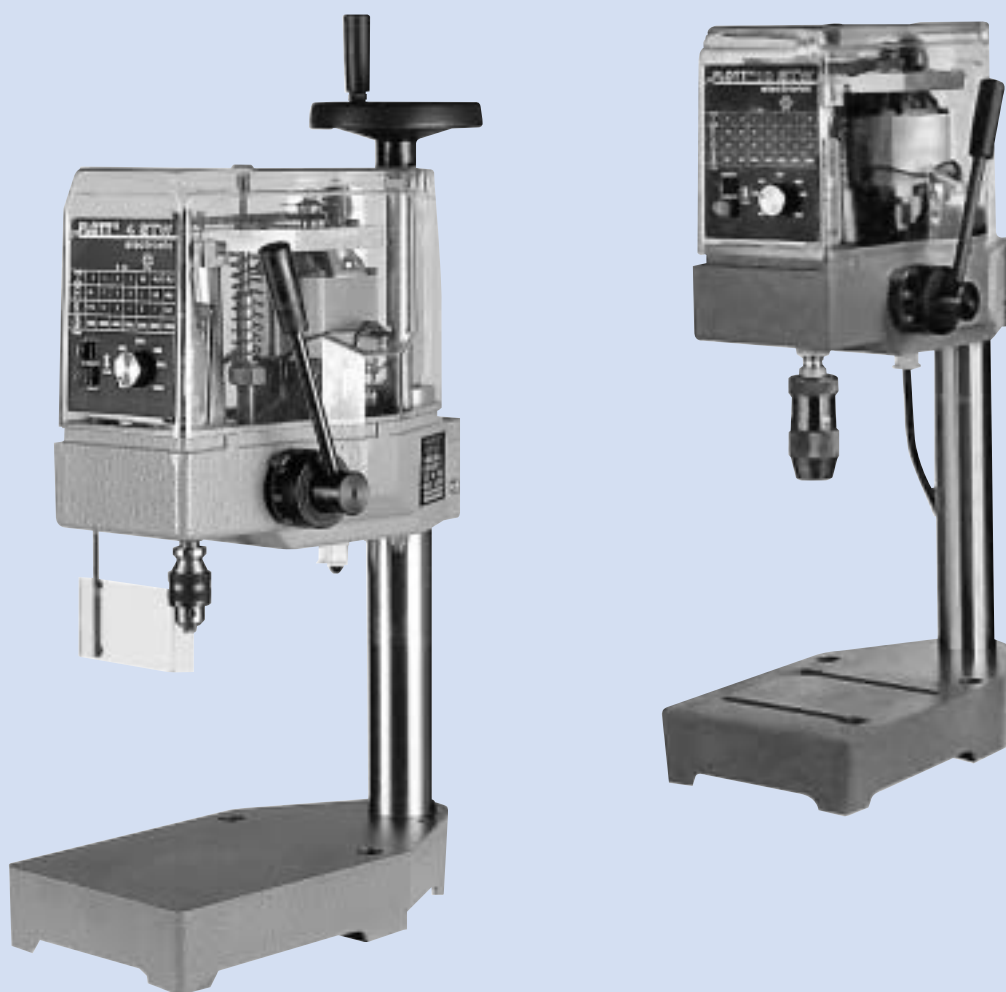


MEDDINGS „FLOTT“ Drilling Machines

The range of „FLOTT“ drilling machines, made in Germany, are all belt driven in a variety of configurations utilising, electronics, stepped pulleys or variable pulleys for speed variation. Ranging from 4 - 40mm capacities all machines are supplied with a 'flag' type chuck guard as illustrated. Also in the range is a bench mounted Mill/Drill machine, tapping machines and machines for thermal drilling.



TECHNICAL DATA

	TB 4 STW	TB 6 STW	TB 8 STW	TB 10 STW
Drilling capacity in mild steel	4 mm	6 mm	8 mm	10 mm
Motor	0.9 kW 1 phase			
Spindle	Fitted chuck			
Drive	Belt, electronic variation			
Spindle speeds rpm 50Hz	1500 - 10000	1250 - 8000	1000 - 6500	500 - 3000
Spindle travel	40 mm			50 mm
Throat depth	180 mm			
Column diameter	50 mm			
Table	180 x 260 mm			
Max distance spindle to table	275 mm			
Overall height	560 mm			
Overall width	215 mm			
Overall depth	365 mm			
Approx nett weight	20kg			

Electronic



FLOTT TB 13 STW

TECHNICAL DATA

TB 13 STW

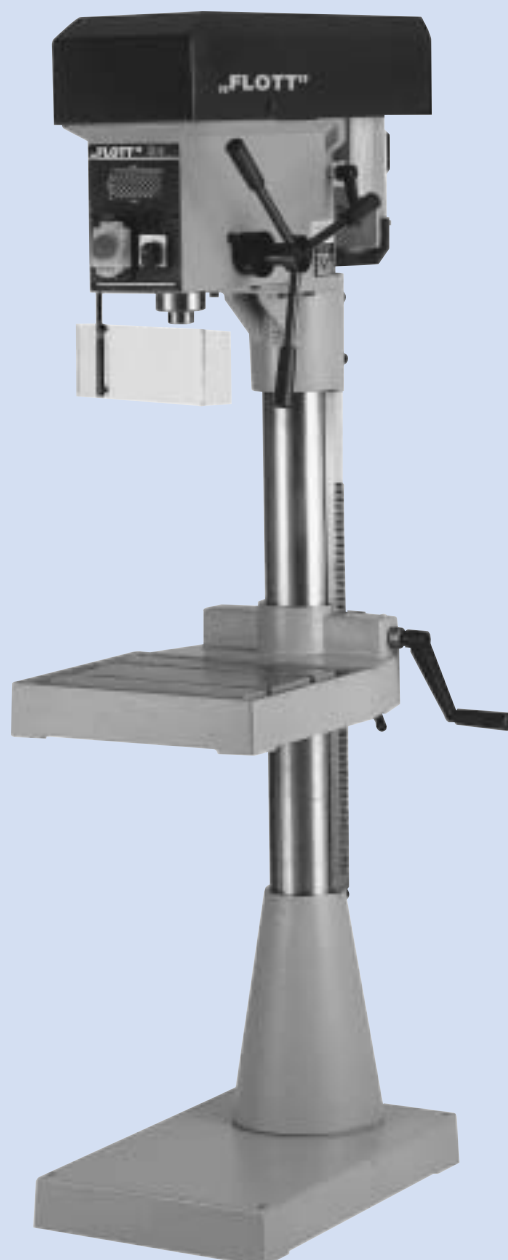
Drilling capacity in mild steel	13 mm
Motor	1.1 kW 1 phase
Spindle	Fitted chuck
Drive	Belt, electronic variation
Spindle speeds rpm 50Hz	400 - 4500
Spindle travel	60 mm
Throat depth	185 mm
Column diameter	60 mm
Table	220 x 300 mm
Max distance spindle to table	360 mm
Overall height	640 mm
Overall width	230 mm
Overall depth	390 mm
Approx nett weight	55kg



TECHNICAL DATA

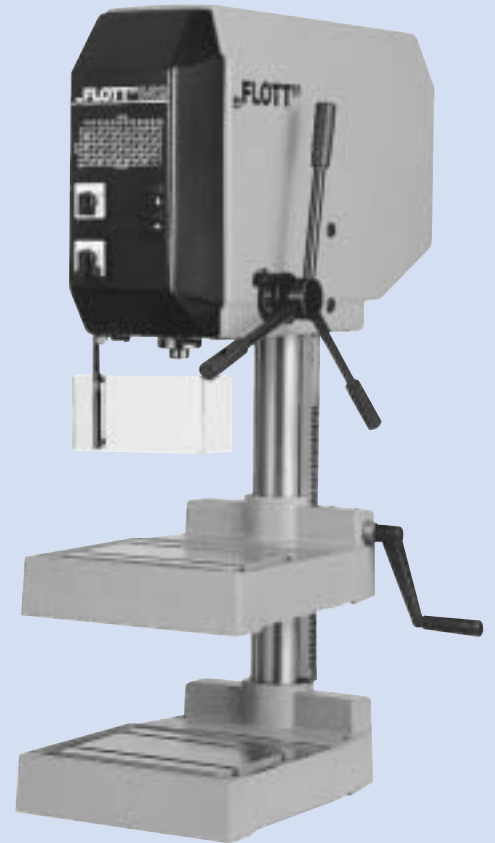
	TB P 18 STE
Drilling capacity in mild steel	18 mm
Motor	1.3 kW
Spindle	2 MT
Drive	Belt, electronic variation
Spindle speeds rpm 50Hz	400 - 7000
Spindle travel	75 mm
Throat depth	185 mm
Column diameter	70 mm
Table	240 x 290mm
Max distance spindle to table	330 mm
Overall height	865 mm
Overall width	280 mm
Overall depth	600 mm
Approx nett weight	85 kg

