User Manual

FERREX®

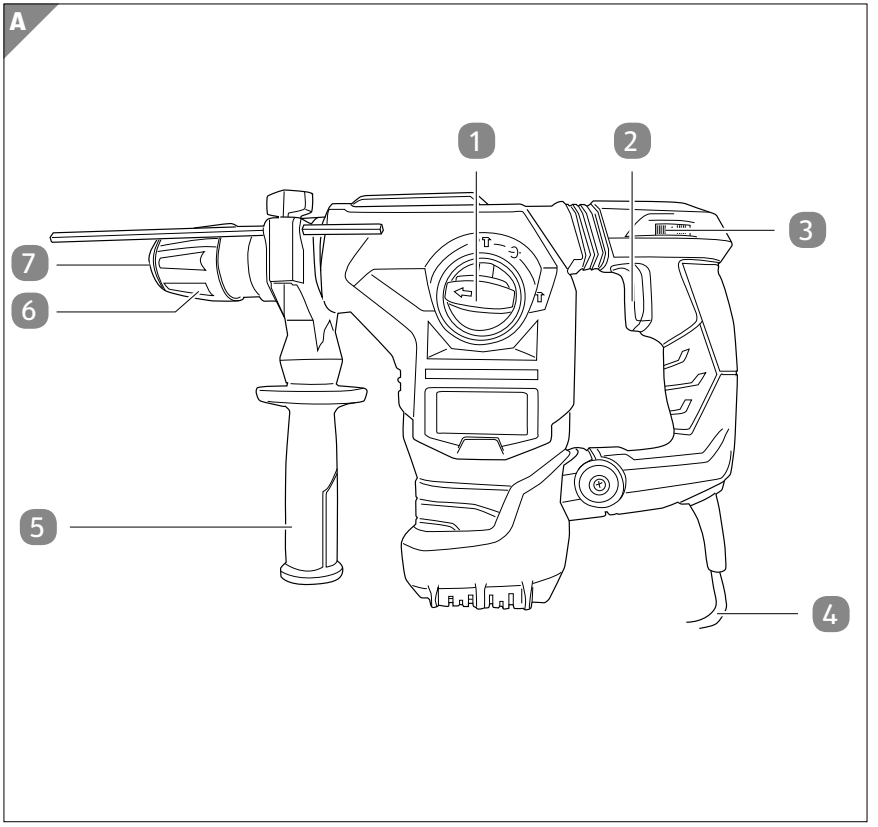
ROTARY HAMMER FPB 1500

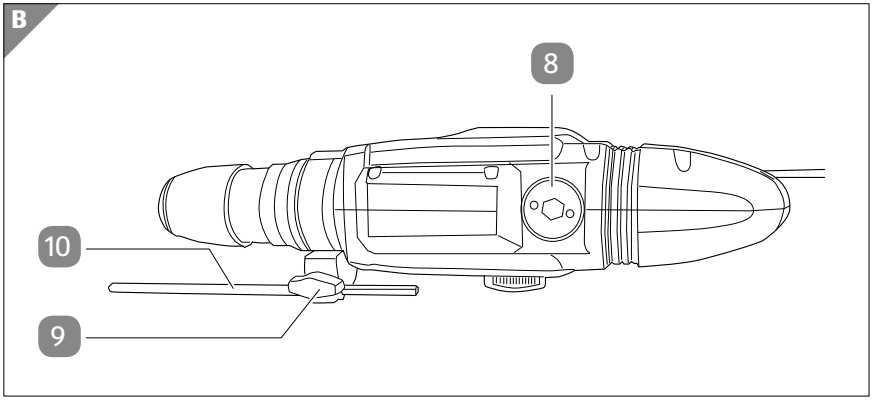
MANUAL DEVELOPED IN GERMANY
hanse control
myhansecontrol.com
User-friendly Manual
ID: #05007

