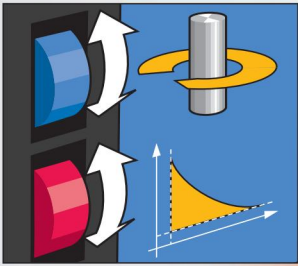


# Convincing solutions for engineers

BDS magnetic core drilling machines are characterised by a variety of innovative technical details and special features.

## High power for a low rotation speed!



Full wave control electronics enable the motor performance to constantly adapt to the load when drilling.

This machine presents the advantages of high power with a low rotation speed and a steady operating sequence. If the peak load is too high, the electronic torque shutdown will activate and prevent the tool from breaking. BDS Maschinen actively participates in work safety.



## No more running dry or overheating.

Thanks to the tool's automatic internal lubrication, the cutting oil is always applied where it is needed. This principle ensures an exact amount and even distribution over the entire cutting area. The drill doesn't run dry or overheat, and there's no unnecessary use of cooling agent. This significantly improves tool life and work results.



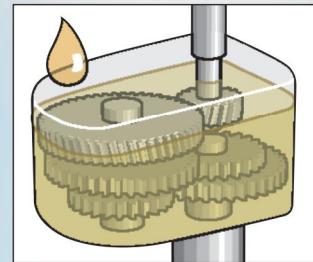
Change drills without tools.



Easy to position.

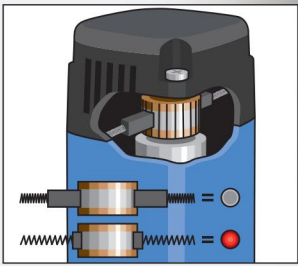


To a long service life!

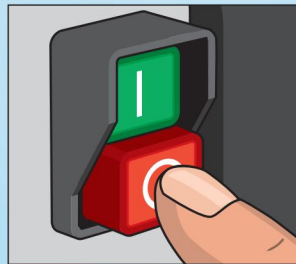


One of the most important and differentiating feature of a BDS magnetic core drilling machine is its gearbox. The BDS machines have multi-stage oil gearbox. An oil gearbox helps in providing lubrication to all the gears uniformly, therefore making the BDS machines more robust and reliable for longer service time.

Timely wear warning!



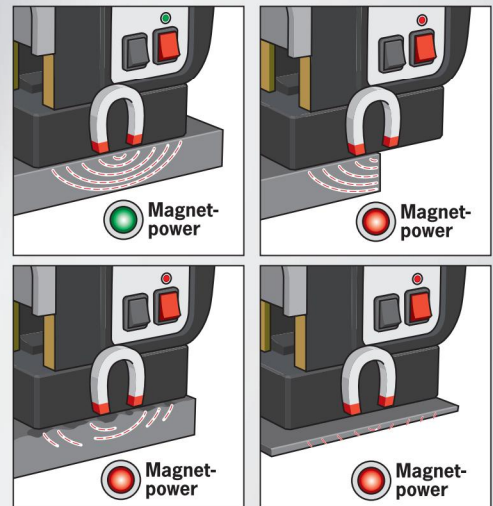
The machines of the Profi-PLUS class are provided with provided with an indicator to visualise & control the wear of the carbon brushes. By replacing the worn carbon brushes in time, you will protect the motor of your machine from damage.



Impossible to activate accidentally!

The large switches for motor and magnet power are properly separated and are safe to handle, i.e., confusion is impossible and accidents are prevented. Thanks to the special design of the switches, therefore preventing the unintended actuation of the motor switch.

Work in the green area!



The load configuration and the reserves of the electromagnet are exactly adapted for the performance of the respective magnetic core drilling machine. The user is informed by an indicator if the magnet is completely clamped or not on the material. LED green: The magnetic adhesion meets the minimum requirements. LED red: The magnetic adhesion is not sufficient, because it is reduced due to low material thickness or a coat of lacquer, forge scale or zinc.

Covered for more safety!

BDS Magnetic Core Drilling Machines are safe to handle. Due to internal cabling, cables are protected against being torn-off.



Easy to adjust with precision!

The Swivel Base is an adjustment device on BDS magnetic core drilling machines. To use it: Bring the machine roughly into position, activate the magnet, disable the Swivel Base locking mechanism and now adjust the machine exactly. A relief, especially for overhead or horizontal work.

# Possibilities to enthuse all practitioners!

BDS magnetic core drilling machines offer the user even more flexible and varied fields of application.



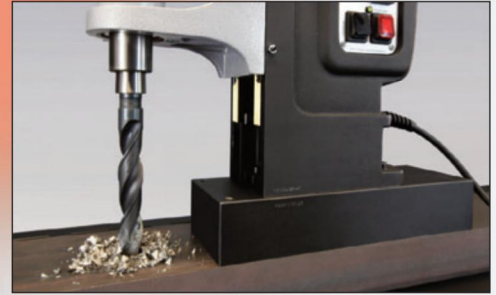
## Core drilling from $\varnothing$ 12 mm to $\varnothing$ 150 mm.

BDS Maschinen produces a wide range of tools with different drill series. More on pages 46 to 49.



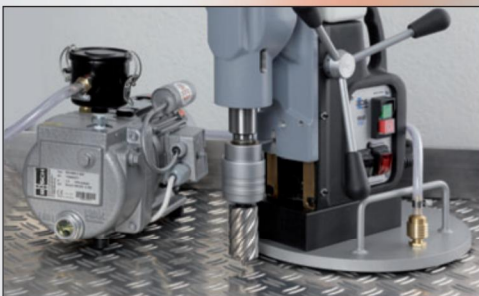
## Magnetic core drilling with large calibres.