E Series



TECHNICAL DATA

	TB E3	SB E3	TB E4	SB E4	SB E5
Drilling capacity in mild steel	25 mm		30 mm		35 mm
Motor	0.8 kW		1.3 kW		1.5 kW
Spindle	3 MT		3 MT		3 MT
Drive	Belt, stepped pulleys				
Spindle speeds rpm 50Hz	250-315-500-630-800-1000-1250-1600-2000-2500-4000		125-200-250-315-400-500-630-800-1000-1250-1600-2500		80-125-160-200-250-315-400-500-630-800-1000-1600
Spindle travel	90 mm		125 mm		125 mm
Throat depth	240 mm		260 mm		300 mm
Column diameter	82 mm		110 mm		125 mm
Table	340 x 280mm		420 x 340		590 x 450mm
Max distance spindle to table	420mm	880mm	560mm	820mm	790 mm
Overall height	1240 mm	1782 mm	1240 mm	1782 mm	2100 mm
Overall width	420 mm	420 mm	420 mm	420 mm	590 mm
Overall depth	740 mm	740 mm	740 mm	740 mm	830 mm
Approx nett weight	175 kg	205 kg	220 kg	255 kg	275 kg



TECHNICAL DATA

	TB M1 ST	SB M1 ST	TB M2 ST	SB M2 ST
Drilling capacity in mild steel	18 mm		23 mm	
Motor	0.75 kW		0.8 kW	
Spindle	2 MT		2 MT	
Drive	Belt, variable pulleys			
Spindle speeds rpm 50Hz	R1	500 - 2400	250 - 4000	
Spindle speeds rpm 50Hz	R2	300 - 3300	-	
Spindle travel	75 mm		100 mm	
Power feeds - mm/rev (MV)	-		-	
Throat depth	185 mm		240 mm	
Column diameter	70 mm		82 mm	
Table	240 x 290mm		340 x 280mm	
Max distance spindle to table	330mm	740mm	420mm	880mm
Overall height	865 mm	1710 mm	920 mm	1850 mm
Overall width	280 mm	280 mm	350 mm	350 mm
Overall depth	600 mm	600 mm	745 mm	745 mm
Approx nett weight	84 kg	140 kg	175 kg	205 kg

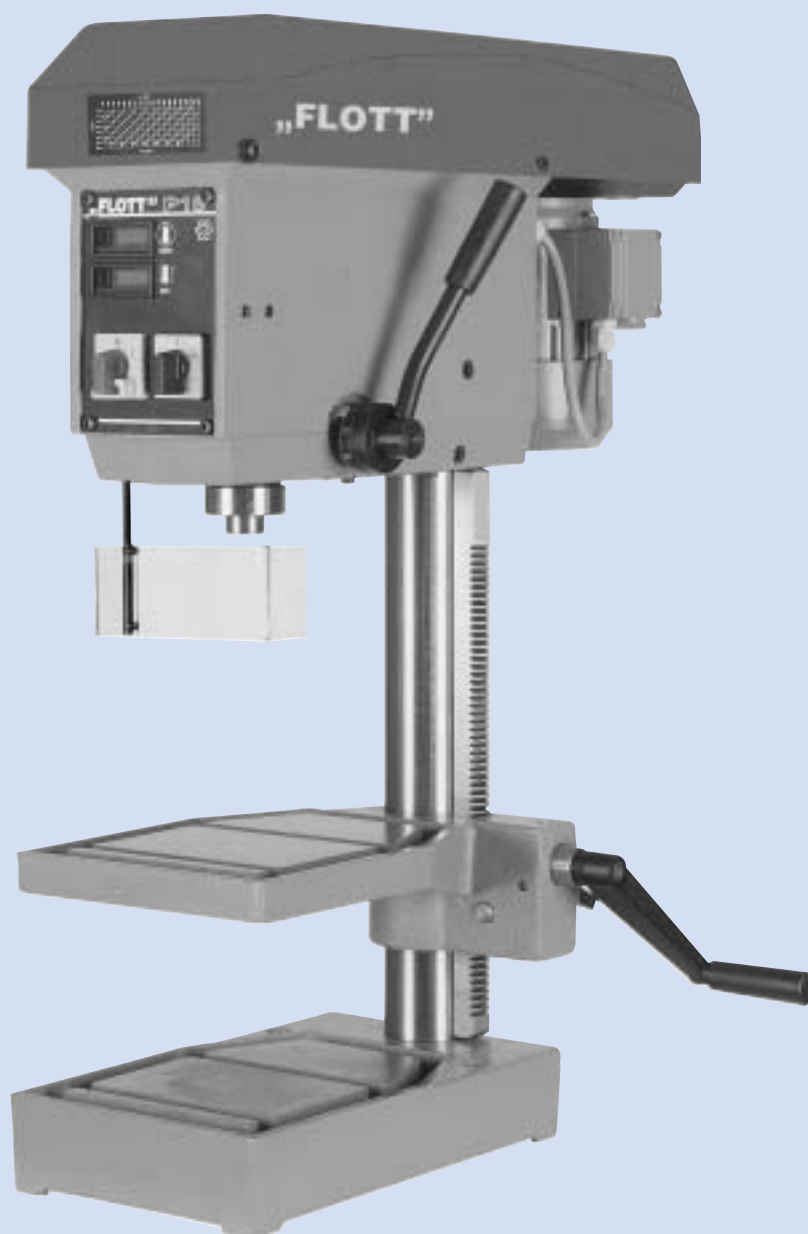
M Series



TECHNICAL DATA

	TB M3 ST	SB M3 ST	TB M4 ST	SB M4 ST	SB M5 ST
Drilling capacity in mild steel	30 mm		35 mm		40 mm
Motor	1.45 kW		2.0 kW		3.0 kW
Spindle	3 MT		3 MT		4 MT
Drive	Belt, variable pulleys				
Spindle speeds rpm 50Hz	125 - 4000		125 - 2000		100 - 2000
Spindle speeds rpm 50Hz	-		-		-
Spindle travel	125 mm		125 mm		160 mm
Power feeds - mm/rev (MV)	-		(0.1 / 0.16 / 0.25)		(0.1/0.16/0.25)
Throat depth	260 mm		280 mm		300 mm
Column diameter	110 mm		110 mm		125 mm
Table - working surface	420 x 340mm		420 x 340mm		590 x 450mm
Max distance spindle to table	530 mm	790 mm	530 mm	790 mm	700 mm
Overall height	1360 mm	1900 mm	1360 mm	1900 mm	2100 mm
Overall width	420 mm	420 mm	420 mm	420 mm	590 mm
Overall depth	830 mm	830 mm	830 mm	830 mm	830 mm
Approx nett weight	240 kg	275 kg	240 kg	275 kg	420 kg

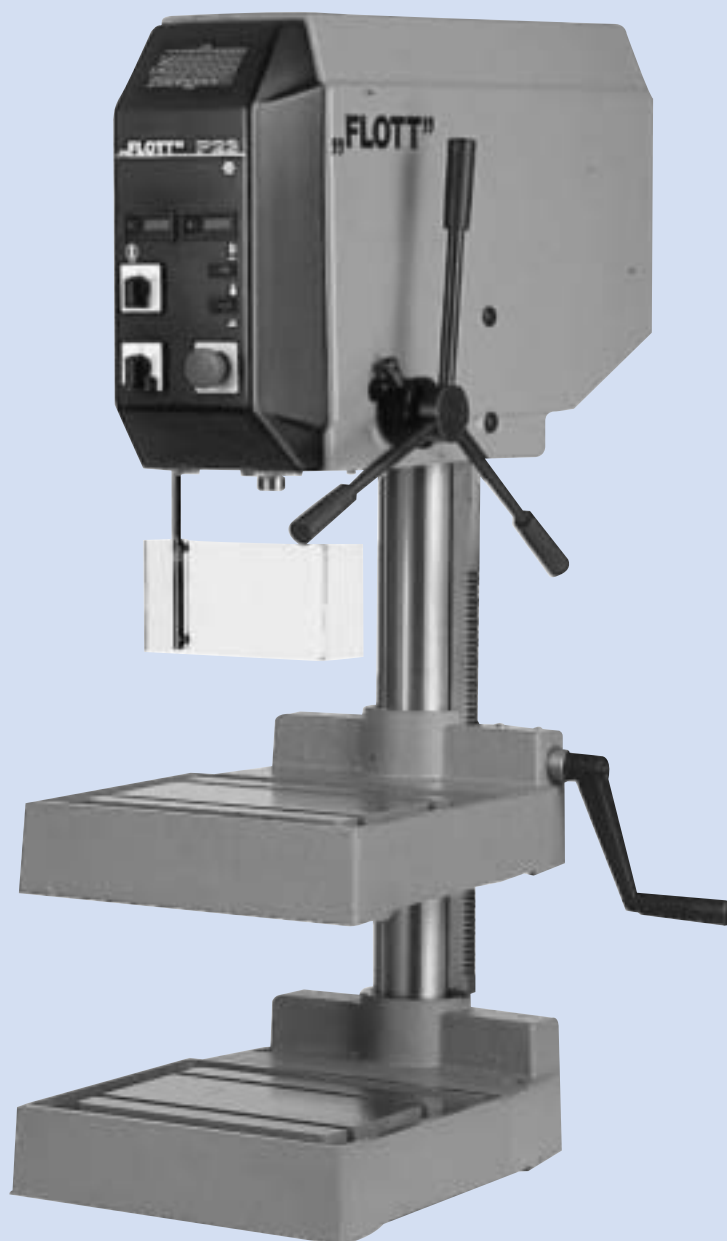
FLOTT TB M3 ST SB M3 ST TB M4 ST SB M4 ST SB M5 ST



