

THE FULL RANGE

FOR ALL REQUIREMENTS

BDS MASCHINEN
MADE IN GERMANY



MAGNETIC CORE DRILLING MACHINES

Annular Cutters & Accessories 2020/2021

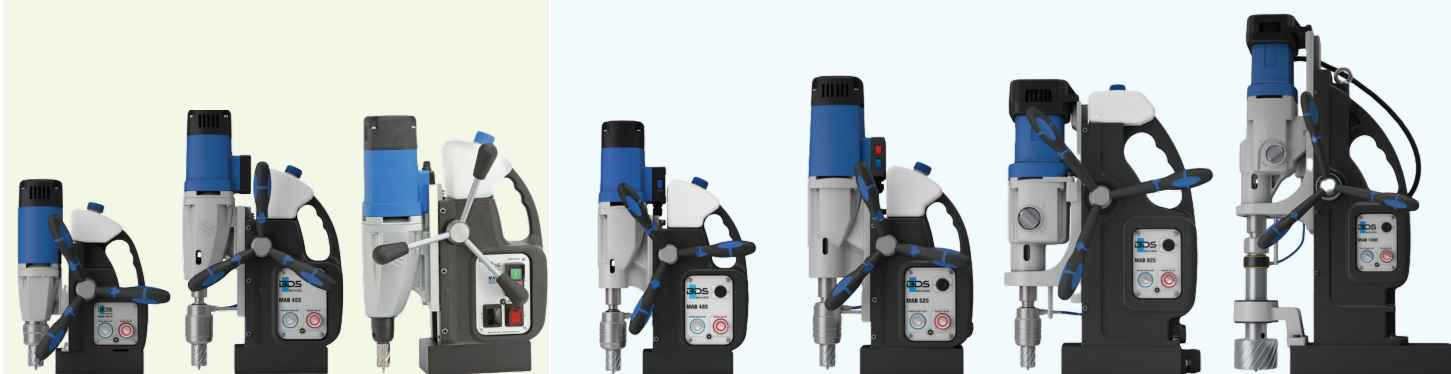
BDS
MASCHINEN

CORE DRILLING MACHINES FOR PROFESSIONALS.



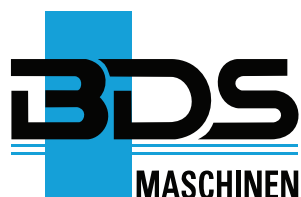
Machine			MABasic 35	MABasic 200	MABasic 450	MABasic 850
	Motor output	Watt	1,050	1,050	1,150	1,800
	Voltage, V AC	Volt	230 - 110/125	230 - 110/125	230 - 110/125	230 - 110/125
	Core drill cutting depth max. mm		55	55	55	110
	Core drill max. Ø HSS/carbide mm		35	32	40/50	75/100
	Twist drill	≤ Ø mm	13	13	18	31.75
	Reaming	≤ Ø mm				
	Countersinking	≤ Ø mm				
	Thread cutting	≤ Ø mm				
	Stroke	mm	160	160	160	255
	Magnet dimensions	mm	84 x 168 x 48	84 x 168 x 48	84 x 168 x 48	110 x 220 x 56
	Weight	kg	12	12	13	24
	Spindle taper				MT 2	MT 3
	Weldon arbor		Direct arbor 19 mm Weldon 3/4"	Direct arbor 19 mm Weldon 3/4"	Industrial arbor 19 mm Weldon 3/4"	Industrial arbor 19 mm 3/4" + 32 mm 1
	KEYLESS 19 mm Weldon 3/4"					
	Speed gears		1	1	2	4
	Speed range	rpm	450	460	250 – 45	110 – 385
	Permanent internal lubrication		✓	✓	✓	✓
	Safety clutch					
	Torque control					
	Full wave control electronics					
	Magnet indicator					
	Overheating protection					
	Clockwise/anticlockwise rotation					
	Carbon brush wear indicator					
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KEY SPECIFICATIONS AT A GLANCE:

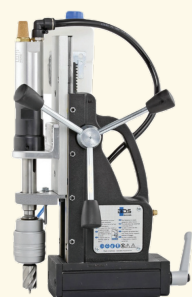


MAB 100 K	MAB 455	MAB 465	MAB 485	MAB 525	MAB 825	MAB 1300
	MAB 455 Swivel Base		MAB 485 Swivel Base	MAB 525 Swivel Base	MAB 845 Swivel Base	
1,050	1,150	1,150	1,150	1,600	1,800	2,300
230 - 110/12	230 - 110/125	230 - 110/125	230 - 110/125	230 - 110/125	230 - 110/125	230 - 110/125
55	55	55	55	75	110	110
32	40/50	40/50	40/50	50/60	100	130
	18	16	18	20	31.75	45
			18	20	31.75	50
		40	40	50	50	80
		16	16	20	30	42
70	160	160	160	160	255	85/310
80 x 160 x 41.5	84 x 168 x 48	84 x 168 x 48	84 x 168 x 48	84 x 168 x 48	110 x 220 x 54	120 x 360 x 67
9.9	13	13	13	16	25	51
	MT 2		MT 2	MT 3	MT 3	MT 4
		Direct arbor 19 mm Weldon $\frac{3}{4}$ "			Industrial arbor 32 mm Weldon $1\frac{1}{4}$ "	Direct arbor 32 mm Weldon $1\frac{1}{4}$ "
✓	✓		✓	✓	✓	
1	2	2		2	4	4
460	250 – 450	50 – 450	50 – 450	70 – 580	40 – 600	30 – 550
✓	✓	✓	✓	✓	✓	✓
				✓	✓	✓
				✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
		✓	✓	✓	✓	✓
		✓	✓	✓	✓	✓
		✓	✓	✓	✓	✓
15	16	17	7	8	10	12

