.
10. Operate the machine at walking pace! Never run with the machine.
11. Do not overload the machine. Drive at a safe speed and adjust it to the terrain gradient, road conditions and load to be transported.
12. Make sure there are no obstacles behind you when reversing.
13. Always use extreme caution when crossing or driving on dirt roads, gravel paths or country lanes. Stay alert for hidden dangers or traffic.
14. On soft ground, drive in first forward/reverse gear. Do not accelerate quickly, make sharp turns or stop.
15. Be extremely careful when working on frozen ground as the machine may slip.

16. If possible, avoid driving on gravelly riverbeds, gravel terrain, reinforced concrete, stony fields, tree trunks, etc., as these operations may cause serious damage or shorten the life of the crawler tracks.
17. Do not operate the machine in a confined space where there is a risk that the operator could be crushed between the machine and other objects.

18. Do not use the machine on slopes with an angle greater than 15°.
19. Whenever travelling up a slope, whether forward or backward, make sure that your weight is evenly distributed. Always move in the direction parallel to the slope (up or down). To avoid danger, do not change gears on a slope.

20. When tipping the load from the tipping trough, the centre of gravity of the load is constantly changing and the ground conditions will be crucial for the stability of the machine. There are particular risks for tracked dumpers working on soft ground and whose load, such as clay, sticks to the vehicle body.

3.9 electrical system

People wearing a pacemaker must not touch the live parts of the ignition system when the engine is running.

3.10 Residual risks and protective measures

Mechanical residual hazards

Squeeze
Careless operation of the machine can result in serious injuries.
→ Be particularly careful on uneven terrain or slopes. Make sure you have a secure footing.

neglect of ergonomic principles

Negligent use of personal protective equipment (PPE)
Careless use or omission of personal protective equipment can result in serious injury.

→ Wear prescribed protective equipment.

Human behavior, misconduct
→ Always be fully concentrated on all work.
residual risk - Can never be ruled out.

Electrical Residual Hazards

Electrical contact
Touching the spark plug connector while the engine is running may result in an electric shock.

→ Never touch the spark plug connector or spark plug while the engine is running.

Thermal residual hazards

burns, chilblains
Touching the exhaust/housing may cause burns.
→ Allow the motor device to cool down.

danger from noise

hearing loss
Prolonged, unprotected work with the machine can lead to hearing damage.
→ Always wear hearing protection.

Hazards from materials and other substances
contact, inhalation
The exhaust fumes from the machine can cause health damage.
→ Only use the power tool outdoors and take regular breaks. **fire,**
explosion
Fuel is flammable.
→ Smoking and open flames are prohibited while working and refueling the machine.

Danger from vibration

whole-body vibration
Prolonged work with the machine can lead to physical impairments due to vibrations.

→ Take regular breaks.

Other hazards

Slipping, tripping or falling of persons
On unstable surfaces, you may be injured by tripping.
→ Be aware of obstacles in the work area. Always ensure you have a secure footing and wear safety shoes.

3.11 Behavior in an Emergency

If an accident occurs, initiate the necessary first aid measures and request qualified medical assistance as quickly as possible.

When requesting assistance, please provide the following information:

- *where it happened*
- *what happened*
- *how many injured*
- *what type of injury*
- *waiting for questions*

4. SYMBOLS

Symbols are provided on the machine to provide important information about the product and instructions for use.

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

Before commissioning, read and observe the operating instructions and safety information carefully.

Before cleaning, maintenance or repair work, switch off the engine and disconnect the spark plug connector.

⚠ DANGER

Health and explosion hazards from combustion engines

The engine's exhaust gases contain poisonous carbon monoxide. Being in an environment containing carbon monoxide can lead to unconsciousness and death. Do not run the engine in an enclosed space.

Before commissioning, read and observe the operating instructions and safety information carefully.

Keep the engine away from heat, sparks and flames. Do not smoke near the machine!

Petrol is extremely flammable and explosive. Before refueling, turn off the engine and let it cool down.

Operating materials: Use unleaded fuel RON95.

MANDATORY SIGNS
Before commissioning, read and follow the operating instructions and safety instructions carefully. Otherwise, the risk of injury to the operator and other persons increases.

Always wear hearing and eye protection when operating the machine.
Wear a safety helmet appropriate to the work environment.

Wear protective gloves.

Wear safety shoes.

RISK OF TOLLING!
If the maximum permitted incline is exceeded, there is a risk of tipping over. Under no circumstances should the maximum slope of 10% be exceeded.

Never tip the container on soft ground or at an angle.

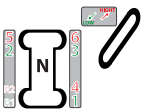
WARNING! Danger of flying objects.
Bystanders, pets and livestock must never stand in front of or next to the moving machine. When the engine is running, maintain a sufficient safety distance of at least 22 meters.

Keep bystanders away.

Warning of hot surface!
Contact can cause burns. Only carry out maintenance, servicing and cleaning work when the engine has cooled down.

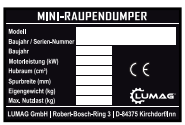
WARNING! Keep hands and feet away from rotating parts. Only touch machine parts when they have come to a complete standstill. Never open or remove protective devices when the engine is running. Danger from rotating parts such as chains or drive belts.

Protection and safety devices must not be removed or modified.



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

sound power level LWA

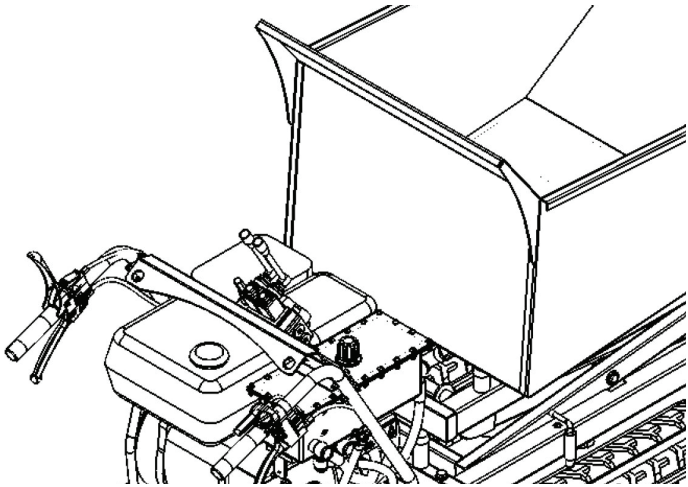


NAMEPLATE
Equipped with model name, year of manufacture and serial number. Please always state this information when ordering spare parts or for service information.

Old motor devices are recyclable materials and therefore do not belong in household waste! Please dispose of the components in an environmentally friendly manner.

5. SCOPE OF DELIVERY

The all-terrain MINI-TRACKED DUMPER with tipping trough (with high-tip function) and petrol engine is delivered fully assembled on a steel pallet.