TECHNICAL DATA

	TB P 18 ST	SB P 18 ST
Drilling capacity in mild steel	18 mm	
Motor	0.75 kW	
Spindle	2 MT	
Drive	Belt, variable pulleys	
Spindle speeds rpm 50Hz R1	500 - 2400	
Spindle speeds rpm 50Hz R2	300 - 3300	
Spindle travel	75 mm	
Throat depth	185 mm	
Column diameter	70 mm	
Table	240 x 290mm	
Max distance spindle to table	330 mm	740 mm
Overall height	865 mm	1710 mm
Overall width	280 mm	280 mm
Overall depth	600 mm	600 mm
Approx nett weight	85 kg	140 kg

P Series

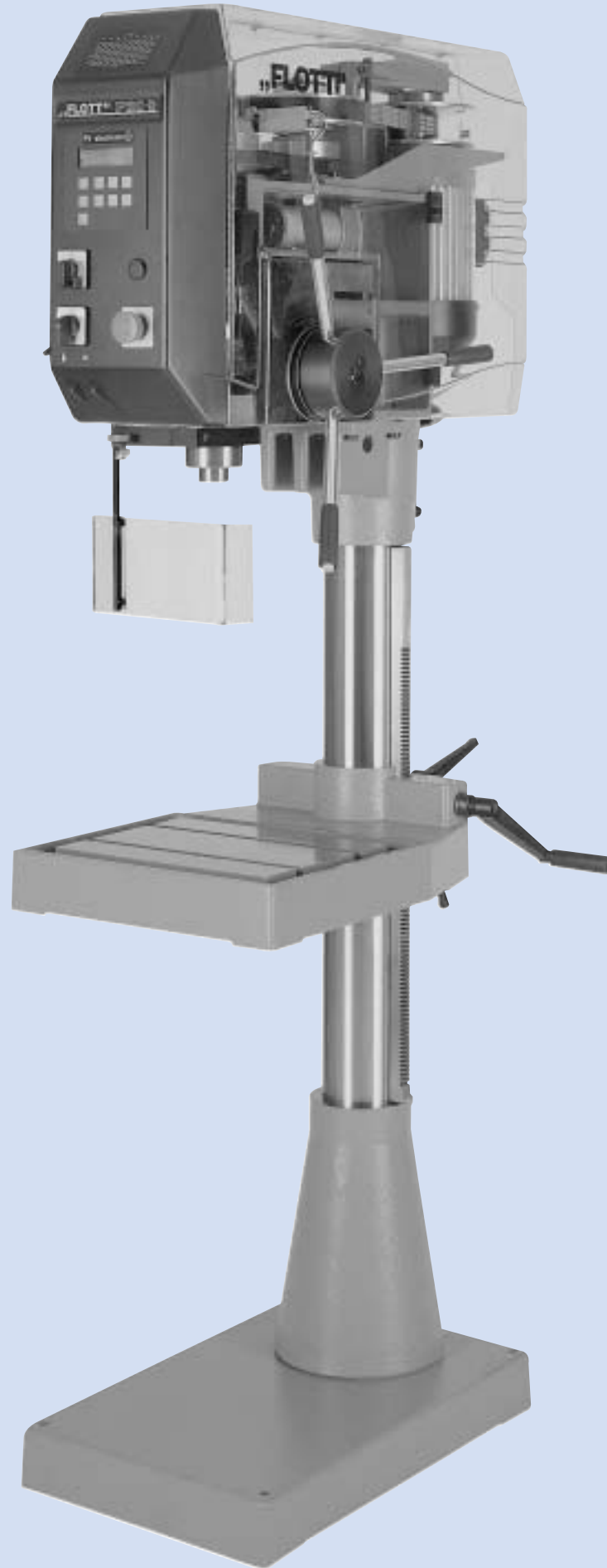


TECHNICAL DATA

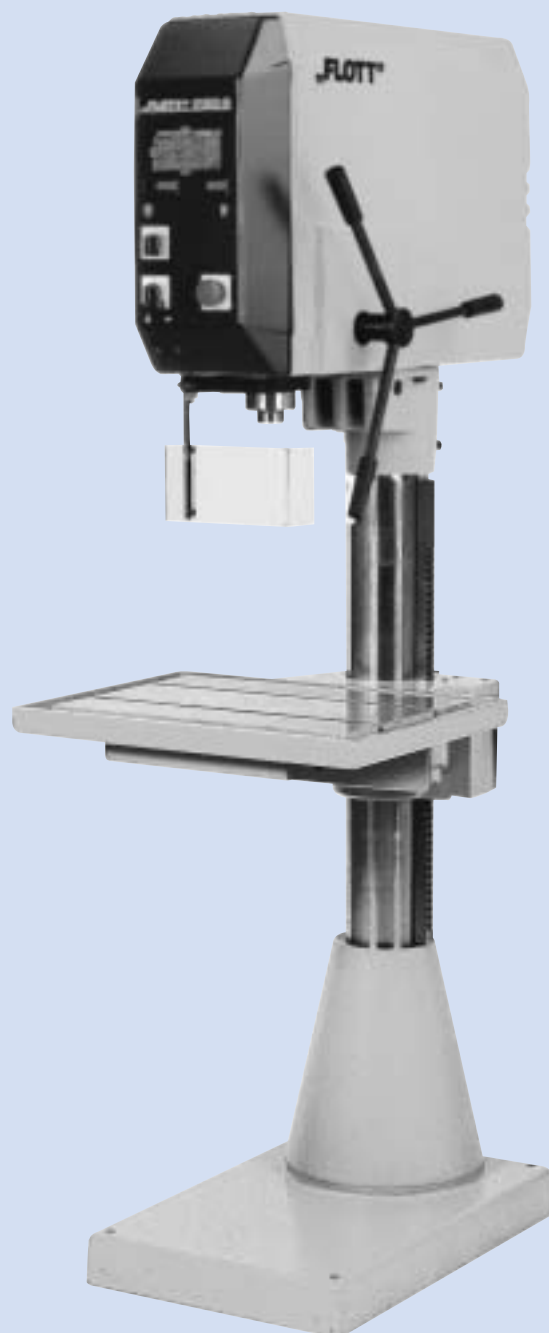
	TB P 23 ST	TBZ P 23 ST	SB P 23 ST
Drilling capacity in mild steel		23 mm	
Motor		0.8 kW	
Spindle		2 MT	
Drive		Belt, variable pulleys	
Spindle speeds rpm 50Hz R1		250 - 4000	
Spindle speeds rpm 50Hz R2		300 - 4800	
Spindle travel		100 mm	
Throat depth		240 mm	
Column diameter		82 mm	
Table	340 x 280mm	n/a	340 x 280mm
Max distance spindle to table	420 mm	550 mm	880 mm
Overall height	920 mm	1070 mm	1850 mm
Overall width	350 mm	350 mm	350 mm
Overall depth	745 mm	745 mm	745 mm
Approx nett weight	175 kg	160 kg	205 kg

