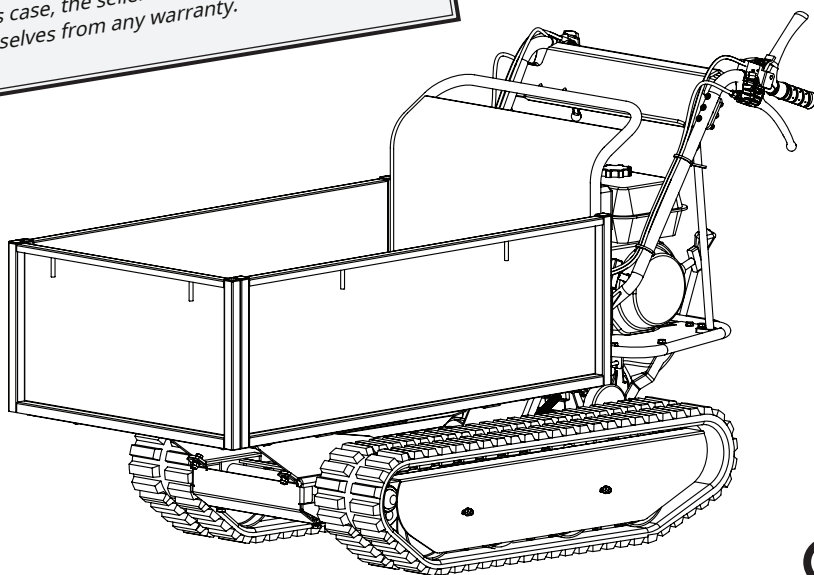




MD-500

DANGER!

The engine oil was drained for shipping. The engine oil must be refilled before the first use! Incorrect oil filling can lead to irreparable damage to the engine. In this case, the seller and manufacturer distance themselves from any warranty.



Art.No.: MD500

D

operating instructions

mini crawler dumper MD-500

**DANGER!**

Before assembling and using the device, read the entire text of the operating instructions. Use these instructions to familiarize yourself with the device, its correct use and the safety instructions. Keep them in a safe place so that you can refer to the information at any time.

If you hand the device over to other people, please also hand over the complete manual.

A NOTICE

According to the applicable product liability law, the manufacturer of this device is not liable for damages caused to or by this device in the following cases:

- improper handling,*
- Failure to follow the operating instructions,*
- Repair by third parties, unauthorized specialists,*
- Installation and replacement of non-original spare parts,*
- improper use. The risk is borne solely by the user.*

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Type and design subject to change.

1. Introduction**2. Intended use****3. Safety instructions**

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3.3 Personal safety

3.4 Fuel safety

3.5 Machine use and maintenance

3.6 Maintenance

3.7 Special safety rules

4. Warning and information symbols used**5th delivery****6. Assembly****7. Functions and controls****8th operation**

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8.3 Idle

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10. Storage**11th transport****12. Troubleshooting****13. Technical data****14. Warranty and Customer Service****15. EC Declaration of Conformity****16. Components of the machine**

1. INTRODUCTION

Your new mini dumper has been manufactured to high standards for reliability, ease of use and safety. If properly maintained, the machine will provide years of reliable, trouble-free work.

This manual contains information and procedures for the safe operation and maintenance of this model. For your own safety and to prevent injury, carefully read, understand, and follow the safety instructions in this manual at all times.

2. INTENDED USE

The mini dumper is a motorized wheelbarrow, hand-held and has a four-speed gearbox, three forward and one reverse. Thanks to its efficient reduction gear, the device is able to move in any situation and under any load. The device is suitable for moving loads in gardens, on construction sites, in landscaping or in agriculture.

Only loads up to 500 kg may be moved. The permitted inclination in the direction of travel of 15° and transverse to the direction of travel of 8° must not be exceeded.

As standard, the mini dumper is equipped with a chain and a tilting loading area with extendable side walls. Unlocking and tipping is done manually.

The mini dumper is not approved for transporting people.

Any use that does not comply with the above specifications is deemed to be improper. LVG Hartham GmbH will indemnify itself against the consequences of any claims resulting from non-compliance with these provisions.

DANGER!

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 device.

3. SAFETY INSTRUCTIONS

When using the mini dumper, the following basic safety measures must be observed to protect against the risk of injury, fire and property damage.

Read all these instructions before using this appliance and keep them

SAFETY INSTRUCTIONS

Keep safety instructions safe. **Inadequately informed operators can endanger themselves and others through improper use.**

The information concerning your personal safety is highlighted by a warning triangle; information concerning property damage alone is provided without a warning triangle.

⚠ DANGER

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

⚠ WARNING

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.

3.1 General safety rules

⚠ WARNING

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

1. Read and observe the operating instructions and the symbols and signs on the machine. Learn their use and limitations as well as their potential sources of danger.
2. Familiarize yourself with the operation and proper use. You should know how to stop the machine and quickly switch off the control.
3. Do not attempt to operate the machine until you fully understand how to properly operate and maintain the engine and how to avoid accidental injury and/or property damage.

3.2 Work 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.

1. Do not start or run the engine indoors, in a garage or in an enclosed area. The engine exhaust contains poisonous carbon monoxide. Exposure to carbon monoxide can lead to unconsciousness and death. Only operate the device in a well-ventilated outdoor area.
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.

3.3 Personal safety

WARNING

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 device carefully and familiarize yourself with the controls and their functions. Above all, learn how to stop the engine quickly and safely in an emergency.

DANGER!

