WACKER NEUSON

all it takes!

Operator's Manual
Vibratory plate

DPU

Machine Type	**DPU52, DPU62**
Material Number	**5100073611**
Version	**3**
Date	**12/2025**
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Original operator's manual

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California Proposition 65 Warning

⚠ WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

⚠ WARNING

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

⚠ WARNING

Cancer and Reproductive Harm

www.P65Warnings.ca.gov

⚠ WARNING

Batteries, battery posts, terminals and related accessories contain lead and lead compounds, and other chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. WASH HANDS AFTER HANDLING.

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1 Declaration of conformity

EU Declaration of Conformity

Manufacturer

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, 85084 Reichertshofen (DE)
This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product	**DPU5247, DPU5260, DPU5275, DPU6247, DPU6260, DPU6275 – H, He, Heh, Hehp, Hep, Hp**
Product type	Vibratory plate
Function of product	Soil compaction
Net installed power	7,1 kW
Measured sound power level	107 dB(A)
Guaranteed sound power level	108 dB(A)

Conformity assessment procedure

2000/14/EC, Annex VIII

Notified body

TÜV Rheinland LGA Products GmbH, Tillystr. 2, 90431 Nürnberg (DE) (NB 0197)

Directives and standards

We hereby declare that this product complies with the relevant provisions and requirements of the following directives and standards:
2006/42/EC • 2000/14/EC • 2014/30/EU • EN 500-1:2006 + A1:2009 • EN 500-4:2011
EN ISO 13766-1:2018

Person responsible for technical documents

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, 85084 Reichertshofen (DE)

Reichertshofen (DE), 04.11.2025

Helmut Bauer
Managing Director

EU Declaration of Conformity

Manufacturer

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, 85084 Reichertshofen (DE)
This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product	**DPU5247, DPU6247 – Hecb+,Hecpb+,Hectb+, Hectpb+,Hehcb+,Hehcpb+,Hehctb+,Hehctpb+**
Product type	Vibratory plate
Function of product	Soil compaction
Net installed power	7,1 kW
Measured sound power level	107 dB(A)
Guaranteed sound power level	108 dB(A)

Conformity assessment procedure

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EN ISO 13766-1:2018 • EN ISO 13766-2:2018

Person responsible for technical documents

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Reichertshofen (DE), 04.11.2025

Helmut Bauer
Managing Director

EU Declaration of Conformity

Manufacturer

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, 85084 Reichertshofen (DE)
This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product	**DPU5260, DPU6260 – Hecb+,Hecpb+,Hectb+, Hectpb+,Hehcb+,Hehcpb+,Hehctb+,Hehctpb+**
Product type	Vibratory plate
Function of product	Soil compaction
Net installed power	7,1 kW
Measured sound power level	107 dB(A)
Guaranteed sound power level	108 dB(A)

Conformity assessment procedure

2000/14/EC, Annex VIII

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Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, 85084 Reichertshofen (DE)

Reichertshofen (DE), 04.11.2025

Helmut Bauer
Managing Director

EU Declaration of Conformity

Manufacturer

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, 85084 Reichertshofen (DE)
This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product	**DPU5275, DPU6275 – Hecb+,Hecpb+,Hectb+, Hectpb+,Hehcb+,Hehcpb+,Hehctb+,Hehctpb+**
Product type	Vibratory plate
Function of product	Soil compaction
Net installed power	7,1 kW
Measured sound power level	107 dB(A)
Guaranteed sound power level	108 dB(A)

Conformity assessment procedure

2000/14/EC, Annex VIII

Notified body

TÜV Rheinland LGA Products GmbH, Tillystr. 2, 90431 Nürnberg (DE) (NB 0197)

Directives and standards

We hereby declare that this product complies with the relevant provisions and requirements of the following directives and standards:
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Person responsible for technical documents

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, 85084 Reichertshofen (DE)

Reichertshofen (DE), 04.11.2025

Helmut Bauer
Managing Director

Sontheim

Supplier Declaration of Conformity

47 CFR § 2.1077 Compliance Information

We herewith declare that the product

Product Name:

BEACON 24g

Unique Identifier:

V930241260

Responsible Party – U.S. Contact Information:

Sontheim Electronic Systems L.P.
201 West 2nd Street
Davenport, IA 52801
United States of America
Telephone: +1 563 888 1471
Email: info@sontheim-esys.com

FCC Compliance Statement:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Davenport, 17.10.2022

Sontheim Industrie Elektronik GmbH

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Supplier's Declaration of Conformity
47 CFR § 2.1077 Compliance Information

Copy of the Compliance Information Statement

TCB

GRANT OF EQUIPMENT AUTHORIZATION

Certification
Issued Under the Authority of the
Federal Communications Commission
By:

TCB

PHOENIX TESTLAB GmbH
Koenigswinkel 10
32825 Blomberg,
Germany

Date of Grant: 10/01/2018

Application Dated: 10/01/2018

u-blox AG
Zuercherstrasse 68
Thalwil, Ch-8800
Switzerland

Attention: Giulio Comar , Certification Manager

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: XPYANNAB1
Name of Grantee: u-blox AG
Equipment Class: Digital Transmission System
Notes: Wireless Communication System Module
Modular Type: Single Modular

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
	15C	2402.0 - 2480.0	0.002		

Output power listed is max conducted. This modular transmitter is approved for use in any stand-alone configurations and meets SAR test exclusion for host applications, where the radiating part is 5 mm or less away from the human body. This module can only be used with a host antenna circuit trace layout design in strict compliance with the OEM instructions provided. This module is also approved with a fixed onboard antenna. Only those antenna(s) tested and documented with this device or similar antenna types with equal or lesser gain and identical in- and out-band characteristics may be used with this transmitter. The antenna used for this transmitter module must not transmit simultaneously with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures. The integrator is responsible for the final compliance of the end-product with the integrated transmitter module. When the conditions of this filing cannot be met installation of this device into specific final products may require the submission of a permissive change application containing appropriate data demonstrating compliance, or a new application for equipment authorization. This device supports Bluetooth BLE 5 with different data rates (1 MBit/s, 2 MBit/s) as documented.

2 Foreword

2.1 Introduction

This operator’s manual contains important information and procedures for the safe, proper and economical operation of this machine. Careful reading, understanding and observing it helps to avoid hazards, reduce repair costs and downtimes and thus increase the availability and service life of the machine.

This operator’s manual is not a manual for extensive maintenance or repair work. Such work must be carried out by the service partner or by technically trained personnel. The machine must be operated and maintained in accordance with the instructions in this operator’s manual. Improper operation or maintenance can cause hazards.

Defective machine parts must be replaced immediately!

The manufacturer is always available to answer questions about operation or maintenance.

2.2 Storage Location of the Operator's Manual

This operator's manual must be kept in the immediate vicinity of the machine and accessible to personnel at all times.

If a second copy of this operator’s manual is lost or required, the following options are available for obtaining a replacement:

- On the Internet at http://www.wackerneuson.com.
- Contact the service partner

2.2.1 Understanding These Instructions

This section helps to understand the operator’s manual and the illustrations used therein.

Target group

People working with this machine must be regularly trained with regard to the dangers and risks occurring when using this machine.

This operator’s manual is aimed at:

- Operating personnel:
  - These people have been instructed in working with the machine and about possible dangers and risks arising due to improper behavior.
- Technically trained personnel:
  - These people have a professional training as well as additional knowledge and experience. They are capable of assessing the tasks assigned to them and recognizing any possible risks and dangers.

Explanation of symbols

Symbol	Explanation
1., 2., 3…	Indicates an activity. The sequence of the steps must be observed.
⇨	Indicates a result or an intermediate result of an action.

Symbol	Explanation
✓	Indicates prerequisites that must be established for the activity.
●	Indicates a list, e.g. if several components are named one after the other.
-	Indicates a sub-list, e.g. if components consist of further components
	Identifies a position, usually a component or control element, in a graphic. The numbering may be sequential or in Roman numerals.
1; **A**	Indicates the naming of components in explanatory texts. It is identical with the adjacent positions in the illustrations.
	Indicates a direction of movement or different positions for switches.
▶	Indicates the avoidance of hazards in warning notices.
[‣52]	Indicates a cross-reference in tables. Here e.g. reference to page 52

2.2.1.1 Explanation of symbols

The symbols used in the operator's manual are explained below. The symbols are used exclusively in warning or environmental instructions or information. Warnings must always be observed to protect the operator and third parties from personal injury and damage to property.

Symbol for warnings

This symbol marks general warnings. It is used to alert you of possible hazards, e.g. risks of injury or accidents.

Symbol for indications of technical damage

This symbol is a warning symbol that indicates a danger of technical damage. It is used to indicate situations where damage to the machine or third-party property may occur.

Symbol for environmental information

This symbol indicates environmental information. It is used to warn of possible environmental hazards.

Symbol for information

This symbol indicates information. This information can include tips on operation, for example. It helps to better understand and use the machine.

2.3 Accident Prevention Regulations

In addition to the notes and safety instructions in this operator’s manual, the local accident prevention regulations and the national industrial safety regulations apply.

2.4 Contact person

Depending on the country, the contact person is a service partner, a subsidiary or a dealer.

- On the Internet at http://www.wackerneuson.com.

2.5 Limitation of liability

In the event of the following infringements, the manufacturer disclaims any liability for personal injury and damage to property:

- Actions contrary to this operator’s manual.
- Non-designated use
- Deployment of untrained personnel.
- Use non-approved spare parts and accessories.
- Improper handling.
- Structural changes of any kind.
- Non-observance of the General Terms and Conditions (GTC).

2.6 Use of the operator’s manual

This operator’s manual:

- must be regarded as an integral part of the machine and must be kept in a safe place throughout its service life.
- must be passed on to each subsequent owner or operator of this machine.
- applies to various machine types from one product range. For this reason, some illustrations may differ from the appearance of the purchased machine. Variant-dependent components that are not included in the scope of delivery can also be described.

The manufacturer reserves the right to change the information in this operator's manual without notice.

It must be ensured that any changes or additions made by the manufacturer are immediately incorporated into this operator’s manual.

Type* / Variant**
DPU52
DPU62
*Type = a machine derived from the variant. The complete machine type is specified on the type plate. **Variant = a base version of the machine that must be further configured.

3 Usage

3.1 Designated use

Designated use also includes observing all notes and safety instructions in this operator's manual and observing the prescribed care and maintenance instructions.

The machine is used for:

- Compaction in earth and gravel construction.
- Compaction of mixed and granular soils.
- Compaction of asphalt.
- Shaking in cobblestones.

Any other use or use that goes beyond this is considered improper use. The manufacturer shall not be liable or liable for any damage resulting therefrom. The risk is borne solely by the operator.

3.2 Unintended use

The manufacturer is not liable for personal injury or damage to property resulting from unintended use. The following activities, among others, are not intended:

- Compaction of strongly cohesive soils.
- Compaction of frozen soils.
- Compaction of hard, non-compactable soils.
- Compaction of non-load-bearing soils.

4 Safety

4.1 Safety symbols and signal words

The following symbol identifies safety instructions. It is used for warning against potential personal risk or danger.

⚠ DANGER

DANGER identifies a situation causing death or serious injury if it is not avoided.

Consequences in case of non-observance.

► Avoidance of injury or death.

⚠ WARNING

WARNING identifies a situation that can cause death or serious injury if it is not avoided.

Consequences in case of non-observance.

► Avoidance of injury or death.

⚠ CAUTION

CAUTION identifies a situation that can cause injury if it is not avoided.

Consequences in case of non-observance.

► Avoidance of injury.

NOTICE

INFORMATION identifies a situation that causes damage if it is not observed.

Consequences in case of non-observance.

► Avoidance of damage to property.

4.2 Principle

The machine has been designed and built in accordance with latest state-of-the-art standards and the recognized safety regulations.

Warning! Risk of injury due to improper use.

Improper use can result in danger to life and limb for the operator and third parties or machine and other property damage.

- Read and observe the notes and safety instructions in this operator's manual. Failure to follow these instructions may result in electric shock, fire and/or serious injury, as well as damage to the machine and/or other objects.
- Keep safety instructions and information for the future.

4.3 Structual changes

Warning! Risk of injury due to structural changes.

Unauthorized structural changes to this machine can pose a risk to operators and/or third parties, as well as damage to the machine and/or other property.

- Do not make any structural changes without the manufacturer's written consent.

In particular, a structural change shall be deemed to have occurred:

- When opening of the machine and permanent removal of components.
- Installation of spare parts that do not come from the manufacturer or are not equivalent in design and quality to the original parts.
- Attachment of accessories of any kind that do not originate from the manufacturer.

The manufacturer's liability and warranty are also void in the event of unauthorized structural alterations.

Spare parts or accessories from the manufacturer can be installed or removed safely.

Further information is available on the Internet at - http://www.wackerneuson.com.

4.4 Responsibility of the operator

The operator is the person who operates this machine himself for commercial or economic purposes or who leaves it to a third party for use/application and bears the legal product responsibility for the protection of personnel or third parties during operation.

- The operator must make the operator’s manual accessible to the personnel at all times and ensure that the operator has read and understood the operator’s manual.
- The operator’s manual must be kept ready to hand at the machine or at the place of use.
- The operator must hand over the operator's manual to any other operator or subsequent owner of the machine.
- The country-specific regulations, standards and directives on accident prevention and environmental protection must also be observed. The operator’s manual must be supplemented by further instructions for compliance with operational, official, national or generally applicable safety guidelines.

4.5 Obligations of the operator

- Know and implement applicable health and safety regulations.
- In a risk assessment, identify hazards arising from working conditions at the place of use.
- Create operating instructions for the operation of this machine.
- Regularly check whether the operating instructions correspond to the current status of the regulations.
- Clearly regulate and define responsibilities for installation, operation, troubleshooting, maintenance and cleaning.
- Train personnel at regular intervals and inform them about possible dangers.
- Refresh instruction at regular intervals.
- Keep records of the training received and make them available to the competent authority on request.
- Provide personnel with the necessary protective equipment.

4.6 Qualification of staff

Warning! Risk of injury due to misuse.

In the event of misuse, abuse or operation by untrained personnel, there is a risk to the health of the operator and/or third parties, as well as damage or total failure of the machine and/or other property damage.

- The machine may only be commissioned and operated by trained personnel.

In addition, the following requirements apply to the operator:

- Physical and mental suitability.
- Minimum age 18 years.
- No influence on reactivity by drugs, alcohol or medication.
- Familiarity with the safety instructions in this operator’s manual.
- Familiarity with the intended use of this machine.
- Instructed in the independent operation of the machine.

4.7 General safety instructions

The safety instructions in this chapter contain the "General safety instructions", which must be listed in the operator’s manual in accordance with the applicable standards. It may contain instructions which are not relevant for this machine.