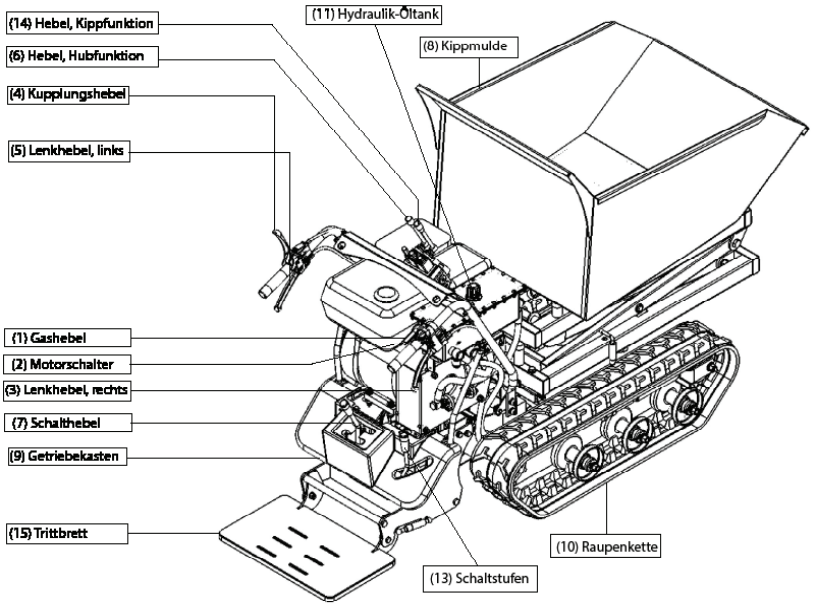


1 Pre-assembled device unit with guide bar, tipping trough and petrol engine

After unpacking, check the contents of the box or transport box for
— Completeness
— possible transport damage

Report any complaints to the dealer or manufacturer immediately. Complaints made later will not be accepted.

6. FUNCTIONS AND CONTROLS



engine switch (2)

The engine switch turns the ignition system on and off.
The engine switch must be in the ON position for the engine to run. Turning the engine switch to the OFF position will turn the engine off.

clutch lever (4)

The clutch is engaged by pressing the clutch lever. To disengage the clutch, release the lever.

throttle (1)

The throttle lever controls the engine speed. By operating the throttle lever accordingly, the engine runs faster (H) or slower (L).

Left steering lever (5)

This lever is operated to move to the left.

Right steering lever (3)

This lever is operated to move to the right.

gear lever (7)

This lever controls the forward and backward movements of the machine.

gears (13)

In addition, the manual transmission has two gears: “LOW” for slow and “HIGH” for fast.

lever, tilt function (14)

The tipping of the trough is done via the hydraulic pump and the hydraulic cylinder. You can raise and lower the tipping trough using the lever. After the tipping process is complete and before driving on, the trough must be lowered again.

hydraulic oil tank (12)

This tank is for the hydraulic oil. This is needed for tipping and lifting the trough.

lever, lifting function (6)

The tipping trough is lifted using the hydraulic pump and the hydraulic cylinder. You can raise and lower the tipping trough using the lever. After the tipping process has been completed and before

To continue driving, the trough must be lowered again.

running board (15)

The footboard can be folded in and out.

7. COMMISSIONING

DANGER!
You may only carry out the work described in this chapter after you have read and understood Chapter 3.**"SECURITY"**read and understood. It concerns your personal safety!

Please note that the service life and operational reliability of the engine are largely dependent on the running-in period. Always let a cold engine warm up for a few minutes and do not demand full power immediately. Always remember to take good care of the air filter and use clean fuel.

A NOTICE

During the first 20 hours of operation, do not push the engine to the limit of its performance.

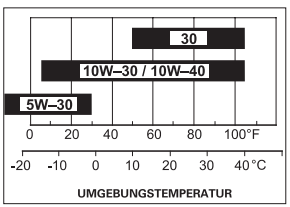
7.1 Filling engine oil

For transport reasons, the engine is shipped from the factory without engine oil!

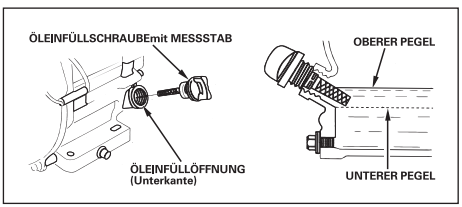
A NOTICE

The engine oil must be topped up before the first use! Incorrect oil filling can lead to irreparable damage to the engine. In this case, the seller and manufacturer will not provide any warranty.

- Position the machine so that the motor is horizontal.
- Use commercially available engine oil with the specification 10W-30 or 10W-40.



Engine Oil / Specification



engine oil filler plug

Engine oil: filling quantity approx. 0.95 liters. Do not overfill!

Check engine oil level

1. Unscrew the engine oil filler plug.
2. Wipe the dipstick with a clean cloth and reinsert it, do not screw it in.

3. Remove the dipstick again and read the oil level, if necessary top up the engine oil to the "UPPER LEVEL" mark. When the engine is running, the engine oil filler screw must always be firmly seated in the filler neck!
4. Wipe away any oil residue/dirt.

7.2 Filling hydraulic oil

The machine is delivered without hydraulic oil.
Before first use, the hydraulic tank<u>HYDRAULIC OIL</u> to fill!

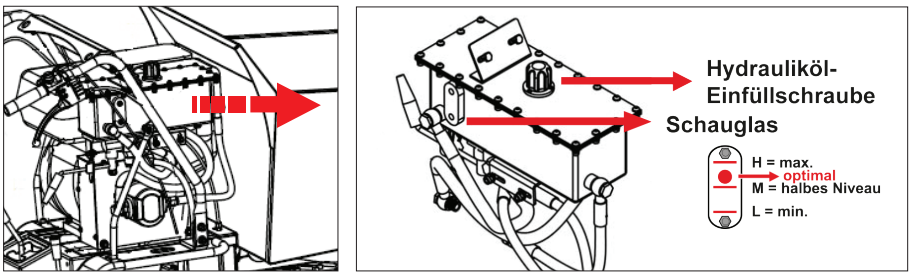
The hydraulic oil was drained for shipping. Failure to do so may result in damage to the hydraulic system. In this case, the seller and manufacturer will not provide any warranty.

Hydraulic oil capacity: max. 2.5 - 3.0 liters.Do not overfill!

Recommended hydraulic oil
Commercially available hydraulic oils such as SHELL Tellus 10-46, Esso Nuto H46, DEA HD B46 are suitable for the machine. Alternatively, any other equivalent hydraulic oil of viscosity class HLP 46 is suitable. This oil is available from agricultural machinery dealers.

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

1. Use commercially available hydraulic oil with viscosity class HLP 46.
2. Remove the hydraulic oil filler plug on the hydraulic tank.
3. Fill in approximately 3.0 liters of hydraulic oil. A nearby sight glass makes it easier to check the oil level, see illustration below. This level should not be exceeded so that the contents have room to expand.