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 device.

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).
 - Hearing protection to reduce the risk of hearing loss.
 - Eye protection to reduce the risk of eye damage.
 - Sturdy work gloves, leather gloves offer good protection.
 - Sturdy shoes or boots with non-slip soles.
 - Wear a protective helmet to protect against flying debris, depending on the work environment.
3. Check your machine before commissioning. Make sure that all protective devices are in place and in the protective position.

SAFETY INSTRUCTIONS

Make sure that all nuts, bolts, etc. are securely tightened.

4. Damaged protective devices and covers must be repaired or replaced as intended by an approved specialist workshop, unless otherwise stated in the operating instructions.
5. Moving parts must function properly and must not bind. All parts must be correctly fitted and meet all conditions to ensure the correct operation of the power tool.
6. Use only approved parts. This machine complies with the relevant safety regulations. Repairs must only be carried out by an approved service center or our service team using original spare parts; otherwise, accidents may occur to the user.
7. Never remove or tamper with the safety device. Check regularly that it is working properly.
8. Do not operate the machine if the engine switch does not turn it on or off. All gasoline-powered machines that cannot be controlled by the engine switch are dangerous and must be replaced. Defective switches must be replaced at a service center.
9. Make it a habit to check that all keys and spanners are removed from the machine area before operating the machine. Tools or spanners left near a moving part of the machine can cause injury.
10. Be alert. Pay attention to what you are doing and use common sense when operating the machine.
11. 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 a firm grip on slippery surfaces. Make sure you have a firm footing and always keep your balance. This will allow you to better control the machine in unexpected situations.
12. Avoid accidental starting. Make sure the engine is turned off before transporting the machine or performing any maintenance or servicing on it. Transporting or servicing a running machine can lead to accidents.

3.4 Fuel safety



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 refilling or emptying the fuel tank, use an approved fuel container in a clean, well-ventilated outdoor area. Do not smoke, avoid sparks, open flames or other sources of ignition while refueling or operating the machine. Never fill fuel tanks indoors.

SAFETY INSTRUCTIONS

2. Keep grounded, conductive objects, such as tools, away from exposed live parts and connections to avoid sparks and arcing. These events could ignite smoke or fumes.
3. Always stop the engine and allow it to cool before adding fuel. Never remove the fuel tank 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 from 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. Move the machine away from the area and avoid creating 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 area where fuel vapors can come into contact with sparks, open flames or other ignition sources such as a kettle, stove, clothes dryer, etc. Allow the engine to cool before storing it in an enclosed area.

3.5 Machine use and maintenance

1. Position the machine so that it cannot move during maintenance, cleaning, adjustment, assembly of accessories or individual parts, or during storage.
2. Do not force the machine. Use the machine that is right for your needs. A properly adjusted machine will do its job better and more safely at the speed for which it was designed.
3. Do not change the engine control settings or over-rev the engine. The speed controller regulates the maximum allowable operating speed of the engine.
4. Do not run the engine at high speed when not working.
5. Never place hands or feet near 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 after the machine is 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, disconnect the spark plug cable and look for Find the cause. Unusual noises or vibrations are usually warning signs of problems.

SAFETY INSTRUCTIONS

8. Use only attachments and accessories approved by the manufacturer. Failure to do so may result in injury.
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 could affect the smooth operation of the machine. If the machine is damaged, repair it before using it. Many accidents are caused by poorly maintained equipment.
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 device 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. Secure the machine against rolling away. Choose a safe location so that the machine cannot be started by unauthorized persons. Do not store the machine outdoors or in a damp environment.

3.6 Maintenance

⚠ WARNING

Improper maintenance or failure to observe or resolve a 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. Disconnect the spark plug wire and keep it away from the spark plug to prevent accidental starting of the engine.
3. Have your machine repaired only by qualified personnel and only with original spare parts. This will ensure the safety of the machine.

3.7 Special safety rules

⚠ WARNING

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 exposed to the elements in case of movement during assembly, installation and commissioning, maintenance, repair or

SAFETY INSTRUCTIONS

would jeopardize the transfer.

3. Keep spectators, children and animals at least 22 meters away. If they approach, switch off the device immediately.
4. Do not climb onto the tipping container or transport anyone with it.
5. Never place the machine, especially when loaded, on unstable ground that could give way.
6. Disengage the clutch before starting the engine.
7. Start the engine carefully according to the instructions, keeping your feet well away from all moving parts.
8. Never leave the operating position when the engine is running.
9. Always hold the machine with both hands when operating it. Grasp the handlebars firmly. Be aware that the machine may unexpectedly jump up or forward if it hits buried obstacles such as large stones.
10. Walk! Never run with the machine.
11. Do not overload the machine capacity. Operate at a safe speed, adjusting it to the terrain gradient, road conditions and load to be transported.
12. Use extreme caution when reversing or pulling the machine toward you.
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 as these operations may cause serious damage or shorten the life of the 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 operate the machine on slopes with an angle greater than 15°.
19. When travelling up a slope, whether forward or backward, always 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 tipper, the centre of gravity of the load changes constantly and the ground conditions will be decisive for the stability of the machine. There are particular risks for tracked dumpers operating on soft ground and their Load such as clay sticks to the vehicle body.

SYMBOLS USED

4. WARNING AND NOTE SYMBOLS USED

A NOTICE

The machine is delivered without engine oil. The first thing to do before using it for the first time is to fill it with engine oil. Failure to do so can lead to irreparable damage to the engine.

