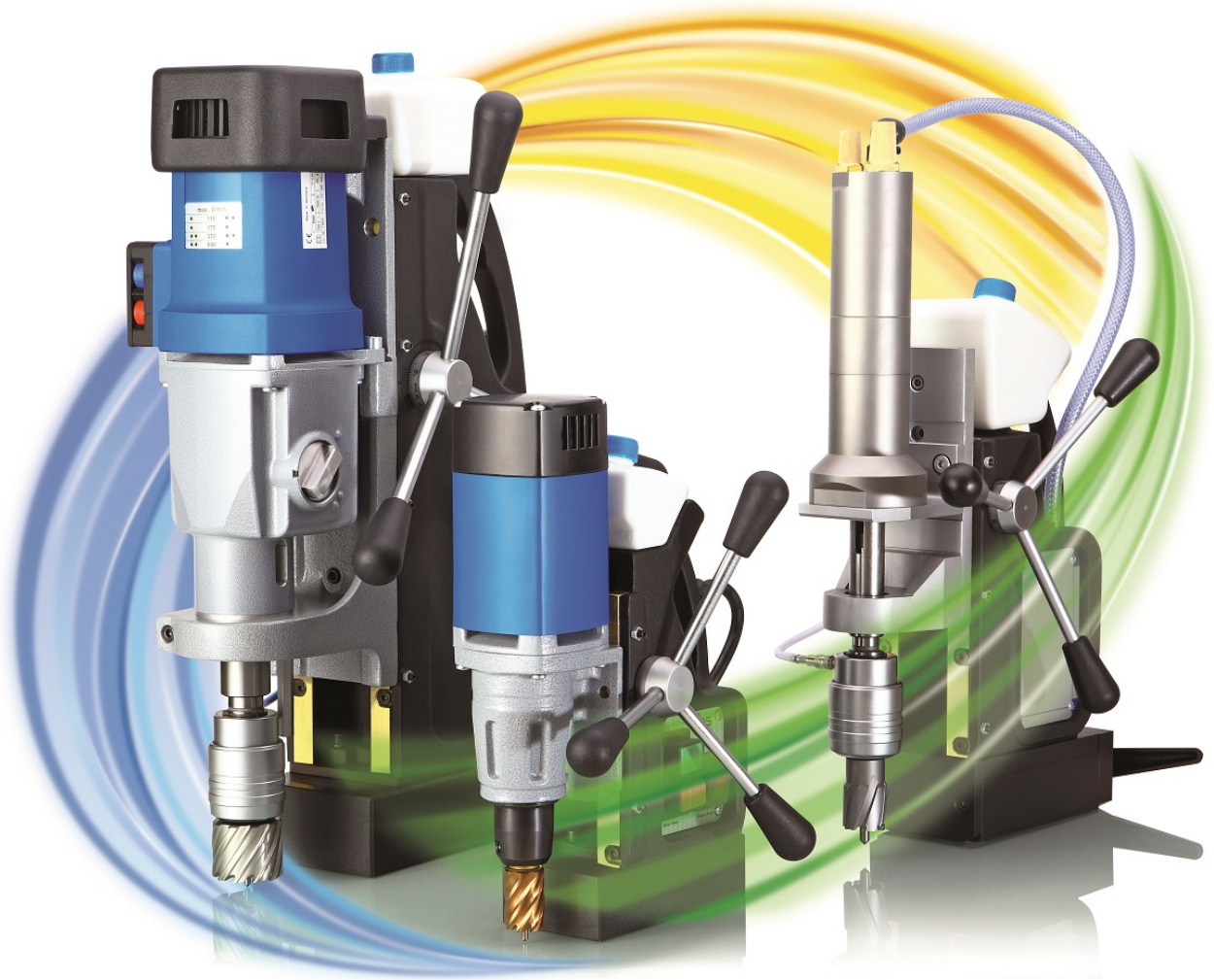




SIMPLY BETTER DRILLING



# Company Profile

Magnetic Core Drilling Machines

Core Drills

Edge Processing Machines

[www.bds-machines.com](http://www.bds-machines.com)

[www.bds-maschinen.de](http://www.bds-maschinen.de)

 **BDSMASCHINEN**  
**MADE IN GERMANY**

# 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 power-tool 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.