FLOTT TB P 23 ST TBZ P 23 ST SB P 23 ST

FLOTT TB P 30 ST SB P 30 ST TB P 35 ST SB P 35 ST SB P 40 ST



P Series



TECHNICAL DATA

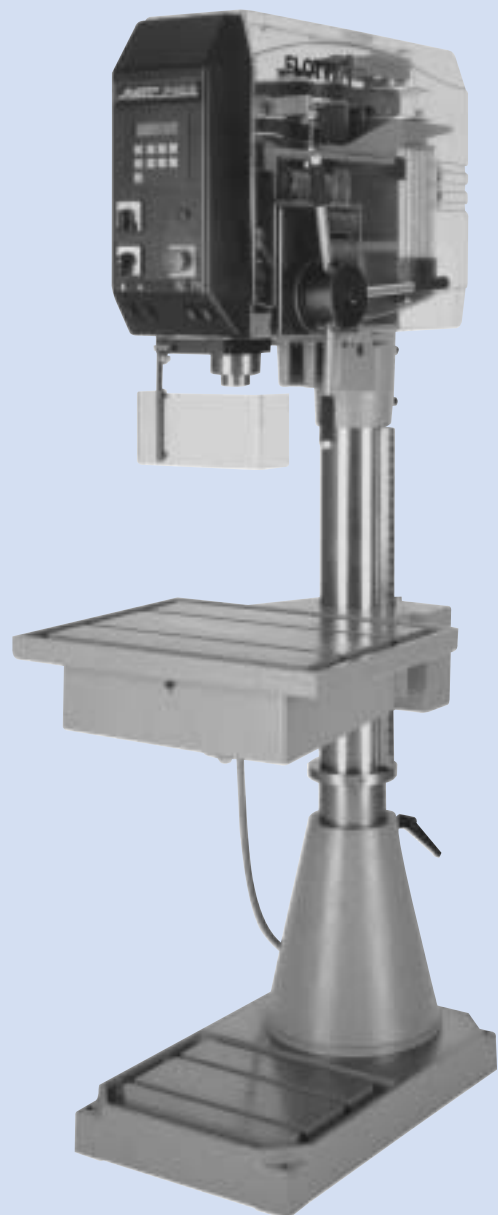
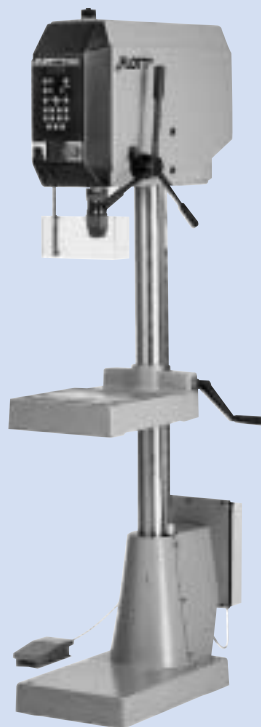
	TB P 30 ST	SB P 30 ST	TB P 35 ST	SB P 35 ST	SB P 40 ST
Drilling capacity in mild steel	30 mm		35 mm		40 mm
Motor	1.45 kW		2.0 kW		3.0 kW
Spindle	3 MT		3 MT		4 MT
Drive	Belt, Variable pulleys				
Spindle speeds rpm 50Hz R1	125 - 4000		125 - 2000		100 - 2000
Spindle speeds rpm 50Hz R2	—		80 - 1280		70 - 1400
Spindle travel	125 mm		125 mm		160 mm
Power feeds - mm/rev (G PV)	(0-300 mm/min)		(0-300 mm/min)		(0-300 mm/min)
Throat depth	260 mm		280 mm		300 mm
Column diameter	110 mm		110 mm		125 mm
Table	420 x 340 mm		420 x 340 mm		590 x 450 mm
Max distance spindle to table	530 mm	790 mm	530 mm	790 mm	700 mm
Overall height	1360 mm	1900 mm	1360 mm	1900 mm	2100 mm
Overall width	420 mm	420 mm	420 mm	420 mm	590 mm
Overall depth	830 mm	830 mm	830 mm	830 mm	830 mm
Approx nett weight	240 kg	275 kg	240 kg	275 kg	420 kg

Drilling/Tapping Machines

FLOTT TB P 23 STE GL TBZ P 23 STE GL SB P 23 STE GL SB P 40 STE GL



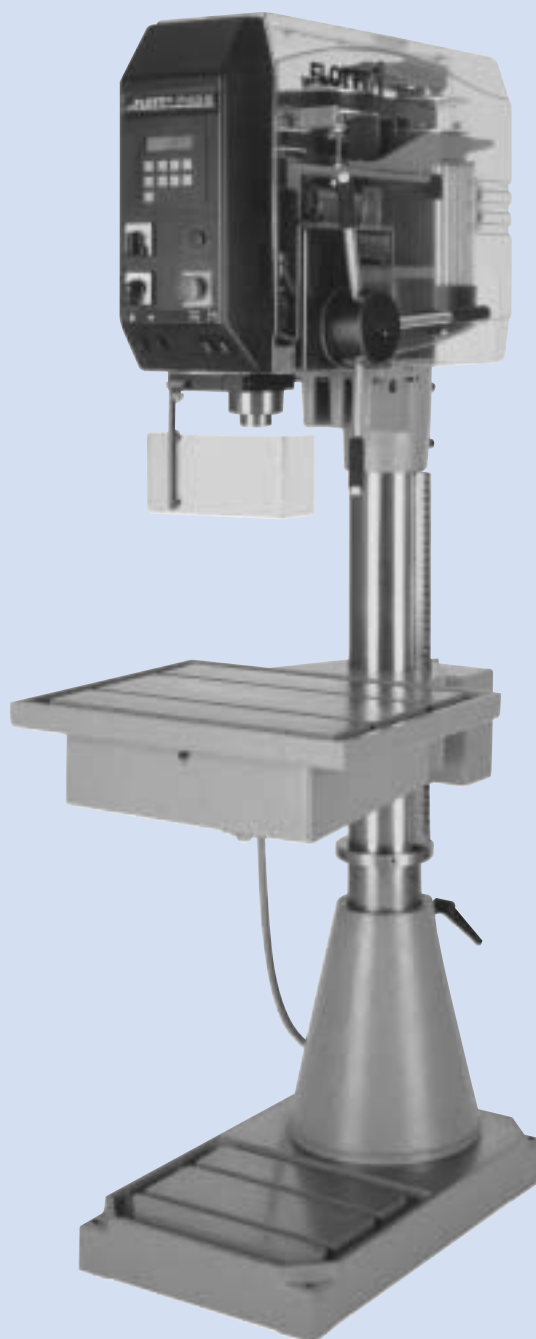
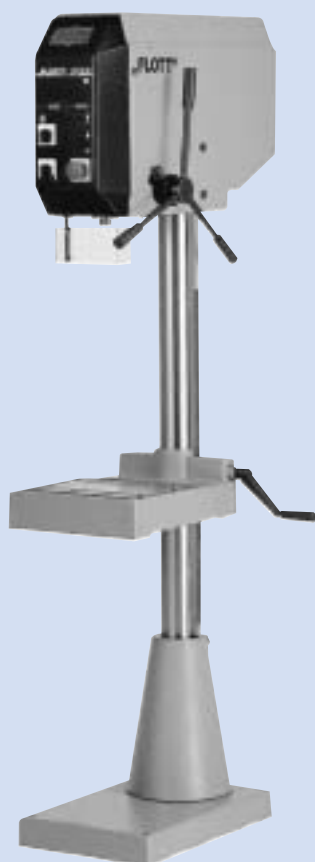
TBZ P 23 STE GL
SHOWING OPTIONAL
BASE UNIT



TECHNICAL DATA

	TB P 23 STE GL	TBZ P 23 STE GL	SB P 23 STE GL	SB P 40 STE GL
Tapping capacity		M3 - M16		M6 - M36
Drilling capacity in mild steel		23 mm		40 mm
Motor		2.2 kW		3.0 kW
Spindle		2 MT		4 MT
Drive		Belt, electronic variation		
Spindle speeds rpm - drilling		0 - 3200		0 - 1000
Spindle speeds rpm - tapping		0 - 1000		0 - 600
Spindle travel		100 mm		160 mm
Feed - drilling		Manual		Manual
Feed - tapping		Leadscrew		Leadscrew
Throat depth		240 mm		300 mm
Column diameter		82 mm		125 mm
Table	340 x 280mm	n/a	340 x 280mm	590 x 450 mm
Max distance spindle to table	420 mm	550 mm	880 mm	700 mm
Overall height	920 mm	1070 mm	1850 mm	2100 mm
Overall width	350 mm	350 mm	350 mm	590 mm
Overall depth	745 mm	745 mm	745 mm	830 mm
Approx nett weight	190 kg	215 kg incl base	220 kg	420 kg