Original instructions

Contents

Package contents





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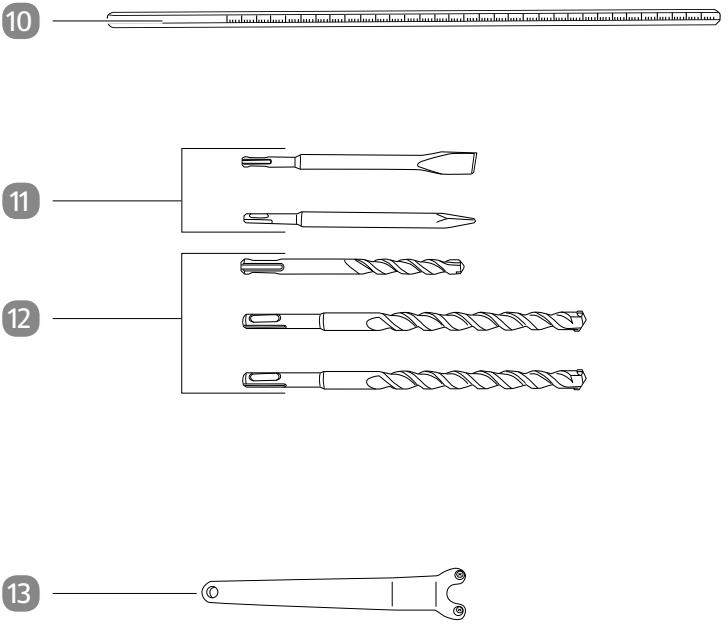

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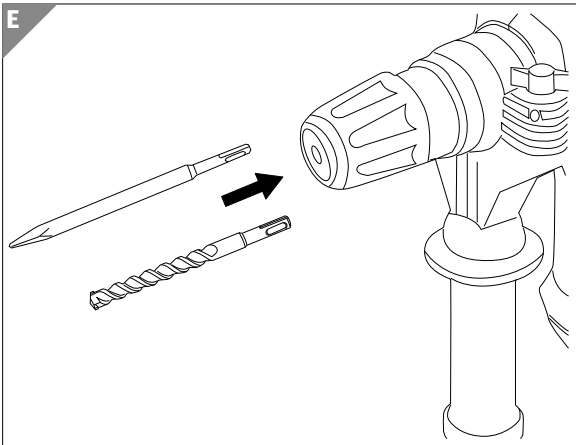

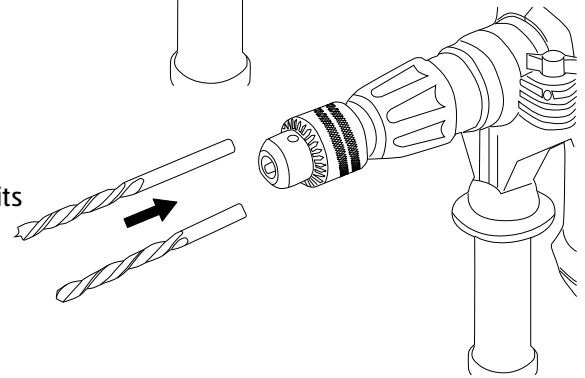

Spiral and wood drill bits are not included in the package contents.

NOTICE:

The keyed chuck may only be used without the hammer function!

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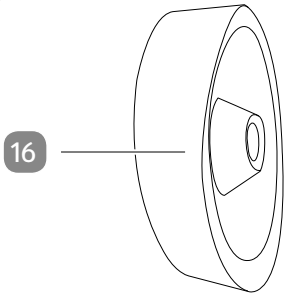

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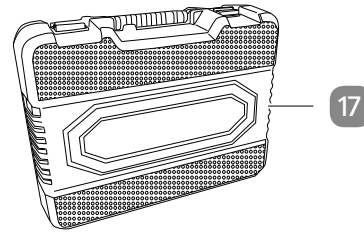


Components

1. Selector switch “Drilling/Hammer drilling/Set chisel working angle/Chiselling”
2. On/Off switch
3. Speed control
4. Mains cord
5. Extra handle (front handle)
6. Retaining bush
7. Tool holder (SDS plus system chuck)
8. Gear grease filler hole
9. Wing screw for depth stop
10. Depth stop
11. SDS chisel, 2× (1× flat chisel, 1× pointed chisel)
12. SDS drill bit, 3× (1× 12 mm, 1× 16 mm, 1× 18 mm)
13. Key for the gear grease filler hole
14. Chuck key
15. Keyed chuck with adapter
16. Dust cover
17. Storage case

General information

Reading and storing the user manual

This user manual accompanies this rotary hammer FPB 1500 (hereinafter referred to only as the “rotary hammer drill”). It contains important information about safety, usage and care.

Read this user manual carefully before using the rotary hammer drill. Pay particular attention to the safety instructions and warnings. Failure to comply with the instructions in this user manual may result in severe injury or damage to the rotary hammer drill.