⚠ DANGER**Health and explosion hazards from combustion engines**

- **The engine exhaust contains poisonous carbon monoxide. Being in an atmosphere containing carbon monoxide can lead to unconsciousness and death. Do not run the engine in an enclosed area.**
- **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 mini dumper!**
- **Petrol is extremely flammable and explosive. Before refueling, turn off the engine and let it cool down.**
- **Use unleaded fuel RON 91 or higher**



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



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



General warning sign



Do not operate on slopes with an incline of more than 15°.

SYMBOLS USED



Never tip the trailer bed on soft ground or in an inclined position



warning of flying objects



Keep bystanders away.



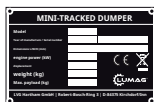
Warning of hot surfaces! Contact can cause burns. Only carry out maintenance, servicing and cleaning work when the engine has cooled down.



Risk of injury. Danger from rotating parts such as chain or drive belt. Keep hands and feet away.



Protection and safety devices must not be removed or modified.



NAMEPLATE

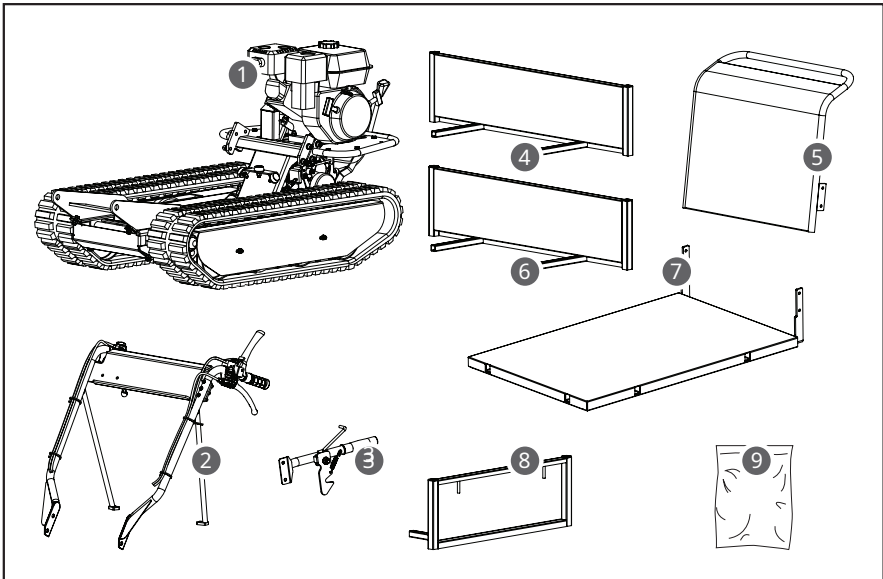
Equipped with model name, year of manufacture and serial number. Please always state this information when ordering spare parts or for service information.



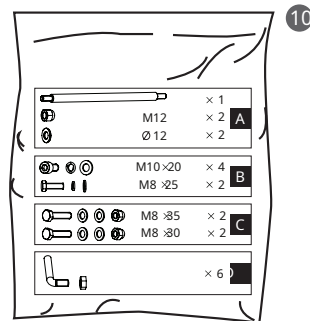
Old electrical/motor devices are recyclable materials and therefore do not belong in household waste!
Please dispose of the components in an environmentally friendly manner.

5. SCOPE OF DELIVERY

The all-terrain mini dumper will be delivered to you partially assembled and in carefully packed packages. After removing all the parts from the package, you should have:

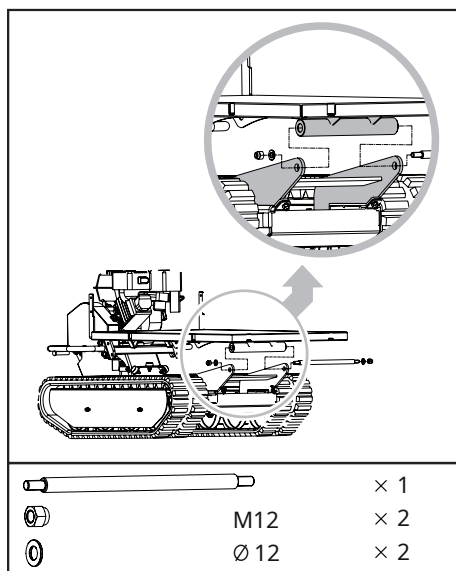


- 1 Pre-assembled device unit
- 2 handlebar assembly
- 3 tilt handle
- 4 extendable side wall
- 5 engine protection bar
- 6 extendable side wall
- 7 base plate (bottom)
- 8 wall part (rear)
- 9 operating instructions
- 10 mounting kit

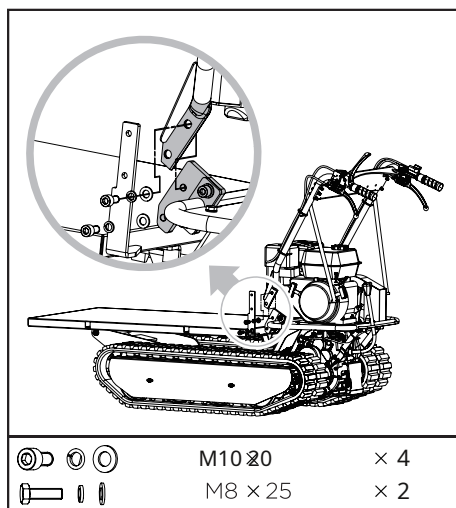


6. ASSEMBLY

Follow the instructions to assemble the machine in just a few minutes.