Hydraulic oil tank with filler plug and sight glass

4. Hydraulic oil must be refilled at least half the level to ensure safe use of the machine.

5. Before each use, check whether there is sufficient hydraulic oil in the tank.
6. The connections and screw joints must be checked regularly for leaks and tightened if necessary.
7. Make sure that the machine and the work area around the machine are clean and free of oil stains.**Risk of slipping and fire!**

Never operate the machine if there is a risk of hydraulic fluid.

7.3 Filling fuel

⚠ DANGER

Health and explosion hazards from combustion engines. Be careful when handling fuel!

The engine's exhaust gases contain poisonous carbon monoxide. Staying in an environment containing carbon monoxide can lead to unconsciousness and death. Do not run the engine in an enclosed space.

Before operating the machine, read the operating instructions and the engine manual.

Keep the engine away from heat, sparks and flames. Do not smoke near the machine!

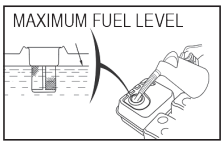
Petrol is extremely flammable and explosive. Before refueling, turn off the engine and let it cool down.

⚠ CAUTION

Engine failure!Risk of engine damage due to unsuitable gasoline.

Only use petrol with an RON 95 or higher. Never fill the machine with 2-stroke mixture, diesel or non-approved fuel.

This engine requires only regular unleaded gasoline with a research octane rating of 95 or higher. Use only fresh, clean fuel. Water or impurities in the gasoline will damage the fuel system.



Tank volume: 5.5 liters

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

⚠ WARNUNG

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

When refilling fuel, please note:

■ Turn off the engine and allow it to cool for at least 10 minutes before removing the fuel tank cap.
■ Keep the engine away from heat, sparks and flames.
■ Fill the fuel outdoors or in a well-ventilated area.
■ Keep gasoline away from sparks, open flames, pilot lights, heat sources and other sources of ignition.
■ To allow room for the gasoline to expand, do not fill beyond the bottom edge of the fuel filler neck.
■ Do not spill fuel, use suitable filling aids.
■ If fuel is spilled, wait until the vapors have dissipated before starting the engine.

refueling the machine

1. Clean the area around the fuel tank cap of dirt and foreign objects.
2. Remove the fuel tank cap.
3. Fill the fuel tank with petrol (RON95 or higher). To allow room for the petrol to expand, do not fill beyond the bottom edge of the fuel filler neck.
4. Screw the tank cap tightly onto the tank neck.
5. Wipe up spilled gasoline immediately

A NOTICE

Only fill the tank up to 1 1/2 cm below the lower edge of the filler neck so that the contents have room to expand.

storing gasoline

■ Fuels can only be stored for a limited time; they age. Excessively stored fuels or fuel mixtures can lead to starting problems. Only store as much fuel as you will use in a month.

■ Only store fuel in containers that are specifically approved for this purpose. Store fuel containers in a dry and safe place.
■ Store fuel containers out of the reach of children.

8. OPERATION

DANGER!
Check that every nut and screw is absolutely tight before using the machine. The machine vibrates heavily during operation. Screws that are not tightened tightly can come loose and get lost, leading to dangerous situations!

⚠ DANGER

Do not start the engine in enclosed spaces. The exhaust fumes contain carbon monoxide, which is very toxic if inhaled!

⚠ CAUTION

Be careful with hot engine parts!
When the engine is running and immediately after switching off the machine, there is a risk of burns from the exhaust and other engine components. Children must be kept away from the running engine and hot components.

8.1 Starting the engine

A detailed description of engine operation and all related precautions and procedures can be found in the Engine Manual, which is supplied separately with the machine.

Check that there is sufficient fuel in the fuel tank.

starting a cold engine

When you start the machine, place it on a level surface.

1. Place the gearshift lever (7) on the gearbox into neutral position (N). 
2. Slide the fuel tap to the right to open it (if equipped). 
3. Activate the choke. When the engine is cold, push the choke lever all the way to the left. 
4. Move the throttle lever (1) on the handlebar to the middle position.
5. Turn the engine switch/ignition switch (2) to ON.
6. Pull the starter handle gently until you feel resistance. Then pull the rope out gently and quickly and let it run back slowly. Repeat until the engine starts.

7. Gradually move the choke lever back to ON while the engine is warming up.

8. Select the desired gear and shift position and slowly pull the clutch lever.

If the gear does not engage immediately, slowly release the clutch lever and repeat the process. This will cause the machine to start moving.

A NOTICE

The operator has the option of regulating the gears in question in two gear stages: "LOW" for slow and "HIGHT" for fast. By additionally adjusting the speed, the machine can be optimally adapted to different loading conditions and thus ensures a higher level of driving stability.

9. Pull the throttle lever (1) to increase the speed accordingly.
10. The machine has steering levers (3+5) on the handlebar and can be easily steered in this way. To drive to the right or left, simply operate the right (3) or left (5) steering lever.

starting a warm engine

If the engine is still warm from previous operation, use of the choke lever is usually not required. Follow the instructions above, but omit points 3 and 7, which refer to the choke.

8.2 Idle

To protect the engine when not working, move the throttle to the SLOW "L" position. Shifting the engine down to idle extends engine life, saves fuel, and reduces machine noise.

8.3 Stopping the engine

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

Under normal conditions, proceed as follows.

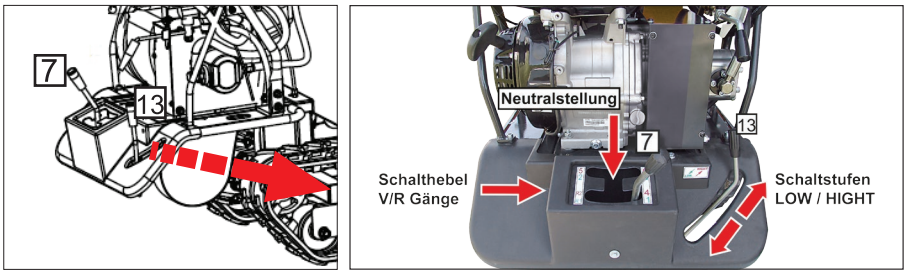
1. Move the throttle lever to the SLOW position.
2. Let the engine idle for 1-2 minutes.
3. Turn the engine switch/ignition switch to OFF.
4. Turn the fuel shut-off valve to OFF (CLOSE) (if equipped).

A NOTICE

Do not set the choke lever to CHOKE to stop the engine. Danger of backfiring or damage to the engine!

8.4 manual transmission

The machine has a four-speed gearbox with two gears.



manual transmission and gear ratios

8.5 Tilting and lifting the tipping trough

The tipping and lowering of the trough is done via the hydraulic pump and the hydraulic cylinder.