Comply with all applicable local or national regulations concerning the use of this rotary hammer drill. Keep this user manual in a safe place for future reference. If you pass the rotary hammer drill on to third parties, please be absolutely sure to include this user manual.

Explanation of symbols

The following symbols are used in this user manual, on the rotary hammer drill or on the packaging.

This symbol provides you with useful supplementary information about the use.

Declaration of conformity (see “Declaration of conformity” section): Products marked with this symbol meet all applicable Community regulations for the European Economic Area.

Read the user manual.

Wear suitable, tight fitting clothing.

Wear protective goggles.

Wear a dust mask.

Wear ear protection.

Wear suitable secure footwear.

Wear suitable protective gloves.

Protection class II

Drilling in wood and metal without the hammer function

Hammer drilling in concrete and masonry

Setting the working angle

Chiselling in tiles and masonry

Safety

Explanation of notes

The following symbols and signal words are used in this user manual.

 **WARNING!**	Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
 **CAUTION!**	Designates a dangerous situation that may result in minor or moderate injury if not avoided.
NOTICE!	Warns of possible damage to property.

Proper use

The rotary hammer drill is only designed for drilling and hammer drilling in concrete, rock and masonry as well as for minor chiselling tasks. With the keyed chuck, the rotary hammer drill can also be used for drilling without the hammer function in wood and metal. It is only intended for private use and is not suitable for commercial use.

The tool holder is suitable for tools corresponding to the SDS plus system.

Any other applications are expressly prohibited and are deemed improper use.

Improper use

All applications with the device, which are not specified in the chapter “Proper use” are deemed improper use.

Neither the manufacturer nor the retailer can accept any responsibility for injury, loss or damage caused by misuse of this product of any kind.

Examples of misuse are given in the following non-exhaustive list:

- using the rotary hammer drill for other than the intended purposes. This can result in hazards and injuries;
- use of accessories that are not especially intended for this rotary hammer drill. Even if the accessories can be mounted on your rotary hammer drill, this is no guarantee for safe use.
  The warranty offered by the manufacturer is forfeited if different or non-original parts are used on the machine.

- changes to the rotary hammer drill;
- commercial or industrial use of the rotary hammer drill as well as in connection with the trades;
- use of the rotary hammer drill by persons under the age of 16;
- operation or maintenance of the rotary hammer drill by persons not familiar with how to handle the rotary hammer drill and/or who are not aware of the related risks;
- failure to observe the safety instructions and warnings as well as the assembly, operating, maintenance and cleaning instructions contained in this user manual;
- failure to comply with any regulations relating to accident prevention, occupational medicine or safety, which specifically and/or generally apply to the use of this rotary hammer drill;
- repairs of the rotary hammer drill performed by parties other than the manufacturer or a qualified professional;
- use of fitted tools whose permissible speed is not at least as high as the maximum speed specified for the rotary hammer drill. Accessories that rotate faster than permissible may break and be projected. There is a risk of injury.

The user of the device is liable for all damage to property and injury to persons incurred due to incorrect use.

Residual risks

Despite proper use, inconspicuous residual risks cannot be completely ruled out.

The following risks may arise due to the nature of the use:

- injury if long hair, articles of clothing or jewellery are caught by rotating parts or fitted tools;
- injury caused by projected workpieces or parts of work pieces;
- fire hazard if the motor is not sufficiently ventilated;
- injury to health attributed to hand-arm vibrations if the rotary hammer drill is used for a prolonged period of time or if the rotary hammer drill is not guided and maintained properly;
- lung injury if a suitable dust mask is not worn;
- hearing loss if suitable ear protection is not worn;
- eye injury caused by flying materials or parts thereof if no suitable eye protection is worn.

General power tool safety warnings

⚠ WARNING Read all the safety notes, instructions, illustrations and technical details supplied with this power tool. Failure to follow the safety notices and instructions may result in an electric shock, fire and/or severe injury.

Save all warnings and instructions for future reference.

The term "power tool" used in the safety instructions refers to mains-operated power tools (corded) and battery-powered power tools (cordless).