4.7.1 Workplace

Warning! Hazard of poisoning from exhaust gases.

Exhaust gases contain carbon monoxide. Inhaling exhaust gases can lead to death in a few minutes.

- Do not inhale exhaust gas.
- Do not operate machine in an enclosed/partially enclosed or poorly ventilated or vented area.
- Particular caution is required when operating in ditches, because a high concentration of carbon monoxide can form in ditches after a short time.
- Ensure adequate ventilation/exhaustion.

Warning! Risk of explosion from fuel vapors.

Fuel vapors are highly flammable and can cause an explosion. This can seriously injure people and cause damage to property.

- Do not start the engine near spilled fuel.
- Open fire and smoking prohibited.

Warning! Risk of injury due to unsafe work environment.

Unsafe working environment can cause the machine to tip, roll, slide and fall. People can be injured as a result.

- Before starting work, familiarize yourself with the working environment, e.g. load-bearing capacity of the floor or obstacles in the environment.
- Always secure the machine against tipping, rolling, slipping and falling.
- Observe the changing ground conditions, especially on uneven and soft ground or on slopes. Secure the machine against slipping!
- When working near pits, ditches or plateaus, exercise caution! The load-bearing capacity capacity of the ground must safely carry the weight of the machine and the operator.

Warning! Risk of injury if distracted by third parties.

Distraction by others can result in loss of machine control. This can seriously injure people and cause damage to property.

- Secure work area to public transport area.
- Keep unauthorized persons and children away when working with this machine.

Warning! Risk of injury due to adverse working conditions.

Cluttered and poorly lit work areas can lead to accidents. People can trip, fall and be seriously injured as a result.

- Keep work area tidy.
- Provide adequate lighting.

Caution! Risk of injury due to irritation of mucous membranes.

Irritation of the eyes and respiratory tract due to dust stirred up during machine operation.

- Dusty grounds must be watered before compressing.

4.7.2 Personal safety

Warning! Risk of injury due to physical impairment.

Physical impairment can reduce the ability to react. This can lead to loss of machine control. People can be injured as a result.

- Do not work under the influence of drugs, alcohol or medication.

Warning! Danger of being drawn in by unsuitable clothing and long hair.

Wide or loose clothing, protective gloves, jewelery and long hair can be caught and pulled in by moving/rotating machine parts. This can result in severe injuries.

- Keep loose or loose clothing and protective gloves away from moving/rotating machine parts.
- Remove jewelry before starting work.
- Tie up long hair or use a hair net.

Warning! Danger of falling due to unsafe position.

Working in an unstable position can lead to falls. Falls can cause serious injuries.

- Always ensure a safe footing.
- Always have both feet on the ground.

Warning! Risk of injury to third parties

Bystanders can be seriously injured by incidents in the work area.

- Make sure there are no other people in the danger area.

Caution! Damage to health from exposure to vibration.

Prolonged use of this machine may result in long-term vibration-related damage or impaired circulation in the fingers, hands or wrists. Signs of this can be body parts falling asleep, tingling, hurting, stinging and discoloring.

In the case of personal predisposition to poor blood circulation, working time can be reduced despite safety gloves and regular breaks from work.

- Take regular breaks from work.
- If these symptoms are detected, consult a doctor immediately.
- Observe national occupational safety requirements.

Vibration exposure, see Technical Data on page 64

Personal protective equipment

Suitable protective equipment must be used for all work. Personal protective equipment considerably reduces the risk of injury.

Warning! Risk of hearing damage from exceeding permissible noise limits.

Working with the machine without hearing protection can lead to hearing damage in the long-term.

- Always use hearing protection when working with the machine.
- When working with hearing protection, work particularly attentively and carefully, because noises, e.g. screams or beeps, are only perceived to a limited extent.

4.7.3 Handling and use

Warning! Risk of injury from falling loads.

In the event of improper transport or transport with unsuitable lifting gear, loads can fall. People can be hit and seriously injured or killed.

- Do not stay under lifted loads.
- Only use suitable and tested lifting gear and slings with sufficient load-bearing capacity.
- Secure the machine safely to the lifting gear.
- Use appropriate transport method.

Warning! Risk of crushing from swinging loads.

Improper transport can cause loads to swing. People can be hit or crushed by this and be seriously injured or killed.

- Keep a sufficient distance from the lifted loads.
- Secure raised loads against swinging.

Warning! Danger to life due to unauthorized troubleshooting

Unauthorized troubleshooting can lead to unforeseen machine states. People can be injured as a result.

- If faults occur on this machine which are not described in this operator's manual, contact the service partner.
- Do not rectify faults on your own.

Warning! Risk of injury from defective machines or components.

Defective machines or components can lead to unforeseen machine states. People can be injured as a result.

- Handle machines with care.
- Do not start a defective engine.
- Have defective parts replaced before operating the machine.

Warning! Risk of injury due to functionally restricted controls.

Controls that are not fully functional can lead to unforeseen machine states. People can be injured as a result.

- Check the machine's controls for functionality before operation.
- Do not lock, manipulate or alter the machine controls in an inadmissible manner.

Warning! Risk of injury due to unauthorized start-up.

Unauthorized start-up can lead to dangerous situations. Persons involved can be seriously injured as a result.

- Only allow the machine to be operated by authorized personnel.
- Secure unused machines against unauthorized putting into operation.
- After operation, store the machine in a locked, clean, frost-free and dry place that is inaccessible to other people and children.
- Use the machine, accessories, tools etc. in accordance with these instructions.

4.8 Specific vibration plate safety instructions

4.8.1 External influences

Warning! Fire and explosion hazard.

Operating machines in potentially explosive atmospheres or near open flames can result in an explosion or fire. This can seriously injure people and cause property damage.

- Do not operate the machine in a potentially explosive environment.
- Do not operate machine in oilfield environments - methane gas leaking from ground.
- Do not operate the machine in the vicinity of open flames.
- Do not operate the machine in dry, highly flammable vegetation.

Caution! Risk of injury from slipping machine.

In heavy rain, the machine may slip on sloping surfaces. This can injure people and damage the machine.

- Do not operate the machine on inclined surfaces in heavy rain.

4.8.2 Operational safety

Warning! Risk of injury from uncontrolled guided machine.

Loss of machine control can result in serious injury to the operator or others.

- Always hold the machine with both hands.
- Take a firm stand.

Warning! Risk of injury from tipping or slipping machine.

The machine can tip over or slide off in the vicinity of escarpments. People can be hit and seriously injured.

Make sure at least 2/3 of the machine is on a stable surface.

Otherwise, take the machine out of operation and move it to a stable surface.

Caution! Risk of injury from the machine slipping.

When operating the machine on inclined surfaces, the machine can slip and tip over. This can injure people and damage the machine.

- Only approach gradients from below.
- Stay above the machine during compaction work across the slope.
- Do not leave the designated operating position when the machine is in operation.
- Exercise the utmost degree of caution near abysses or slopes.
- Ensure stability.

Caution! Danger of being buried in ditches and pits.

When operating the machine in ditches and pits, side walls can collapse due to vibration. People can be buried and injured.

- Check side walls for stability before starting work.
- Pay close attention to sidewalls in ditches and pits.

Caution! Risk of injury to third parties when the machine is running.

When operating the machine, people in the work area can be injured.

- Never let the machine run unattended.
- Block off a large work area and keep unauthorized persons away.
- Make sure people in the work area keep a minimum distance of 2 meters from the running machine.

Caution! Risk of injury when starting with the recoil starter.

Improper handling when starting can cause injury to the operator or third parties.

- Only pull the starter handle on the recoil starter when there is sufficient space and no one is in the immediate vicinity.

4.8.2.1 Safety distances

Note! Material damage due to careless work.

Careless work can damage lines laid in the floor.

- When operating the machine, make sure that no gas, water or electrical lines or pipes are damaged.

Note! Material damage caused by vibrations.

Compaction work in the vicinity of buildings can lead to building damage.

- Check all possible effects and vibrations on surrounding buildings beforehand.
- Observe the relevant regulations and rules for measuring, assessing and reducing vibrations, in particular DIN 4150-3.

Information! The manufacturer shall not be liable for any damage to buildings.

4.9 Safety features

Safety features protect the operator of this machine from being exposed to the existing hazards. These are barriers (separating protective devices) or other technical measures that serve to avert or reduce hazards.

Warning! Risk of injury due to modified or removed safety devices.

Modified or removed safety devices lose their protective function. People can be injured as a result.

- Operate the machine only when the safety devices are correctly installed and functional.
- Do not change or remove safety devices.
- Reattach safety and protective devices removed for maintenance/service (e.g. V-belt protection).

The V-belt guard **1** protects the operator against crushing and entrapment.

4.10 Service

Warning! Risk of injury from defective machine.

Machines that are not or improperly maintained/repaired may have defects that go unnoticed. This can cause personal injury and property damage.

- Observe maintenance intervals according to maintenance plan.
- Only have the machine repaired or serviced by technically trained personnel.
- Have work not listed in the maintenance plan carried out by the service partner.
- Replace worn or damaged machine parts immediately.
- Only use original spare parts and accessories. The operational safety of the machine is thus maintained.
- Carry out maintenance work in a clean and dry environment (e.g. workshop).
- Replace any missing, damaged or illegible safety labels immediately. Safety and information labels contain important information for the protection of the operator.
- Keep the machine clean.

Warning! Risk of injury due to modified or removed safety devices.

Modified or removed safety devices lose their protective function. People can be injured as a result.

- Operate the machine only when the safety devices are correctly installed and functional.
- Do not change or remove safety devices.
- Reattach safety and protective devices removed for maintenance/service (e.g. V-belt protection).

Caution! Risk of crushing/risk of burns when the machine is running.

Moving/rotating machine parts can cause crushing. Hot machine parts can cause burns if touched.

- Do not service, repair, adjust or clean the machine when it is switched on.
- Switch off the machine and let it cool down.

4.10.1 Threaded fittings

Caution! Risk of injury due to missing or loose screw connections.

Missing or loose screw connections can lead to loose machine parts. People can be injured as a result.

- All threaded fittings must comply with the specified specifications and be firmly bolted together.
- Observe the correct tightening torques.
- Screws and nuts must not be damaged, bent or deformed.
- Particular attention should be paid to the following:
  - Self-locking nuts and micro-encapsulated screws must not be reused after loosening. The fastening effect is lost.
  - Screw connections with thread-securing glue (e.g. Loctite) must be cleaned after loosening and provided with new adhesive before reuse.

Information! Follow the instructions given by the manufacturer of the thread-securing glue.

4.11 Vehicle fluids

Warning! Danger of scalding from hot operating materials.

Operating materials can become very hot after a short operation period. Contact with hot operating materials can lead to severe scalding.

- Switch off the machine and let it cool down.
- Use protective gloves.

Warning! Risk of fire and explosion from flammable cleaning agents.

Flammable detergents can cause fires and explosions. People can be injured as a result.

- Do not clean the machine and components with gasoline or other solvents.

Warning! Risk of fire from hydraulic fluid.

Hydraulic fluid is extremely flammable. Fires that occur can injure people and cause damage to property.

- Immediately shut down the machine if a leak is detected.

Caution! Risk of damage to health.

Operating materials can contain toxins that can severely damage the eyes, mucous membranes and skin on contact.

- Do not inhale vapors.
- Avoid eye and skin contact.
- Always wear protective goggles and gloves when handling operating materials.
- Consult a doctor immediately if operating materials get into your eyes.
- In case of skin contact, wash skin immediately with soap and water.
- Do not eat or drink while working with vehicle fluids.

Caution! Risk of injury from the pressurized hydraulic system.

Hydraulic systems can still be under pressure even after the machine has been switched off. People can be injured as a result.

- Switch off the engine and machine and let them cool down.
- Before disconnecting hydraulic connections, release the pressure from the hydraulic system.
- Put all controls in neutral.

Note! Danger of machine damage.

Contaminated operating materials (e.g. dirt, water) can lead to premature wear or machine failure.

- Do not contaminate operating materials.
- Replace contaminated operating materials.
- If vehicle fluids leak from the machine, stop operating the machine and have it repaired immediately by a service partner.

Environment Risk of environmental damage.

Operating materials that get into the ground, water bodies or sewage system can cause environmental damage.

- Line work surface with impermeable foil.
- Use collection containers for old operating materials.
- Dispose of discharged or spilled vehicle fuel in accordance with applicable environmental regulations.
- Clean the machine in a suitable place where the dirty waste water can be collected in an environmentally friendly manner.
- Collect contaminated water and dispose of it in an environmentally friendly manner.

4.12 Combustion engine

Warning! Risk of fire from hot engine parts and fuel.

Hot engine parts can ignite fuel and combustible material. This can cause severe burns to people and damage to property.

- Ensure that the exhaust system of the engine is free of flammable materials.
- Before refueling, switch off the engine and let it cool down.
- Do not spill fuel, wipe up spilled fuel immediately.
- Do not use jump start sprays. These can cause fire, misfires and engine damage.

Caution! Risk of burns from hot engine parts.

The engine surface and exhaust system can become very hot after only a short time. Persons can suffer burns on contact.

- Switch off the engine and let it cool down.

Note! Machine damage from incorrect, contaminated and leaking fuel.

- Use the correct type of fuel.
- Observe the prescribed mixing ratios for two-stroke engines.
- Use clean filling aids for refueling.
- Before start of work, check the engine for leaks and cracks in the fuel line, tank and filler cap.
- Do not start the defective engine. Replace damaged parts immediately.

Note! Machine damage due to incorrectly set engine speed.

- The preset engine speed must not be adjusted. This could lead to engine damage.

4.13 Starter battery

Warning! Fire and explosion hazard due to hydrogen gas.

Batteries can release explosive hydrogen gas. Persons may be seriously injured or killed due to this.

- Keep any kinds of sparks or flames away from the battery.
- Do not short circuit the battery.

Caution! Fire hazard due to short circuit.

Incorrect connection of the starter battery or bridging the poles can lead to a short circuit. This can cause the starter battery to catch fire and ignite the surrounding area. People can be burned and material damage can be caused.

- Avoid bridging the poles with tools.
- When disconnecting the starter battery, always disconnect the negative terminal first.
- Always connect the positive terminal first when connecting the starter battery. Fasten the terminal cover.

Caution! Fire hazard from fire, sparks and smoking.

This can cause personal injury and property damage.

- Fire, sparks and smoking are prohibited when handling starter batteries.

Note! Battery damage due to improper handling.

- Do not open the starter battery.
- For charging, observe the battery manufacturer's instructions.

Note! Battery damage due to vibration exposure.

The machine generates vibrations. Unsuitable starter batteries can be damaged by the vibration load.

- Only use the manufacturer’s starter batteries. These are vibration resistant and therefore suitable for high vibration loads.

5 Description of the Machine

5.1 Type plates and labels

5.1.1 Type label

A type label is permanently attached to the machine.