Machines for Thermal Drilling



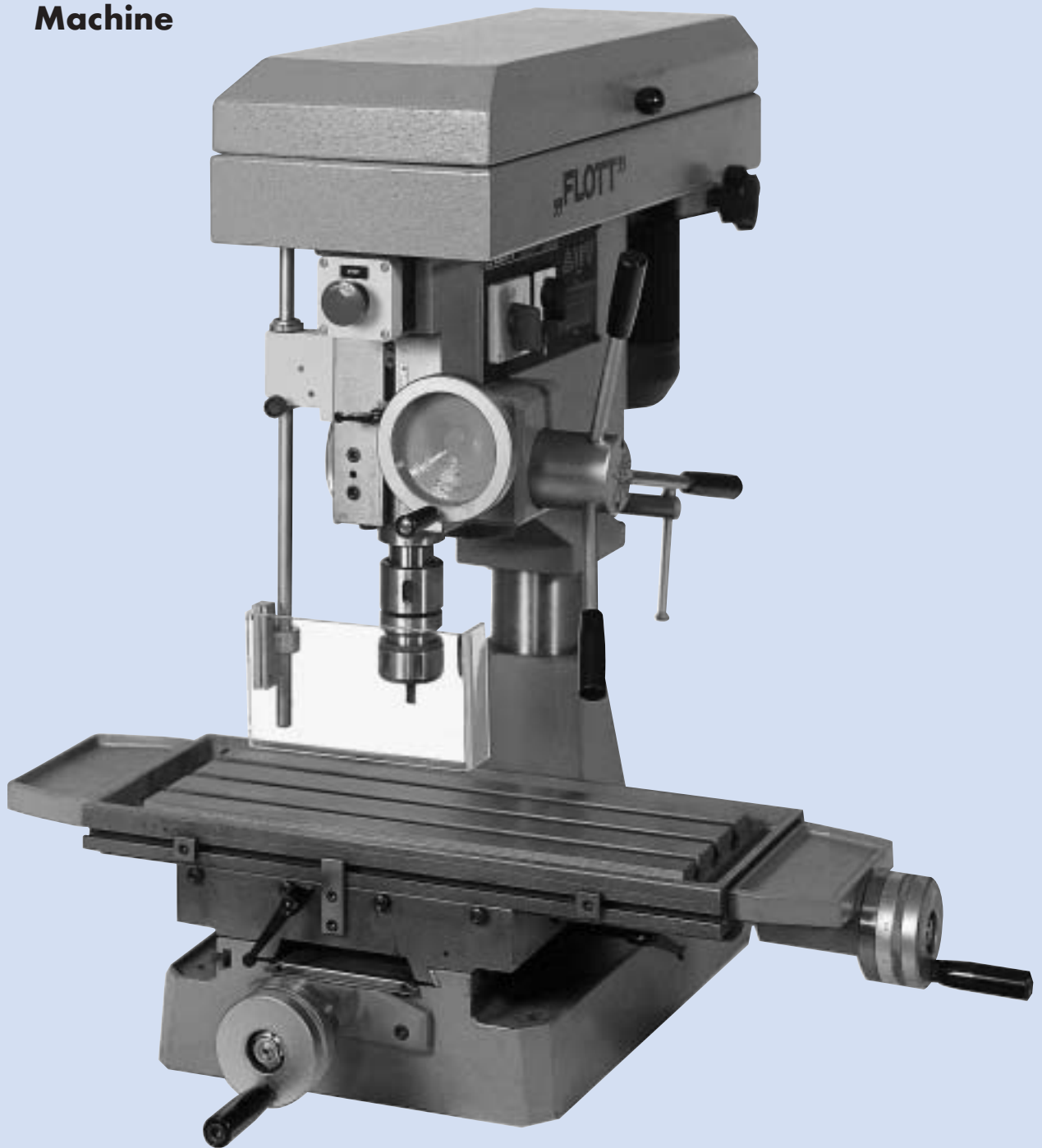
TECHNICAL DATA

	TB P 23 ST-FB	TBZ P 23 ST-FB	SB P 23 ST-FB	SB P 40 ST-FB
Drilling capacity in mild steel		23 mm		40 mm
Max thermal drilling capacity		10 mm		20 mm
Motor		1.5 kW		3.0 kW
Spindle		2 MT		4 MT
Drive	Belt, variable pulleys			
Spindle speeds rpm 50Hz R1		500 - 4000		500 - 4000
Spindle speeds rpm 50Hz R2		n/a		250 - 4000
Spindle travel		100 mm		160 mm
Power feeds - mm/rev (G PV)		n/a		(0-300 mm/min)
Throat depth		240 mm		300 mm
Column diameter		82 mm		125 mm
Table	340 x 280mm	n/a	340 x 280mm	590 x 450 mm
Max distance spindle to table	420 mm	550 mm	880 mm	700 mm
Overall height	920 mm	1070 mm	1850 mm	2100 mm
Overall width	350 mm	350 mm	350 mm	590 mm
Overall depth	745 mm	745 mm	745 mm	830 mm
Approx nett weight	175 kg	160 kg	205 kg	420 kg