Work area safety

a) **Keep your work area clean and well lit.** *Cluttered or dark areas invite accidents.*

b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** *Power tools create sparks which may ignite the dust or fumes.*

c) **Keep children and bystanders away while operating a power tool.** *If you are distracted, you could lose control of the power tool.*

Electrical safety

a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** *Unmodified plugs and matching outlets will reduce risk of electric shock.*

b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** *There is an increased risk of electric shock if your body is earthed or grounded.*

c) **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*

d) **Do not use the cord for improper purposes such as for carrying the power tool, for hanging it up or for pulling or unplugging it from the socket. Keep cord away from heat, oil, sharp edges and moving parts.** *Damaged or entangled cords increase the risk of electric shock.*

e) **When operating a power tool outdoors, use only extension cords that are suitable for outdoor use.** *Use of a cord suitable for outdoor use reduces the risk of electric shock.*

f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** *Use of an RCD reduces the risk of electric shock.*

Personal safety

a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** *A moment of inattention while operating power tools may result in serious personal injury.*

b) **Use personal protective equipment. Always wear eye protection.** *Wearing personal protective equipment (such as a dust mask, non-slip safety shoes, a hard hat or ear protection) as appropriate to the tool and to your application can reduce the risk of injury.*

c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to your power source and/or battery pack, picking up or carrying the tool.** *Carrying power tools with your finger on the switch or connecting the power tool to a power supply while the switch is set to "on" may lead to accidents.*

d) **Remove any adjusting key or wrench before turning the power tool on.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*

e) **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*

f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** *Loose clothes, jewellery or long hair can be caught in moving parts.*

g) **If there is an option for installing dust suction devices and dust containers, these should be attached and used correctly.** *Use of dust collection can reduce dust-related hazards.*

h) **Do not be lulled into a false sense of security and ignore the safety rules for power tools, even if you are well acquainted with power tools, having used them frequently.** *Using power tools without due care and attention can cause serious injuries in a split second.*

Power tool use and care

a) **Do not overload the power tool. Use the correct power tool for your application.** *The correct power tool will do the job better and more safely at the rate for which it was designed.*

b) **Do not use the power tool if the switch does not turn it on and off.** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*

c) **Disconnect the plug from the power source and/or remove the rechargeable battery from the power tool before making any adjustments, changing insertion tools or storing the power tool.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*

d) **Store idle power tools out of the reach of children. Do not let any individual who is not familiar with the power tool or who has not read these instructions operate this power tool.** *Power tools are dangerous in the hands of untrained users.*

e) **Maintain power tools and insertion tools with care. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If any parts of the power tool are damaged, have them repaired before use.** *Many accidents are caused by poorly maintained power tools.*

f) **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*

g) **Use the power tool, accessories, insertion tools etc. in accordance with these instructions. taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from those intended could result in a hazardous situation.*

h) **Keep handles and handle surfaces dry, clean and free from oil and grease.** *Slippery handles and handle surfaces will prevent you from operating and controlling the power tools safely in unforeseen situations.*

Service

a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*

Special safety instructions for rotary hammer drills

a) **Wear ear protection.** *Noise may cause hearing loss.*

b) **Use the extra handles shipped with the device.** *Loss of control may cause injury.*

c) **Hold the device by the insulated gripping surfaces when performing work where the fitted tool may come into contact with hidden power lines or its own mains cord.** *Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.*

Supplementary safety instructions

Risk of electric shock!

A faulty electrical installation or excessive mains voltage may result in an electric shock.

- Only connect the rotary hammer drill if the mains voltage of the socket corresponds to the data on the rating plate.
- Only connect the rotary hammer drill to an easily accessible socket so that you can quickly disconnect it from the power supply in the event of a fault.
- Never touch the rotary hammer drill or the mains plug with damp hands.
- Lay the mains cord so that it does not pose a tripping hazard.
- Do not kink the mains cord and do not lay it over sharp edges.
- If the connection line is damaged, you must – in order to avoid risks – have it replaced by the manufacturer or its customer service representative.
- Before beginning work, check the work area for hidden power, water or gas lines. If necessary, use a pipe detector.
- Secure the workpiece with a suitable clamping device. This will ensure that it is more securely held than it would be with your hand.

- Immediately switch the rotary hammer drill off if the fitted tool jams. A tool that jams can trigger kickback.
- Never use the rotary hammer drill as a screwdriver when hammer drilling. It is prohibited to tighten and loosen screws, nuts and the like when hammer drilling.

Risk of injury!

Failure to follow the warning notes can result in injury.