Be careful of damage to the hydraulics, especially the hose lines! Otherwise, the troughs falling down during the tipping process can cause serious injury to people and materials. And of course, “clean hydraulics” are good for the environment.

With the**lever, tilt function (14)**you can tilt the tipping trough and bring it into the neutral position.
With the**lever, lifting function (6)**you can raise or lower the tipping trough.

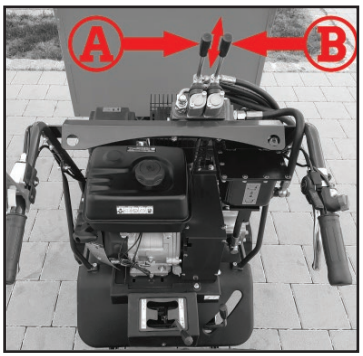
Tipping:

1. The**lever, tilt function (14) (see picture / B)**Push forward with your right hand. The hydraulic system starts working and the tipping trough is lifted by the hydraulic cylinder and the material located there is unloaded.
2. If the trough is in the desired position, then**lever, tilt function (14) (see picture / B)**and the lever automatically returns to its original position. Otherwise the trough will be tilted to the maximum position.
3. To lower the trough,**lever, tilt function (14) (see picture / B)**Pull backwards with your right hand. The hydraulic system starts working again and the tipping trough is lowered by the hydraulic cylinder.

Lift:

1. The**Lever, lifting function (6) (see picture / A)**Push forward with your left hand. The hydraulic system starts working and the tipping body is raised by the hydraulic cylinder.
2. If the trough is in the desired position, then**lever, lifting function (6)**and the lever automatically returns to its original position. Otherwise, the trough is raised to the maximum position.

3. To lower the trough,**Lever, lifting function (6) (see picture / A)**Pull backwards with your left hand. The hydraulic system starts working again and the tipping trough is lowered by the hydraulic cylinder.

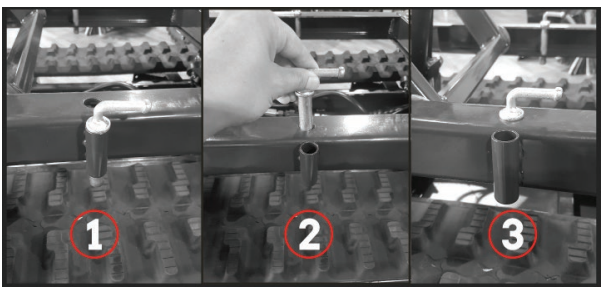


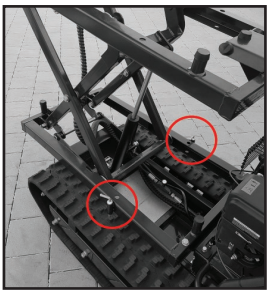
⚠ DANGER ⚠ CAUTION

When carrying out maintenance work with the trough raised, e.g. on the lifting cylinder, the two safety pins must be inserted into the two holes provided in the lower frame (**see picture 1/1-3 & picture 2/2 circles)**This ensures your safety in an emergency.

Then lower the trough until the guide rests against the split pins. This protects the trough from accidentally lowering.

After completing the maintenance, lower the trough a little using**lever, lifting function (6)**lift so that both pins can be removed.
Reinsert the two pins into the storage brackets***(see picture 1 / 1)***The trough can then be lowered by pressing the lever downwards, lifting function (6) (see picture / A),





8.6 Operating instructions

- Steering sensitivity increases in proportion to the speed and load of the machine: if the machine is unloaded, a light pressure on the lever is sufficient to produce 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 and adjust the load according to the ground on which the machine will be used.

- It is therefore recommended to drive in a low gear and with particular caution on difficult routes. In such situations, the machine should be driven in a low gear for the entire route.

- Avoid sharp turns and frequent changes of direction when driving, especially on rough, hard terrain that has many sharp, uneven spots and causes high friction.

- Although the machine is equipped with rubber tracks, please remember to be careful when operating in adverse weather conditions (ice, heavy rain and snow) or on surfaces where the mini dumper may become unstable.
- Please note that this machine is a tracked vehicle and will tilt considerably when driving over bumps, holes and steps.
- When the clutch lever is released, the machine stops and brakes automatically.
- If the machine is stopped on a slope, one of the chains must be secured with a wedge.

A NOTICE

The machine is not approved for use on public roads.

9. MAINTENANCE

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

All persons who carry out cleaning, maintenance and repair work on the machine must be technically qualified and appropriately trained. They must be aware of all dangers and risks associated with the device. Further work not described in this operating manual may only be carried out by your LUMAG specialist workshop or authorized specialist workshops.

⚠ WARNUNG

Before carrying out any cleaning, maintenance or repair work, switch off the engine, wait until the machine has come to a standstill and remove the spark plug connector.

Do not carry out maintenance work near open flames. Fire hazard!

DANGER!
Also observe the maintenance instructions in the engine manual. Have the machine checked and serviced by a specialist workshop at the end of the season.

9.1 Preventive measures

- **Switch off the engine and return all function levers to their original position.**Allow the engine and exhaust system to cool before touching any parts.
- **Check the general condition of the device.**Check the machine for loose screws, misalignment, binding of moving parts, cracked or broken parts, and any other features that may affect the safe operation of the machine.
- **Remove all dirt and other deposits that have accumulated on the tracks and on the machine.**Clean the machine after each use. Then lubricate all moving parts with a light, high-quality lubricating oil.

A NOTICE

Never use a high-pressure cleaner to clean the machine. Water can penetrate into sealed areas of the machine and gearbox and damage shafts, gears, bearings or the motor. The use of high-pressure cleaners shortens the service life and reduces the operational suitability of the machine.

9.2 Adjusting the clutch cable

As the V-belts become worn, the response may change and proper operation may no longer be possible. In this case, the cable must be adjusted and the lever returned to its original position by operating the adjuster and adjusting the lock nut accordingly.

9.3 Setting up the control

If the device is difficult to steer, the steering levers must be adjusted using the adjusting screw.

1. Loosen the lock nut and unscrew the adjusting screw to eliminate any play in the cable that occurs during initial operation or due to normal wear.**DANGER**! Do not screw the adjustment screw too far, otherwise another problem could arise: the device will stop.

2. At the end of the adjustment process, do not forget to tighten the lock nut again.

9.4 Lubrication / Changing / checking transmission oil

DANGER!
Check the transmission oil before first use and top up if necessary!

Check oil level every 50 hours of operation.To do this, carefully loosen the oil control screw on the left side of the gear block (in the middle) using a 10mm hexagon socket wrench, see illustration. The machine must be in the horizontal position. If no oil comes out when you loosen the oil control screw, fill the gear block with 80W-90 gear oil and tighten the control screw again.

Changing the transmission oil

Oil change once a year.

