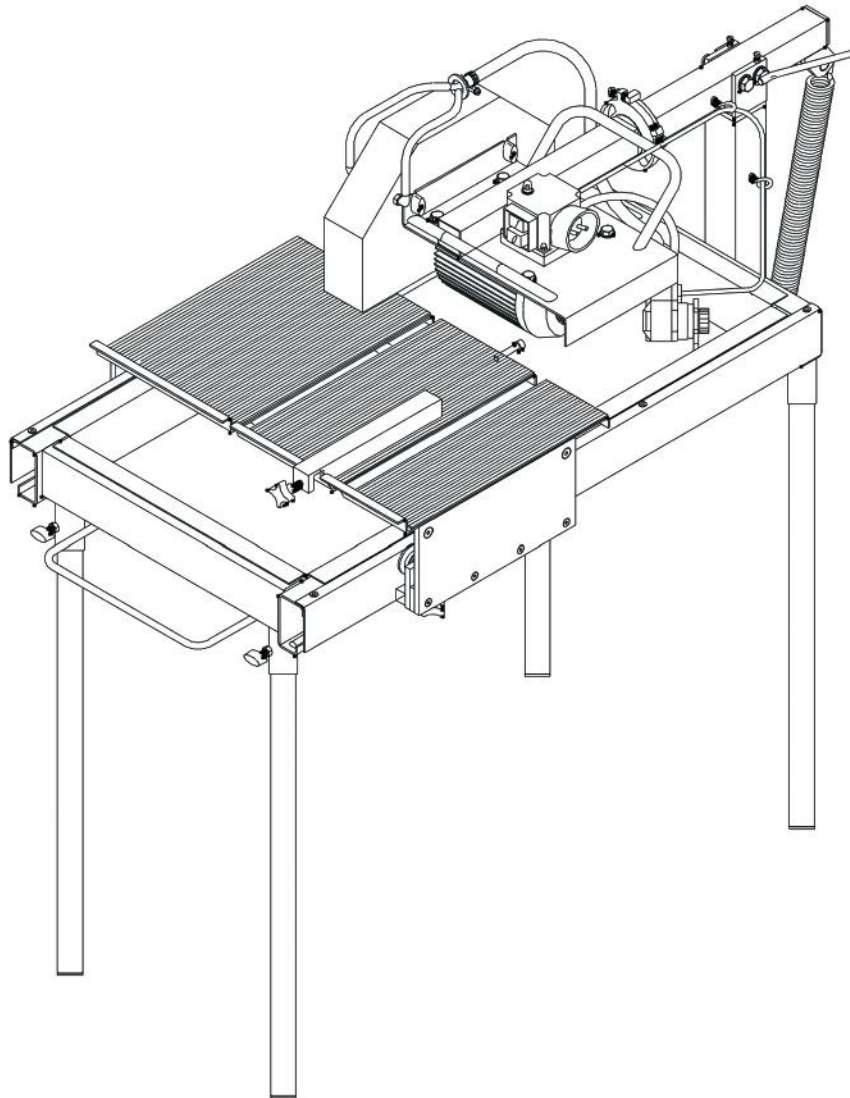


Bench saw (angle cutting 45°)

KDT-350



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Please read these instructions carefully before starting up the machine!

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2. Introduction

With this bench saw type KDF 350 you have purchased a top class machine. What makes this product out stand are reliable operation, easy handling and high mobility due to the application of new technologies and permanent improvement of quality. The complete operating manual should be kept close to place of application. Particularly important details for the application of the bench saw are emphasised in this operating manual. Therefore it is important, that the persons responsible should be familiar with the manual. We are not liable for any damage or interference caused by not observing the instructions

2.1. General Information

In the further text the operating manual is marked as **BA**. Besides this, the following abbreviations are used:

:

Abb.	- illustrations
Tab.	- table
ND	- not shown
ETL	- list of spare parts

2.2. Used symbols



This symbol will be found at all work- and safety-instructions in this manual, where danger exists to body and life of person. Read these notice and take particular care in these cases.