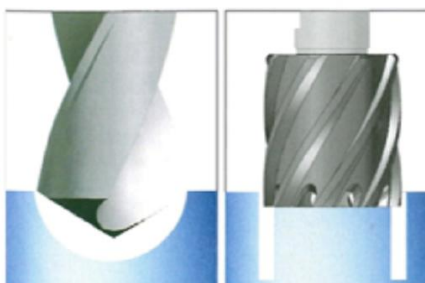
**A portable magnetic core drilling machine** is an advance technology machine tool, which is a faster substitute & economical for the old technology metal hole making machines like drill press, geared head drill press, radial arm drill press, mill drill, etc. A portable magnetic drilling machine with 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

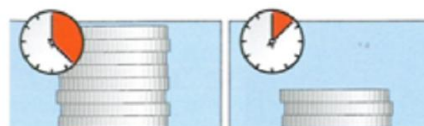
Twist drilling requires more power while drilling.



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 hence 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



<b>MAB 485</b>	<b>MAB 525</b>	<b>MAB 825</b> <small>Also available with 30° swivel base as MAB 845</small>	<b>MAB 1300</b>
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



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



<b>MAB 100</b>	<b>MAB 455</b>	<b>MAB 855</b>
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



<b>MABasic 200</b>	<b>MABasic 400</b>	<b>MABasic 450</b>
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

<b>MAB 150</b>	Horizontal machine for confined situations
<b>AutoMAB 1500</b>	Automatic feed machine
<b>AirMAB 5000</b>	Pneumatic drive machine
<b>RailMAB 925</b>	Electric drive rail drill machine
<b>RailMAB 960</b>	Petrol drive rail drill machine



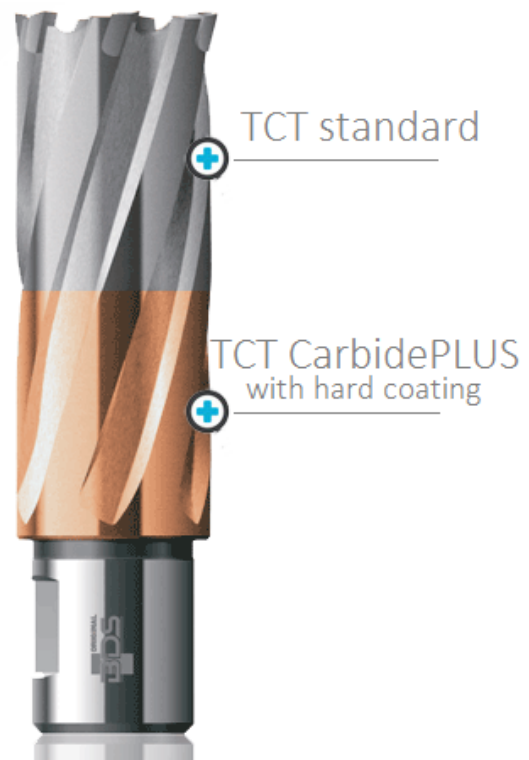
## 2. BDS Core Drills

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.

### HSS core drills



### TCT core drills



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.

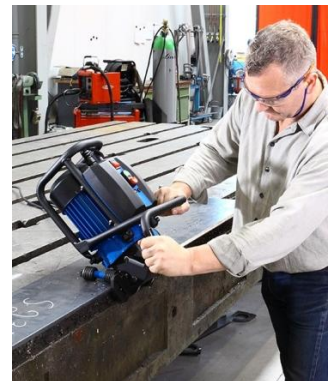
#### AutoCUT 500

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.