Other type labels

Furthermore, the following components of the machine are provided with their own type label:

- the combustion engine
- the machine control unit (Beacon)

Symbols on the type label

Various symbols and markings for national and international approvals can be shown on or next to the nameplate.

5.1.1.1 Labeling on the machine

Type label data

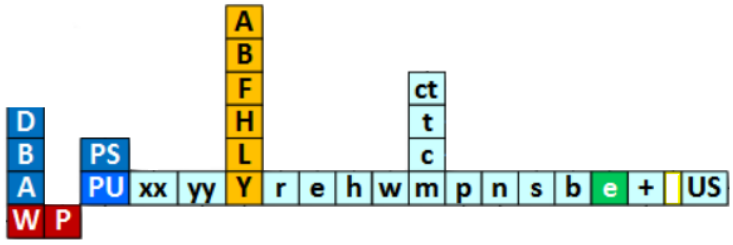
The type label contains information that uniquely identifies this machine. This information is required for ordering spare parts and for technical queries.

Enter the data on the machine in the following table:

Designation	Your details
Group - Type	
Material number (Mat. no.)	
Machine version (version)	
Machine number (machine no.)	
Year of construction	

5.1.1.2 Identifying the machine

The machine type is specified on the type plate and it is broken down as follows:



D	Diesel
B	Gasoline
A	Rechargeable battery
WP	Wacker plate (series)

PS	Running forward
PU	Reversible
xx	Compaction force [kN]
yy	Width [cm]
A	Honda
B	Briggs & Stratton
F	Farymann
H	Hatz
L	Lombardini/Kohler/Rehlko
Y	Yanmar
r	Remote controlled
e	Electric start
h	Operating hours meter
w	Water sprinkling
ct	Compamatic
t	Telematic
c	Compatec
m	Machine protection
p	Extension plates
n	Exhaust gas aftertreatment
s	Wheel set
b	Communication interface
e	Zero Emission
+	Additional function
XX	Country-specific version e.g. US

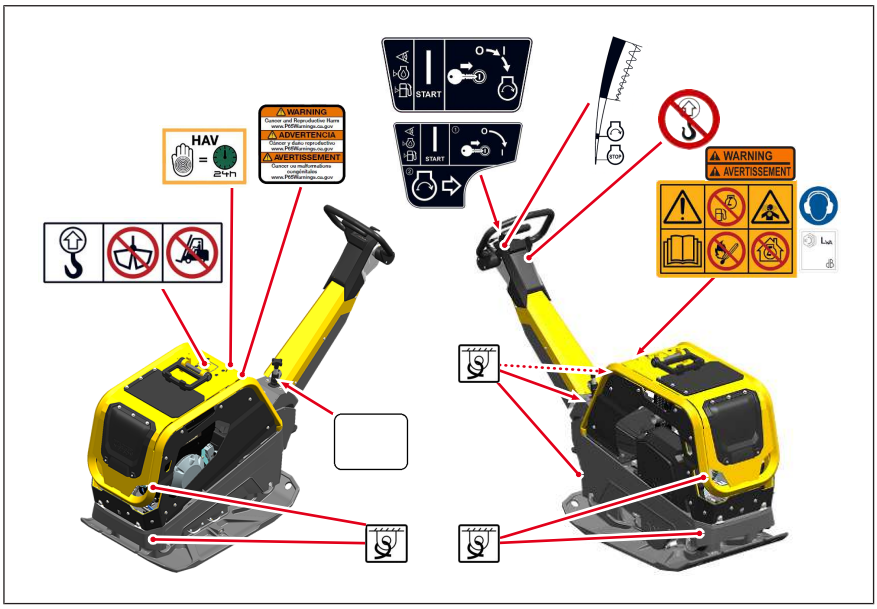
5.1.2 Safety and information labels

⚠ WARNING

Injury hazard due to missing or damaged labels and signs!

Safety labels contain important information to protect the operator.

- ► Keep all safety, warning and operating instructions on the machine in a clearly legible condition.
- ► Replace missing or damaged labels and signs immediately.



Warning of health risks

WARNING! CALIFORNIA: Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

For more information: www.P65Warnings.ca.gov

Warning!

Read the operator's manual.

Fire hazard!

- Smoking and open fire prohibited.
- Do not refuel with the machine running.

Danger of suffocation!

- Do not operate the machine in closed rooms.

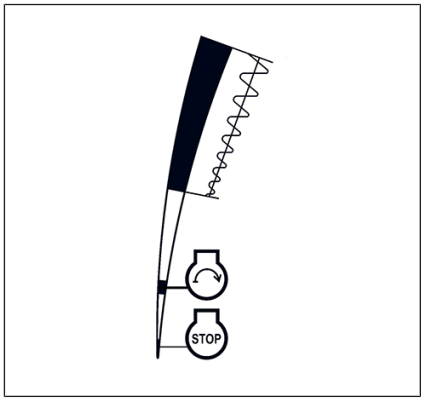
Use hearing protection.

Guaranteed sound power level.

No lifting point.

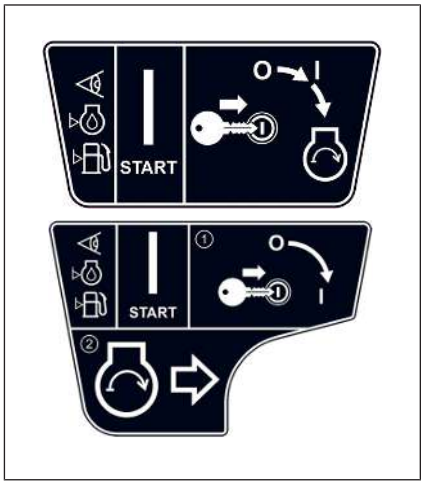
The falling machine can cause serious injuries.

- Only lift the machine at the central suspension with tested lifting gear and slinging gear (safety load hook).
- Do not lift the machine with an excavator bucket or forklift truck on the central suspension.



Throttle lever positions:

- Upper operating speed - Fast speed.
- Lower operating speed - Low speed.
- Idle run, machine stands still.
- Stop, switch off the machine.

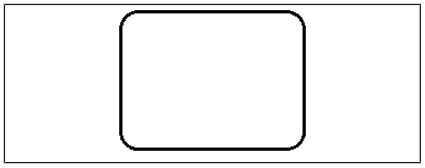


Brief instructions:

- Check engine oil level.
- Check fuel level.
- Start/Stop brief instructions.

Hand-arm vibration.

Tie-down points.



Type label.

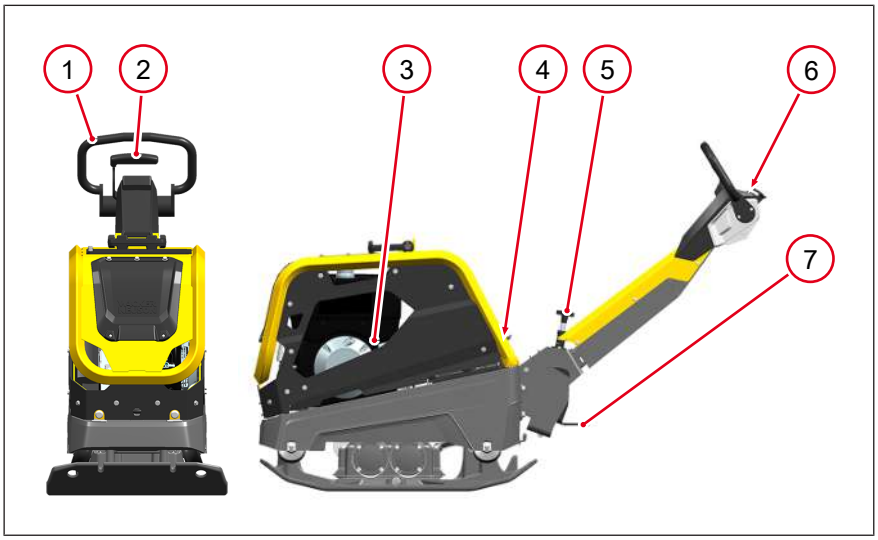
5.2 Components

1	Display unit
2	Shaft
3	Protective frame
4	Drive engine
5	Upper mass
6	Lower mass
7	V-belt guard
8	Operating hours meter
9	Indicator lights of Compatec system
10	Telematics module bracket
11	Extension plates
12	Fuel tank
13	Central suspension

5.3 Control elements

Always keep the displays and controls of the machine dry, clean and free of oil and grease.

Do not lock, manipulate or alter the machine operating elements in an inadmissible manner.



1	Operating bracket
2	Throttle lever
3	Reverse starter
4	Starter
5	Threaded spindle (drawbar height adjustment)
6	Start button
7	Drawbar lock

5.4 Display elements

5.4.1 Telematic module

The telematics modules records parameters of the global navigation satellite system (GNSS) as well as machine data and sends these to an Internet portal. Information about each machine can be visualized, documented and evaluated there.

Display of telematics module

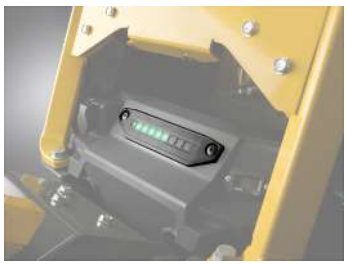
Display	Control light mode	Description
	The red control light flashes. The green control light is continuously illuminated.	Connection to the mobile network OK. GPS finds valid satellite position.
	The red control light does not illuminate. The green control light does not illuminate.	No power supply.

Display	Control light mode	Description
	The red control light is continuously illuminated. The green control light does not illuminate.	Power supply is OK, but no connection to the mobile network. GPS cannot find satellite position.
	The red control light flashes. The green control light does not illuminate.	Connection to the mobile network OK. • GPS cannot find satellite position.
	The red control light is continuously illuminated. The green control light is continuously illuminated.	Power supply is OK, but no connection to the mobile network. • GPS has valid satellite position.

5.4.2 Compatec system

NOTICE

The Compatec system serves only as a support for soil compaction and does not replace professional measurement of soil density by a specialist.



The display unit of the Compatec system shows the relative compaction progress during operation, by successive lighting up.

The more the indicator light illuminates, the higher is the compaction progress.

If the number of illuminating control lights does not increase any longer, the machine used cannot achieve further compaction.

An additional function is the overload indicator if the machine is operated on an excessively hard soil. The control lights flash alternately.

5.4.3 Compamatic system

The Compamatic system combines the compaction value of the Compatec system with the data transmission of the telematics module.

The following data is sent to an Internet portal:

- Compaction values
- Machine position, parameters of the global navigation satellite system (GNSS)
- Operating hours
- Machine number (4-digit)

If you have any questions regarding the following points, contact the service partner:

- Machine type
- Timestamp

5.4.4 Diagnostics system

The diagnostics system monitors different components of the machine. If the diagnostics system detects a fault or an error, the fault indicator light lights up on the drawbar head.

The control light on the drawbar head flashes red.

Serious faults are stored in the error memory and can be read out using the corresponding error codes.

Machines with electric start switch off the engine automatically or get deactivated.

5.4.5 Machine protection system

The acceleration load of the upper mass is monitored. If a threshold value corresponding to operation of the machine on extremely hard ground (e.g. concrete, asphalt) is exceeded, a warning is given to the operator that the vibratory plate is overloaded. The error code is saved in the error memory.

The control light on the drawbar head flashes red.

5.4.6 Display unit on the drawbar head

Control lights **1** indicate the operating status or an operational fault.

Displays	Description
	Error control light (red). Illuminates/flashes red when a fault is detected in the machine.
	Battery control light (red). Illuminates red in case of errors that are associated with the battery or the alternator.
	Diagnostics control light (yellow). Flashes yellow when the diagnostics mode is activated.
	Maintenance control light (yellow). Illuminates yellow to announce the upcoming maintenance interval for one minute at each start. Illuminates continuously yellow after each start when maintenance is due until the control light is replaced by the red maintenance control light.
	Maintenance control light (red). Illuminates continuously red after each start if the maintenance interval has been exceeded by 30 hours (15 hours for first-time engine oil change).

Displays	Description
	Oil pressure control light (red). Illuminates red when there is no oil pressure. Illuminates red in case of errors that are associated with the oil pressure.

5.5 App

5.5.1 WackerNeuson App

The free WackerNeuson App offers the option of retrieving the machine data via a Bluetooth® Low Energyconnection.

Connect the machine with the WackerNeuson App to get access to all WackerNeuson App functions.

Country-specific approval instructions of the radio device and machine-specific installation instructions for the EquipTrack Modul are given in the WackerNeuson App.

WackerNeuson App in AppleAppStore.

WackerNeuson App in GooglePlayStore.

6 Transportation

6.1 Safety instructions for transport

⚠ WARNING

Hazard of falling!

The falling machine can cause serious injuries, e.g. by crushing.

- ► Wear protective equipment (gloves, safety shoes).
- ► Only use suitable and tested lifting gear and slings (safety hooks) with sufficient lifting capacity.
- ► Only lift the machine by the central suspension.
- ► Secure the machine safely to the lifting gear.
- ► Do not lift the machine with an excavator bucket or forklift truck on the central suspension.
- ► Do not lift the machine by the drawbar.
- ► Leave the danger zone when lifting, do not stand under suspended loads.

⚠ WARNING

Fire hazard due to fuel!

Leaking fuel can catch fire and cause severe burns.

- ► Empty the fuel tank before transport.

6.2 Prerequisites and preparations

- Switch off the machine and let it cool down.
- Lock the drawbar.
- Use only suitable hoists with sufficient lifting capacity.
- Only use suitable lifting equipment with sufficient lifting capacity, see Technical Data on page 64.
- The transport vehicle must have a sufficient bearing load and a suitable loading surface.

6.3 Lifting the machine

⚠ WARNING

Risk of crushing!

If the machine is unstable, the lifting gear and the hoist may fail and fall down.

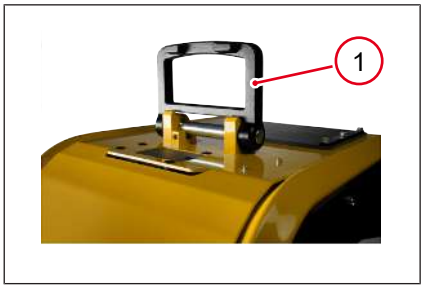
- ► Check the stability of the lifted machine before continuing work.

⚠ CAUTION

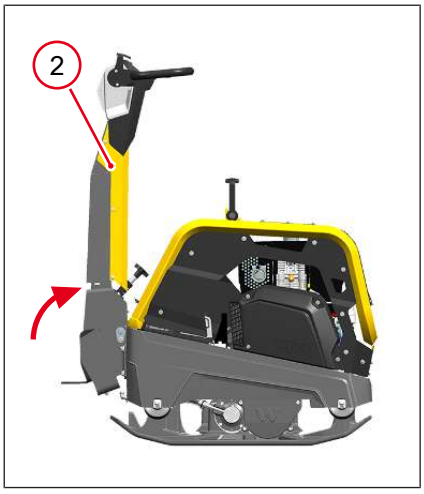
Danger of burns due to hot surfaces!