FLOTT TB P 23 ST-FB TBZ P 23 ST-FB SB P 23 ST-FB SB P 40 ST-FB

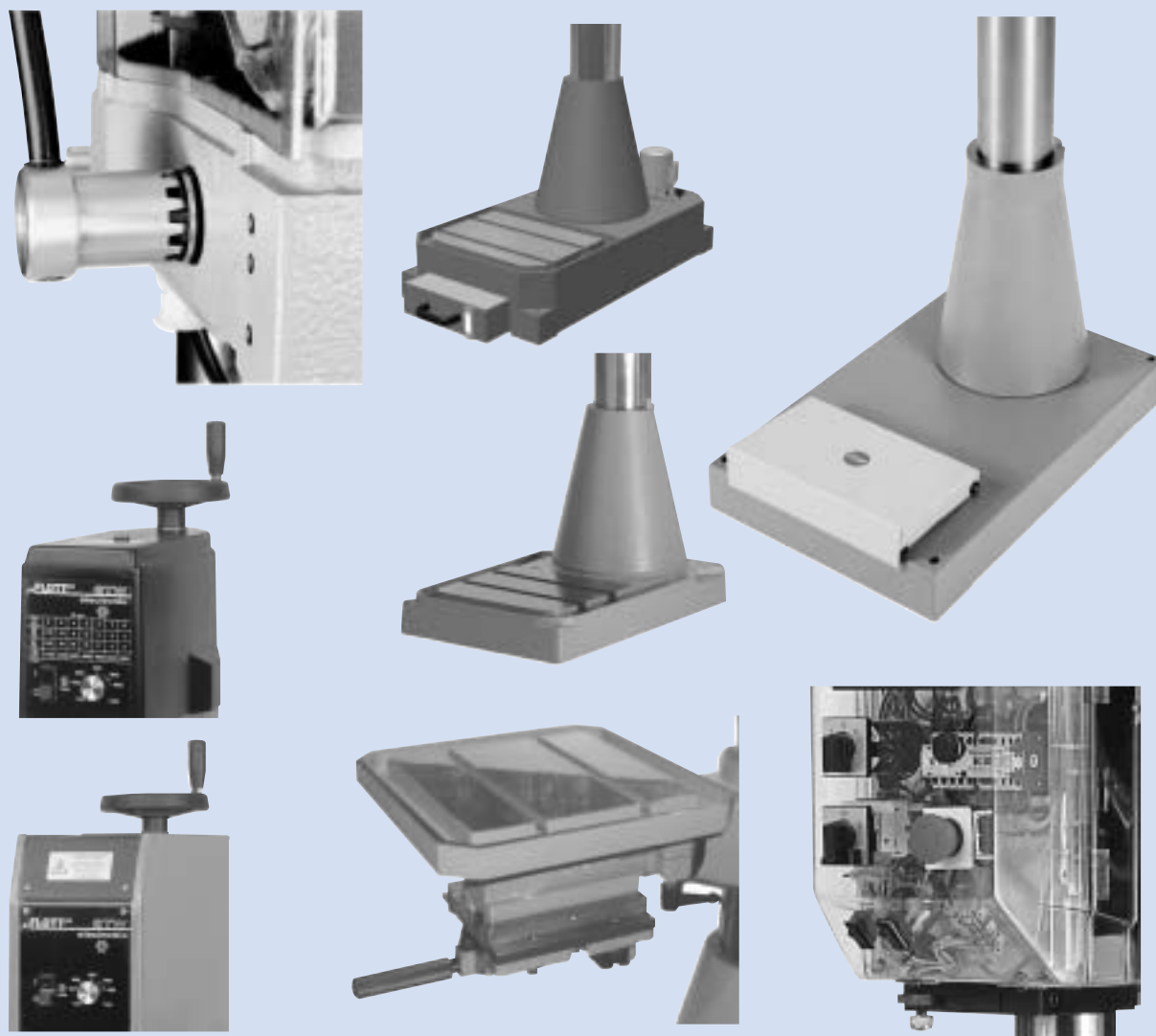
Mill/Drill Machine

FLOTT BF M 3



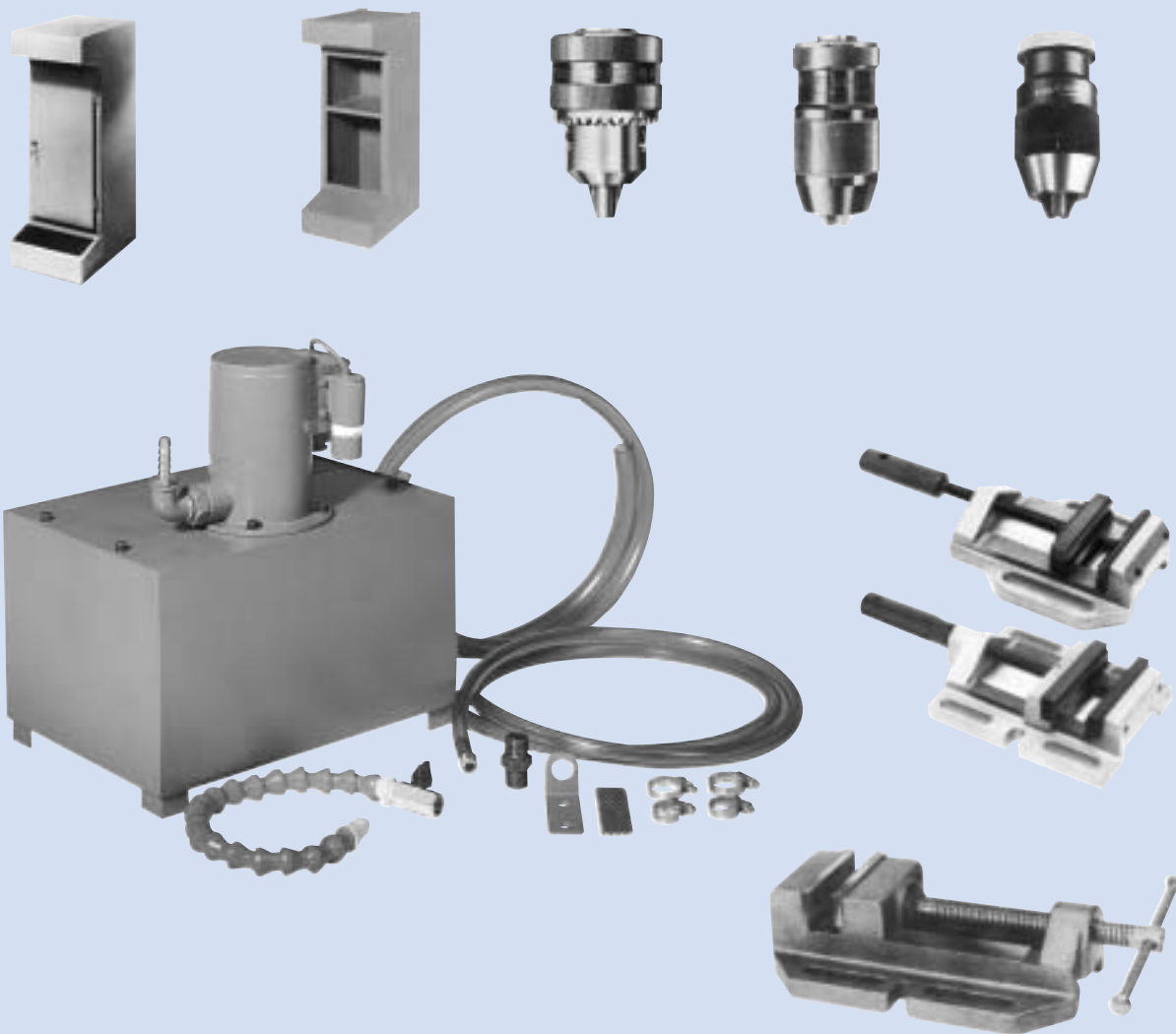
TECHNICAL DATA

Drilling capacity in mild steel	32 mm
Motor	0.75 kW
Spindle	3 MT
Drive	Belt, stepped pulleys
Spindle speeds rpm 50Hz	135 - 250 - 270 - 425 - 500 - 650 - 850 - 950 - 1300 - 1900
Spindle travel	110 mm
Throat depth	250 mm
Column diameter	95 mm
Table	600 x 240 mm
Table movement X x Y	470 x 235 mm
Max distance spindle to table	395 mm
Approx nett weight	210 kg



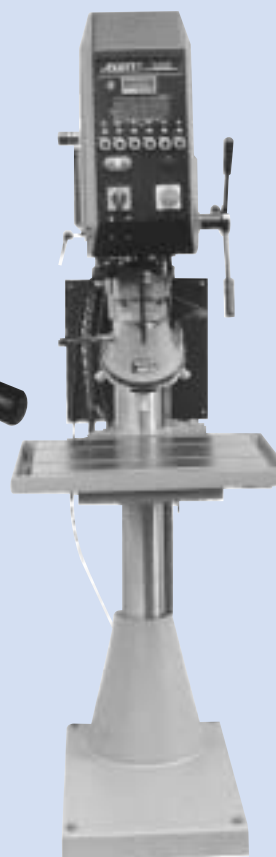
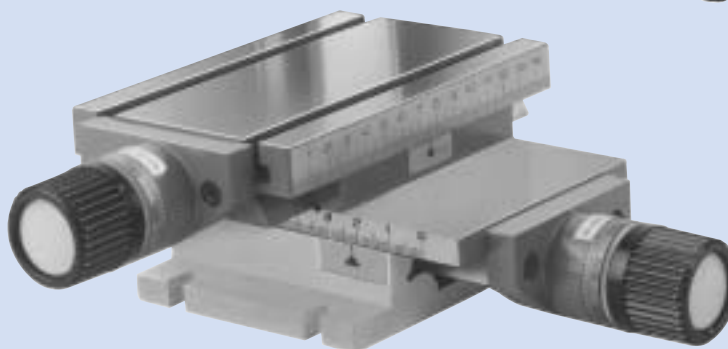
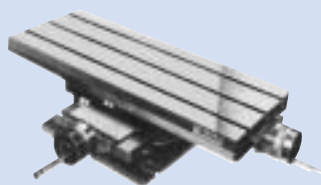
FACTORY OPTIONS FOR MEDDINGS „FLOTT“ DRILLS

Equipment	Suitable for use with	Part No
Adjustable for right or left handed operation	TB 4/6/8/10 STW	290334
Emergency stop button	TB 4/6/8/10 STW	290327
Emergency stop button	TB 13 STW; M 1/2; P 18	290325
Head height adjustment by leadscrew	TB 10 STW	290302
Head height adjustment by leadscrew	TB 13 STW	290337
Machine light	TB 13 STW; M1; P 18	250103
Machine light	M 2/3/4/5; P 23/30/35/40	201500
Low volt worklight with transformer	M 1/2/3/4/5; P 18/23/30/35/40	201510
Foot stop switch on base	SB M 1/2/3/4/5; P 18/23/30/35/40	290510
Tapping equipment, 6-10 holes/min, digital readout	P 18	290607
Tapping equipment, 6-10 holes/min, digital readout	P 23/30/35/40 ST	290605
Motor with fan (recommended when tapping)	P 23 ST	290616
Motor with fan (recommended when tapping)	P 30 ST	290617
Motor with fan (recommended when tapping)	P 35 ST	290618
Motor with fan (recommended when tapping)	P 40 ST	290619
Motor overload protection	M 2/3/4/5; P 23/30/35/40	290400
Feed lever with buttons for power feed	M 3/4/5 ST MV	290120
Combi table with vice	SB M 2; P 23	290116
Combi table with vice	SB M 3/4; P 30/35	290125
Combi table with vice	SB M 5; P 40	290135
Machined base plate with Tee slots	SB M 3/4/5; P 30/35/40	290378
Machined base plate with Tee slots and coolant	SB M 2/3/4/5; P 23/30/35/40	290160
Special colour (1 component paint)	M 2/3/4/5; P 23/30/35/40	290200
Chip breaker software, prevents long chips forming	P 30/35/40 STG PV	290612
Safety module software, automatic spindle stop	P 30/35/40 STG PV	290613
Multi feed software, 4 feed rates per stroke	P 30/35/40 STG PV	290614
Electric table height adjustment	SB P 40	290140
Electric column height adjustment	SB P 40	290150
Remote control for 290140	SB P 40	290155