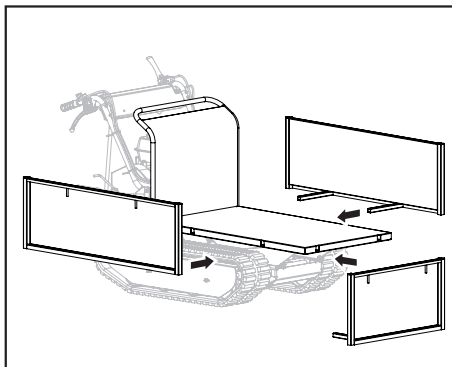
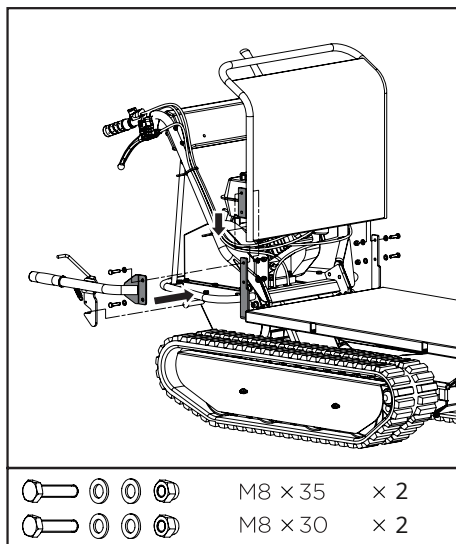


Position the base plate into the mounting bracket. Align the holes with the mounting bracket. Insert the pin through the holes and secure each side with a flat washer and nut.



Align the handlebar post holes with the mounting bracket, securing each hole with a spring washer, flat washer and M10x20 bolt. Secure each handlebar post to the engine deck using a spring washer, flat washer and M8x25 hex bolt.

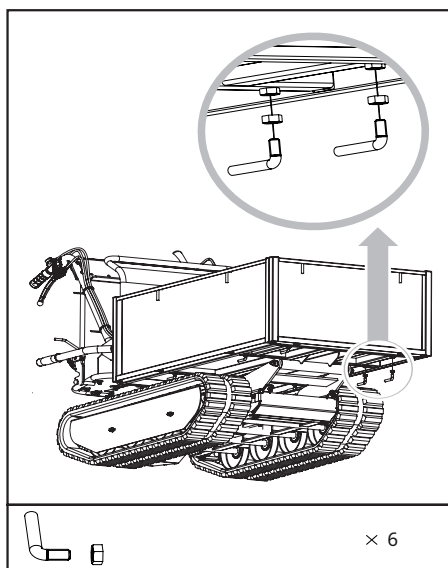
ASSEMBLY



Position the engine guard into the mounting bracket and align it with the mounting bracket holes. Secure the left side wall with two M8x30 screw heads, four washers and two nuts.

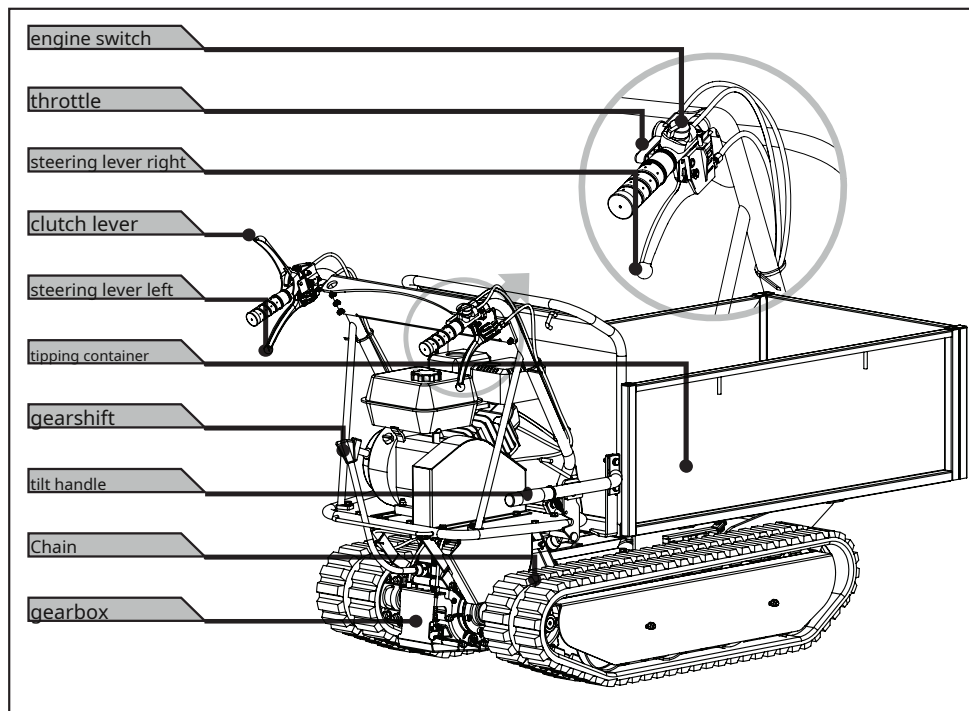
A NOTICE

Mount the tilt handle on the right side wall. Align the holes and secure with two M8x35 hex bolts, four washers and two nuts.



Insert the extendable side walls into the mounting grooves on the base plate and secure both to the floor surface from below using two L bolts and lock nuts.