The machine, engine and exhaust can heat up quickly after a short time; that can lead to severe burns in case of contact with skin.

- ► Always allow the machine, engine and exhaust to cool down after use.
- ► Use heat-resistant protective gloves if the cooling phase cannot be maintained (e.g. due to an emergency).



1. To ensure safe lifting, appoint a competent instructor.
2. Only use certified lifting and fastening gear.
3. Attach suitable sling to central suspension **1**.
4. Load the machine into or onto the transport vehicle.

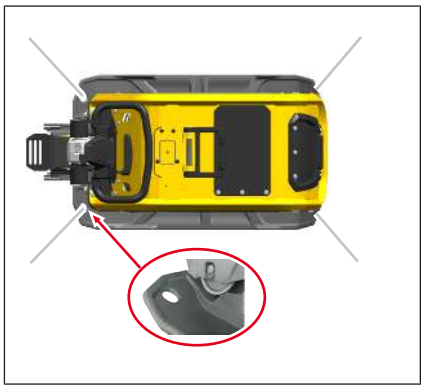


5. Shaft **2**.

6.4 Lashing the machine

NOTICE

Use anti-slip mats to secure the load.



Lashing to the lower mass (preferred variant)

✓ Lashing points are marked.

1. Only use the lashing points provided for this purpose to secure the machine.
2. Lash the machine at the lashing points as shown.
   ⇨ Suitable lashing aids, e.g. tensioning strap (1000 daN).

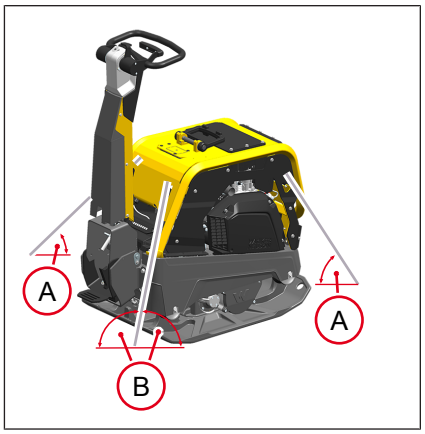
⇨ The machine is secured against unrolling, slipping and tipping over.

Lashing at the protective frame (alternative variant)

NOTICE

Angle specification for lashing aid

The following values are permitted for angles **A** and **B**: **A** = 30° +/-15°, **B** = 45° +/-25°.



1. Do not cross the lashing aids.
2. Lashing points are marked.
3. Only use the lashing points provided for this purpose to secure the machine.
4. Lash the machine at the lashing points as shown.
   ⇨ Suitable lashing aids, e.g. tensioning strap (1000 daN).
5. Check the lashing aids angle.

⇨ The machine is secured against unrolling, slipping and tipping over.

7 Commissioning

7.1 Safety instructions for operation

⚠ WARNING

Tipping hazard due to slipping or overturning machine!

At least 2/3 of the machine must be on a stable surface near edges.

► Take the machine out of operation and lift it back onto a stable surface.

⚠ WARNING

Improper handling may result in injury or serious material damage.

► Please read and follow all safety instructions in this operator's manual.

⚠ WARNING

Risk of hearing damage if the country-specific noise limit is exceeded!

Working with the machine without hearing protection can lead to hearing damage in the long-term.

► Wear ear protectors.

► Work attentively and cautiously when using hearing protection.

⚠ WARNING

Risk of injury due to missing or non-functioning safety devices!

► Only operate the machine if the safety devices are correctly installed and functioning.

► Do not change or remove safety devices.

⚠ CAUTION

Health hazard due to vibrations!

Physical impairments due to vibration.

► Take regular breaks.

⚠ CAUTION

Risk of collapse and spillage!

There is a risk of injury from falling or spilling when working on fracture, pit, dump and embankment edges, on trench edges and heels.

► Pay attention to side walls and their stability.

► Ensure stability.

Operation on inclined surfaces

NOTICE

Technical damage due to failure of engine lubrication!

► Do not exceed the maximum permissible inclination, see see Technical Data on page 64.

- Only approach gradients from below.

Ground conditions

The maximum dumping height depends on several factors of the ground conditions. An exact specification of this value is not possible.

▪ Determine the maximum fill height by compaction tests or soil samples.

Shaking in cobblestones

▪ To avoid damage to the machine or compaction material, use a sliding device, see Accessories on page 63.

7.2 Tests before commissioning

Information

Further information and detailed descriptions, see Maintenance on page 49.

Perform the following checks:

- Check machine and components for damage.
  – Do not put the damaged machine into operation. Damages and defects must be repaired immediately.
- Check the fuel level.
- Check fuel lines for leaks.
- Check air filter.
- Check the hydraulic oil level.
- Check engine oil fill level.
- Check reversing starter.
- Check to ensure the screw connections are firmly seated.
- Check control elements for functionality.

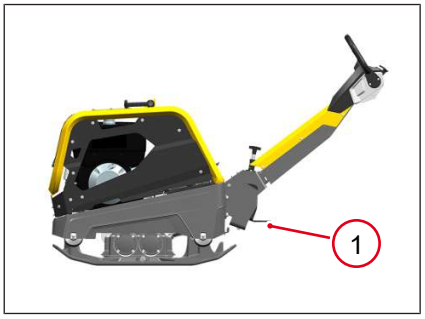
7.3 Release the drawbar lock

⚠ CAUTION

Risk of crushing the feet.

Injury due to crushing of feet between the spindle/shaft and foot pedal.

► Wear safety shoes.

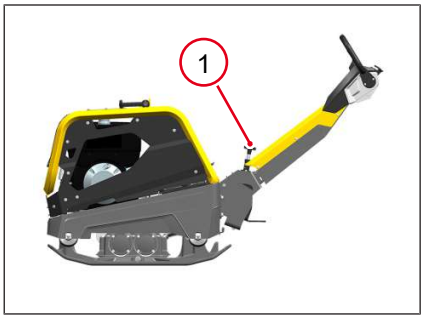


1. Hold the shaft with both hands on the operating bracket.
2. Raise drawbar locks **1** with slight pressure on the foot pedal.
3. Gradually lower the shaft till it is supported.

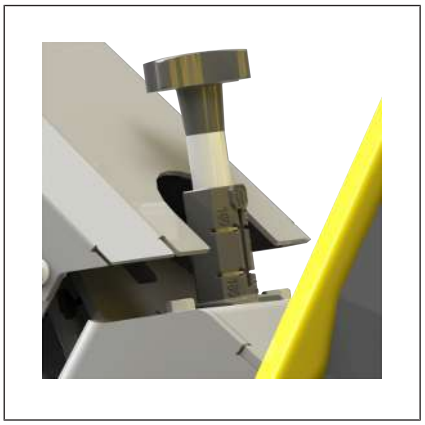
⇨ The optimum working height of the shaft can now be set.

7.4 Adjust shaft –shaft optimum working height

The optimum working height of the drawbar can be set by turning the threaded spindle.



1. Turn the threaded spindle **1**.

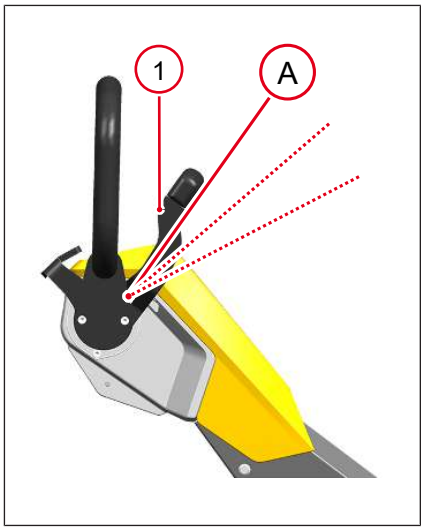


2. Scale to help set the optimum working height according to height.

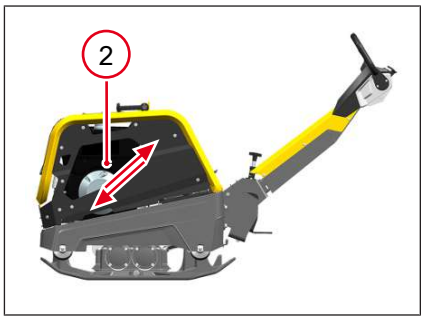
⇨ The optimum working height of the drawbar is set.

7.5 Putting into operation - Honda engine

7.5.1 Start with reversing starter



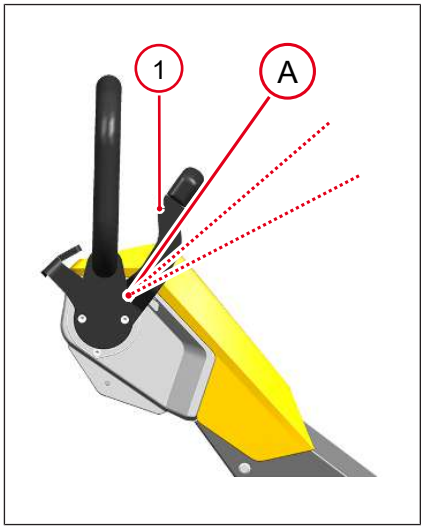
1. Move the throttle lever **1** into position **A**.
   ⇨ Throttle positions, see Select speed on page 47.



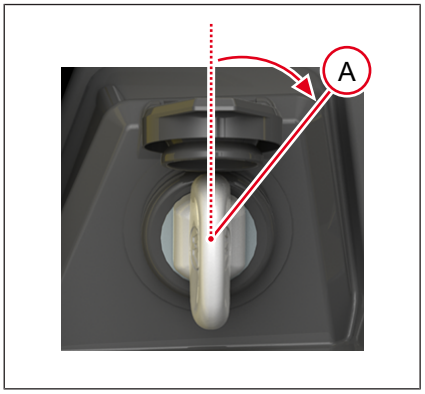
2. Pull the starting handle **2**.
3. Pull the starting handle slightly until resistance is felt, then pull it strongly. Slowly return the starting handle.
   ⇨ Engine runs.

⇨ The machine is ready for operation.

7.5.2 Electric start with start button

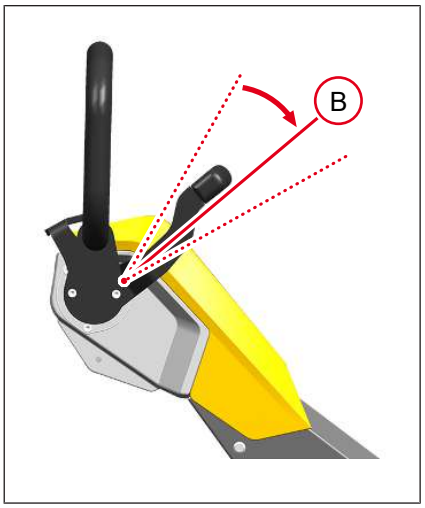


1. Move the throttle lever **1** into position **A.**
   ⇨ Throttle positions, see Select speed on page 47.



2. Insert the starting key in the starter.
3. Move the starting key to position **A**.

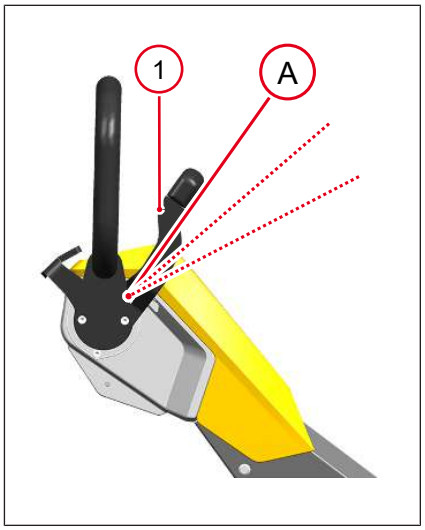
4. Press start button **2** (<2 sec).
   ⇨ The battery and oil pressure indicator light flashes briefly.
   ⇨ Engine starts.



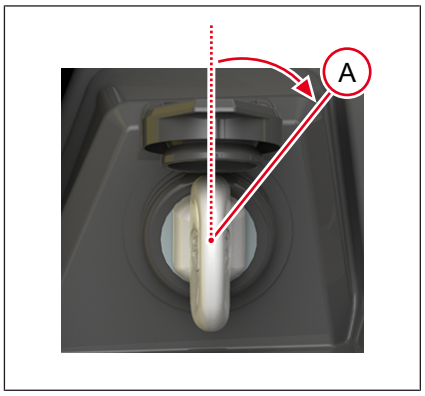
5. Move the throttle lever to position **B**.

⇨ The machine is ready for operation.

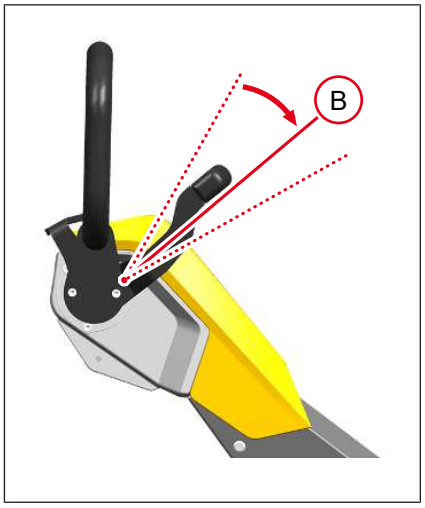
7.5.3 Electric start without start button



1. Move the throttle lever **1** into position **A**.
   ⇨ Throttle positions, see Select speed on page 47.
2. Insert the starting key in the starter.



3. Turn starting key over position **A** - against the resistance.
   ⇨ Then move the starting key into position **A.**



4. Move the throttle lever to position **B**.

⇨ The machine is ready for operation.

8 Operation

8.1 Operating the machine

The operator's designated location is behind the machine.

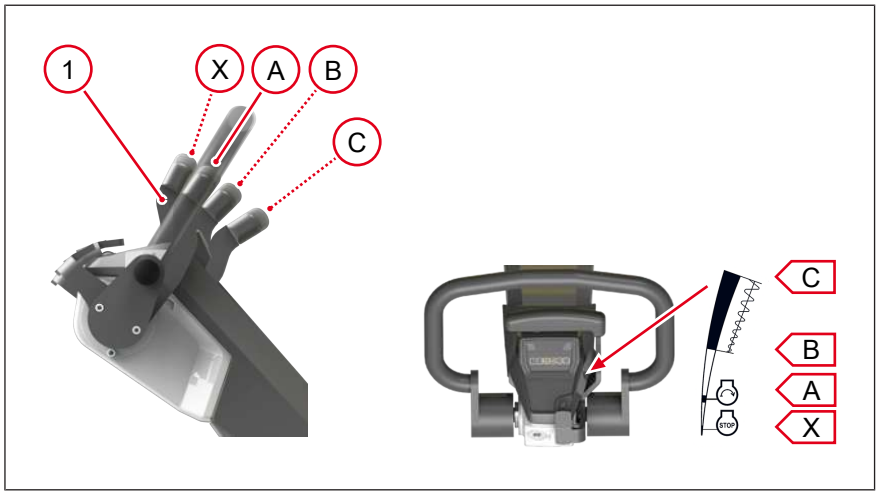
Guide and steer the machine using the switch bracket.