ADDITIONAL EQUIPMENT FOR MEDDINGS „FLOTT” DRILLS

Equipment	Suitable for use with	Part No
Replacement chuck guard	TB 4/6/8/10/13 STW	290835
	E 3/4/5; M 1; P 18	290815
	M 2/3/4/5; P 23/30/35/40	290852
Chuck guard with interlock	TB 4/6/8/10/13 STW; E 3/4/5; M 1; P 18	290832
	M 2/3/4/5; P 23/30/35/40	290855
Replacement screen	For 290835	290838
	For 290815; 290832	290825
	For 290852; 290855	290854
Machine cabinet/base, lockable door	TB 13 STW; TB P 18	213160
	TB M 2; TB P 23	201160
Machine cabinet/base, open shelf	TB 4/6/8/10 STW	213163
	TB 13 STW; TB P 18	213165
Coolant system, tank, pump, hose etc	All, except TB 4/6/8/10/13 STW	290340
Ground precision keyless chuck 0-6mm	TB 4/6/8 STW	285062
Keyless chuck 0 - 10 mm		285101
Keyless chuck 1 - 13 mm		285131
Ground precision keyless chuck 0-10mm	TB 10 STW	285063
Ground precision keyless chuck 1-13mm	TB 10/13 STW	285064
2 MT arbor to suit the above	M 1/2; P 18/23	285320
Keyless chuck 3 - 16 mm		285161
2 MT arbor to suit the above	M 1/2; P 18/23	285321
3 MT arbor to suit the above	E 3/4/5; M 3/4; P 30/35	285323
4 MT arbor to suit the above	M 5; P 40	290323
No 0 Machine vice	TB 6/8/10/13 STW; M 1; P 18	281501
No 1 Machine vice	TB 6/8/10/13 STW; M 1; P 18	281119
No 6 Machine vice	E 3/4/5; M 2/3/4/5; P 23/30/35/40	280217



OTHER ITEMS ALSO AVAILABLE -

- Co-Ordinate Tables
- Multi-Head drilling machines
- Turret head drilling machines
- Radial arm drilling machines
- Small machining centres

Further details available on request

Range of double ended Bench Grinders with pedestals available, some incorporating dust extraction. Please note that these machines are not suitable for operation on 60Hz supply.

FLOTT TS 150 SL TS 175 SL TS 200 SL TS 250 SL

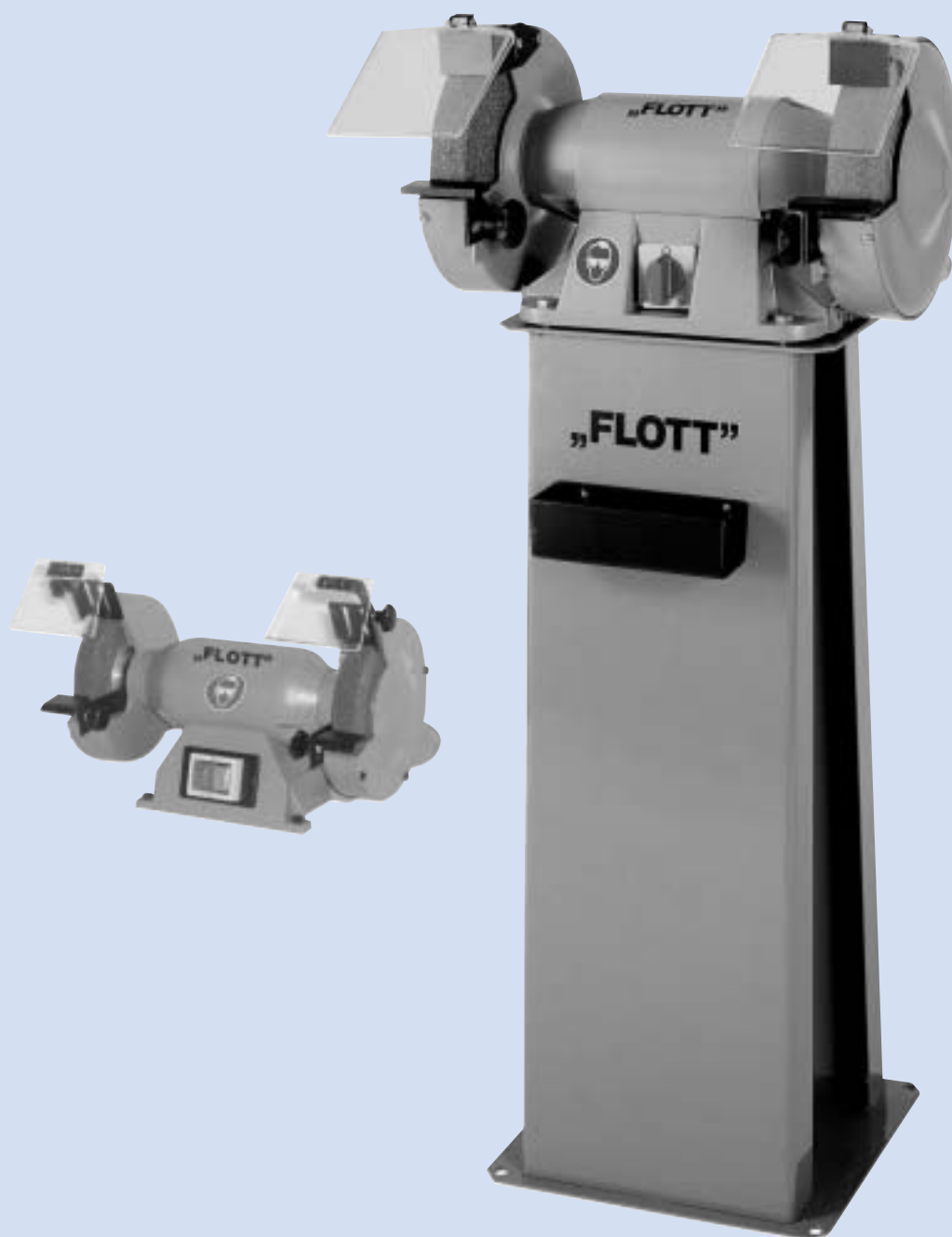


TECHNICAL DATA

	TS 150 SL	TS 175 SL	TS 200 SL	TS 250 SL
Wheel size D x W x B mm	150 x 25 x 20	175 x 25 x 20	200 x 25 x 20	250 x 32 x 32
Speed rpm	3000	3000	3000	1500
Weight	15 kg	16 kg	18 kg	32 kg
Motor 1 phase	0.45 kW	0.5 kW	0.6 kW	n/a
Motor 3 phase	n/a	0.6 kW	0.7 kW	0.9 kW

OPTIONS

Pedestal base	350450	350450	350450	350450
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TS 200 S WITH
OPTIONAL PEDESTAL

TECHNICAL DATA

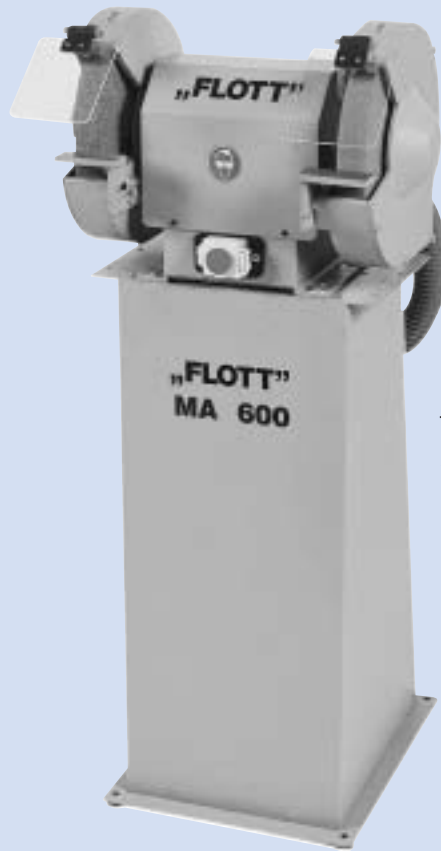
	TS 150 S	TS 175 S	TS 200 S	TS 250 S	TS 300 S
Wheel size D x W x B mm	150 x 25 x 32	175 x 25 x 32	200 x 25 x 32	250 x 40 x 51	300 x 40 x 51
Speed rpm	3000	3000	3000	1500	1500
Weight	15 kg	16 kg	22 kg	34 kg	40 kg
Motor 1 phase	0.52 kW	0.52 kW	0.9 kW	n/a	n/a
Motor 3 phase	0.6 Kw	0.6 kW	0.9 kW	0.9 kW	1.4 kW

OPTIONS

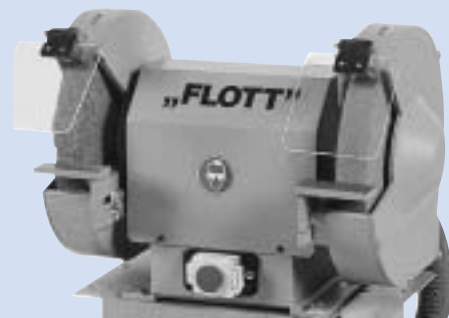
Pedestal base	350435	350435	350435	350435	350435
Pedestal incl dust extraction MA 600	n/a	n/a	330080	330080	330080
Electronic braking (only with pedestal)	350040	350040	350040	350040	350040