Attention

This symbol will be found where special attention is to be paid, so that instructions, notices and the correct sequence of work is kept and also to prevent damage or destruction of the machine and other parts

3. Work-and safety- instructions

The bench saw has been built corresponding to the latest technics. Nevertheless dangers can appear in case of use by uninstructed personnel or improper application, not according to regulations.

Each person using or maintaining the machine must have read and understood the complete operator's manual and especially the safety instructions. We recommend the user to confirm this in a written way.

A regulation concerning use also contains the consideration of the instructions of assembly and disassembly as well as the conditions of putting into operation and maintenance as given by the manufacturer.

The bench saw may be operated and maintained only by authorised, well instructed personnel. This personnel must be specially instructed about possible dangers.

Working methods, which affect the safety, are strictly to avoid. The user also has to see that no unauthorised person uses the machine.

The operator is obliged to report any unusual change on the machine that could impair the safety.

The operator is also obliged to operate the bench saw only in an unobjectionable condition.

Arbitrary reconstruction's and changes which affect the safety of the wall saw are not allowed.

Before starting with any kind of maintenance works the main plug must be pulled out.

Works on electrical facilities must only be executed by skilled workers or especially instructed persons under guidance and supervision of a skilled worker corresponding to the electrotechnic rules.

Before commencing the job the operator should get acquainted with the surroundings of the job site. This is to avoid putting other persons and/or objects in danger. Make sure the job site has been secured and that notice has been given and received that you are about to commence.

The blade guard should only be put on or removed from the saw when the blade is absolutely still. Always check the saw before operating, make sure everything is in the right place and that you have gone through all the safety procedures and devices. When operating the saw one should always use ear protectors, gloves, safety shoes and proper kind of clothing.

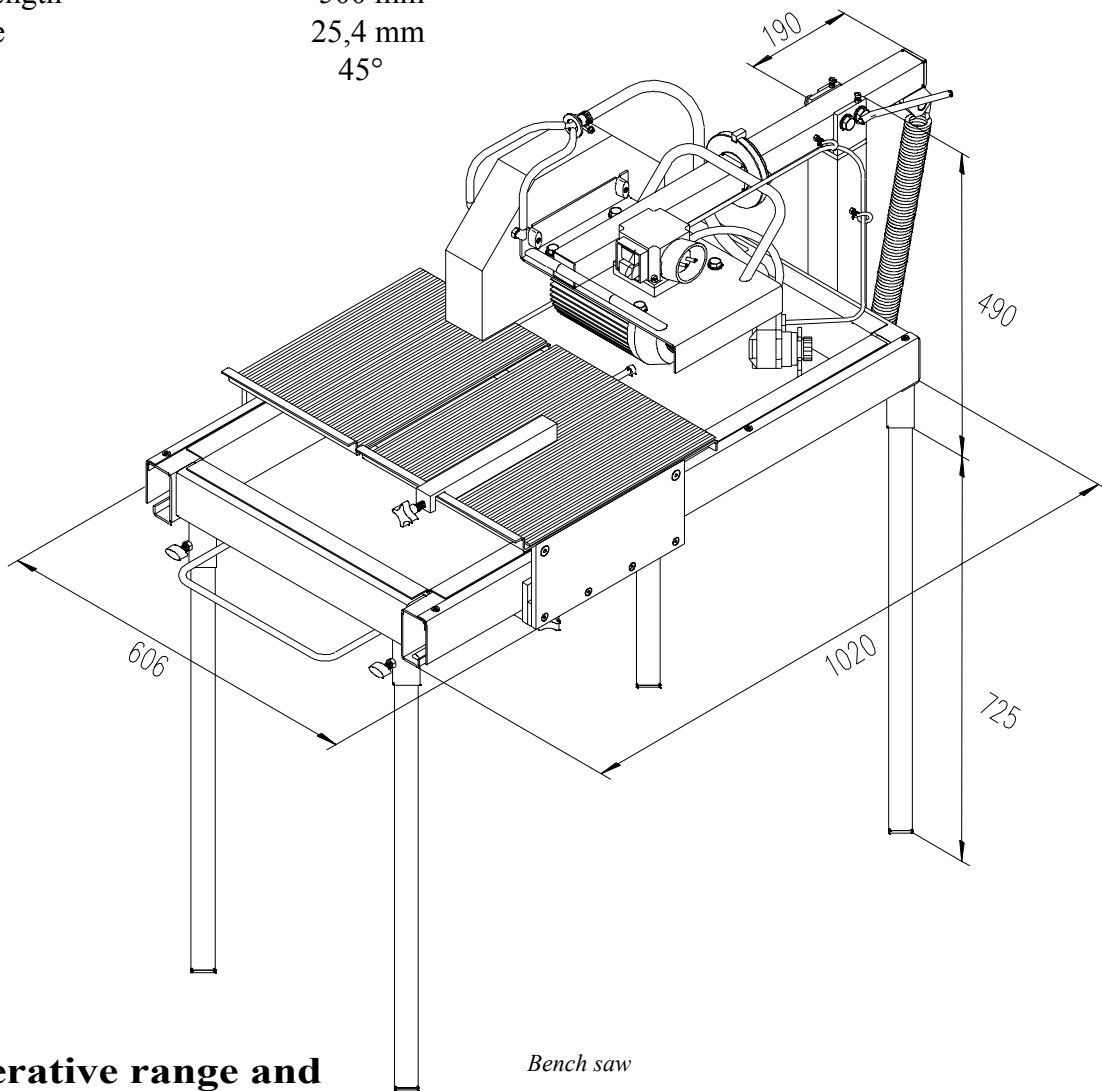
For the operation of the bench saw the local regulations of safety and accident prevention must be absolutely noted.