7. FUNCTIONS AND CONTROLS



engine switch

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

The clutch is disengaged by pressing the clutch lever. To engage the clutch, release the lever.

throttle

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

Left steering lever

This lever is operated to move to the left.

right steering lever

This lever is operated to move to the right.

FUNCTIONS AND CONTROLS

OPERATION

gearshift

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

tilt handle

The tilting handle controls the tilting of the tipping container. To raise the tipping container, the handle is pushed forward. To lower the container, the handle is pulled back to its original position.

8. OPERATION**DANGER!**

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

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.

- Use commercially available engine oil with the specification 10W-30 or 10W-40.
- Remove the engine oil filler plug on the engine.
- Fill in engine oil until it is visible in the thread of the filler opening (= lower edge of the oil filler opening).

8.1 Filling with fuel

Fill the fuel tank according to the instructions in the separate engine manual supplied with the machine.

⚠ CAUTION

Engine damage! Risk of engine damage due to incorrect gasoline.



- **Danger of engine damage due to incorrect petrol. Only fill up with petrol RON91 or higher. Under no circumstances should you fill up the Mini-Dupmer with a 2-stroke mixture.**

This engine requires only regular unleaded gasoline with a research octane rating of 91 or higher. Use only fresh, clean fuel. Water or impurities in the gasoline will damage the fuel system.

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.

8.2 Starting the engine

A detailed description of engine operation and all related warnings and actions can be found in the separate engine manual supplied with the mini dumper. For cold starts, follow the procedure below:

1. Turn the choke lever on the engine to the full choke position.
2. Move the throttle lever on the handle to the middle position.
3. Turn the ignition switch to "ON"
4. Pull the starter rope several times to allow the petrol to flow into the engine's carburetor. Then hold the starter handle firmly and pull the rope out briefly until you feel resistance. Then pull the rope out gently and quickly and let it run back gently. Do not let the rope snap back. If necessary, pull the rope several times until the engine starts.
5. Let the engine run for a few seconds to warm it up. Then gradually move the choke lever to the "OPEN" position.

Restarting an engine that is already warm from previous operation does not normally require a choke.

1. Move the throttle lever on the handle to the middle position.
2. Hold the starter handle and pull the rope out briefly until you feel resistance.
3. Then pull the rope out gently and quickly and let it run back gently. Do not let the rope snap back.
4. After the engine has warmed up, pull the throttle to increase the engine speed.
5. Select the required gear and slowly press the clutch lever. If the gear does not engage immediately, slowly release the clutch lever and try again. The mini dumper should now start moving.
6. The mini dumper has steering levers on the handles, making it easy to steer. To turn right or left, simply use the right or left steering lever.

- 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 on the road, 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

enters considerable inclines 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 steep slopes, one of the chains must be secured with a wedge.

A NOTICE

The mini tracked dumper is not approved for use on public roads.

8.3 Idle

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

8.4 Stopping the engine

To stop the engine in an emergency, simply turn the engine switch to the OFF position. In normal circumstances, proceed as follows:

1. Move the throttle lever to the SLOW position.
2. Let the engine idle for 1-2 minutes.
3. Turn the ignition switch to "OFF".
4. Turn the fuel valve lever to OFF.

A NOTICE

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

9. MAINTENANCE

⚠ WARNING

Improper maintenance or failure to observe or resolve a 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.

All persons carrying out maintenance work on the mini dumper must be technically qualified and appropriately trained. They must be aware of all dangers and risks associated with the device. Any further work not described in this manual may only be carried out by a qualified specialist workshop.

To keep the machine in good working condition, it must be properly maintained and lubricated.

9.1 Preventive maintenance

Turn off the engine and release all control levers. The engine must be cold. Check the overall condition of the machine. Check for loose screws, misalignment or blockage of moving parts and other conditions that could affect safe operation.

Remove all dirt and other substances from the chain and the machine. Clean after each use. Then lubricate all moving parts with a light, high-quality lubricator.

A NOTICE

Never use a high-pressure cleaner to clean the device. 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

As the clutch wears, the lever in question may open further and become inconvenient to operate. In this case, the cable must be adjusted to return the clutch lever to its original position so that it can once again act on the adjuster and the lock nut.

9.3 Adjusting the steering

If the machine is difficult to steer, the steering levers must be adjusted using the special adjustment devices.

1. Loosen the lock nut and screw on the adjusters to eliminate any slack in the cable that may occur during initial operation or due to normal wear. **DANGER!** Do not screw the adjustment devices too far, otherwise another problem could arise: loss of traction.
2. At the end of the adjustment process, do not forget to tighten the lock nut again.

9.4 Lubrication

The gearbox is pre-lubricated and factory sealed.

Check the oil level every 50 hours of operation. To do this, remove the plug and check that the oil level reaches the two notches. The machine must be in a horizontal position. Top up the oil if necessary. Use a lithium-based multi-purpose grease such as **e.g. Lubriplate 630AA**.

The oil must be changed when it is warm. To do this, unscrew the screw cap with the dipstick. When the oil has completely drained, replace the screw cap and fill with new oil.