- Store the rotary hammer drill in an area that is not accessible for children.
- Wear suitable protective clothing! Wear protective goggles and a protective helmet to protect yourself against airborne particles and splintered debris.
- Set up partitioning walls to protect nearby persons from airborne particles and splintered debris.
- Wear work gloves to prevent your fingers from being crushed and to prevent skin abrasions.
- Only connect the rotary hammer drill to the power supply after it has been switched off.
- Make sure that the rotary hammer drill's switch is set to the position that corresponds to the type of work you intend to perform.
- Only start the rotary hammer drill when it is pressed against a workpiece (wall, ceiling etc.).
- Disconnect the rotary hammer drill from the mains once you have finished work.
- Never touch the outer casing directly after drilling. It becomes very hot when drilling.
- Before performing work, always check whether the chisel or the drill bit are correctly secured in the tool holder.
- Check the tool holder regularly for wear or damage.
- Never remove dust, chips or splinters while the motor is running.
- Secure small workpieces so that they are not pulled along by the drill bit when drilling.

NOTICE!

Risk of damage!

Improper handling of the rotary hammer drill may result in damage to the rotary hammer drill or the fitted tools.

- Only place the rotary hammer drill on an easily accessible, flat, dry, heat-resistant and sufficiently stable work surface.
- Do not place the rotary hammer drill on the edge of the work surface.
- Never place the rotary hammer drill on or near hot surfaces (stovetops etc.).
- Ensure that the mains cord does not come into contact with hot parts.
- Never expose the rotary hammer drill to high temperatures (heaters etc.) or to effects of the weather (rain etc.).
- Never attempt to clean the rotary hammer drill by immersing it in water and do not use a steam cleaner to clean it. Otherwise you could damage the rotary hammer drill.
- Do not use aggressive solvents to clean the rotary hammer drill.
- Stop using the rotary hammer drill if its plastic parts exhibit cracks or breaks or are deformed. Only have a qualified workshop replace damaged parts with corresponding original spare parts.
- Operate the selector switch “Drilling/Hammer drilling/Set chisel working angle/Chiselling” only when the motor is not running. Switching when the motor is running can damage the gears.
- Always keep the connector cord away from your sphere of action by moving it back away from the rotary hammer drill.
- Avoid the motor from coming to a stop under load when drilling and screw driving.

First use

Checking the rotary hammer drill and package contents

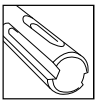
NOTICE!

Risk of damage!

If you are not cautious when opening the packaging with a sharp knife or other pointed objects, you may quickly damage the rotary hammer drill.

– Be very careful when opening.

1. Lift the rotary hammer drill out of the packaging with both hands.
2. Place the rotary hammer drill on a level, stable surface, e.g. on a workbench.
3. Remove the packaging material and all protective foils.
4. Check whether the rotary hammer drill or the individual parts exhibit damage. If this is the case, do not use the rotary hammer. Contact the manufacturer at the service address specified on the warranty card.
5. Check to make sure that the delivery is complete (see **Fig. A, B, C, D, F, G**).



The tool holder is suitable for tools in accordance with the SDS plus system.

Inserting a tool

The drill bit and chisel with a shaft corresponding to the SDS plus system can be inserted directly into the tool holder 7.

1. If necessary, clean the end of the drill bit 12 or the chisel 11 to be inserted and grease it lightly with drilling grease (not included in the package contents).
2. Point the tool holder up.
3. Insert the lightly greased end of the drill bit and turn it to the locking point with gentle pressure. It is not necessary to push the retaining bush 6 down in the process.

In case of drill bits for wood or metal, you must first mount the additional keyed chuck with adapter 15 (see chapter “Drilling without the hammer function”).

1. Insert the keyed chuck with adapter into the tool holder.
2. Insert a suitable drill bit into the keyed chuck and secure it with the chuck key 14.

NOTICE: The keyed chuck may only be used without the hammer function!

Removing a tool

1. Tool without keyed chuck 15:
   Push the retaining bush 6 back to remove the tool.
2. Tool with keyed chuck:
   Use the chuck key 14 to open the keyed chuck and remove the tool. Push the retaining bush 6 back to remove the keyed chuck.

Mounting and adjusting the depth stop

1. Loosen the wing screw 9 on the extra handle 5 until the depth stop 10 can be inserted in the clamping opening.
2. Pull the depth stop up to the tip of the inserted drill bit 12.
3. Push the tip of the drill bit and depth stop up against a flat surface and push the depth stop back by the desired drilling depth.
4. Fix the setting by tightening the wing screw. The front end of the depth stop will come into contact with the respective base once the set drilling depth is reached.
5. Drill a test hole if necessary.

