



Company Profile

Magnetic Core Drilling Machines

Core Drills

Edge Processing Machines

www.bds-machines.com

www.bds-maschinen.de



Introduction

BDS Maschinen GmbH (Germany) is the single most popular and number one core drilling machine manufacturing company in Germany and also one of the biggest magnetic core drilling machines and core drills manufacturing company in the world. Since the company was established in 1989 BDS manufactures magnetic core drilling machines, core drills produced from high-quality steels, edge processing machines for the preparation of weld seams, as well as deburring- and chamfering machines for the metal working industry.

The site Mönchengladbach is the hub of our corporate activities. Unlike other powertool companies, BDS concentrates only on magnetic core drilling technology and is continuously researching and developing more improved solutions for metal drilling. BDS is also one of the few companies whose products are **Made in Germany** with excellent quality standards.

A portable magnetic core drilling machine is an advance technology machine tool, which is a faster substitute & economical for the old technology metal hole making machines like drill press, geared head drill press, radial arm drill press, mill drill, etc. A portable magnetic drilling machine with core drill bits makes holes from 12 mm to 130 mm diameter and for the holes below 12 mm diameter one can also attach the normal twist drill bits. A magnetic drill gives an accuracy of 0.001 mm to 0.00 in steel, stainless steel, etc. The core drill bits used for these machines are generally made from material like High speed steels (HSS) and Tungsten carbide tipped (TCT).Depending on the nature of material to be drilled, the user decides to use HSS or TCT core drills. BDS provides its customer with the best machines and core drills to make holes by Simply Better Drilling.

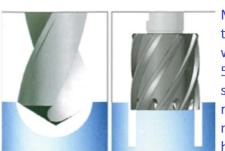
OLD TWIST DRILLING PROCESS

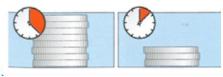
Twist drilling requires more power while drilling.

Twist drill has only two cutting edges. In twist drilling the complete area of the hole is removed and turned into chips.

Twist drills require more time, power and slower feed rates henxce is time consumable and expensive.







NEW CORE DRILLING PROCESS

Core drilling requires very less power while drilling.

Multiple cutting teeth cut only the periphery of the hole. the wall thickness of the cutter is 5mm thick, so no matter what size of hole, you are only removing a small amount of material around the edge of the hole!

The core drills remain sharper longer and can create 5 to 10 times more holes than traditional twist drills saving more time and money.

Products

(Magnetic core drilling machines, Core drills and Edge processing machines)

1. BDS Magnetic Core Drilling Machines



High-end series with speed & torque control, intelligent sensors For core drilling, twist drilling, thread cutting, reaming & countersinking Made in Germany



MAB 485	MAB 525	Also available with 30° swivel base as MAB 845	MAB 1300
40 mm core drilling	50 mm core drilling	100 mm core drilling	130 mm core drilling
55 mm cutting depth	110 mm cutting depth	110 mm cutting depth	110 mm cutting depth
18 mm twist drilling	18 mm twist drilling	31.75 mm twist drilling	45 mm twist drilling
M16 thread cutting	M20 thread cutting	M30 thread cutting	M42 thread cutting

Profi**start**

Compact series, robust and light weight Only for core drilling and twist drilling Made in Germany

MAB 100	MAB 455	MAB 855
30 mm core drilling	40 mm core drilling	75 mm core drilling
30 mm cutting depth	55 mm cutting depth	110 mm cutting depth
No twist drilling	18 mm twist drilling	31.75 mm twist drilling





Low cost series, price economical, high performance Made in Germany

MABasic 200	MABasic 400	MABasic 450
32 mm core drilling	35 mm core drilling	40 mm core drilling
55 mm cutting depth	55 mm cutting depth	55 mm cutting depth
13 mm twist drilling	16 mm twist drilling	18 mm twist drilling





Special machines for special purpose

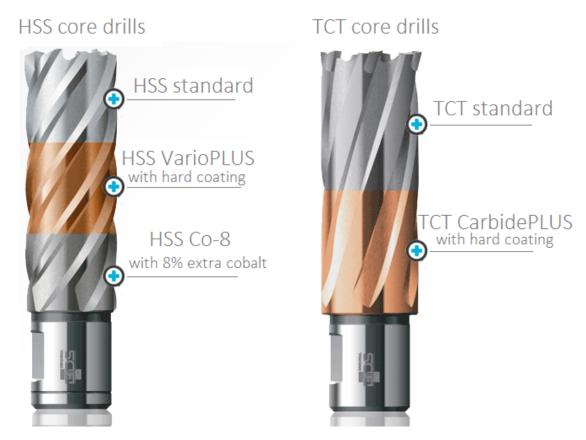
BDS also offers special solutions for your requirements, Made in Germany

AutoMAB 1500Automatic feed machineAirMAB 5000Pneumatic drive machineRailMAB 925Electric drive rail drill machineRailMAB 960Petrol drive rail drill machine	MAB 150	Horizontal machine for confined situations
RailMAB 925 Electric drive rail drill machine	AutoMAB 1500	Automatic feed machine
	AirMAB 5000	Pneumatic drive machine
RailMAB 960 Petrol drive rail drill machine	RailMAB 925	Electric drive rail drill machine
	RailMAB 960	Petrol drive rail drill machine



2. BDS Core Drills

BDS is one the few companies in the world and the only company in Germany which manufactures the machines as well as its core drill in the same factory by itself. BDS has the biggest core drills production facility in Germany. A core drilling machine and a core drill are not two different units but a single functional unit and so both must be manufactured with great precision.