Before cleaning the machine with water, a vapour cleaner (high pressure cleaning machine) or other cleaners, all apertures must be covered for safety and/or function reasons to avoid water, vapour or cleaners entering it, especially electric motors, switch boxes and electric plugs.

Covers and scotch tape must be removed after cleaning.

4. Technical data

Complete weight	62 kg
Frame	22 kg
Sawbody with blade and pump	22 kg
Carriage	9 kg
Tub	4 kg
legs	5 kg
Power	2,2 kW/230V
Speed	2800 U/min
max. saw blade	350 mm
cutting depth	115 mm
cutting length	500 mm
bore hole	25,4 mm
sleivable	45°



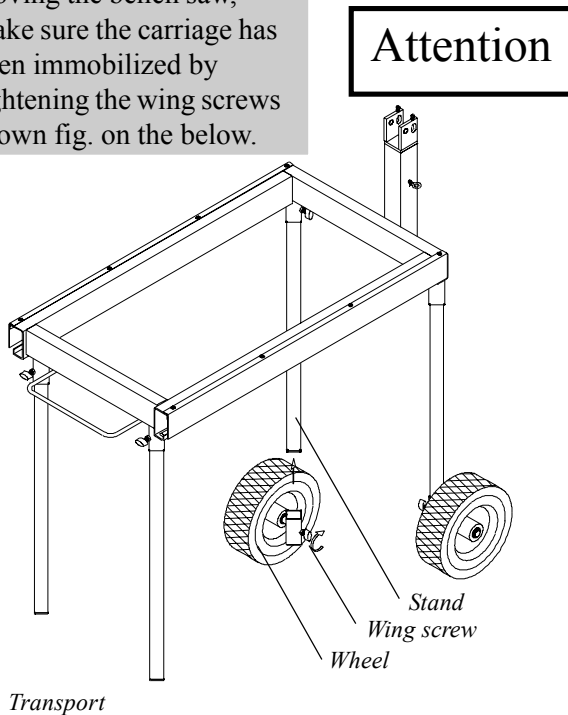
5. Operative range and determined application

The bench saw was manufactured for the purpose of cutting to a maximum depth of 130 mm in materials such as concrete, brickwork or similar. Any application other than the ones described are to be considered illicit.

6. Transport

The bench saw can be pushed at the building site by a single person as if it were a wheelbarrow. To do so one should assemble the wheels (accessory) on to the back legs of the bench saw.

Before transporting or moving the bench saw, make sure the carriage has been immobilized by tightening the wing screws shown fig. on the below.