FLOTT TS 150 S TS 175 S TS 200 S TS 250 S TS 300 S

FLOTT TS 200 P TS 250 P TS 300 P



TS 300 P WITH OPTIONAL MA600 EXTRACTOR BASE



TECHNICAL DATA

	TS 200 P	TS 250 P	TS 300 P
Wheel size D x W x B mm	200 x 25 x 32	250 x 40 x 51	300 x 40 x 51
Speed rpm	3000	1500	1500
Weight	32 kg	34 kg	70 kg
Motor 3 phase	1.3 kW	1.3 kW	2.2 kW
OPTIONS			
Pedestal base	350435	350435	350435
Pedestal incl dust extraction MA 600	330080	330080	330080
Electronic braking (only with pedestal)	350040	350040	350040



TS 300 P WITH OPTIONAL
MA600 EXTRACTOR BASE



FLOTT KEM 180

TECHNICAL DATA

Wheel diameter mm	180
Speed rpm	3000
Motor 3 phase	0.55 kW
Table mm	380 x 180
Length mm	520
Width mm	380
Height mm	320
Weight	25 kg

OPTIONS

Pedestal base	350435
Pedestal incl dust extraction MA 600	330080



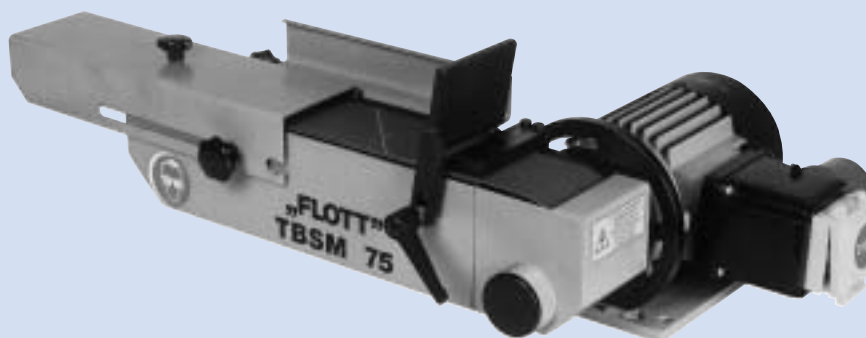
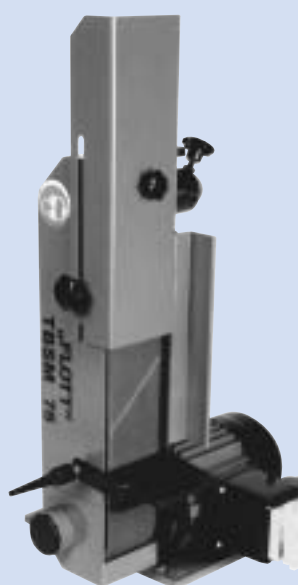
TSM 300 WITH
OPTIONAL BASE

TECHNICAL DATA

	TSM 300	TSM 600
Disc diameter mm	300	600
Speed rpm	1400	945
Motor phase	0.75 kW 1 phase	1.5 kW 3 phase
Table mm	440 x 150	615 x 300
Table tilt	0 - 45°	0 - 45°
Weight	29 kg	148 kg
OPTIONS		
Machine base	372804	incl



BSM 150 WITH OPTIONAL
MA 300 EXTRACTOR



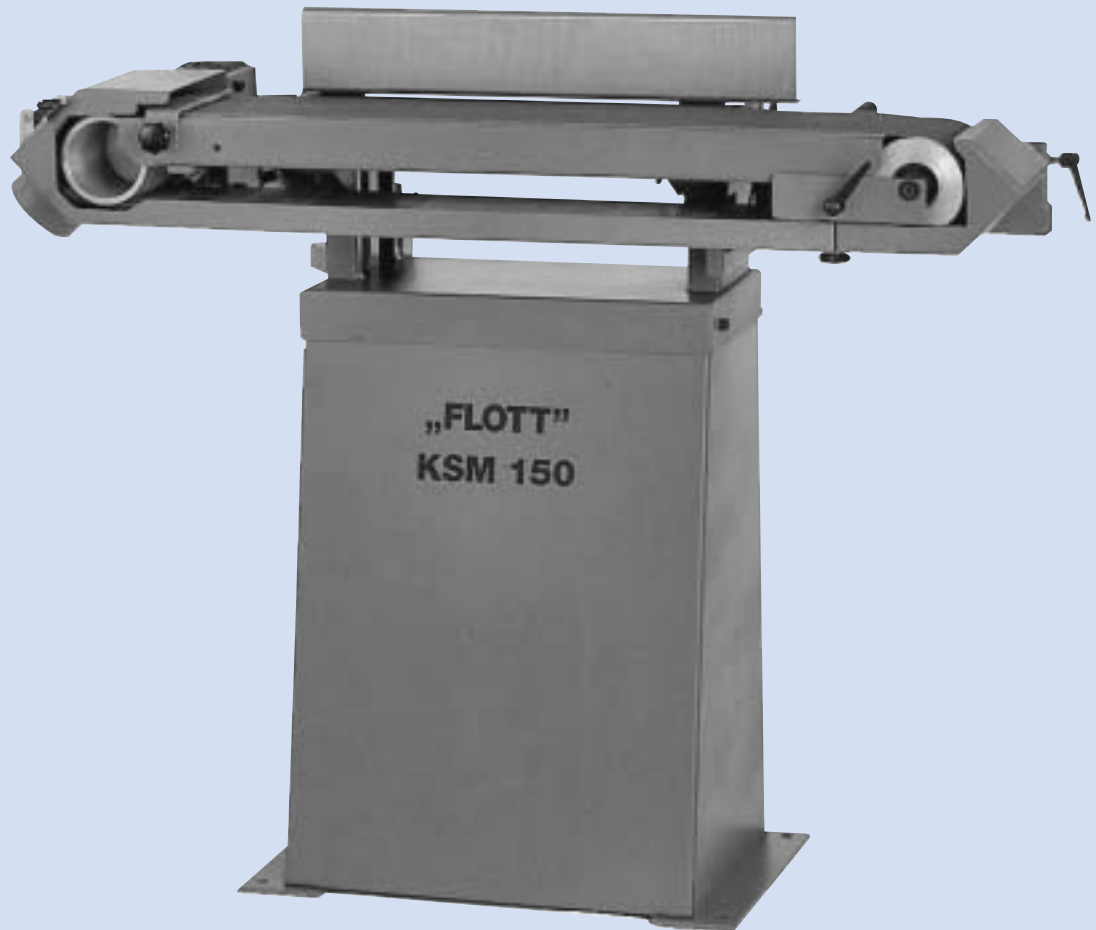
FLOTT TBSM 75 BSM 75 BSM 150

TECHNICAL DATA

	TBSM 75	BSM 75	BSM 150
Belt size mm	75 x 1000	75 x 2000	150 x 2000
Grinding surface mm	300	530	530
Belt speed m/sec	15	36	36
Motor 1 phase	0.55 kW	n/a	n/a
Motor 3 phase	0.55 kW	3.0 kW	3.0 kW
Weight	30 kg	110 kg	125 kg

OPTIONS

Pedestal	350435	n/a	n/a
Dust extractor MA 300	n/a	371101	371101
Pedestal with dust extraction MA 200 1 phase	330280	n/a	n/a
Pedestal with dust extraction MA 400 3 phase	330295	n/a	n/a
RSE 150 Cylindrical grinder	n/a	371365	371365
KEV 45 Chamfering attachment	n/a	371155	371155



TECHNICAL DATA

Belt size mm	150 x 2250
Working area mm	850 x 150
Belt speed m/sec	16
Motor 3 phase	1.1 kW
Length mm	1350
Width mm	470
Height mm	1000
Weight	75 kg

OPTIONS

Disc sanding assembly	371750
Tilting table	371795

Suitable for use with Bench Grinders, KEM 180 and TBSM 75.



MA 600 SHOWN WITH
OPTIONAL 'KNEE STOP SWITCH'

TECHNICAL DATA

	MA 200	MA 400	MA 600
Capacity m ³ /h	250	250	350
Speed rpm	1600	1600	2800
Motor 1 phase	1.1 kW	1.1 kW	n/a
Motor 3 phase	n/a	n/a	0.55 kW
Base dimensions mm	350 x 300	350 x 300	420 x 520
Height mm	820	820	845
Weight	25 kg	25 kg	45 kg



TECHNICAL DATA

	MA 1200	HA 2000
Capacity m ³ /h	1100	2000
Motor 3 phase	0.55 kW	1.5 kW
Dimensions mm	960 X 575 X 1585	890 x 1800 x 560
Weight	70 kg	47 kg
OPTIONS		
100mm Hose per metre	330197	330197