9.5 Tightening the chains

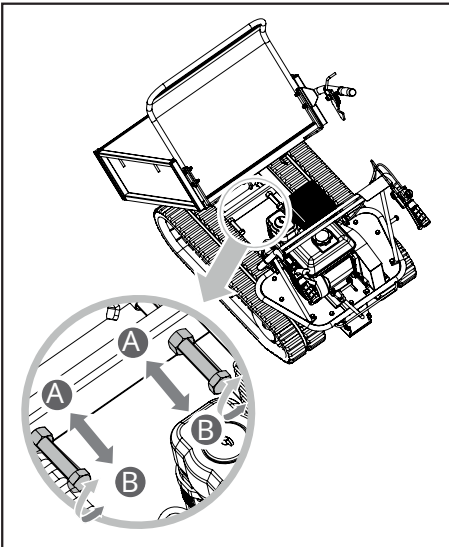
With use, chains can become loose. Operating with loose chains can cause them to slip over the drive sprocket and cause them to jump out of its housing or stop working safely, potentially damaging the housing.

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 floor.
2. Lift the machine onto trestles or supports that can support the weight of the machine, with the chains approximately 100 mm above the ground.
3. Measure the center line of the chain to the horizontal. The distance must not be greater than 10 to 15 mm.

If the distance is greater, proceed as follows:

1. Operate the tipping handle to tip the tipping container and place it on blocks or supports that can support the container weight.



2. Loosen lock nut A.
3. Tighten screw B until the correct tension is restored.
4. Secure screw B by carefully tightening lock nut A.

⚠ WARNING

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

A NOTICE

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

5. Return the tipping container to its original position.

9.6 Replacing the chains

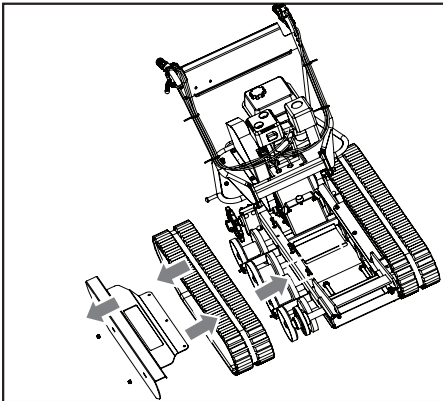
Check the condition of the chains regularly. If a chain has broken or become fibrous, it should be replaced as soon as possible.

⚠ WARNING

Danger of crushing!

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

1. Loosen lock nut A and screw B (as described in section 9.5) to sufficiently loosen the chains.



2. Remove the crash box and old chains and install the new chains.
3. Adjust screw B to create the correct tension.
4. Secure screw B by carefully tightening lock nut A.

9.7 Engine maintenance

For information on engine maintenance, 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.

STORAGE / TRANSPORT

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.

If the mini dumper is not used for more than 30 days, the following steps must be followed to store the device:

1. Completely drain the fuel tank. Fuel containing ethanol or MTBE can go stale during a 30-day storage period. Old fuel has a high gum content and can clog the carburetor and restrict fuel flow.
2. Start the engine and let it run until it stops running. This will ensure that no fuel remains in the carburetor. Let the engine run until it stops running. This will prevent gum buildup in the carburetor and possible engine damage.
3. While the engine is still warm, drain the oil from the engine. Fill with new oil of the quality recommended in the engine manual.
4. Use clean cloths to clean the outside surfaces of the machine and keep the air openings clear.
5. Check for loose or damaged parts. Repair or replace any damaged parts and tighten any loose screws, nuts and bolts.
6. Store the equipment on level ground in a clean, dry, well-ventilated building.

A NOTICE

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

11. TRANSPORT**⚠ WARNING**

Before transporting the machine or storing it indoors, switch off the engine and allow it to cool down to avoid burns and to eliminate the risk of fire. It must also be ensured that people are not endangered by the machine tipping over or slipping or by machine parts flying up or down.

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

- Always switch off the engine during transport!
- Make sure that the loading area and side walls are secured.
- Transport the device in a horizontal position to avoid fuel or oil leakage.

- When transporting over long distances, the fuel tank must be completely emptied.
- Use the lifting points when lifting.
- Attach suitable hooks to the anchor point and pull up carefully to avoid injury.

- Secure the machine on the transport vehicle against rolling, slipping or tipping over and also lash it in suitable places.

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.

TROUBLESHOOTING

12. TROUBLESHOOTING

Disturbance	Caused	remedy
Engine won't start.	Spark plug cable not connected.	Spark plug cable on the Fasten the spark plug.
	Lack of fuel or old fuel.	Fill with clean, fresh gasoline.
	Choke not in open position.	For cold starting, move the throttle lever to the choke position.
	Fuel line blocked.	Clean the fuel line.
	Spark plug dirty.	Clean, adjust clearance or replace.
	Engine flooded.	Wait a few minutes, start again, but without fuel intake.
Engine runs irregularly.	Spark plug cable loose.	Connect and tighten the spark plug cable.
	Device operates in CHOKE position.	Set the choke lever to OFF.
	Fuel line blocked or old fuel.	Clean the fuel line. Fill the tank with clean, fresh gasoline.
	Close the ventilation opening.	Clear the ventilation opening.
	Water or dirt in the fuel system.	Empty the fuel tank. Fill with fresh fuel.
	Air filter dirty.	Clean or replace air filter.
	Carburettor not adjusted correctly.	See engine manual.
Engine overheats.	Engine oil level too low.	Fill the engine housing with the correct oil.
	Air filter dirty.	Clean the air filter.
	Air flow is obstructed.	Remove the housing and clean.
	Carburettor not adjusted correctly.	See engine manual.
One of the two chains is blocked.	Foreign objects have gotten between the chain and the frame.	Remove foreign bodies.
Machine does not move even though the engine is running.	Gear not engaged correctly.	Make sure the gearshift lever is not between two gears.
	Drive chains not tight enough.	Tighten drive chains.