Available in HSS and TCT material With arbor 19 mm & 32 mm in Weldon, Quick in, One-Touch & Universal

Tools with three different cutting depths 30 mm, 55 mm und 110 mm Core drill diameters from 12 mm to 130 mm

Core Drills also available in attractive boxes/sets







3. BDS Edge Processing Machines

The edge processing machines from BDS for an excellent preparation of welding seams, deburring and chamfering. BDS is not only expert in magnetic core drilling technology but also is an expert in edge processing technology. BDS covers a range that leaves nothing to be desired.

AutoCUT 500

Fully automatic beveling machine Milling upto plate thickness 40 mm Automatically guided on plate independent of floor condition



SKF 25

Universal bevel edge milling machine Upto chamfer width 15 mm Continuous angle adjustment from 15° to 60° Easily guided with rollers With integrated attachment for tube/pipe beveling



EKF Series

Deburring and chamfering machines Quick and precise edge processing 1,500 Watts powerful motor For 45° and 30° chamfer and 2.5 mm radius



BDS – Always Innovating

MAB 1300

The BDS MAB 1300 is the world's one and only most powerful portable drilling machine available on the market.

MAB 1300 can core drill up to 130 mm diameter and 110 mm cutting depth. So far no other machine has reached to achieve this benchmark. MAB 1300 is the only portable machine which can perform thread cutting or tapping up to M42. The MAB 1300 uses Morse taper 4 (MT4) arbor.

MAB 1300 is also equipped with a very powerful three coil magnet. This machine is also equipped with a special servo motor on the handles to give effortless feed while making holes, just like the power-steering of a car.





AutoCUT 500

The BDS AutoCUT 500 is also the world's one and only FULLY automatic beveling machine available on the market. There are no other competitors who manufacture a fully automatic beveling machine traveling directly on the plate and without vibrations.

The AutoCUT 500 machine is completely designed, developed and made by BDS with years of research and hard work. The BDS AutoCUT 500 can perform milling up to 40 mm plate thickness and chamfer width 30 mm.

PowerWORKER

An amazing new practical tool from BDS, PowerWORKER, is a magnetic chip remover used to remove chips and scarf during drilling with an ease. The iron chips are collected easily together with the powerful permanent magnet and can easily be disposed into the trash by demagnetizing the PowerWORKER.



Advantages of BDS Magnetic core drilling machine

1. ANTI-SHOCK PROTECTION

With a metal cap on the motor head, helps to avoid the shocks and breakage of motor.

2. SPEED & TORQUE CONTROLS

Special electronics for Speed control and Torque control, helps in accurately controlling the drilling process and achieve full performance & flexibility. \



3. OIL BATH GEARBOX

Unlike other manufacturers machines which has fat/grease in the gearbox, BDS machines has a Oil bath gearbox, which provides perfect lubrication to the gears even in extreme climatic condition or machine Temperature.

4. Gears Easy to use gear knobs for quick gear shifts. —

5. OVERHEATING PROTECTION

Automatic stop in case of overheating to avoid damage and accidents.

6. AUTOMATIC INTERNAL LUBRICATION

Internal lubrication helps in providing complete cooling and evendistribution of lubricant over the entire cutting area.



7. KEYLESS ARBOUR

Keyless arbour with automatic cooling hook-ups: Quick change chuck for fast & easy change of tools.

9. FULL WAVE CONTROL ELECTRONICS

This ensures continuous adaption of the motor output to the load during drilling. If the load peak is too high the electronic torque control will be activated in order to prevent tool breakage and avoid other damages.

10. CABON BRUSH INDICATOR

The BDS ProfiPLUS machines are provided with carbon brush wear control indicator which helps to replace the carbon brushes in time and avoid the damage of motor.

11. INTEGRATED LUBRICATION TANK Janovative design providing an ideal space for the lubrication tank.

12. MECHANICAL FRICTION CLUTCH

Friction clutch helps the spindle to stop automatically if the drill is been stucked in the material thus avoiding the breakage of the tool and other accidents.

13. ERGONOMIC HANDLE DESIGN

An ergonomic design of the machine handle casted along with the stand helps to distribute the weight of the machine equally on all sides, making the machine more easy to move from one place to another.

14. SAFE ARRANGEMENTS OF SWITCHES

BDS machines have separate arrangement for motor and magnet switches which helps in avoiding the confusion and prevent accidents.

13. MAGNET INDICATOR

A LED magnet indicator is to indicate the user if the machine magnetic is perfectly fixed to the material or not. It shows the magnet adhesion meets the minimum requirement or not.

14. SWIVEL BASE

BDS models like MAB 845 have options of a swivel base which helps the machine to rotate 30° in two axes and 20mm forward and backward

under the magnetic effect.





www.facebook.com/bdsmachines

providing safety.

8. INTERNAL CABLING

BDS machines do not have any cable running from outside to connect the

motor & the body. BDS machines

have all its cables arranged internally

avoiding the tearing-off of cables and



Tube

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