The bench saw can also be disassembled for transport. It consists mainly of five parts or components and can be disassembled as follows:

Loosen the cruciform screw (4 turns) and pull the carriage from the frame.

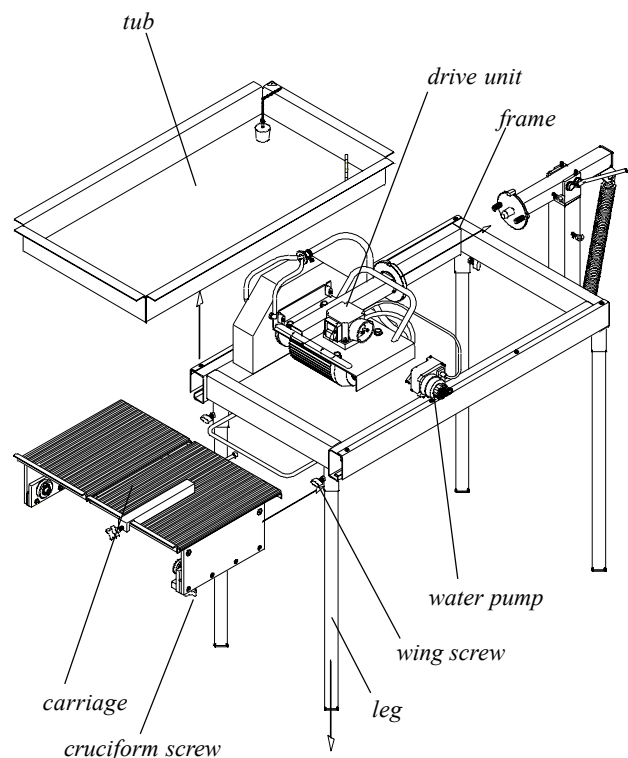
Remove the water pump from the tub and place it over the motor.

Remove the empty tub from the frame.

By removing the two nuts, see fig. attached to the right, one can pull out the drive unit (motor, blade guard and switches) from the frame or arm.

Last but not least, loosen the screws on the frame to be able to remove the legs.

To assemble, work the above mentioned steps starting with number 5 up to step number 1.



The bench saw should not be transported with a crane hook.

Attention

7. Initiation

7.1 Saw blade

To assemble the saw blade proceed as follows:
remove the blade guard by loosening the wing nuts

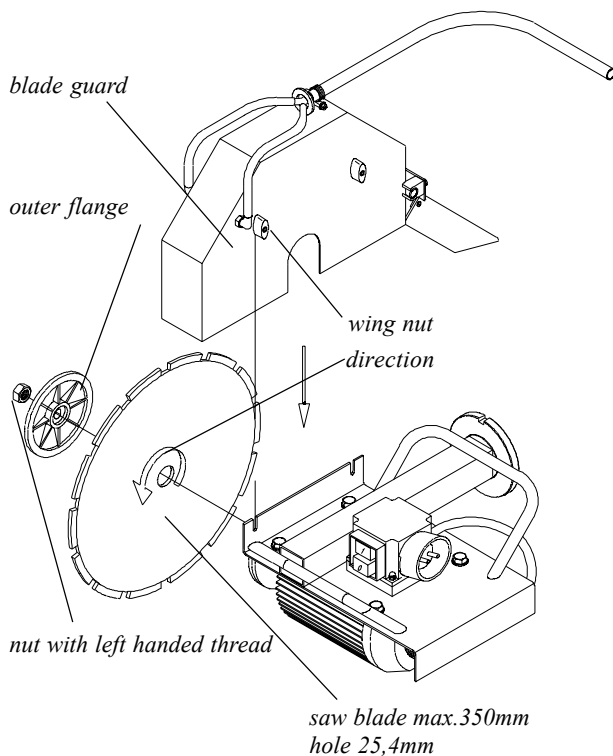
remove the left screw nut and the outer flange,

place the appropriated saw blade onto the inner flange, then the outer flange and tighten the left screw nut back on.