Setting the extra handle

1. Loosen the extra handle 5 by turning it anticlockwise and turn it around the drill axis to a convenient lateral working position.
2. Turn the front handle clockwise to fix it in place.

Operation of the rotary hammer drill

Risk of accident and injury!

There is a risk of accident and injury in the event of accidental activation/ deactivation when inserting and removing tools as well as when transporting and cleaning the rotary hammer drill.

- Before inserting and removing tools, pull the mains plug to prevent the rotary hammer drill from accidentally activating.
- Never touch the inserted tool while it is still rotating.

NOTICE!

Risk of damage!

When performing overhead work, dust and other contaminants may penetrate the chuck and damage it.

- Before inserting the tool, push the dust cover over the tool shaft so that it collects the drill dust.
- Place the dust cover on the tool shaft so that the keyhole of the dust cover points towards the tip of the tool.

Switching the rotary hammer drill on and off and adjusting the speed

WARNING!

Risk of accident and injury!

Drilling into brick masonry could damage power lines, gas lines and water lines. There is a risk of electrocution, gas emission and water damage.

- Before drilling into walls and masonry, check that they do not contain power, gas or water lines.
- Always use both hands to hold the rotary hammer drill by the insulated handles to protect yourself against an electric shock.

1. Use the speed control 3 to set the motor to the desired speed.
   "6" indicates the maximum speed.
   Observe the speed recommendations of the accessory manufacturer with respect to working carefully with materials.
2. Push the On/Off switch 2.
   The rotary hammer drill will operate at the preselected speed.
3. Release the On/Off switch to switch off the rotary hammer drill.

This rotary hammer drill has a vibration damper to reduce vibrations.

Switching between the functions

CAUTION!

Risk of injury!

When hammer drilling, chiselling and drilling, rock splinters, airborne dust, borings and sparks may be produced.

- Wear protective goggles and ear protection when hammer drilling, chiselling or drilling.
- Also wear a dust mask when drilling in a material with a loose structure, slabs or concrete and masonry or when hammer drilling.

NOTICE!

Risk of damage!

Improper handling may damage the rotary hammer drill.

- Only switch between hammer drilling and normal drilling if the rotary hammer drill and the inserted tool have come to a stop.
- Only use the keyed chuck without the hammer function.

WARNING!

Risk of accident and injury!

Flat chisels do not have guiding cutting edges. Therefore, they cannot be used for drilling. The flat cutting edge also produces strong kickback forces when it is rotated.

- Always switch tool rotation off when working with a chisel tool.

Drilling without the hammer function

NOTICE!

Risk of damage!

Improper handling may damage the rotary hammer drill.

- Always push the release button before you turn the selector switch.

This function is suitable for drilling in wood and metal (wood and metal drill bits are not included in the package contents).

1. Insert the keyed chuck with adapter 15 into the tool holder 7.
2. Insert a suitable drill bit in the keyed chuck and use the chuck key 14 to secure it (see chapter "Inserting a tool").
3. Press the release button and turn the selector switch 1 to the symbol indicating "Drilling without the hammer function" .

Hammer drilling

This function is suitable for drilling in concrete, masonry, hard stone or rock. The additional keyed chuck is not needed.
You only need to apply slight pressure when hammer drilling. Applying too much pressure stresses the motor and could damage it.

1. Insert a drill bit with a shaft corresponding to the SDS plus system in the tool holder.
2. Press the release button and turn the selector switch 1 to the symbol indicating "Hammer drilling" .

A pneumatic impact mechanism generates the required impact for hammer drilling in rock. This electropneumatic principle generates a high level of hammer elasticity and permits recoilless work. Unlike the hammer drill, the drilling power does not depend on the contact pressure.

Chiselling

You cannot drill with the pointed and flat chisels. They are intended for removing dense, solid material, e.g. to create a groove for a cable in a wall or to remove tiles.
You only need to apply minimal contact pressure when chiselling. Applying too much pressure stresses the motor and could damage it.

1. Insert a suitable chisel 11 in the tool holder 7.
2. Adjust the angle of the flat chisel by pressing the release button, turning the selector switch 1 to "Setting chisel working angle" and rotating the chisel to a position suitable for working.
3. Press the release button and turn the selector switch to the symbol indicating "Chiselling" .
4. Place the chisel up against the material.
5. Switch the rotary hammer drill on. Start at a low hammer speed and increase it as needed.

Cleaning and maintenance

Risk of injury!