Up to 130 mm in diameter and up to 110 mm cutting depth - a comparison of all BDS machines can be found on pages 10-11 and 46-49, along with the complete BDS core drilling range.



## Drilling with a twist drill of up to $\varnothing$ 42 mm.

A flexible choice of tools. Almost all BDS magnetic core drilling machines also work with twist drills. Try it upside down! See the performance comparison on pages 10-11.



## Processing channelled and gusset plates.

Use the vacuum clamping device ZAV 300 with a high-performance pump for these materials. Product information can be found on page 77.



## Processing nonferrous metals.

The ZAV 400 vacuum clamping device with high-performance pump and the magnetic core drilling machines of the ProfiPLUS category are best suited for these tasks. See page 77.



## Rail drilling with BDS core drilling machines.

One of the specialists in the BDS machines range. The RailMAB is specially used for track and signal construction. The following products are adapted for this use: BDS core drills of the carbide RAIL series and the environmentally friendly biodegradable BDS 5000. See pages 38, 62, 80.



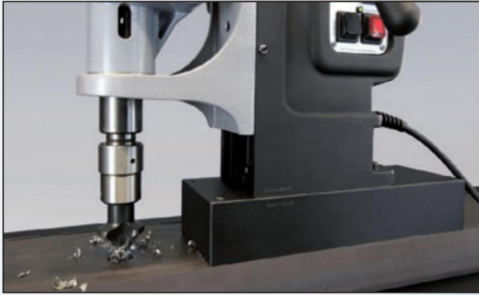
## The correct adapter for every profile.

Retooling made easy. Various profile adapters are available for our rail core drilling machines. Please contact us for more information.

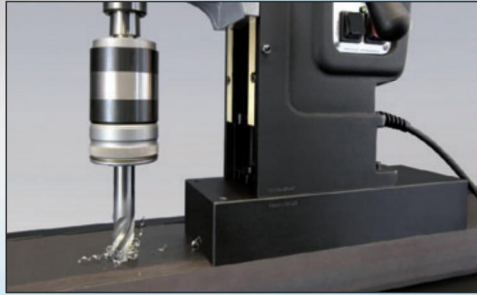


## Processing pipes up to $\varnothing$ 500 mm.

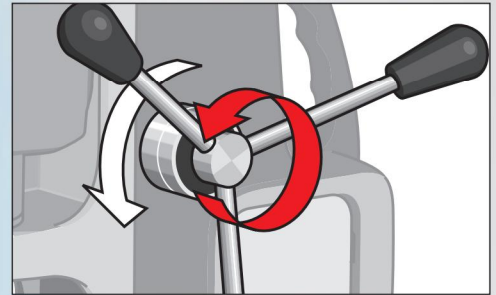
Expanding application possibilities for magnetic core drilling machines thanks to clamping devices for pipes from  $\varnothing$  80 to 500 mm. These appliances can be fixed easily and safely with tension chains. See page 76.



**Countersinking from  $\varnothing$  80 mm – reaming to  $\varnothing$  50 mm.** BDS magnetic core drilling machines with MT tool holder are adapted for the universal use of reamers and countersinks. An overview can be found on pages 10 and 11.



**Thread cutting from M5 to M39/42.** Quick-change drill chuck and inserts, also with safety friction clutch for magnetic core drilling machines with CW/CCW. Pages 70 - 71.



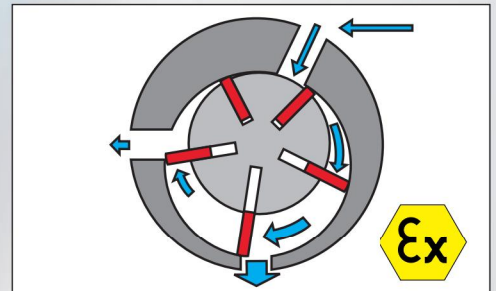
**MAB 1300 – drilling with servo-assistance.** PowerASSIST is a power-assisted feed when drilling - a particularly welcome aid for core drilling with large diameters.



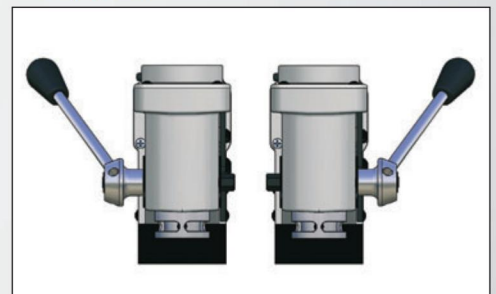
**Tight drilling situations – no exceptions.** Tight spatial conditions, impossible for the parts to disassemble. Here, the MAB 150 shows the true greatness of the ProfiSPEZIAL category. More on page 33.



**Core drilling with battery power.** Drilling with the power of our industry lithium ion batteries 6.0 Ah. The cordless AkkuMAB 3000 works independently from the mains network. See page 34.



**AirMAB 5000 – magnetic core drilling with pneumatic drive.** The high performance vane motor performs at 830 Watt and is approved according to Ex class - Ex II 2G T4 IIC D110° C. See page 37.



**Moving the feed handles.** The feed cross-joint on all BDS magnetic core drilling machines can be changed from left to right use in just a few movements. According to the circumstances.