13. TECHNICAL DATA

Model	MD-500
drive motor	1 cylinder 4-stroke OHV engine
engine power	4.8 kW (at 3,600 rpm)
displacement	196 cm ³
working speed	gear 1 forward - 1.6 km/h gear 2 forward - 2.9 km/h gear 3 forward - 3.6 km/h Gear 1 reverse - 1.2 km/h
starting device	recoil starter
drive	gear transmission
brake	Automatic safety brake
steering	steering brake
extendable side walls	Length variable from 1025 - 1155 mm Width variable from 600 - 860 mm Height of side walls 325 mm
tilting device	Mechanically
dead weight	228 kg
load capacity max.	500 kg
engine oil	SAE 10W-30 or 10W-40
fuel	Unleaded gasoline RON91 or higher
emission values	
sound pressure level LpA	92 dB
sound power level LwA	103 dB

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 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 may also vary from country to country. However, this information is intended to enable the user to make a better estimate of

hazard and risk.

WARRANTY / CUSTOMER SERVICE

14. WARRANTY / 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, as well as defects resulting from negligent assembly, faulty connection, incorrect fuel/fuel mixture, installation, operation, maintenance, lubrication or force. Furthermore, no warranty is accepted 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 if the machine is intentionally overloaded. 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

LVG Hartham 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@lvg-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@lvg-maschinen.de

15. EC DECLARATION OF CONFORMITY

In accordance with the provisions of the EC directives

– Machinery Directive 2006/42/EC

– Electromagnetic Compatibility 2004/108/EC

the company explains:

LVG Hartham GmbH

Robert-Bosch-Ring 3

D-84375 Kirchdorf/Inn

Phone: 0049 / (0)8571 / 92 556-0

Fax: 0049 / (0)8571 / 92 556-19

that the product

Device type: mini tracked dumper

Device type: MD-500

meets the essential protection requirements of the above-mentioned EC directives. Authorized representative for the compilation of 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, August 3, 2012