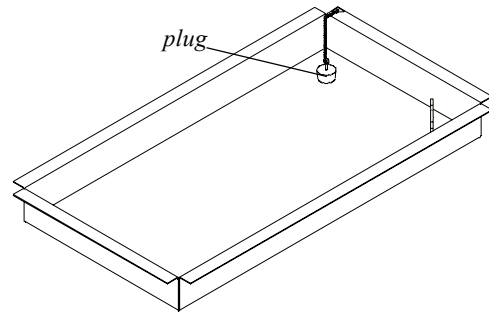
please make sure that both direction arrows, from the bench saw and the saw blade, are pointing in the same direction.

Attention

place the blade guard back on and tighten both wing nuts.

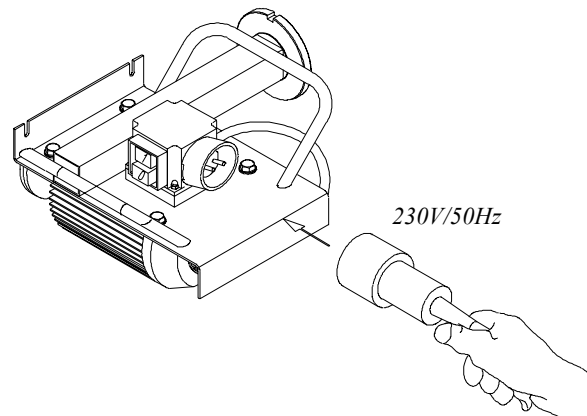


7.2. Tub



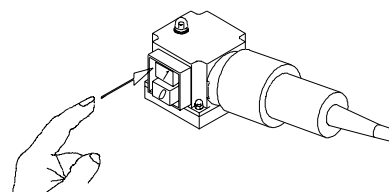
Place the plug in and fill the tub with approx. 30 liters of clean water.

7.3. Electrical plug



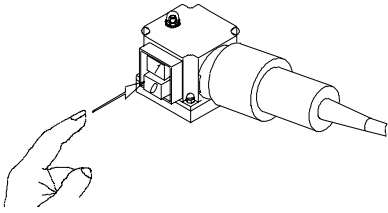
Connect the electrical plug as shown in the fig. above. Make sure the electric cable you are using is attached to a residual current operated device.

7.4. Switching the bench saw on



Simply press the green button. Check the rotation direction of the blade and if the water pump is working properly.

7.5. Switching the bench saw off



Simply press the red button. Do not commence any work on the bench saw until the blade has come to a complete stop.

8. Operation

8.1. Cutting depth adjustment

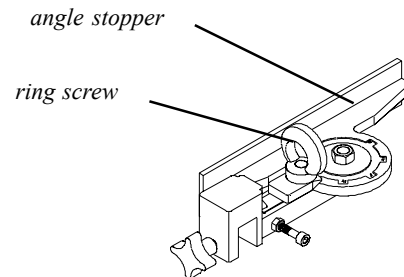
To adjust the depth of the cut, loosen the straining screw and move the drive unit up or down to place it into the desired cutting depth and tighten the straining screw again.

8.2. Cross cut

Loosen the straining screw. Place the carriage into position and tighten the cruciform screws.