Accidentally starting the rotary hammer drill may result in severe injury.

– Always remove the mains plug from the socket before performing maintenance and cleaning.

Risk of electric shock!

Improperly handling the rotary hammer drill may result in severe injury.

– Before cleaning, pull the mains plug out of the socket.
– Make sure that no water or other liquids penetrate the inside of the rotary hammer drill.

Checking the rotary hammer drill

Check the condition of the rotary hammer drill regularly. Among other things, check to make sure:

– that the switches are not damaged,
– that the accessories are in proper condition,
– that the mains cord and the plug are not damaged,
– that the vents are unobstructed and clean. If applicable, use a soft brush to clean them.

After an operating time of approx. 5 hours, have a qualified professional open the gear grease filler hole 8 with the designated key 13 to ensure that there is enough grease. If necessary, have additional gear grease added to ensure that the device is adequately lubricated.

If you identify any damages, you must have them repaired by a specialist workshop to prevent risks.

Cleaning

NOTICE!

Risk of damage!

Improper handling of the rotary hammer drill may result in damage to the rotary hammer drill.

– Do not use any aggressive cleaners, brushes with metal or nylon bristles or sharp or metallic cleaning utensils such as knives, hard scrapers and the like. They could damage the surfaces.

1. Use a soft cloth or brush to clean the housing.
2. Clean the vents and the area around the tool holder 7.
3. Remove dust/chips by blowing them out with compressed air.

Storage

1. Clean the rotary hammer drill thoroughly before you put it into storage (see chapter “Cleaning”).
2. If possible, store the clean rotary hammer drill and the accessories in the enclosed storage case 17.

Transport

– Use the enclosed storage case 17 for transport.
– Secure the rotary hammer drill to prevent it from slipping when transporting it in a vehicle.

Troubleshooting

Problem	Possible cause	Solution
The rotary hammer drill cannot be started.	It is not connected to the mains. The mains plug is not inserted in the socket. The mains plug or mains cord 4 is damaged.	Connect it to the mains. Insert the mains plug into the socket. Have the defective mains plug/ defective mains cord replaced by a qualified workshop.
The tool does not fit in the chuck.	Wrong tool/wrong chuck.	Use or remove the keyed chuck 15 (see chapter “Inserting a tool”).
The tool/chuck is not rotating.	The selector switch 1 has not been set correctly.	Press the release button and turn the selector switch to the symbol indicating “Drilling without the hammer function” or “Hammer drilling”.
The drill bit 12 does not penetrate the material to be drilled into.	The hammer function has been deactivated. Wrong drill bit.	Press the release button and turn the selector switch 1 to the symbol indicating “Hammer drilling”. Use a rock drill bit for hammer drilling. Use the keyed chuck 15 and a metal drill to drill into metal. In this case, switch the hammer function off.
The chisel 11 is not moved.	The hammer function has been deactivated.	Press the release button and turn the selector switch 1 to the symbol indicating “Chiselling”.
The chisel 11 is rotating.	Chiselling mode has not been selected.	Attention! Risk of kickback! You must press the release button and turn the selector switch 1 to the symbol indicating “Chiselling”.

Technical data

Model:	FPB 1500
Model number:	WU5904343/WU5904344
Article number:	98995
Supply voltage:	230–240 V~/50 Hz
Nominal output:	1 500 W
Protection class:	II
Idle speed:	0-850 min^{-1}
Number of strokes (without load):	0–3 900 min^{-1}
Impact energy:	5 J
Max. drill diameter:	
in wood	40 mm
in concrete/rock/granite	32 mm
in steel	13 mm
Max. shank diameter for keyed chuck:	13 mm
Weight:	4.6 kg
Cable length:	300 cm

Noise/vibration information

WARNING!

Health hazard!

Working without ear protection and suitable protective clothing poses a health hazard.

– Wear ear protection and suitable protective clothing when working with the device.

Measured in accordance with EN 62841-1:2015, EN 62841-2-1:2018, EN 60745-2-6:2010. The noise at your workplace may exceed 85 dB(A); protective measures are necessary in this case (wear suitable ear protection).