8.2 Select speed

NOTICE

Premature wear of the centrifugal clutch!

The speed range between the lower position **B** (slow speed) and position **A** (idle run) should be avoided.



Bring throttle **1** into the desired position by pressing or pulling.

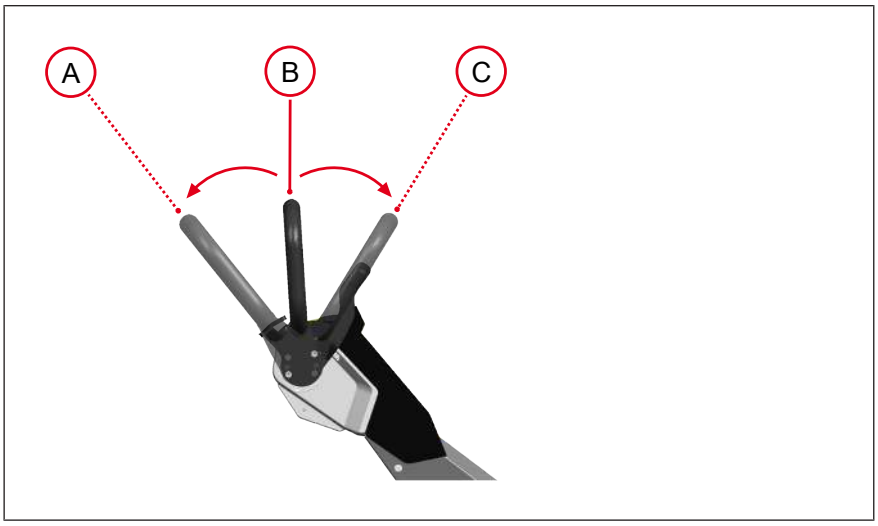
Position **X**: Stop, switch off the machine.

Position **A**: engine idle run, machine stands still.

Position **B**: slow speed.

Position **C**: fast speed.

8.3 Selecting the direction of travel

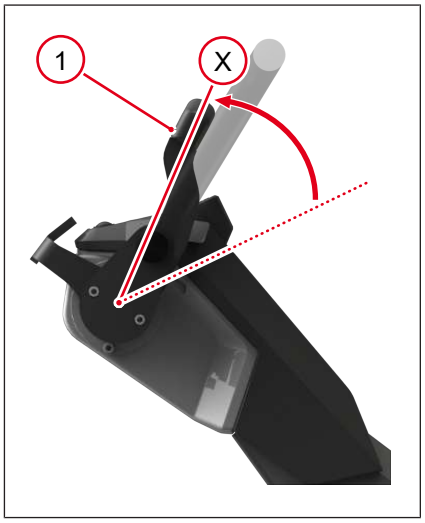


Position A: Reverse direction of travel.

Position B: standing vibration, neutral position of the operating bracket.

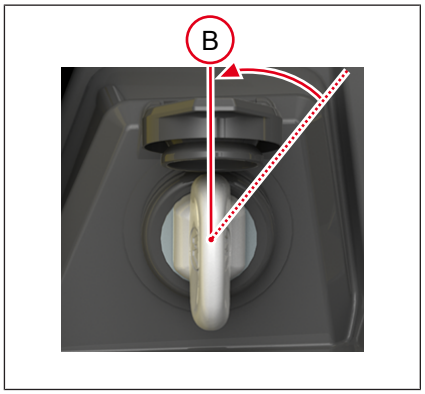
Position C: Forward direction of travel.

8.4 Take out of operation - Hatz engine



✓ The machine is on a level surface.

1. Move throttle lever **1** to position **X** – against the resistance.
   ⇨ Throttle positions, see Select speed on page 47.
   ⇨ Engine comes to a standstill.



2. Move the starting key to position **B**.
3. Remove the starting key.
4. Let the machine and engine to cool down.

⇨ The machine is out of operation.

9 Maintenance

9.1 Safety instructions for maintenance

⚠ WARNING

Improper handling may result in injury or serious material damage.

► Please read and follow all safety instructions in this operator's manual.

⚠ WARNING

Hazard of poisoning from exhaust fumes!

Exhaust fumes contain poisonous carbon monoxide, which can lead to unconsciousness or to death.

► Only perform maintenance work with the engine switched off and the machine decommissioned.

⚠ WARNING

Risk of injury from uncontrolled machine starting and moving parts!

► Only perform maintenance work with the engine switched off and the machine decommissioned.

⚠ WARNING

Fire and explosion hazard due to fuel and fuel vapors!

Fuel and fuel vapors can ignite or catch fire and cause serious burns.

► Do not smoke.

► Do not refuel near open fire.

► Switch off the engine and allow it to cool before refueling.

⚠ WARNING

Risk of fire and explosion when using flammable cleaning agents!

► Do not clean the machine and components with gasoline or other solvents.

⚠ WARNING

Burn hazard due to hot engine oil!

Splashes of hot oil can cause burns to the skin.

► Switch off the engine and let it cool down.

► Use protective gloves.

⚠ WARNING

Risk of injury due to missing or non-functioning safety devices!

- ► Only operate the machine if the safety devices are correctly installed and functioning.
- ► Do not change or remove safety devices.

⚠ CAUTION

Danger of burns due to hot surfaces!

The machine, engine and exhaust can heat up quickly after a short time; that can lead to severe burns in case of contact with skin.

- ► Always allow the machine, engine and exhaust to cool down after use.
- ► Use heat-resistant protective gloves if the cooling phase cannot be maintained (e.g. due to an emergency).

⚠ CAUTION

Health risk from fuel, lubricants and coolants!

- ► Do not inhale vapors.
- ► Avoid skin and eye contact.

NOTICE

Engine damage from operating the engine without an air filter!

If the engine is operated without an air filter, there is a risk of rapid engine wear.

- ► Do not operate the engine without an air filter or air filter cover.

Environment

Soil contamination due to vehicle fluid leakage or overflow.

- ► Line work surface with impermeable foil.
- ► Use collection containers for vehicle fluid.
- ► Dispose of vehicle fluid in an environmentally friendly manner in accordance with statutory regulations.

Environment

Avoid damage to the environment!

- ► Clean the machine in a suitable place where the dirty waste water can be collected in an environmentally friendly manner.
- ► Collect contaminated water and dispose of it in an environmentally friendly manner.

9.2 Maintenance plan

Maintenance activities on the machine	Daily (before use)	Monthly [a]	Yearly [a]	Hours [a]
Clean the machine. • Visual check for completeness. • Visual check for damage. • Visual check for leakages.	●			
Check control elements for ease of movement and function.	●			
Check the filling levels of the operating materials.	●			
Check threaded fittings.	●			
Check the central suspension for wear and damage.	●			
Check air filter intake area.	●			
Check – change the V-belt*.		●		
Lubricate the threaded spindle again.		●		
Drawbar head - check hydraulic oil level.*			●	
Replace exciter oil.*			●	250
[a] Depending on whichever interval occurs first. * Have this work carried out by a service partner.				

NOTICE

Motor damage due to incorrect valve clearance!

Operating with incorrectly adjusted valve clearance can result in rough operation, poor starting behavior as well as even engine damage.

► The valve clearance must for the first time be checked and adjusted after 25 operating hours by a service partner.

Hatz motor maintenance work	Daily (before use)	Monthly [a]	Yearly [a]	Hours [a]
Check engine oil fill level.	●			8 – 15 [2]
Check the intake area of the air filter.	●			8 – 15 [2]
Check the air filter insert.	●			
Check the water separator.	weekly			
Change the engine oil. [1]			●	250
Check the valve clearance. [1] *				250
Clean the cooling air area.				250
Check screw connections. [1]				250
Diagnosis of the motor management (only 1B50E). *				250
Replace the fuel filter. *				500
Clean the oil filter. *				1000

Hatz motor maintenance work	Daily (before use)	Monthly [a]	Yearly [a]	Hours [a]
[a] Depending on whichever interval occurs first.				
* Have this work carried out by a service partner.				
[1] After 25 hours for the first time.				
[2] Daily usage duration over 15 hours, repeat maintenance work.				

9.3 Maintenance work

Carrying out preparations:

1. Place the machine on a level surface.
2. Decommissioning the machine.
3. Let the machine cool down.

9.3.1 Cleaning the machine

Observe the following when cleaning the machine with a high-pressure cleaner:

1. Do not aim high-pressure cleaner directly at air intake area and electrical components.
2. Do not hold the high-pressure cleaner too close to the machine in order to avoid damage to labels and sensitive components.

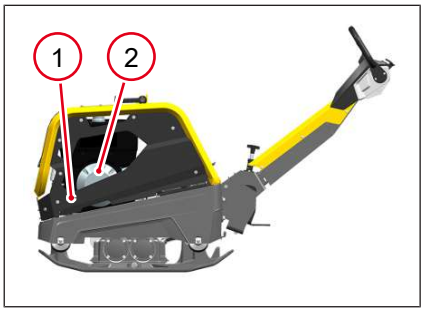
Visual check after cleaning:

1. Check cables, hoses and lines for leaks and chafe marks.
2. Check screw connections.
   ⇨ Replace damaged components.
3. Check all safety, warning and operating instructions for completeness.
   ⇨ Replace missing or damaged labels and signs immediately.

9.3.2 Checking and topping up the fuel level

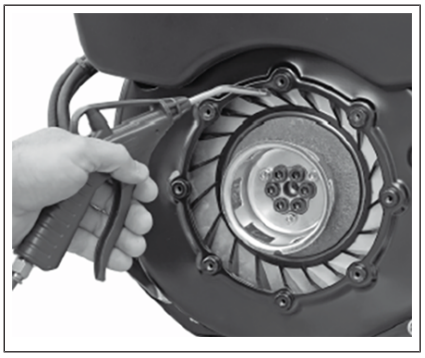
1. Remove dirt.
2. Open filler cap **1**.
3. Check the fuel level.
   ⇨ Max. fuel level to lower edge of filler neck.
4. Refuel if necessary, see Technical Data on page 64.
5. Close filler cap tightly.

9.3.3 Clean the engine cooling air area

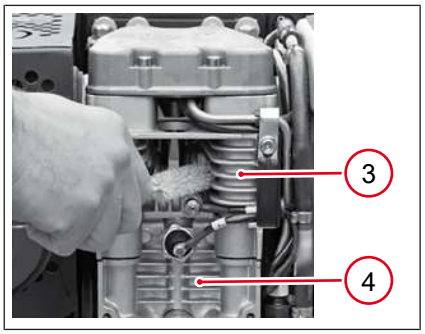


1. Remove side plate **1**.
2. Remove and clean radiator cap **2**.

3. Clean the fan blades with a suitable brush.



4. Carefully blow with compressed air.



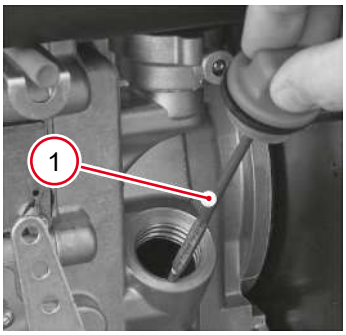
5. Also clean the cooling fins of cylinder head **3** and cylinder **4**.
6. Reattach the radiator cap and side plate.

9.3.4 Checking and topping up engine oil level

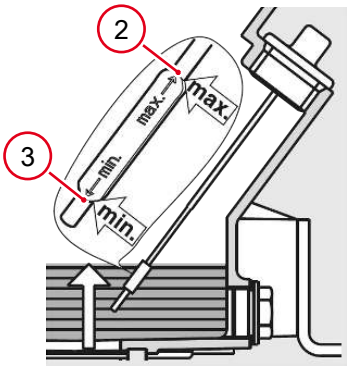
NOTICE

Danger of engine damage!

- ► Only change the oil when the engine is at operating temperature.
- ► Only use engine oil with the correct specification, see Technical Data on page 64.



1. Remove dirt.
2. The machine must be horizontal.
3. Unscrew engine oil dipstick **1**.
4. Wipe the engine oil dipstick with clean and fiber-free rags.



5. Insert the engine oil dipstick again.
6. Pull out the engine oil dipstick again.
7. Check engine oil fill level.
   ⇨ If the engine oil level is at the lower fill level limit **3**, top up engine oil if necessary, see Technical Data on page 64.
8. Fill engine oil to the upper fill level limit **2**, do not overfill.
9. Tighten the engine oil dipstick again.

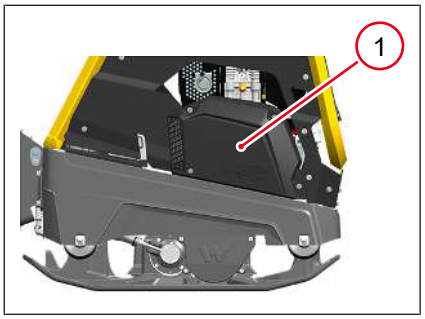
9.3.5 Replacing engine oil

✓ Place the machine on a suitable surface.
✓ Provide a suitable container for draining the used oil.

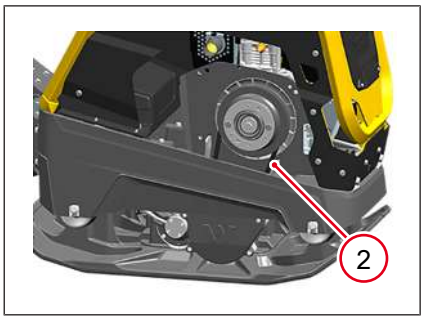
1. Open the rubber cover **X**.
2. Route the motor oil drainage hose through opening **1** intended for it.
3. Open screw connection **2** at the end of the hose.
4. Allow the used oil to drain completely in the tank provided.
5. Turn back the screw connections.
6. Push back the drainage hose through the opening and fix the hose.
7. Fill in new engine oil, see Checking and topping up engine oil level on page 53.

⇨ Dispose of used oil appropriately.

9.3.6 Check V-belt



1. Remove V-belt protection **1**.



2. Check the V-belt **2** carefully for damage, cracks and cuts.
3. Attach V-belt guard, tightening torque 25 Nm.

9.3.7 Check screw connections

NOTICE

Engine damage due to improper tightening of screws.