Required parts: approx. 1.5 liters of gear oil (80W-90) Required tools: 10 and 16 hexagon socket wrenches

First you have to lift the machine. Without a lifting platform, such a change is hardly possible. Then you have to look where the oil filler and oil drain plugs are located.

Draining the transmission oil

On the left side of the gearbox, directly under the axle funnel, is the oil drain plug, see illustration. You have to unscrew this with a 16mm hexagon socket wrench and let the oil drain out. Then screw it back in (the thread must be clean!) and tighten it with 25-30 Nm!

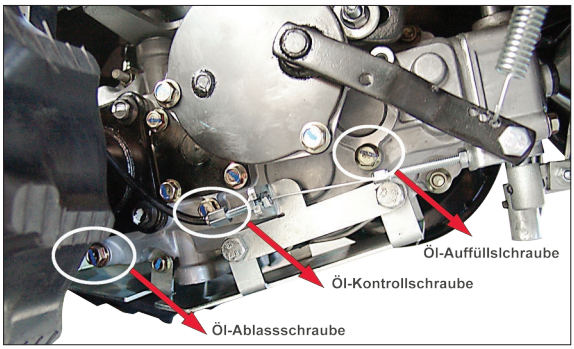
refill transmission oil

The oil filler plug is located on the left side of the gearbox, directly below the brake rod.

It is unscrewed using the same hexagon socket wrench as the oil control screw.

Then you have to fill the transmission oil using a hose or a special pump. There is enough oil in there when oil runs out of the opening again.
(Guideline value: amount of oil to be filled is approx. 1.5 liters; transmission oil specification: 80W-90)

Now screw the screw back in (make sure the thread is clean!) and tighten it with 25-30 Nm.



Gearbox block with oil check plug, drain plug and filler plug

9.5 Tensioning the crawler tracks

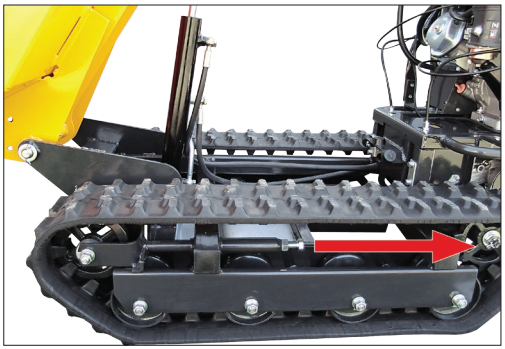
With use, the track chains can become loose. Operating with loose chains can cause them to slip over the drive sprocket and cause them to jump out of its housing or stop working safely, potentially damaging the housing.

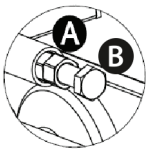
To check that the chains are secure, proceed as follows:
1. Place the machine on a level surface with compact ground, preferably asphalt or stone.

2. Now you can check how much the upper part of the track sags.
3. Measure the center line of the crawler track from the horizontal. The distance must not be greater than 10 to 15 mm.

If the distance is greater, proceed as follows:
1. The**lever, lifting function**to tip the tipping body and place it on blocks or supports that can support the weight of the body.
2. Lock nut**A**solve.

3rd screw**B**tighten until the correct tension is restored.
4th screw**B**by carefully tightening lock nut A.
5. Return the tipping trough to its original position and secure it.





⚠ WARNUNG

Adjusting the tracks affects the brakes. Please proceed with great caution as an over-tightened track will result in loss of braking effect.

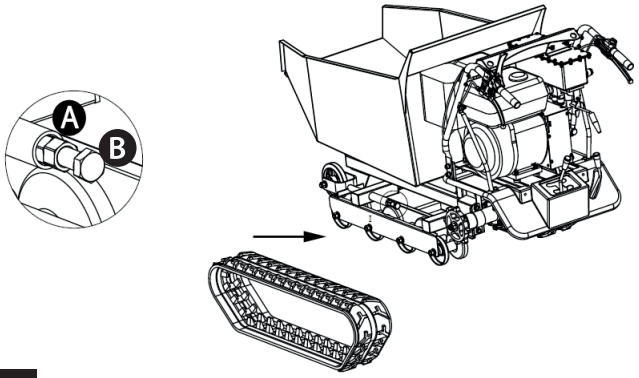
A NOTICE

If the adjustment screw no longer allows further adjustment, the crawler tracks should be replaced.

9.6 Replacing the crawler tracks

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

1. Lock nut**A**and screw**B**to loosen the crawler tracks sufficiently.
2. Remove the old crawler tracks and install the new tracks.
3rd screw**B**to create the correct tension.
4th screw**B**by carefully tightening the lock nut**A**secure.



⚠ WARNUNG

Danger of crushing!
When removing or installing the chains, be careful not to trap your fingers between the chain and the wheel.

9.7 Engine maintenance

For engine maintenance information, refer to the Engine Manual provided with your unit. This Engine Manual provides you with detailed information and a maintenance schedule to help you perform the appropriate tasks.

9.8 Changing the hydraulic oil

First hydraulic oil change after 50 operating hours and then every 100 operating hours.

Used hydraulic oil must be disposed of in an environmentally friendly manner. Take used oil to a public collection point or comply with the relevant national regulations in which the machine is used. Do not dispose of the oil in drains, on the ground or in any type of water.

Recommended hydraulic oil
Commercially available hydraulic oils such as SHELL Tellus 10-46, Esso Nuto H46, DEA HD B46 are suitable for the machine. Alternatively, any other equivalent hydraulic oil from the **viscosity class HLP 46**. This oil is available from agricultural machinery dealers.

10. STORAGE

⚠ DANGER

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

Storing the machine for a Monday or longer.

Thoroughly remove dust, dirt and deposits from the engine and machine.

Clean the engine with a cloth. Avoid spraying it with a strong jet of water (e.g. high-pressure cleaner), as water could get into the ignition and fuel system and cause malfunctions.

Treat all moving parts with an environmentally friendly oil**(do not use fat!)** and run the machine briefly (let it run for 1-2 minutes).

Drain the fuel while running the engine until the fuel is used up.

Clean the air filter and replace it if it is heavily soiled or damaged.

Check that all moving parts are working properly. Replace any damaged or worn parts. Make sure that all screw connections are tightened.

Disconnect the spark plug connector.

Cover the machine and engine to protect them from dust and store them in a dry, clean place, out of reach of children and untrained persons.

Additionally, secure the machine against rolling away and unauthorized use (wheel chock). The machine must not be stored outdoors.

A NOTICE

Do not use aggressive or petroleum-based cleaning agents to clean plastic parts. Such chemicals can damage plastic parts.

11. TRANSPORT

Before transporting or moving the device or storing it indoors:

- Switch off the machine's motor and allow it to cool down to avoid burns and to eliminate the risk of fire.
- Disconnect the spark plug connector.
- Close the fuel tap (if equipped).
- Empty the fuel tank to avoid fuel overflow.