8.3. Cutting in angle

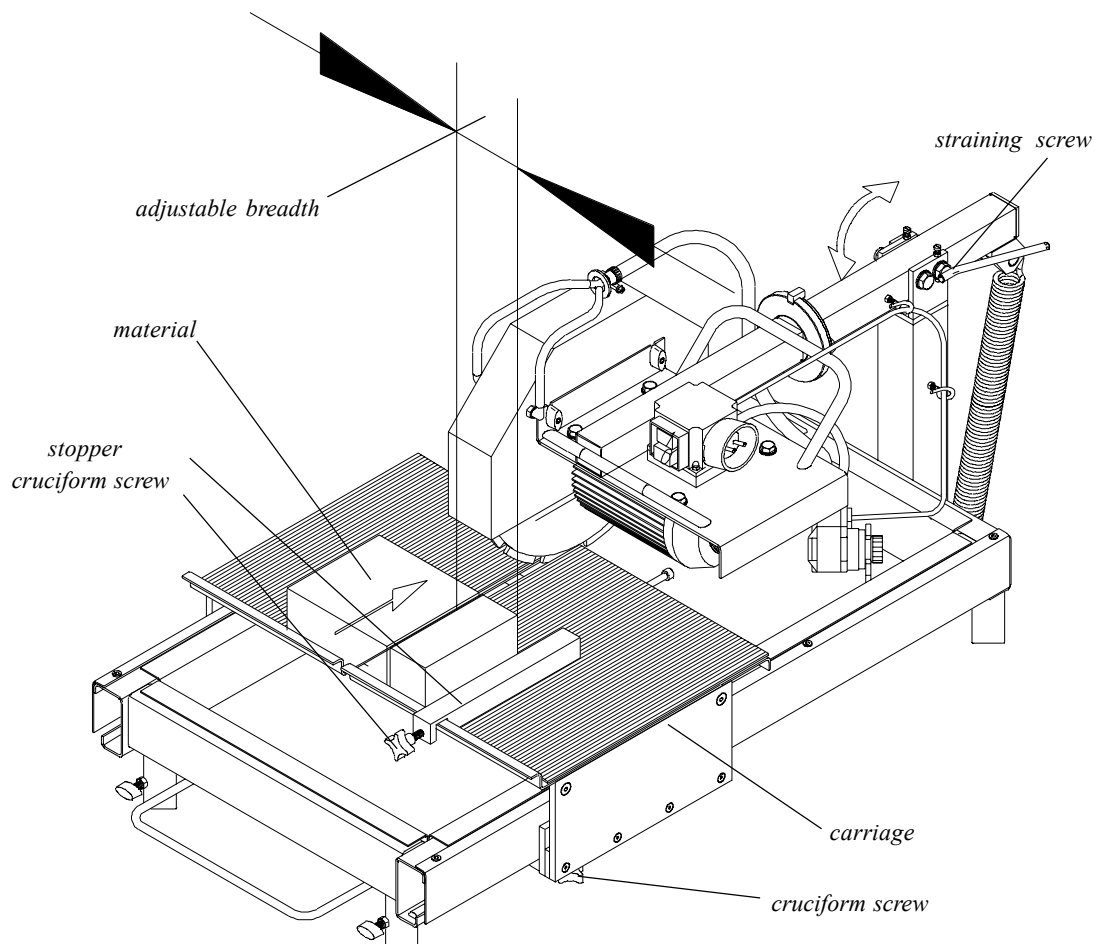
Substitute the straight stopper for the angle stopper (accessory). One can adjust the angle by loosening the ring screw.



8.4. Normal cut

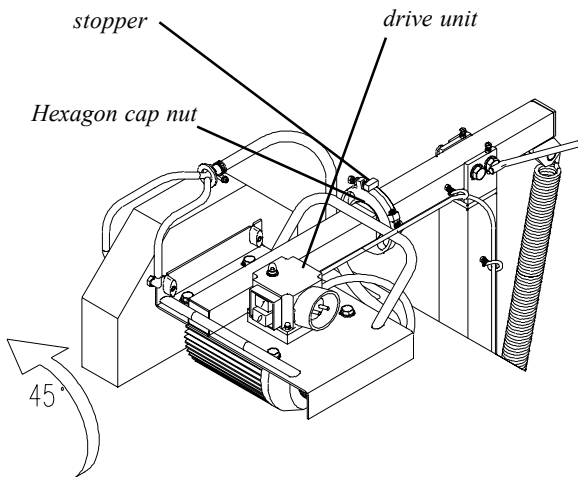
Set the width of the cut by measuring the distance from the blade to the stopper and tighten the stopper cruciform screw.

Place the work piece into position, loosen the carriage cruciform screw (1 turn), switch the motor on and move the carriage slowly towards the blade.



8.5. Cutting in angle 45°

Loosen the hexagon cap nuts, turn the drive unit against the stopper and fix the nuts.



Attention: operating the bench saw with muddy water reduces both the life of the diamond saw blade as well as of the water pump.

Attention

9. Maintenance

The following maintenance work should be held:

Clean the bench saw after every working day, pay special attention to the water pump, if the mud hardens on the surface of the bench saw or inside the pump it becomes very difficult to remove and will reduce the life of the pump considerably.

