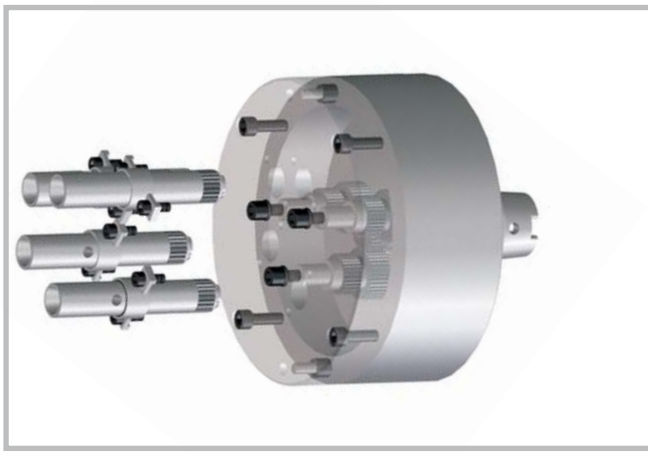
FBS

Flexible
Drill head System

“Universal Drilling” for small - to - medium batches (Symmetrical and asymmetrical hole patterns of varying types).

Each spindle can handle variable machine planes, revolutions and machining tasks.

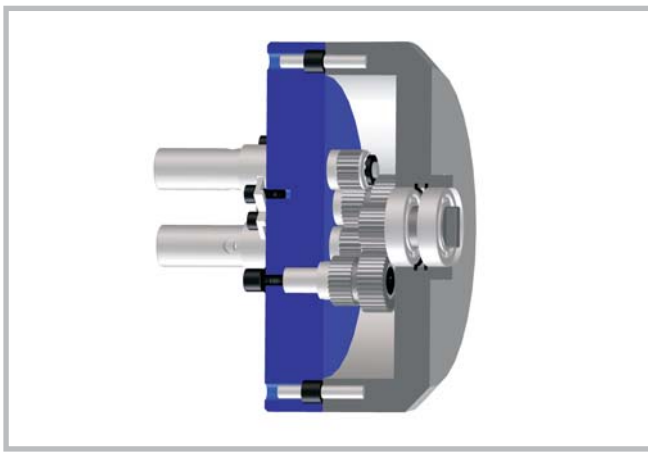


Drilling Tapping Flow Drilling - Thread molding Countersinking and Brushing

The Multi spindle Drill heads going by the Brand Bormaster are gear driven and, thus, sturdier than comparable drilling heads with universal joints.

The performance figure taken from the equipment availability (activity unit) is greatly increased due to minor and schedulable maintenance times.

A large reduction in weight is achieved by only using a single drive wheel compared to an ASP System.
This allows the implementation within a machining center.



Only the Spindle plate has to be replaced should there be changes in dimensions or technical change in the machining tasks.
In general the existing interchangeable spindles (EBS) and idler (EBZ) can be reused.

Resulting in a potential saving of up to 90% compared to a new drill head.

EBS Interchangeable Spindles:

There are many types available depending on the torque, center distance or clamping sleeve.

EBZ Interchangeable Idlers:

There are many different types available depending on ratio.

The flexible Drill head System (FBS) is available in three lines

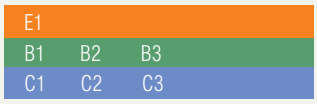
	FBS 0	FBS 1	FBS 2
Max. Drilling Capacity in St 50	8 mm	14 mm	32 mm
Max. Revolution	5000 rpm	3000 rpm	2000 rpm
BM-Code	BM CODE 6513	BM CODE 6523	BM CODE 6533

FBS 0/60

corresponds with line **FBS 0** with a working area diameter of about **60 mm**.

Type	Working area ASP 0	interchangeable spindle / Type	Drilling capacity in St 50	smallest distance in mm	
60	60	EBS/ER8/4	4 mm	M 3	13 mm
75	75	EBS/60/6	6 mm	M 5	18 mm
100	100	EBS/80/8	8 mm	M 6	22 mm
150	150	-			

Clamping sleeve

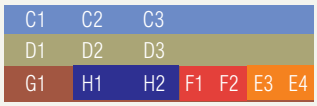


FBS 1/110

corresponds with line **FBS 0** with a working area diameter of about **110 mm**.