Furthermore, it must be ensured that persons are not endangered by the machine tipping over or slipping or by machine parts flying up or down.

⚠ WARNUNG

The machine is heavy and must not be lifted alone. Get help or use the appropriate equipment to lift the machine.

A NOTICE

Only transport the machine upright!

- The tipping trough must be secured against tipping before transport.
- Transport the machine in an upright position to avoid fuel or oil leakage.

- When transporting over long distances, the fuel tank must be completely emptied.
- Only use suitable and tested aids for loading and securing the machine on or in vehicles.

- Secure the machine on the transport vehicle against rolling, slipping or tipping over and additionally lash it in suitable places with tension straps, chains or ropes.

- Always ensure that the applicable road traffic regulations are observed during transport.

A NOTICE

Before lifting, make sure that the lifting device is capable of safely supporting the weight of the machine (see "Technical data").
Loading ramps must be load-bearing and stable.

A NOTICE

The machine is not approved for use on public roads.

12. TROUBLESHOOTING

Disturbance	Caused	remedy
The engine doesn'tstart 	spark plug connector removed	Securely attach the spark plug connector to the spark plug
	Lack of fuel or old fuel	Fill with clean, fresh gasoline
	Choke is not activated	Choke lever in choke position slide
	fuel line blocked	Clean the fuel line
	Spark plug dirty.	Clean, adjust gap or replace spark plug
	Engine flooded.	Wait a few minutes, start again, but without fuel intake (primer)
Engine runs irregularly	spark plug connector loose	Attach the spark plug connector and tighten it.
	Engine running on CHOKE	choke lever to ON reset (OPEN)
	Fuel line blocked or old fuel.	Clean the fuel line. Fill the tank with clean, fresh gasoline
	exhaust clogged	Clean the exhaust opening
	Water or dirt in the fuel system	Empty the fuel tank and fill it with fresh fuel
	air filter dirty	Clean or replace air filter
	carburetor not adjusted correctly	See engine manual
engine overheats	Engine oil level too low	Fill the crankcase with the correct oil
	air filter dirty	Clean the air filter
	Insufficient airflow	Remove and clean the housing
	carburetor not adjusted correctly	See engine manual
One of the two caterpillar tracks is blocked.	Foreign objects have entered between the chain and the frame	removing foreign bodies
Machine does not move even though the engine is running	Gear was not engaged correctly	Make sure that the gear lever is not between two gears
	Tracks not tight enough	tightening crawler tracks

If these measures do not resolve the problem or if errors occur that are not listed here, have your machine checked by a specialist.

13. TECHNICAL DATA

Model	MD-500HPRO/HT
drive motor	1 cylinder 4-stroke OHV engine LONCIN G300F
engine power	6.8 kW (at 3,000 rpm)
displacement	302 cm^3
transmission	6 forward gears / 2 reverse gears
starting device	recoil starter
drive	gear transmission
steering	steering brake
tipping container	L/950 x W/660 x D/370 mm
ground clearance	120 mm
tilting device	Hydraulic, tiltable forward
hydraulic pump	12 l/min (at 3,000 rpm)
working pressure	200 bar
dead weight	349 / 395.5 kg
load capacity max.	500 kg

emissions values idling

sound pressure level LpA	92 dB(A)
sound power level LwA	101 dB(A)
hand and arm vibration	not more than 2.5 m/s^2
whole-body vibration	not more than 0.8 m/s^2
engine oil	SAE 10W-30 or 10W-40 / 0.95L
hydraulic oil	HLP 46 / 3.0 l
transmission oil	80W-90 / 1.5 l
fuel	unleaded gasoline RON95 / 5.5 l

The values given are emission values and do not necessarily represent safe workplace values. Although there is a correlation between emission and immission levels, this cannot be used to reliably determine whether or not additional precautionary measures are necessary. Factors that influence the current immission level at the workplace include the nature of the work area, other noise sources, e.g. the number of machines and other adjacent work processes. The permissible workplace values can also vary from country to country. However, this information is intended to enable the user to make a better assessment of hazard and risk.

14. ENVIRONMENT

Old motor devices are recyclable materials and therefore do not belong in household waste! Please recycle waste and do not dispose of it as garbage. All tools, hoses and packaging must be sorted, taken to the local recycling center and disposed of in an environmentally friendly manner.

The site of operation must be protected against contamination with leaking operating fluids.

Please contact your local waste disposal authority to find out about options for environmentally friendly and proper disposal.

15. WARRANTY / GUARANTEE / CUSTOMER SERVICE

WARRANTY
The statutory warranty period applies to the device. Any defects that can be proven to be due to material or assembly errors must be reported to the seller immediately. Proof of purchase of the device must be provided by presenting the invoice and receipt when making a warranty claim.

The warranty is excluded with regard to parts if defects have arisen due to natural wear and tear, temperature or weather influences or due to defects resulting from negligent assembly, faulty connection, incorrect fuel/fuel mixture, installation, operation, maintenance, lubrication or force.

Furthermore, no warranty is provided for damage caused by inappropriate or improper use of the machine, such as improper modifications or repair work carried out by the owner or third parties, or intentional overloading of the machine. Wear parts with a limited service life (e.g. V-belts, clutch, throttle cable, spark plug, air filter, battery, blades, hoses, wheels, tools and other aids) as well as all setting and adjustment work are excluded from the warranty.

GUARANTEE
LUMAG guarantees impeccable quality and, without prejudice to the statutory warranty, provides a guarantee in the event of material or manufacturing defects. The guarantee for LUMAG products is 24 months for exclusively private use, and 12 months for commercial or professional use or rental, from the date of delivery.

The buyer must always prove warranty claims by providing the original purchase receipt. A copy of this must be enclosed with the warranty application. The buyer's address and machine type must be clearly identifiable for professional or commercial use. Without the original purchase receipt, we can only carry out the repair for a fee.
Please do not send any devices back to us without a SERVICE NUMBER that you have received from our service department. If we receive devices unsolicited, we cannot accept and process them. To request a SERVICE NUMBER, please contact our service team at: info@lumag-maschinen.de

Please clearly label the shipping box with the SERVICE NUMBER to ensure quick identification.

Warranty work is carried out exclusively by our LUMAG service workshop. Defects that occur within the warranty period due to material or manufacturing defects must be remedied by repair if they have occurred despite proper use and care of the device. We reserve the right to make two repairs if the same defect occurs. If repair fails or is impossible, the device can be exchanged for an equivalent device. If the exchange is also unsuccessful or impossible, there is the option of a replacement.

Normal wear and tear, natural aging, improper use, and cleaning, maintenance and adjustment work are generally not covered by the guarantee (e.g. cutting device, air and fuel filters, spark plugs and recoil starters, drive belts, etc.). Due to operation and use, some components are subject to normal wear and tear, even when used as intended, and may need to be replaced in good time.