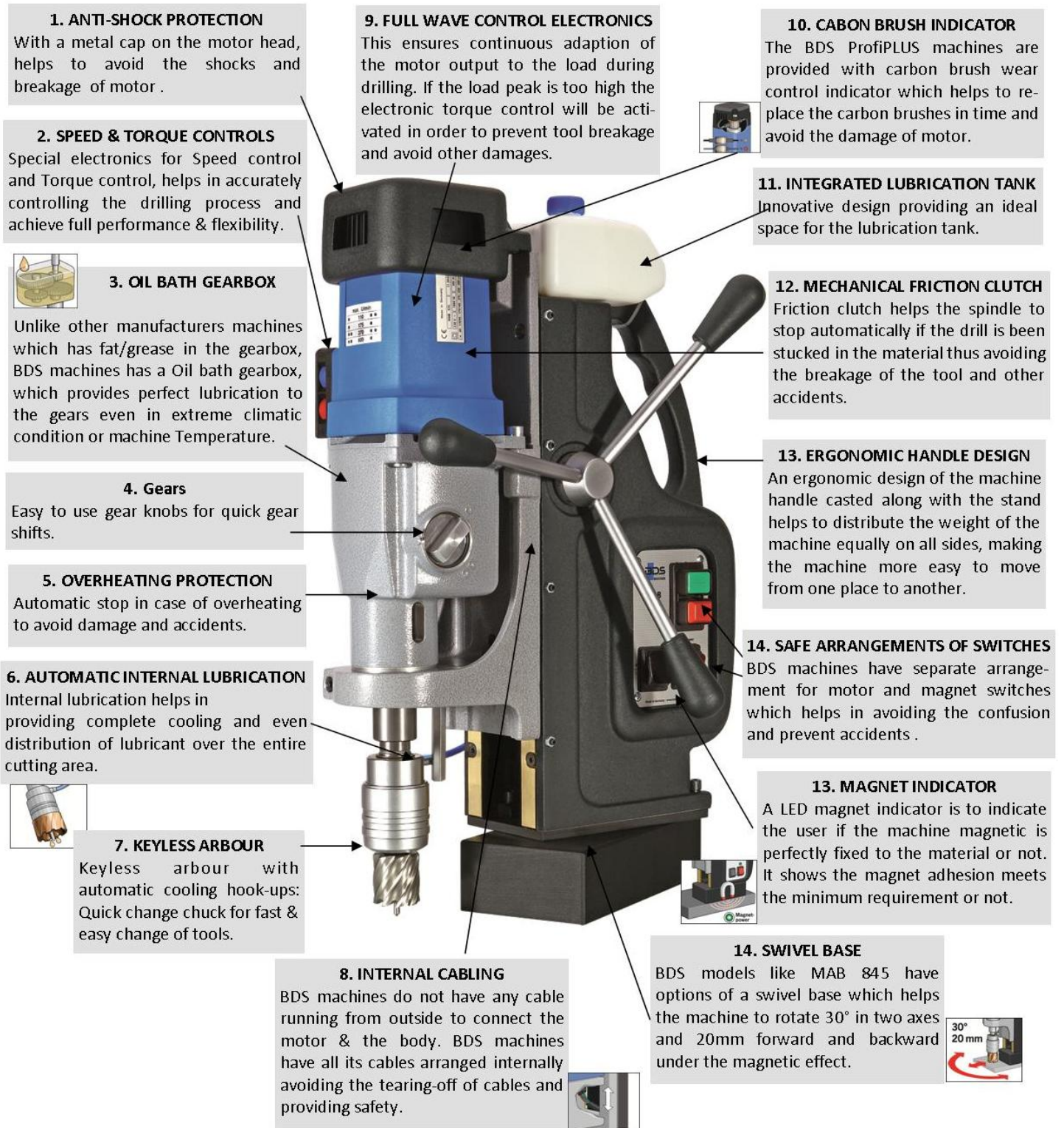
The AutoCUT 500 machine is completely designed, developed and made by BDS with years of research and hard work. The BDS AutoCUT 500 can perform milling up to 40 mm plate thickness and chamfer width 30 mm.

## 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



[www.facebook.com/bdsmachines](http://www.facebook.com/bdsmachines)



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