Clean and grease the carriage guide rails once a month.

Attention: operating the bench saw with muddy water reduces both the life of the diamond saw blade as well as of the water pump.

Attention

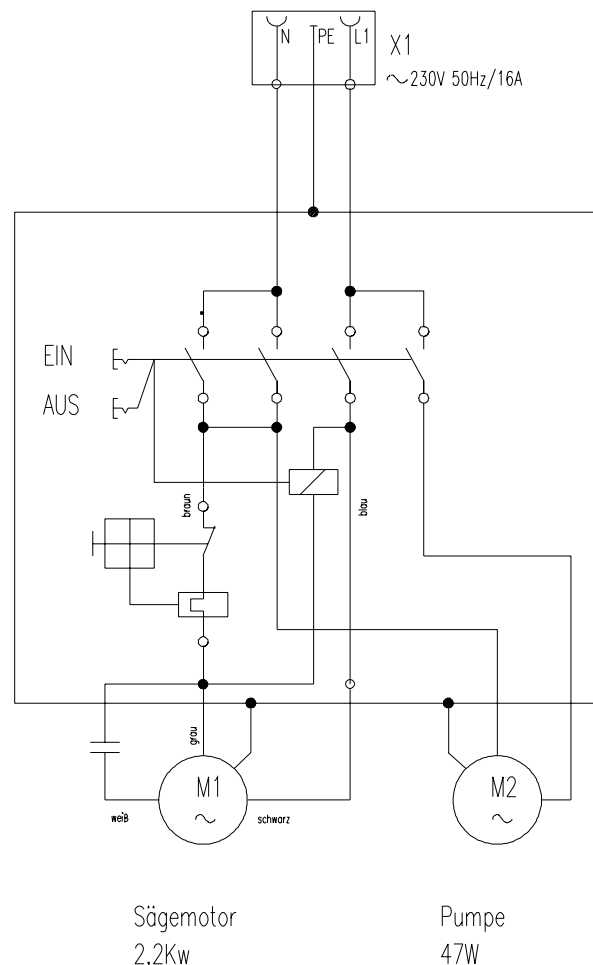
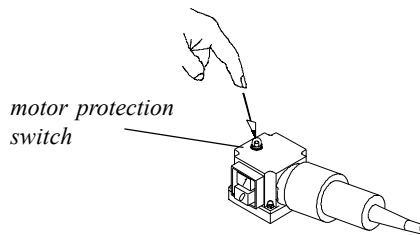


fig. circuit diagram

10. Trouble shooting

Motor does not run:	electric cable, plug or switch defect. Exchange
Motor will stop during cutting procedure:	Saw blade is polished. Grind the saw blade or exchange it. The feed is to high, use less force on the carriage and allow the blade to do the cutting.
The electric motor switches off:	Motor protection switch has released wait 30 seconds, than press the motor protection switch



No water:	the water pump is defect. Exchange. The water pump is clogged, clean the pump and the hoses.
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11. Customer Service

For the permanent function of the machine a regular maintenance is absolutely necessary. To order spare parts refer to the attached spare parts list. For further information refer to the assembly drawings listed in the parts list. The application of any parts not supplied by us. can under circumstances, alter the given constructive characteristics of the wall saw and could have influence on the active and/or passive safety **KERN-DEUDIAM Diamantwerkzeuge und Maschinen GmbH** cannot be made liable for any damage caused by spare parts they have not supplied.

To guarantee a fast delivery of your order and avoid any wrong delivery, the following details are absolutely necessary with every order of spare parts.

1. Machine type according to data plate
2. Fabr.-Nr. according to data plate
3. Number of article according to spare parts list
4. desired quantity of spare parts

Declaration of conformity



We hereby declare that this machine conforms with the following standards

Designation of the machine	Bench saw KDF 350
Regulations of directive	89/392/EWG - 93/68/EWG 73/23EWG 89/336/EWG
Standards	DIN EN 292-1 DIN EN 292-2 DIN EN 60204-1

A handwritten signature in black ink, appearing to read 'Marko Wenz', with a long, sweeping underline.

Director

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