Improperly tightened screws can damage the engine.

- ► Do not tighten the cylinder head fastening.
- ► The adjusting screws on the engine speed controller and on the fuel injection system have locking varnish and may not be retightened or adjusted.
- ► Retighten only loose screw connections. Screw connections can be secured with locking glue or tightened with a defined torque. Retightening fixed screw connections can cause damage.

1. Check that the screw connections are in good condition and fit firmly.
2. Retighten the loose screw connections.

9.3.8 Check the water separator

NOTICE

Machine malfunctions

Water in the fuel may cause functional disruptions and damage.

The machine is equipped with a water separator on the fuel filter. The water separator on the fuel filter must be checked regularly.

1. Check the sight glass.
2. Drain discharged water as required.

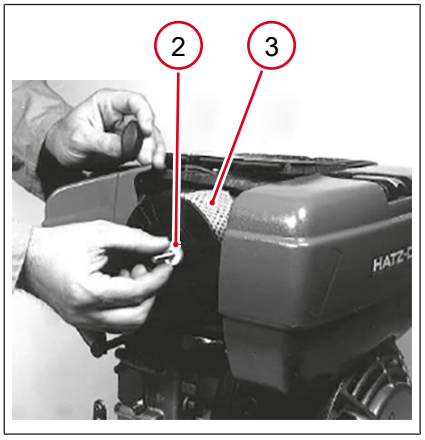
9.3.9 Check the intake area of the air filter

1. Open the cover **1**.

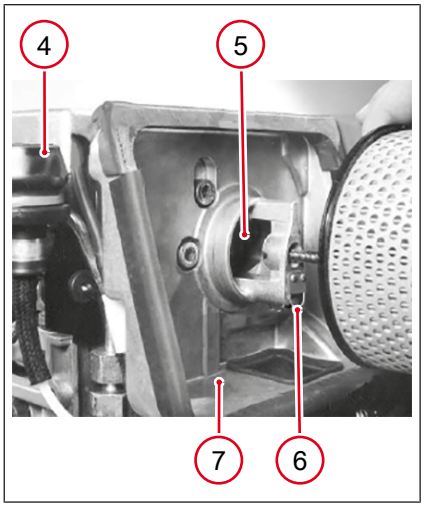
2. Remove air filter lid **2**.
3. Check the intake area for coarse contamination such as leaves or heavy dust accumulation; clean if necessary.
4. Install air filter cover.
5. Do not tighten the knurled screw. It can cause damage to the paper structure.

9.3.10 Clean and check the air filter insert

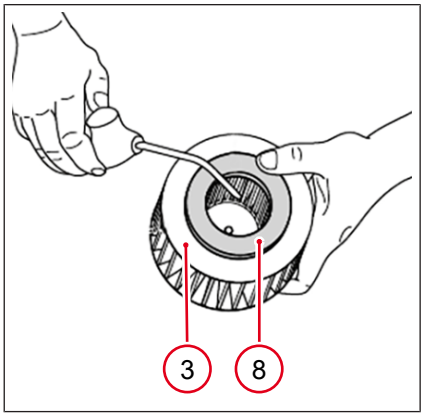
1. Open cover **1** and remove air filter lid.



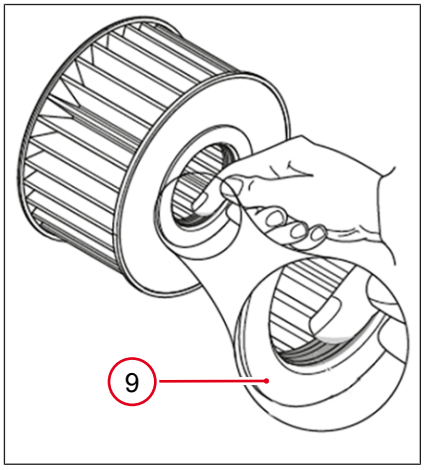
2. Unscrew knurled nut **2** and remove air filter insert **3**.



3. Clean the filter housings **7** and air filter lid. Strictly avoid dirt or other foreign bodies entering in the suction opening **5** to the engine.
4. In a design with air filter maintenance display **4,** check the valve plate **6** for condition and cleanliness.

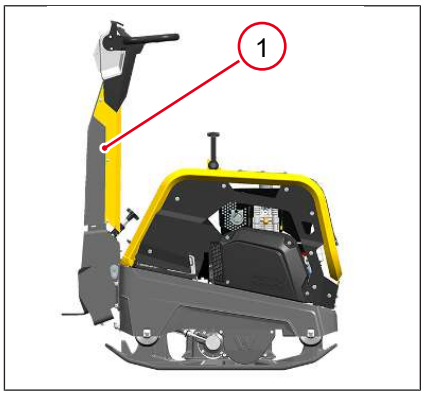


5. Blow out the air filter insert **3** with dry compressed air from inside to outside till dust is no longer released.
6. Check seal **8** of the air filter insert for damage.
7. Check air filter insert for tears or other damage by holding the insert at an angle against light or illuminating with a lamp; replace in case of damage.
8. Replace the air filter insert if the dirt is wet or oily.

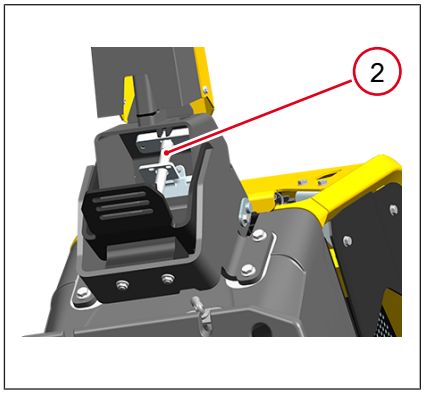


9. Slightly wet the sealing surface with grease or engine oil for easy assembly and disassembly of the air filter insert. Do not wet the front side **9**.
10. Reassemble in reverse order.
11. Install air filter cover.
12. Fold down the cover.

9.3.11 Lubricate the threaded spindle again



1. Folder the shaft **1** up as shown.



2. Grease the threaded spindle **2** with industrial grease.

10 Troubleshooting

10.1 Troubleshooting machine

⚠ WARNING

Danger to life due to unauthorized troubleshooting!

- ► If faults occur on this machine which are not described in this operator's manual, contact the service partner.
- ► Do not rectify faults on your own.

Fault	Possible cause	Remedy
The engine cannot be started.	Starter is defective.	Have the machine repaired.*
	Starter is defective.	
	Discharge the starter battery.	Charge the starter battery or carry out jump start.
	Engine oil level too low.	Add engine oil.
	Not enough fuel.	Refill with fuel.
	The fuel filter is soiled.	Replace fuel filter.*
	Start button defective.	Have the machine repaired.*
	Angle sensor defective (in electronic injection).	
The engine cannot be started using the throttle lever.	The Bowden cable is defective or incorrectly adjusted (in mechanical injection).	Repair the Bowden cable.*
The engine runs unevenly.	The fuel filter is soiled.	Replace fuel filter.*
The engine smokes and does not produce any power.	Soiled air filter.	Clean air filter replace if necessary.
The charging control light does not illuminate.	The alternator is defective.	Have the machine repaired.*
	(Charging) controller is defective.	
Switching the travel direction to forward has become slower or is no longer possible.	Hydraulic oil level in the drawbar head is not right.	Have the machine repaired.*
No forward feed.	Mechanical fault.	Have the machine repaired.*
Loss of hydraulic oil.	Leakages.	Have the machine repaired.*
No vibration when the engine is running.	V-belt worn.	Change V-belt.*
The diagnostics menu cannot be called up.	The start button on the machine not pressed long enough.	Keep the start button on machine pressed firmly for at least 5 seconds without interruption.

Fault	Possible cause	Remedy
Compatec display unit (optional): the light run bar does not appear during initialization.	The Compatec display unit or cable harness is defective.	Have the machine repaired.*
Compatec - display unit (optional): flashing of both outer control lights.	The overload sensor or the electrical connection is defective.	
Compatec - display unit (optional): signaling during machine activation: after display of the light bar, the following flashing of all control lights does not occur.		
Telematics data is not transmitted.	Power supply interrupted.	Check the wiring harness.*
	The telematics setting in the control unit is not configured.	Configure the telematics setting in the control unit.*
* Have this work carried out by a service partner.		

10.2 Fault table for the display unit on the drawbar head

Display	Description	Possible cause	Remedy
	Error control light.		
	Illuminates/flashes red when a fault is detected in the machine.	Fault in the machine.	Read out error code and have it repaired using the remedy mentioned in the error code table.*
	Battery control light.		
	Illuminates red in case of errors that are associated with the battery or the alternator.	Error in the electrical system.	Have the machine repaired.*
	Oil pressure control light.		
	Illuminates red when starting the machine.	No oil pressure yet (no error).	
	Illuminates red in case of errors that are associated with the oil pressure.	The oil pressure switch or the electrical connection is defective.	Have the machine repaired.*
		Engine oil level is too low.	Fill the engine oil.
* Have this work carried out by a service partner.			

11 Shutdown

11.1 Temporary decommissioning

Information

Further information and detailed descriptions, see Maintenance on page 49.

Storage requirements

- Store dust-free and dry.
- Do not store outdoors.
- Protect from direct sunlight.
- Observe storage temperature, see Technical Data on page 64.
- Store in a locked place that is not accessible to children.

If the machine is stationary for more than 1 month, perform the following measures:

Entire machine	• Clean thoroughly. • If necessary, rectify all defects. • Check for leaks, rectify any defects if necessary.
Fuel tank	Plastic tank: • Drain fuel completely. Metal tank: • Refill with fuel.
Engine	• Check engine oil level, fill engine oil if necessary. • Check and clean air filter. • Clean fuel filter.
Components susceptible to corrosion	Oil and grease.

If the machine is shut down for more than 6 months, contact a service partner.

11.2 Final shutdown

If the machine is no longer in use and is shut down for good, all operating fluids must be drained.

Have the machine professionally dismantled and disposed of by a state-approved recycling company.

Professional disposal of this machine avoids negative effects on human health and the environment, helps with the targeted treatment of pollutants and makes it possible to recycle valuable raw materials.

11.2.1 Disposal of rechargeable batteries and starter batteries

For customers in EU countries

This battery is subject to the European directive on batteries and used batteries, as well as the relevant national laws. The battery directive provides the framework for an EU-wide treatment of batteries.

The battery is marked with the crossed-out garbage bin symbol. Furthermore, a marking of the pollutants used is included, where "Pb" stands for lead and "Cd" stands for cadmium.

Disposable batteries and rechargeable battery containing lithium can be recognized by the marking "Li" or "Li-Ion" for lithium.

Batteries must not be disposed of with normal household waste! End users must dispose of used batteries exclusively through the manufacturers and retailers or, if necessary, collection points specially set up for this purpose (legal return obligation). Retailers and manufacturers are obliged to take these batteries back and recycle them properly or dispose of them as hazardous waste (legal obligation to take them back).

The general business conditions (GBC) contain further specifications and must be observed.

For customers in other countries

The manufacturer recommends that the battery be disposed of in an environmentally friendly manner in a separate collection rather than in the normal household waste. National laws or regional regulations may also require batteries to be disposed of separately. Disposal of the battery in accordance with national regulations must therefore be ensured.

12 Accessories

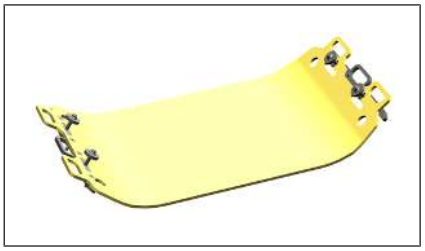
12.1 Accessories

⚠ CAUTION

Risk of injury and possible machine damage!

Use of non-original spare parts or accessories can lead to injuries or machine damage.

- ► Only use original spare parts and accessories.
- ► In case of disregard, no liability will be accepted.



Slide mechanism

Surface guard for see Safety instructions for operation on page 42.

Extension plates

The working width of the machine can be increased or decreased using extension plates.

EquipTrack Module

Digital solution for seamlessly collecting operating data.

The recorded data can be viewed and analyzed via the WackerNeuson app, see WackerNeuson App on page 37.

13 Technical Data

13.1 General instructions

Information

For system technical reasons, empty columns can be displayed in the technical data, and numbers and letters that written in superscript or subscript may be displayed incorrectly, e.g:

- ► Sound power level LWA instead of L_{WA}
- ► Sound pressure level LpA instead of L_{pA}
- ► Vibration total value ahv instead of a_{hv}
- ► Carbon dioxide CO2 instead of CO_2
- ► Unit m/s2 instead of m/s^2

13.2 Noise and vibration data

The noise and vibration data listed have been determined in accordance with the following guidelines for the typical machine operating conditions / special test conditions and using harmonized standards:

- Machinery Directive 2006/42/EC
- Noise Emission Directive 2000/14/EC

During operational use, values may differ depending on the prevailing operating conditions.

Sound pressure level at operator station

- L_{pA} was determined according to EN ISO 11201 and EN 500-4.

Guaranteed sound power level

- L_{WA} was determined according to EN ISO 3744 and EN 500-4.

Weighted vibration total value hand-arm vibration

- a_{hv} was determined according to EN ISO 20643 and EN 500-4.

13.3 DPU52

Type	DPU5247H	DPU5247He DPU5247Heh
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Centrifugal force [kN]	52	52
Vibrations [Hz]	69	69
Vibrations [1/min]	4140	4140
Area output* [m2/h]	789,6	789,6
Flow [m/min]	28	28
Gradeability [%]	57,7	57,7
Length (drawbar in working position) [mm]	1780	1780
Width [mm]	470	470
Height [mm]	1449	1449

Type	DPU5247H	DPU5247He DPU5247Heh
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Underclearance [mm]	877	877
Operating weight [kg]	397	417
Nominal power** [kW]	7,1	7,1
Rated speed [1/min]	2700	2700
Exciter oil quantity [l]	0,75	0,75
Exciter oil type	75W-90 API GL-4	75W-90 API GL-4
Hydraulic oil quantity [l]	0,5	0,5
Hydraulic oil type	Renolin MR 520	Renolin MR 520
Operating temperature range [°C]	-15 - 40°C	-15 - 40°C
Storage temperature range [°C]	-15 - 40°C	-15 - 40°C
Sound pressure level at operator station LpA [dB(A)]	91	91
Sound power level LWA, measured [dB(A*	107	107
Sound power level LWA guaranteed [dB(A)]	108	108
Vibration total value ahv [m/s2]	< 2,5	< 2,5
Measurement uncertainty of the total vibration value ahv [m/s2]	0,5	0,5
* Depending on the soil conditions.		
** Corresponds to the installed effective power according to directive 2000/14/EG.		

