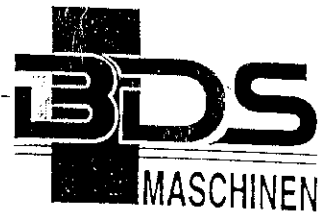


OPERATING INSTRUCTIONS
Magnetic core drilling machine type MAB 100



1. Technical Data

Mains connection:

Nominal voltage	110 V
Frequency	40-60 Hz
Power consumption	800 W

Performance data:

Heavy-duty magnet	15.000 N magnetic force
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Drilling capacity:

Core drilling	Ø 12-30 mm
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Tool taper:

Core drill arbor	Direct arbor for core drills with 19 mm Weldon shank with automatic internal lubrication
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Speed	450 1/min.
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Stroke / Weight	80 mm / 9,9 kg
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Protection class II	double insulated
Interference suppression	according to DIN VDE 0875
Degree of protection	IP 20

The drilling machine has been developed according to the directives of DIN VDE 0740 and IEC 745-1.

All current and/or voltage-carrying parts are provided with an additional protective insulation.

Subject to technical changes!

2. Connection and starting

Check the mains voltage

The supply voltage indicated on the nameplate has to correspond with the mains supply.

Mains connection

Connect the mains plug with the mains supply. In case you use an extension cable, make sure that it corresponds with the power consumption of the machine.

Secure the machine by means of a chain

When the machine is used on oblique or vertical areas or overhead, it has to be secured by means of the chain, which is part of the delivery.

Attach the machine and activate the magnet

Make sure that the surface is even and clean.

Position the machine and activate the magnet switch.

The magnetic force depends on the thickness and the nature of the material.

For starting the motor press on I of the **Motor** switch.

The motor can only be started, when the magnet is switched on.

The motor has to be switched on again after a power failure.

3. Application

The drilling machine can be used for drilling work in metal. The maximum diameter drilled is \varnothing 30 mm when drilling in steel.

Drilling

Insertion of the core drills.

Insert the core drill with the ejector pin so that both clamping screws are exactly positioned on the surfaces.

Slightly tighten both screws.

Tip:

Drilling with core drills does not require any great expenditure of force. Drill without great pressure.

Make sure that the chips are removed upwards.

Break the chip in case of greater drilling depths.

A greater pressure does not speed up drilling, the drill will be worn out quicker and the machine will be overloaded. Always use the cooling lubricating facility, which is part of the delivery. The service life of the tool depends on the lubrication!

A permanent internal lubrication with high-performance cutting oil BDS 5000 is a must!

The lubricating facility must not be used in the case of overhead work.

In such a case, please use BDS high-performance lubrication spray ZHS 400.

Prior to drilling, spray the grease onto the inside of the drill.

Spraying must be repeated in the case of greater drilling depths.

Switch off the motor

Press on 0 of the **Motor** switch und and wait until the motor has completely stopped.

Release the magnet

Set the **Magnet** switch to position 0.

4. Note the following for a proper function of the magnetic core drilling machine and for reasons of working safety:

Only use sharp-edged tools.

The shafts of the tools have to be in perfect condition and without any contamination. They should not show any damages.

The moveable connecting cable may never be tensioned.

Any damages have to be avoided, since an endangering by electric power may be caused.

ALWAYS FOLLOW OUR SAFETY INSTRUCTIONS

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Safety instructions

Always use the safety chain when working in horizontal position or overhead.

The cutting oil must not run into the motor. Please, make sure you are using high-performance grease while working in constrained positions.

Make sure you are working on a flat ground and that there is sufficient magnetic retention force.

Caution!

Colour coat, coating of rust and zinc layer reduce the magnetic retention force. Therefore, drill carefully when you are working on thin material.

Don't expose electric tools to rain.

Remove shavings only with a shavings hook.

Please wear work gloves and suitable protective clothing.

Use safety goggles for the protection of your eyes.

Keep children and unauthorised people away from working area of the machine.

Pull out mains plugs in the case of non-use, tool change and repair works.

Please, check plugs, cables and switches regularly.

Replace damaged pieces immediately.

Please, have repairs only be carried out by qualified personnel.

Warranty certificate

A warranty period of 12 months as of sales date is valid for BDS electric tools.

Damages that can be put down to natural wear and tear, overload or improper treatment of the machine remain excluded from the warranty.

Damages which have resulted from fault in material or defect of fabrication will be removed free of charge by compensation delivery or repair.

Complaints can only be accepted if the device is sent undismantled and free domicile to BDS or to the responsible contracting party.

Claims for damages cannot be derived from this guarantee promise.

Please, fill out guarantee or enclose purchase receipt.

Machine type

Serial number

Date of sale

Stamp/Signature Specialised dealers

Error message

WMA 23 100

ADJUSTMENT OF MOTOR SLIDES

The drill is held in position by three slides, which are held in place by three screws. When the drill is moved up and down, the slides move with it.

THE RIGHT HAND BRASS RAIL IS HELD IN PLACE BY THREE SCREWS, with 4mm Alan key drive

A) WITH THE DRILL IN IT'S LOWEST POSITION, LOOSEN THE BOTTOM AND MIDDLE SCREWS AN EIGHTH OF A TURN. (The middle screw is reached through the access hole in the drill carriage plate).

B) USING THE HANDLES, MOVE THE DRILL UP AND DOWN BY ABOUT 20mm, AND RETIGHTEN THE BOTTOM SCREW ONLY.

C) NOW RAISE THE DRILL TO REACH THE TOP SCREW THROUGH THE ACCESS HOLE, AND LOOSEN IT AN EIGHTH OF A TURN. MOVE THE DRILL UP AND DOWN BY 20mm, AND RETIGHTEN TOP AND MIDDLE SCREWS..

If the action is still too loose, repeat the above procedure.

WARNING !!!!!!!!!!!!!

USE EYE PROTECTION.

(Goggles and or cutter shield)

**KEEP YOUR HANDS AWAY
FROM THE CUTTER WHEN
IT IS ROTATING.**

**TAKE CARE IF WEARING
GLOVES.**

**USE A SAFETY CHAIN OR
STRAP WHEN DRILLING
OFF THE GROUND.**

**CUTTING TOOLS AND
POWER TOOLS ARE
DANGEROUS; USE CAUTION
AT ALL TIMES.**