SPECIAL MACHINES FOR SPECIAL TASKS.



Machine			MAB 825 KTS	AutoMAB 350	AutoMAB 450	MAB 825 V MAB 845 V
	Motor output	Watt	1,800	1,050	1,150	1,800
	Voltage, V AC	Volt	230 - 110/125	230 - 110/125	230 - 110/125	230 - 110/125
	Core drill cutting depth max. mm		55	55	55	110
	Core drill max. Ø HSS/carbidemmm		80	35	45	100
	Twist drill	≤ Ø mm	31.75			31.75
	Reaming	≤ Ø mm	31.75			31.75
	Countersinking	≤ Ø mm	50			50
	Thread cutting	≤ Ø mm	30			30
	Stroke	mm	255	150	150	255
	Magnet dimensions	mm	220 x 220 x 54	84 x 168 x 48	84 x 168 x 48	110 x 220 x 54
	Weight	kg	57.5	15	16	34
	Spindle taper		MT 3		MT 2	MT 3
	Weldon arbor		Industrial arbor 19 mm 3/4"+ 32 mm 1/4"	Direct arbor 19 mm weldon 3/4"	Industrial arbor 19 mm weldon 3/4"	Industrial arbor 19 mm 3/4"+ 32 mm 1/4"
	KEYLESS 19 mm Weldon 3/4"					
	Speed gears		4	1	2	4
	Speed range	rpm	40 – 600	460	250 – 450	40 – 600
	Permanent internal lubrication		✓	✓	✓	✓
	Safety clutch		✓			✓
	Torque control		✓			✓
	Full wave control electronics		✓			✓
	Magnet indicator		✓	✓	✓	✓
	Overheating protection		✓			✓
	Clockwise/anticlockwise rotation		✓			✓
	Carbon brush wear indicator		✓			✓
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MAB 1300 V	MAB 155	AirMAB 5000	RailMAB 915	RailMAB 965
2,300	1,050	830	1,600	1,500
230 - 110/125	230 - 110/125		230 - 110/125	Petrol (Benzin) driven
110	30	55	55	30
130	35	35	36	36
45		23		
50				
80				
42				
310	39	160	160	40
120 x 360 x 67	80 x 160 x 36.5	90 x 160 x 60		
51	11	17.5	17	21.5
MT 4		MT 2	MT 3	
Industrial arbor 19 mm $\frac{3}{4}$ " + 32 mm $\frac{1}{4}$ "	Direct arbor 19 mm weldon $\frac{3}{4}$ "		Industrial arbor 19 mm weldon $\frac{3}{4}$ "	Direct arbor 19 mm weldon $\frac{3}{4}$ "
4	1	1	2	1
30 - 550	320	290 - 575	70 - 580	110 - 280
✓		✓	✓	✓
✓				
✓			✓	
✓			✓	
✓				
✓			✓	
✓				
✓			✓	
29	30	31	32	33

Quality features that make the difference.

Grinding the end teeth



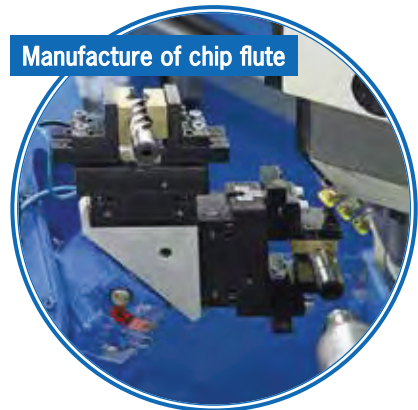
Modern CNC-controlled grinding centres ensure consistent quality.

Perfect cylindrical grinding



Maximum concentricity and a high degree of dimensional stability are guaranteed by the latest generation of cylindrical grinding machines.

Manufacture of chip flute



Optimised work processes and quick loading operations with loading robots speed up the work process.

VarioPLUS coating

The VarioPLUS developed for BDS provides an additional protective layer on the tools. A hard coating provides a high degree of heat resistance and increased hardness of the coating.

The best raw materials



STEEL FOR THE BEST IN THE WORLD

Böhler high-performance tool steel ensures continuous quality of the highest standard.

From the first to the last cut!

HSS-Co 8%, HSS-VarioPLUS and HSS-BDS fully ground core drills



Unprocessed round bar



Mechanically processed



Hardened



Ground to external dimension



Ground with flute and end tooth



Coated VarioPLUS core drills