Chiselling

- Sound pressure level L_{pA}: 93 dB(A)
- Sound power level L_{wA}: 104 dB(A)
- Uncertainty K: 3 dB(A)

Hammer drilling

- Sound pressure level L_{pA}: 90 dB(A)
- Sound power level L_{wA}: 101 dB(A)
- Uncertainty K: 3 dB(A)

Idle

- Sound pressure level L_{pA}: 91 dB(A)
- Sound power level L_{wA}: 102 dB(A)
- Uncertainty K: 5 dB(A)

- Vibration level $a_{h,D}$ (drilling in metal): 4.7 m/s²
- Vibration level $a_{h,HD}$ (hammer drilling in concrete): 9.3 m/s²
- Vibration level $a_{h,Cheq}$ (chiselling): 15.2 m/s²
- Uncertainty K: 1.5 m/s²

ATTENTION!

The specified total vibration value and noise emission values have been measured according to a standardised test method (EN 62841-1/EN 62841-2-1/EN 60745-2-6) and can be used to compare power tools with one another. They can also be used for a preliminary estimation of noise and vibration exposures.

Warning!

During actual use, the vibration and noise emission values may differ from the levels specified, depending on how the power tool is used (in particular on the type of workpiece being processed).

Safety measures must be in place to protect the operator. These measures must be determined based on an assessment of the vibration exposure under actual use conditions (every part of the operating cycle has to be taken into account, e.g. periods in which the power tool is switched off and times when the power tool is switched on but is running without load). Try to keep the noise and vibration exposures as low as possible. Wearing gloves when using the tool, limiting working times and using accessories that are in good condition are a few examples of measures that can be taken to reduce vibration exposures.

Improper use of the rotary hammer drill can cause vibration-related ailments.

ATTENTION!

Depending on the type of use or conditions of use, the following safety measures must be taken to protect the user:

- Avoid exposure to vibrations as much as possible.
- Only use accessories in perfect working order.
- Wear anti-vibration gloves when using the rotary hammer drill.
- Follow the user manual on care and maintenance of the rotary hammer drill.
- Avoid using the rotary hammer drill at temperatures below 10 °C.
- Plan your work steps so as not to use strongly vibrating devices over several consecutive days.

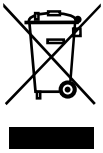
Disposal

Disposing of the packaging

Dispose of the packaging separated into single type materials. Dispose of paperboard and cardboard with waste paper and plastics with recyclable waste.

Disposing of the rotary hammer drill

– Dispose of the rotary hammer drill in accordance with the regulations in your country.



Old devices must not be disposed of with household waste!
This symbol indicates that this product must not be disposed of together with domestic waste in compliance with the Directive (2012/19/EU) pertaining to waste electrical and electronic equipment (WEEE). This product must be handed in at a collection point intended for the purpose. This can occur, for example, by handing it in at an authorised collecting point for the recycling of waste electrical and electronic equipment. Owing to potentially hazardous substances that are frequently contained in waste electronic equipment, incorrect handling of waste equipment may have a negative impact on the environment and on the health of human beings. By disposing of this product correctly, you are also contributing towards an efficient use of natural resources. Information about collecting points for waste equipment can be obtained from your municipal authorities, the public law disposal authorities, an authorised institution for the disposal of waste electrical and electronic equipment or the waste collection services.

Declaration of conformity

GB IRE

Conmetall Meister GmbH
Oberkamper Straße 37-39
42349 Wuppertal
Germany

CE

EC Declaration of Conformity

We declare with sole responsibility, that the product listed below …	ROTARY HAMMER FPB 1500
FERREX®	WU5904343/WU5904344• 98995• 11/2019 · BJ. 2019
… meets all of the requirements of the listed directives.	2011/65/EU (RoHS) 2006/42/EC (MD) 2014/30/EU (EMC)
Applied, harmonized standards:	EN 62841-1:2015 EN 62841-2-1:2018 EN 60745-2-6:2010 EN 55014-1:2017 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55014-2:2015 EN 50581:2012

Wuppertal,…….04.04.2019

Ingo Heimann (M.Sc.)
Technical direction/Product development
Conmetall Meister GmbH · Oberkamper Straße 37-39 · 42349 Wuppertal · Germany
Authorized person for storing the technical documentation.

Great care has gone into the manufacture of this product and it should therefore provide you with years of good service when used properly.
In the event of product failure within its intended use over the course of the first 3 years after date of purchase, we will remedy the problem as quickly as possible once it has been brought to our attention. In the unlikely event of such an occurrence, or if you require any information about the product, please contact us via our helpline support services, details of which are to be found both in this manual and on the product itself.

GB IE

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WU5904343/WU5904344 11/2019

3 YEAR WARRANTY