Type	Working area ASP 0	interchangeable spindle / Type	Drilling capacity in St 50	smallest distance in mm	
110	110	EBS1/80/8	8 mm	M 6	22 mm
155	155	EBS1/130/11	11 mm	M 10	25 mm
295	295	EBS1/S16/11	11 mm	M 10	25 mm

Clamping sleeve



FBS 2/200

corresponds with line **FBS 2** with a working area diameter of about **170 mm**.

Type	Working area FBS 2	interchangeable spindle / Type	Drilling capacity in St 50	smallest distance in mm	
170	170	EBS2/S20/16	16 mm	M 14	34 mm
200	200	EBS2/S25/20	20 mm	M 16	38 mm

Clamping sleeve

Tapping capacity in St 50

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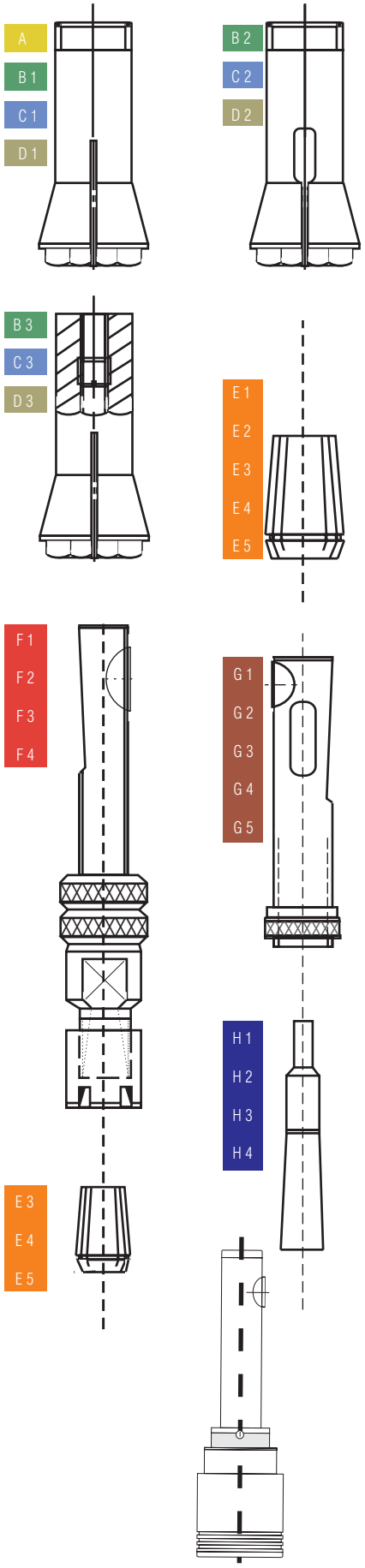
			from - to in mm	grading in mm
E 1	collet	ER 8	1,0 - 5,0	0,5
E 2	collet	ER 11	1,0 - 7,0	0,5
E 3	collet	ER 16	2,0 - 10,0	0,5
E 4	collet	ER 20	2 - 13	0,5
E 5	collet	ER 25	3 - 16	0,5
F 1	collet chuck	ER 16 / Ø 16mm	-	-
F 2	collet chuck	ER 20 / Ø 16mm	-	-
F 3	collet chuck	ER 25 / Ø 28mm	-	-
A	collet	44	1,0 - 4,0	0,1
B 1	collet	60	1,0 - 6,3	0,1
B 3	collet	62	1,0 - 6,3	0,1
B 2	collet	61	M2 - M6	-
C 1	collet	80	1,0 - 8,5	0,1
C 3	collet	82	1,0 - 8,5	0,1
C 2	collet	81	M2 - M8	-
D 1	collet	130	1,0 - 10 10,25 - 14,0	0,1 0,25
D 3	collet	132	1,0 - 10 10,25 - 14,0	0,1 0,25
D 2	collet	131	M2 - M12	-
G 1	shank	MT1 Ø 16mm	-	-
G 2	shank	MT1 Ø 20mm	-	-
G 3	shank	MT1/MT2 Ø 25mm	-	-
G 4	shank	MT1/MT2 Ø 28mm	-	-
G 5	shank	MT2/MT3 Ø 36mm	-	-
H 1	clamping sleeve MT1 DIN 6329		3,0 - 8,0	0,1
H 2	clamping sleeve MT1 DIN 6328		M3 - M10	-
H 3	clamping sleeve MT2 DIN 6329		5,0 - 13,0	0,1
H 4	clamping sleeve MT2 DIN 6328		M4 - M12	-

notice / drawings



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