CUSTOMER SERVICE
If you have any technical questions, information about our products or would like to order spare parts, our service team is available as follows:

Service time:	Monday to Thursday from 7.30 a.m. to 12 p.m. and 1 p.m. to 5 p.m., Friday from 7.30 a.m. to 12:30 p.m.
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

In accordance with the provisions of the EC directives

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

the company explains:

LUMAG GmbH
Rudolf-Diesel-Str. 1a
D-84375 Kirchdorf/Inn
Telephone: +49 / (0)8571 / 92 556-0
Fax: +49 / (0)8571 / 92 556-19

that the product

Designation: MINI-TRACKED DUMPER
Type designation: MD-500HPRO/HT

meets the essential protection requirements of the above-mentioned EC directives.
Conformity is based on the following standards:

EN ISO 12100:2010
Safety of machinery - General principles for design - Risk assessment and risk reduction

EN 55012:2007+A1
Vehicles, boats and equipment powered by internal combustion engines - Radio interference characteristics - Limits and methods of measurement for the protection of external receivers

EN 6100-6-1:2007
Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments

EN ISO 3744:2010
Acoustics - Determination of sound power and sound energy levels of noise sources from sound pressure measurements - Envelope method of accuracy class 2 for an essentially free sound field above a reflecting plane

Person authorized to compile the technical documentation: Gabriele Denk

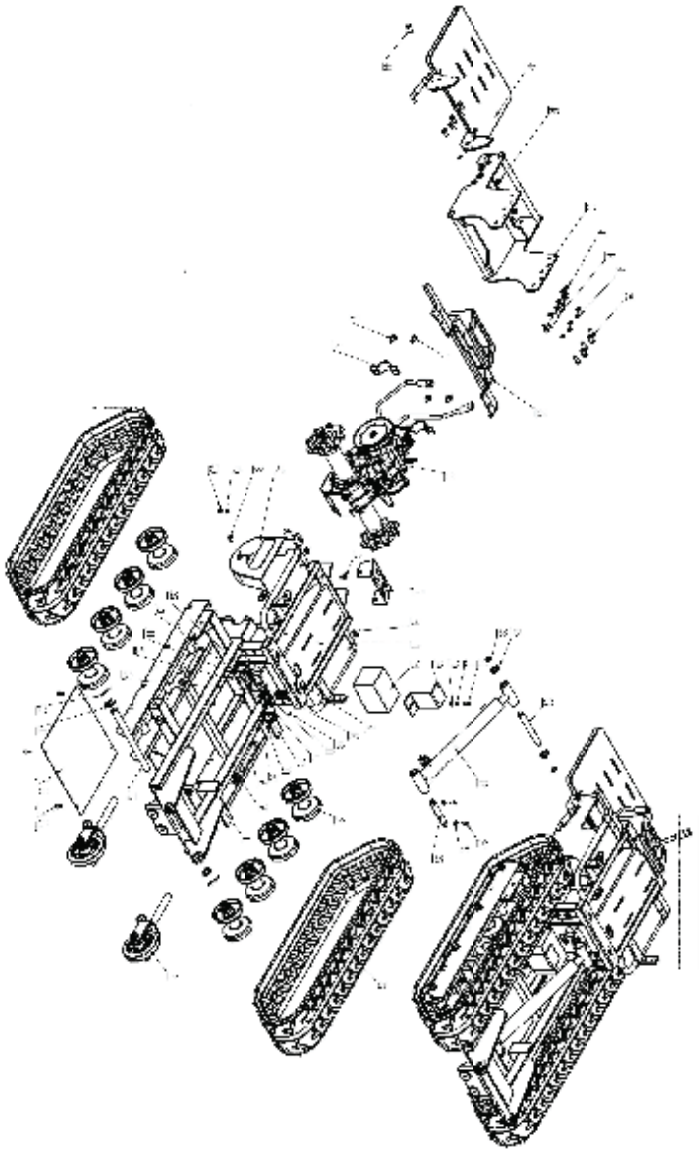
The declaration of conformity refers only to the machinery in the condition in which it was placed on the market; it does not take into account any parts and/or interventions subsequently fitted by the end user.