Type	DPU5260H	DPU5260He DPU5260Heh
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Centrifugal force [kN]	52	52
Vibrations [Hz]	69	69
Vibrations [1/min]	4140	4140
Area output* [m2/h]	1008	1008
Flow [m/min]	28	28
Gradeability [%]	57,7	57,7
Length (drawbar in working position) [mm]	1780	1780
Width [mm]	600	600
Height [mm]	1449	1449
Underclearance [mm]	877	877
Operating weight [kg]	410	430
Nominal power** [kW]	7,1	7,1
Rated speed [1/min]	2700	2700
Exciter oil quantity [l]	0,75	0,75
Exciter oil type	75W-90 API GL-4	75W-90 API GL-4
Hydraulic oil quantity [l]	0,5	0,5
Hydraulic oil type	Renolin MR 520	Renolin MR 520
Operating temperature range [°C]	-15 - 40°C	-15 - 40°C
Storage temperature range [°C]	-15 - 40°C	-15 - 40°C
Sound pressure level at operator station LpA [dB(A)]	91	91

Type	DPU5260H	DPU5260He DPU5260Heh
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Sound power level LWA, measured [dB(A*	107	107
Sound power level LWA guaranteed [dB(A)]	108	108
Vibration total value ahv [m/s2]	< 2,5	< 2,5
Measurement uncertainty of the total vibration value ahv [m/s2]	0,5	0,5
* Depending on the soil conditions.		
** Corresponds to the installed effective power according to directive 2000/14/EG.		

Type	DPU5260Hp	DPU5260Hep DPU5260Hehp
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Centrifugal force [kN]	52	52
Vibrations [Hz]	69	69
Vibrations [1/min]	4140	4140
Area output* [m2/h]	1008	1008
Flow [m/min]	28	28
Gradeability [%]	57,7	57,7
Length (drawbar in working position) [mm]	1780	1780
Width [mm]	600	600
Height [mm]	1449	1449
Underclearance [mm]	877	877
Operating weight [kg]	427	437
Nominal power** [kW]	7,1	7,1
Rated speed [1/min]	2700	2700
Exciter oil quantity [l]	0,75	0,75
Exciter oil type	75W-90 API GL-4	75W-90 API GL-4
Hydraulic oil quantity [l]	0,5	0,5
Hydraulic oil type	Renolin MR 520	Renolin MR 520
Operating temperature range [°C]	-15 - 40°C	-15 - 40°C
Storage temperature range [°C]	-15 - 40°C	-15 - 40°C
Sound pressure level at operator station LpA [dB(A)]	91	91
Sound power level LWA, measured [dB(A*	107	107
Sound power level LWA guaranteed [dB(A)]	108	108
Vibration total value ahv [m/s2]	< 2,5	< 2,5
Measurement uncertainty of the total vibration value ahv [m/s2]	0,5	0,5
* Depending on the soil conditions.		
** Corresponds to the installed effective power according to directive 2000/14/EG.		

Type	DPU5275H	DPU5275He DPU5275Heh
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Centrifugal force [kN]	52	52

Type	DPU5275H	DPU5275He DPU5275Heh
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Vibrations [Hz]	69	69
Vibrations [1/min]	4140	4140
Area output* [m2/h]	1260	1260
Flow [m/min]	28	28
Gradeability [%]	57,7	57,7
Length (drawbar in working position) [mm]	1780	1780
Width [mm]	750	750
Height [mm]	1449	1449
Underclearance [mm]	877	877
Operating weight [kg]	430	450
Nominal power** [kW]	7,1	7,1
Rated speed [1/min]	2700	2700
Exciter oil quantity [l]	0,75	0,75
Exciter oil type	75W-90 API GL-4	75W-90 API GL-4
Hydraulic oil quantity [l]	0,5	0,5
Hydraulic oil type	Renolin MR 520	Renolin MR 520
Operating temperature range [°C]	-15 - 40°C	-15 - 40°C
Storage temperature range [°C]	-15 - 40°C	-15 - 40°C
Sound pressure level at operator station LpA [dB(A)]	91	91
Sound power level LWA, measured [dB(A*	107	107
Sound power level LWA guaranteed [dB(A)]	108	108
Vibration total value ahv [m/s2]	< 2,5	< 2,5
Measurement uncertainty of the total vibration value ahv [m/s2]	0,5	0,5
* Depending on the soil conditions.		
** Corresponds to the installed effective power according to directive 2000/14/EG.		

Type	DPU5247Hecb+ DPU5247Hehcb+ DPU5247Hectb+ DPU5247Hehctb+	DPU5260Hecb+ DPU5260Hehcb+ DPU5260Hectb+ DPU5260Hehctb+
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Centrifugal force [kN]	52	52
Vibrations [Hz]	69	69
Vibrations [1/min]	4140	4140
Area output* [m2/h]	774,4	1008
Flow [m/min]	28	28
Gradeability [%]	57,7	57,7
Length (drawbar in working position) [mm]	1780	1780
Width [mm]	470	600
Height [mm]	1449	1449
Underclearance [mm]	877	877

Type	DPU5247Hecb+ DPU5247Hehcb+ DPU5247Hectb+ DPU5247Hehctb+	DPU5260Hecb+ DPU5260Hehcb+ DPU5260Hectb+ DPU5260Hehctb+
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Operating weight [kg]	417	430
Nominal power** [kW]	7,1	7,1
Rated speed [1/min]	2700	2700
Exciter oil quantity [l]	0,75	0,75
Exciter oil type	75W-90 API GL-4	75W-90 API GL-4
Hydraulic oil quantity [l]	0,5	0,5
Hydraulic oil type	Renolin MR 520	Renolin MR 520
Operating temperature range [°C]	-15 - 40°C	-15 - 40°C
Storage temperature range [°C]	-15 - 40°C	-15 - 40°C
Sound pressure level at operator station LpA [dB(A)]	91	91
Sound power level LWA, measured [dB(A*	107	107
Sound power level LWA guaranteed [dB(A)]	108	108
Vibration total value ahv [m/s2]	< 2,5	< 2,5
Measurement uncertainty of the total vibration value ahv [m/s2]	0,5	0,5
* Depending on the soil conditions.		
** Corresponds to the installed effective power according to directive 2000/14/EG.		

Type	DPU5260Hecpb+ DPU5260Hehcpb+ DPU5260Hehcpb+ LOXAM DPU5260Hectpb+ DPU5260Hehctpb+	DPU5275Hecb+ DPU5275Hehcb+ DPU5275Hectb+ DPU5275Hehctb+
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Centrifugal force [kN]	52	52
Vibrations [Hz]	69	69
Vibrations [1/min]	4140	4140
Area output* [m2/h]	1008	1260
Flow [m/min]	28	28
Gradeability [%]	57,7	57,7
Length (drawbar in working position) [mm]	1780	1780
Width [mm]	600	750
Height [mm]	1449	1449
Underclearance [mm]	877	877
Operating weight [kg]	437	450
Nominal power** [kW]	7,1	7,1
Rated speed [1/min]	2700	2700
Exciter oil quantity [l]	0,75	0,75
Exciter oil type	75W-90 API GL-4	75W-90 API GL-4

Type	DPU5260Hecpb+ DPU5260Hehcpb+ DPU5260Hehcpb+ LOXAM DPU5260Hectpb+ DPU5260Hehctpb+	DPU5275Hecb+ DPU5275Hehcb+ DPU5275Hectb+ DPU5275Hehctb+
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Hydraulic oil quantity [l]	0,5	0,5
Hydraulic oil type	Renolin MR 520	Renolin MR 520
Operating temperature range [°C]	-15 - 40°C	-15 - 40°C
Storage temperature range [°C]	-15 - 40°C	-15 - 40°C
Sound pressure level at operator station LpA [dB(A)]	91	91
Sound power level LWA, measured [dB(A*	107	107
Sound power level LWA guaranteed [dB(A)]	108	108
Vibration total value ahv [m/s2]	< 2,5	< 2,5
Measurement uncertainty of the total vibration value ahv [m/s2]	0,5	0,5
* Depending on the soil conditions.		
** Corresponds to the installed effective power according to directive 2000/14/EG.		

Type	DPU5247Heb+ US DPU5247Hehb+ US DPU5247Hecb+ US DPU5247Hehcb+ US DPU5247Hectb+ US DPU5247Hehctb+ US DPU5247Hehtb+ US DPU5247Hetb+ US	DPU5260Heb+ US DPU5260Hehb+ US DPU5260Hecb+ US DPU5260Hectb+ US DPU5260Hehcb+ US DPU5260Hehctb+ US DPU5260Hehtb+ US DPU5260Hetb+ US
Engine type	**1B50E-T-3-150**	**1B50E-T-3-150**
Centrifugal force [kN]	52	52
Vibrations [Hz]	69	69
Vibrations [1/min]	4140	4140
Area output* [m2/h]	-	1008
Flow [m/min]	-	28
Gradeability [%]	57,7	57,7
Length (drawbar in working position) [mm]	1780	1780
Width [mm]	470	600
Height [mm]	1449	1449
Underclearance [mm]	877	877
Operating weight [kg]	417	430
Nominal power** [kW]	7,3	7,3
Rated speed [1/min]	2800	2800
Exciter oil quantity [l]	0,75	0,75
Exciter oil type	75W-90 API GL-4	75W-90 API GL-4

Type	DPU5247Heb+ US DPU5247Hehb+ US DPU5247Hecb+ US DPU5247Hehcb+ US DPU5247Hectb+ US DPU5247Hehctb+ US DPU5247Hehtb+ US DPU5247Hetb+ US	DPU5260Heb+ US DPU5260Hehb+ US DPU5260Hecb+ US DPU5260Hectb+ US DPU5260Hehcb+ US DPU5260Hehctb+ US DPU5260Hehtb+ US DPU5260Hetb+ US
Engine type	**1B50E-T-3-150**	**1B50E-T-3-150**
Hydraulic oil quantity [l]	0,5	0,5
Hydraulic oil type	Renolin MR 520	Renolin MR 520
Operating temperature range [°C]	-15 - 40°C	-15 - 40°C
Storage temperature range [°C]	-15 - 40°C	-15 - 40°C
Sound pressure level at operator station LpA [dB(A)]	91	91
Sound power level LWA, measured [dB(A*	107	107
Sound power level LWA guaranteed [dB(A)]	108	108
Vibration total value ahv [m/s2]	< 2,5	< 2,5
Measurement uncertainty of the total vibration value ahv [m/s2]	0,5	0,5
* Depending on the soil conditions.		
** Corresponds to the installed effective power according to directive 2000/14/EG.		

Type	DPU5260Hepb+ US DPU5260Hehpb+ US DPU5260Hecpb+ US DPU5260Hectpb+ US DPU5260Hehcpb+ US DPU5260Hehctpb+ US DPU5260Hehtpb+ US DPU5260Hetpb+ US	DPU5275Heb+ US DPU5275Hehb+ US DPU5275Hecb+ US DPU5275Hectb+ US DPU5275Hehcb+ US DPU5275Hehctb+ US DPU5275Hehtb+ US DPU5275Hetb+ US
Engine type	**1B50E-T-3-150**	**1B50E-T-3-150**
Centrifugal force [kN]	52	52
Vibrations [Hz]	69	69
Vibrations [1/min]	4140	4140
Area output* [m2/h]	-	-
Flow [m/min]	-	-
Gradeability [%]	57,7	57,7
Length (drawbar in working position) [mm]	1780	1780
Width [mm]	600	750
Height [mm]	1449	1449
Underclearance [mm]	877	877
Operating weight [kg]	437	450
Nominal power** [kW]	7,3	7,3
Rated speed [1/min]	2800	2800

Type	DPU5260Hepb+ US DPU5260Hehpb+ US DPU5260Hecpb+ US DPU5260Hectpb+ US DPU5260Hehcpb+ US DPU5260Hehctpb+ US DPU5260Hehtpb+ US DPU5260Hetpb+ US	DPU5275Heb+ US DPU5275Hehb+ US DPU5275Hecb+ US DPU5275Hectb+ US DPU5275Hehcb+ US DPU5275Hehctb+ US DPU5275Hehtb+ US DPU5275Hetb+ US
Engine type	**1B50E-T-3-150**	**1B50E-T-3-150**
Exciter oil quantity [l]	0,75	0,75
Exciter oil type	75W-90 API GL-4	75W-90 API GL-4
Hydraulic oil quantity [l]	0,5	0,5
Hydraulic oil type	Renolin MR 520	Renolin MR 520
Operating temperature range [°C]	-15 - 40°C	-15 - 40°C
Storage temperature range [°C]	-15 - 40°C	-15 - 40°C
Sound pressure level at operator station LpA [dB(A)]	91	91
Sound power level LWA, measured [dB(A*	107	107
Sound power level LWA guaranteed [dB(A)]	108	108
Vibration total value ahv [m/s2]	< 2,5	< 2,5
Measurement uncertainty of the total vibration value ahv [m/s2]	0,5	0,5
* Depending on the soil conditions.		
** Corresponds to the installed effective power according to directive 2000/14/EG.		

13.4 DPU62

Type	DPU6247H	DPU6247He DPU6247Heh
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Centrifugal force [kN]	62	62
Vibrations [Hz]	69	69
Vibrations [1/min]	4140	4140
Area output* [m2/h]	846	846
Flow [m/min]	30	30
Gradeability [%]	57,7	57,7
Length (drawbar in working position) [mm]	1780	1780
Width [mm]	470	470
Height [mm]	1449	1449
Underclearance [mm]	877	877
Operating weight [kg]	457	477
Nominal power** [kW]	7,1	7,1
Rated speed [1/min]	2700	2700
Exciter oil quantity [l]	0,75	0,75
Exciter oil type	75W-90 API GL-4	75W-90 API GL-4

Type	DPU6247H	DPU6247He DPU6247Heh
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Hydraulic oil quantity [l]	0,5	0,5
Hydraulic oil type	Renolin MR 520	Renolin MR 520
Operating temperature range [°C]	-15 - 40°C	-15 - 40°C
Storage temperature range [°C]	-15 - 40°C	-15 - 40°C
Sound pressure level at operator station LpA [dB(A)]	91	91
Sound power level LWA, measured [dB(A*	107	107
Sound power level LWA guaranteed [dB(A)]	108	108
Vibration total value ahv [m/s2]	< 2,5	< 2,5
Measurement uncertainty of the total vibration value ahv [m/s2]	0,5	0,5
* Depending on the soil conditions.		
** Corresponds to the installed effective power according to directive 2000/14/EG.		