Manfred Weißenhorner, Managing Director

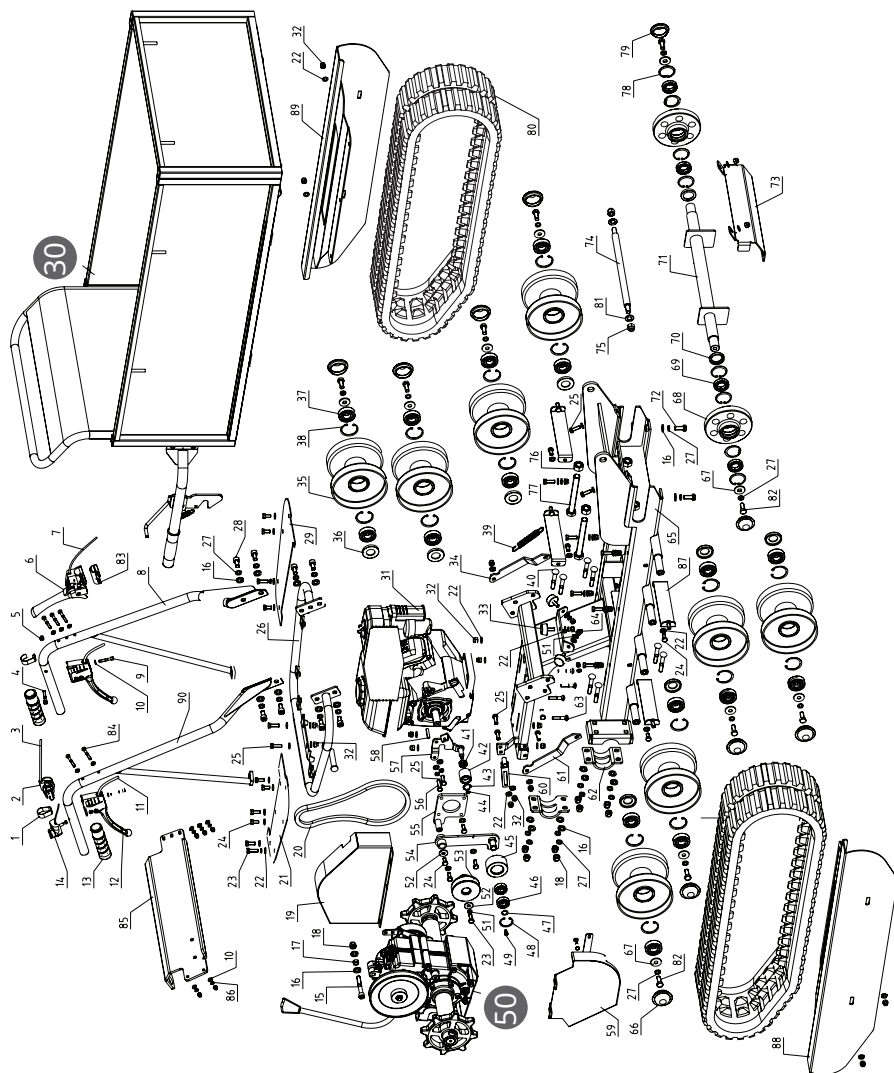
Place, date

distributor, authorized representative

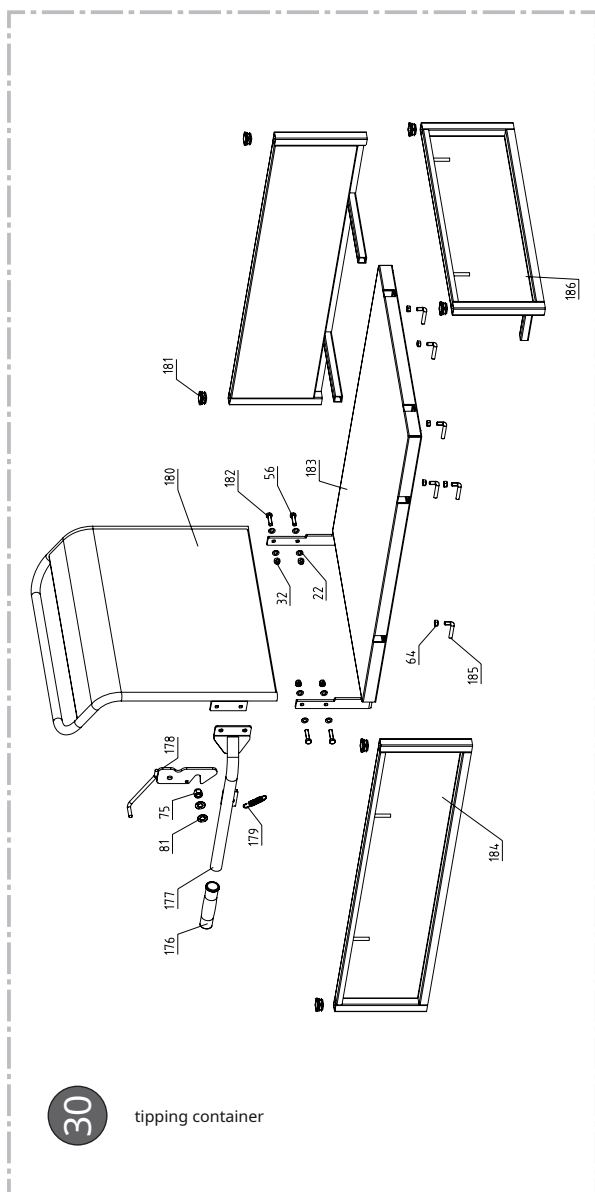
A handwritten signature in black ink, appearing to be "G. Denk", followed by a horizontal line.

COMPONENTS OF THE MACHINE

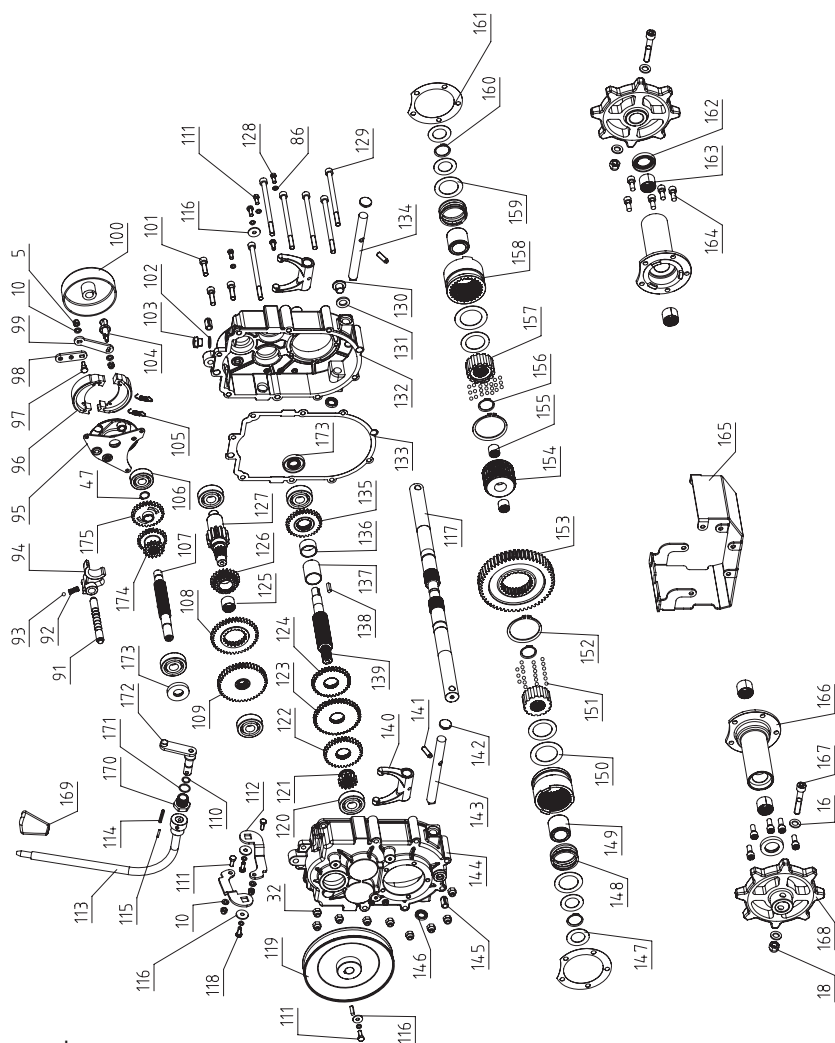
16. COMPONENTS OF THE MACHINE



COMPONENTS OF THE MACHINE



COMPONENTS OF THE MACHINE



50

gearbox

LVG Hartham GmbH

Robert-Bosch-Ring 3
D-84375 Kirchdorf am Inn

Telephone: +49 (0)85 71 / 92 556 - 0
Fax: + 49 (0)85 71 / 92 556 - 19