Kirchdorf, 06.07.2019 Christopher Weißenhorner, Managing Director

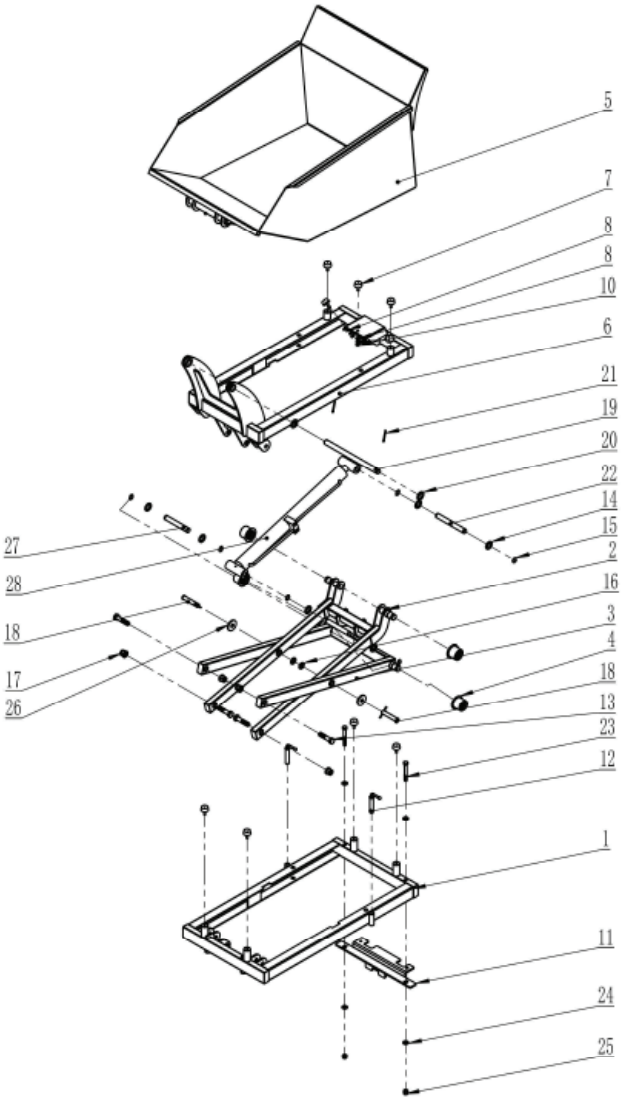
_____ Place, date

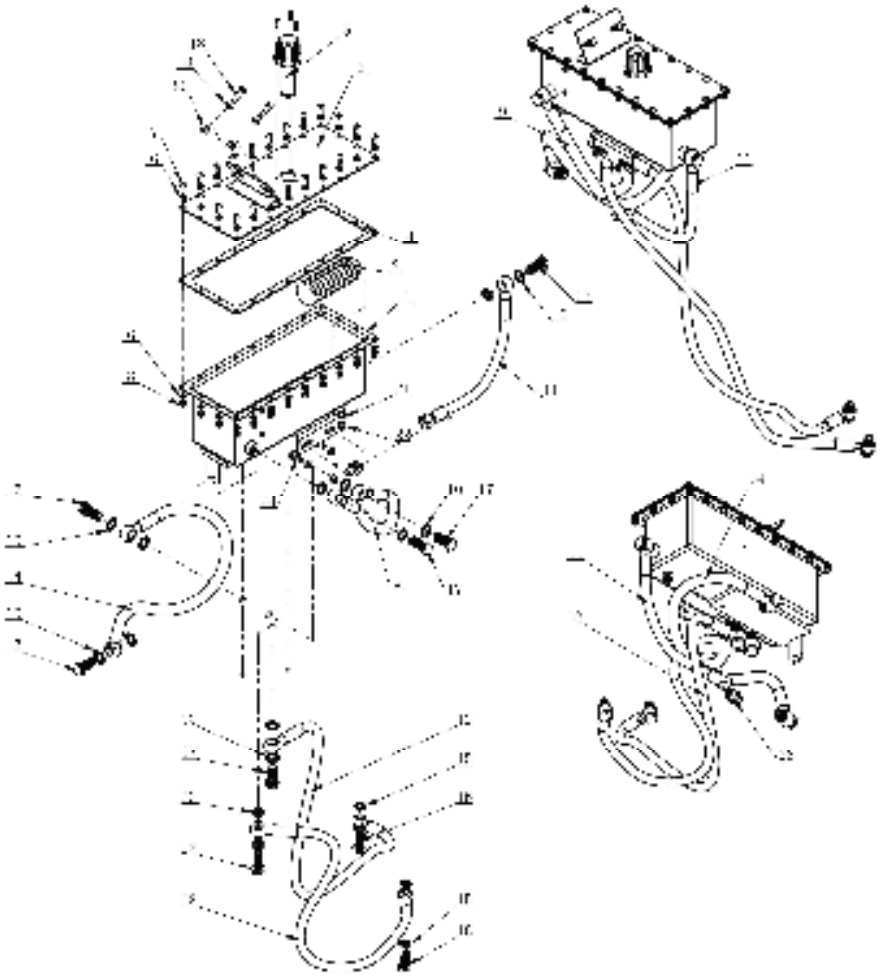
distributor, authorized representative Signature

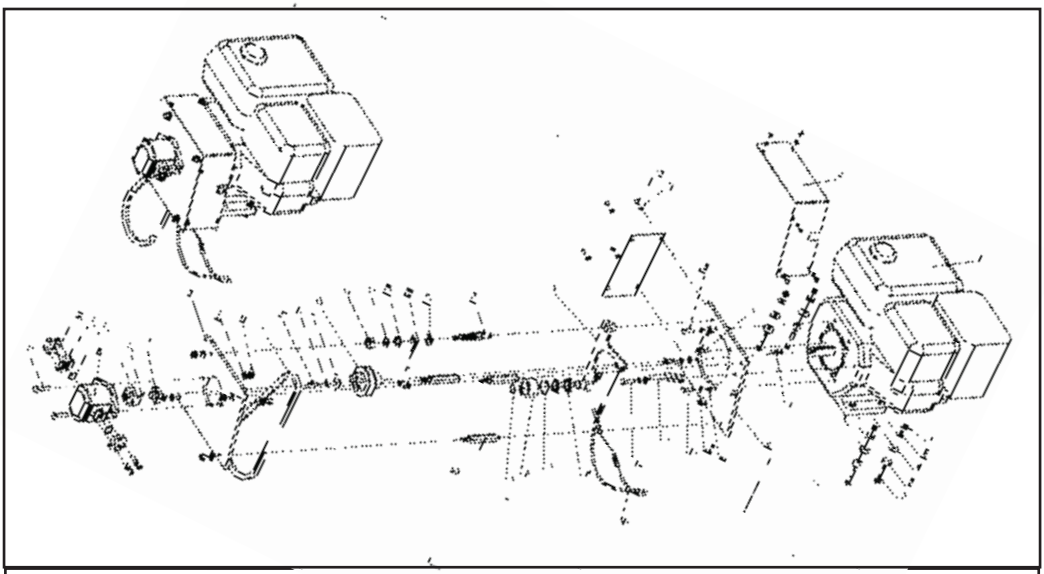
17th BA

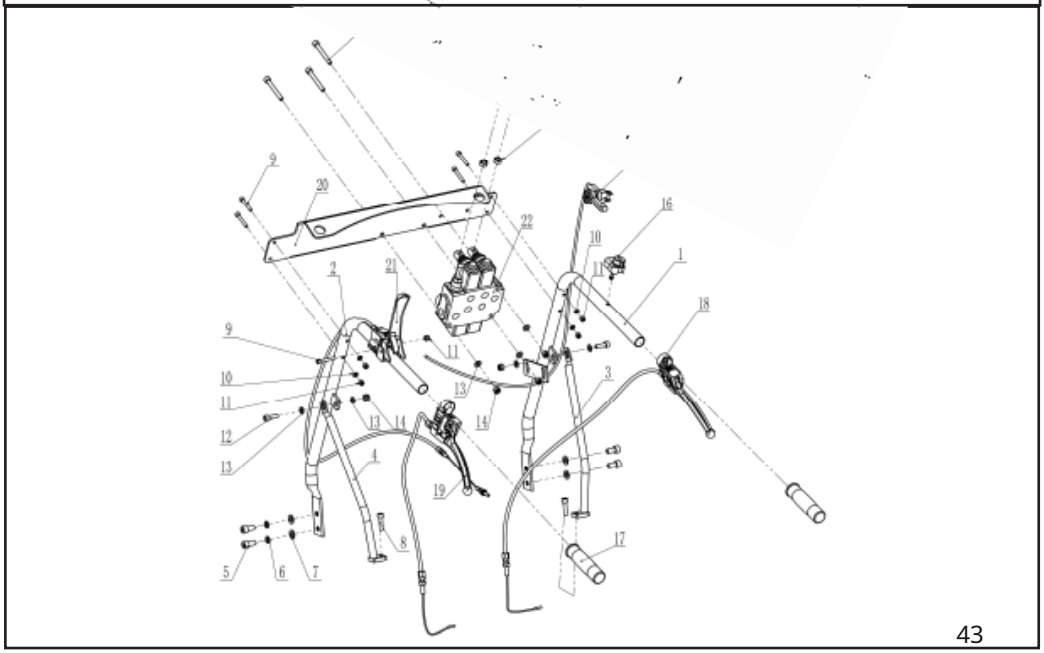


COMPONENTS OF THE MACHINE





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