Type	DPU6260H	DPU6260He DPU6260Heh
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Centrifugal force [kN]	62	62
Vibrations [Hz]	69	69
Vibrations [1/min]	4140	4140
Area output* [m2/h]	1080	1080
Flow [m/min]	30	30
Gradeability [%]	57,7	57,7
Length (drawbar in working position) [mm]	1780	1780
Width [mm]	600	600
Height [mm]	1449	1449
Underclearance [mm]	877	877
Operating weight [kg]	470	490
Nominal power** [kW]	7,1	7,1
Rated speed [1/min]	2700	2700
Exciter oil quantity [l]	0,75	0,75
Exciter oil type	75W-90 API GL-4	75W-90 API GL-4
Hydraulic oil quantity [l]	0,5	0,5
Hydraulic oil type	Renolin MR 520	Renolin MR 520
Operating temperature range [°C]	-15 - 40°C	-15 - 40°C
Storage temperature range [°C]	-15 - 40°C	-15 - 40°C
Sound pressure level at operator station LpA [dB(A)]	91	91
Sound power level LWA, measured [dB(A*	107	107
Sound power level LWA guaranteed [dB(A)]	108	108
Vibration total value ahv [m/s2]	< 2,5	< 2,5
Measurement uncertainty of the total vibration value ahv [m/s2]	0,5	0,5
* Depending on the soil conditions.		

Type	DPU6260H	DPU6260He DPU6260Heh
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
** Corresponds to the installed effective power according to directive 2000/14/EG.		

Type	DPU6260Hp	DPU6260Hep DPU6260Hehp
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Centrifugal force [kN]	62	62
Vibrations [Hz]	69	69
Vibrations [1/min]	4140	4140
Area output* [m2/h]	1080	1080
Flow [m/min]	30	30
Gradeability [%]	57,7	57,7
Length (drawbar in working position) [mm]	1780	1780
Width [mm]	600	600
Height [mm]	1449	1449
Underclearance [mm]	877	877
Operating weight [kg]	477	497
Nominal power** [kW]	7,1	7,1
Rated speed [1/min]	2700	2700
Exciter oil quantity [l]	0,75	0,75
Exciter oil type	75W-90 API GL-4	75W-90 API GL-4
Hydraulic oil quantity [l]	0,5	0,5
Hydraulic oil type	Renolin MR 520	Renolin MR 520
Operating temperature range [°C]	-15 - 40°C	-15 - 40°C
Storage temperature range [°C]	-15 - 40°C	-15 - 40°C
Sound pressure level at operator station LpA [dB(A)]	91	91
Sound power level LWA, measured [dB(A*	107	107
Sound power level LWA guaranteed [dB(A)]	108	108
Vibration total value ahv [m/s2]	< 2,5	< 2,5
Measurement uncertainty of the total vibration value ahv [m/s2]	0,5	0,5
* Depending on the soil conditions.		
** Corresponds to the installed effective power according to directive 2000/14/EG.		

Type	DPU6275H	DPU6275He DPU6275Heh
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Centrifugal force [kN]	62	62
Vibrations [Hz]	69	69
Vibrations [1/min]	4140	4140
Area output* [m2/h]	1350	1350
Flow [m/min]	30	30
Gradeability [%]	57,7	57,7

Type	DPU6275H	DPU6275He DPU6275Heh
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Length (drawbar in working position) [mm]	1780	1780
Width [mm]	750	750
Height [mm]	1449	1449
Underclearance [mm]	877	877
Operating weight [kg]	490	510
Nominal power** [kW]	7,1	7,1
Rated speed [1/min]	2700	2700
Exciter oil quantity [l]	0,75	0,75
Exciter oil type	75W-90 API GL-4	75W-90 API GL-4
Hydraulic oil quantity [l]	0,5	0,5
Hydraulic oil type	Renolin MR 520	Renolin MR 520
Operating temperature range [°C]	-15 - 40°C	-15 - 40°C
Storage temperature range [°C]	-15 - 40°C	-15 - 40°C
Sound pressure level at operator station LpA [dB(A)]	91	91
Sound power level LWA, measured [dB(A*	107	107
Sound power level LWA guaranteed [dB(A)]	108	108
Vibration total value ahv [m/s2]	< 2,5	< 2,5
Measurement uncertainty of the total vibration value ahv [m/s2]	0,5	0,5
* Depending on the soil conditions.		
** Corresponds to the installed effective power according to directive 2000/14/EG.		

Type	DPU6247Hecb+ DPU6247Hehcb+ DPU6247Hectb+ DPU6247Hehctb+	DPU6260Hecb+ DPU6260Hehcb+ DPU6260Hectb+ DPU6260Hehctb+
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Centrifugal force [kN]	62	62
Vibrations [Hz]	69	69
Vibrations [1/min]	4140	4140
Area output* [m2/h]	940.2	1080
Flow [m/min]	30	30
Gradeability [%]	57,7	57,7
Length (drawbar in working position) [mm]	1780	1780
Width [mm]	470	600
Height [mm]	1449	1449
Underclearance [mm]	877	877
Operating weight [kg]	477	490
Nominal power** [kW]	7,1	7,1
Rated speed [1/min]	2700	2700
Exciter oil quantity [l]	0,75	0,75
Exciter oil type	75W-90 API GL-4	75W-90 API GL-4

Type	DPU6247Hecb+ DPU6247Hehcb+ DPU6247Hectb+ DPU6247Hehctb+	DPU6260Hecb+ DPU6260Hehcb+ DPU6260Hectb+ DPU6260Hehctb+
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Hydraulic oil quantity [l]	0,5	0,5
Hydraulic oil type	Renolin MR 520	Renolin MR 520
Operating temperature range [°C]	-15 - 40°C	-15 - 40°C
Storage temperature range [°C]	-15 - 40°C	-15 - 40°C
Sound pressure level at operator station LpA [dB(A)]	91	91
Sound power level LWA, measured [dB(A*	107	107
Sound power level LWA guaranteed [dB(A)]	108	108
Vibration total value ahv [m/s2]	< 2,5	< 2,5
Measurement uncertainty of the total vibration value ahv [m/s2]	0,5	0,5
* Depending on the soil conditions.		
** Corresponds to the installed effective power according to directive 2000/14/EG.		

Type	DPU6260Hecpb+ DPU6260Hehcpb+ DPU6260Hectpb+ DPU6260Hehctpb+	DPU6275Hecb+ DPU6275Hehcb+ DPU6275Hectb+ DPU6275Hehctb+
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Centrifugal force [kN]	62	62
Vibrations [Hz]	69	69
Vibrations [1/min]	4140	4140
Area output* [m2/h]	1080	1350
Flow [m/min]	30	30
Gradeability [%]	57,7	57,7
Length (drawbar in working position) [mm]	1780	1780
Width [mm]	600	750
Height [mm]	1449	1449
Underclearance [mm]	877	877
Operating weight [kg]	497	510
Nominal power** [kW]	7,1	7,1
Rated speed [1/min]	2700	2700
Exciter oil quantity [l]	0,75	0,75
Exciter oil type	75W-90 API GL-4	75W-90 API GL-4
Hydraulic oil quantity [l]	0,5	0,5
Hydraulic oil type	Renolin MR 520	Renolin MR 520
Operating temperature range [°C]	-15 - 40°C	-15 - 40°C
Storage temperature range [°C]	-15 - 40°C	-15 - 40°C
Sound pressure level at operator station LpA [dB(A)]	91	91
Sound power level LWA, measured [dB(A*	107	107
Sound power level LWA guaranteed [dB(A)]	108	108

Type	DPU6260Hecpb+ DPU6260Hehcpb+ DPU6260Hectpb+ DPU6260Hehctpb+	DPU6275Hecb+ DPU6275Hehcb+ DPU6275Hectb+ DPU6275Hehctb+
Engine type	**1B50T-3-184B**	**1B50T-3-184B**
Vibration total value ahv [m/s2]	< 2,5	< 2,5
Measurement uncertainty of the total vibration value ahv [m/s2]	0,5	0,5
* Depending on the soil conditions.		
** Corresponds to the installed effective power according to directive 2000/14/EG.		

Type	DPU6247Heb+ US DPU6247Hehb+ US DPU6247Hecb+ US DPU6247Hectb+ US DPU6247Hehcb+ US DPU6247Hehctb+ US DPU6247Hehtb+ US DPU6247Hetb+ US	DPU6260Heb+ US DPU6260Hecb+ US DPU6260Hehb+ US DPU6260Hectb+ US DPU6260Hehcb+ US DPU6260Hehctb+ US DPU6260Hehtb+ US DPU6260Hetb+ US
Engine type	**1B50E-T-3-150**	**1B50E-T-3-150**
Centrifugal force [kN]	62	62
Vibrations [Hz]	69	69
Vibrations [1/min]	4140	4140
Area output* [m2/h]	-	-
Flow [m/min]	-	-
Gradeability [%]	57,7	57,7
Length (drawbar in working position) [mm]	1780	1780
Width [mm]	470	600
Height [mm]	1449	1449
Underclearance [mm]	877	877
Operating weight [kg]	477	490
Nominal power** [kW]	7,3	7,3
Rated speed [1/min]	2800	2800
Exciter oil quantity [l]	0,75	0,75
Exciter oil type	75W-90 API GL-4	75W-90 API GL-4
Hydraulic oil quantity [l]	0,5	0,5
Hydraulic oil type	Renolin MR 520	Renolin MR 520
Operating temperature range [°C]	-15 - 40°C	-15 - 40°C
Storage temperature range [°C]	-15 - 40°C	-15 - 40°C
Sound pressure level at operator station LpA [dB(A)]	91	91
Sound power level LWA, measured [dB(A*	107	107
Sound power level LWA guaranteed [dB(A)]	108	108
Vibration total value ahv [m/s2]	< 2,5	< 2,5
Measurement uncertainty of the total vibration value ahv [m/s2]	0,5	0,5

Type	DPU6247Heb+ US DPU6247Hehb+ US DPU6247Hecb+ US DPU6247Hectb+ US DPU6247Hehcb+ US DPU6247Hehctb+ US DPU6247Hehtb+ US DPU6247Hetb+ US	DPU6260Heb+ US DPU6260Hecb+ US DPU6260Hehb+ US DPU6260Hectb+ US DPU6260Hehcb+ US DPU6260Hehctb+ US DPU6260Hehtb+ US DPU6260Hetb+ US
Engine type	**1B50E-T-3-150**	**1B50E-T-3-150**
* Depending on the soil conditions.		
** Corresponds to the installed effective power according to directive 2000/14/EG.		

Type	DPU6260Hepb+ US DPU6260Hehpb+ US DPU6260Hecpb+ US DPU6260Hectpb+ US DPU6260Hehcpb+ US DPU6260Hehctpb+ US DPU6260Hehtpb+ US DPU6260Hetpb+ US	DPU6275Heb+ US DPU6275Hehb+ US DPU6275Hecb+ US DPU6275Hectb+ US DPU6275Hehcb+ US DPU6275Hehctb+ US DPU6275Hehtb+ US DPU6275Hetb+ US
Engine type	**1B50E-T-3-150**	**1B50E-T-3-150**
Centrifugal force [kN]	62	62
Vibrations [Hz]	69	69
Vibrations [1/min]	4140	4140
Area output* [m2/h]	-	1350
Flow [m/min]	-	30
Gradeability [%]	57,7	57,7
Length (drawbar in working position) [mm]	1780	1780
Width [mm]	600	750
Height [mm]	1449	1449
Underclearance [mm]	877	877
Operating weight [kg]	497	510
Nominal power** [kW]	7,3	7,3
Rated speed [1/min]	2800	2800
Exciter oil quantity [l]	0,75	0,75
Exciter oil type	75W-90 API GL-4	75W-90 API GL-4
Hydraulic oil quantity [l]	0,5	0,5
Hydraulic oil type	Renolin MR 520	Renolin MR 520
Operating temperature range [°C]	-15 - 40°C	-15 - 40°C
Storage temperature range [°C]	-15 - 40°C	-15 - 40°C
Sound pressure level at operator station LpA [dB(A)]	91	91
Sound power level LWA, measured [dB(A*	107	107
Sound power level LWA guaranteed [dB(A)]	108	108
Vibration total value ahv [m/s2]	< 2,5	< 2,5

Type	DPU6260Hepb+ US DPU6260Hehpb+ US DPU6260Hecpb+ US DPU6260Hectpb+ US DPU6260Hehcpb+ US DPU6260Hehctpb+ US DPU6260Hehtpb+ US DPU6260Hetpb+ US	DPU6275Heb+ US DPU6275Hehb+ US DPU6275Hecb+ US DPU6275Hectb+ US DPU6275Hehcb+ US DPU6275Hehctb+ US DPU6275Hehtb+ US DPU6275Hetb+ US
Engine type	**1B50E-T-3-150**	**1B50E-T-3-150**
Measurement uncertainty of the total vibration value ahv [m/s2]	0,5	0,5
* Depending on the soil conditions.		
** Corresponds to the installed effective power according to directive 2000/14/EG.		

13.5 Combustion motor

Engine manufacturer	Hatz
Engine type	1B50E-T-3-150
Combustion processes	four-stroke
Cooling	Air
Cylinder	1
Cubic capacity [cm3]	517
Inclined position max. [°]	25
Fuel type	Diesel
Fuel consumption [l/h]	2,1
Tank volume [l]	5
Oil specification	SAE 10W-40
Oil filling max. [l]	1,6
Output max. [kW]	7,9
RPM [1/min]	3600
Standard	ISO 3046-1 IFN
Exhaust-emission level	EPA Tier 4
* Determined value of the CO2 emission during engine certification without consideration of the applications on the machine.	

Engine manufacturer	Hatz
Engine type	1B50T-3-184B
Combustion processes	four-stroke
Cooling	Air
Cylinder	1
Cubic capacity [cm3]	517
Inclined position max. [°]	25
Fuel type	Diesel
Fuel consumption [l/h]	2,1
Tank volume [l]	5

Engine manufacturer	Hatz
Oil specification	SAE 10W-40
Oil filling max. [l]	1,5
Output max. [kW]	7,9
RPM [1/min]	3600
Standard	ISO 3046-1 IFN
Exhaust-emission level	EU Stage V
CO2 emission* [g/kWh]	888
* Determined value of the CO2 emission during engine certification without consideration of the applications on the machine.	

13.6 Conversion table

The following conversion tables enable the conversion of the metric values from the instructions, in particular the technical data, into the imperial.

Conversion table	
Volume units	
1 cm³	0.061 in³
1 m³	35.31 ft³
1 ml	0.034 US fl.oz.
1 l	0.26 gal.
1 l/min	0.26 gal./min
Length units	
1 mm	0.039 in
1 m	3.28 ft
Weights	
1 kg	2.2 lbs.
1 g	0.035 oz.
Pressure	
1 bar	14.5 psi
1 kg/cm²	14.22 lbs/in²
Force/output	
1 kN	224.81 lbf
1 kW	1.34 hp
1 PS	0.986 hp
Torque	
1 Nm	0.74 ft.lbs
Speed	
1 km/h	0.62 mph
Acceleration	
1 m/s²	3.28 ft./s²

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