

## Special equipment

### Option 1

Machines with deviating special voltage on request



Order no. 290.100

### Option 2

Machined base plate with T-slots. Only available for SB-version from a column diameter of 82 mm onwards



Order no. | Columns -Ø 82 mm 290.175A  
Order no. | Columns -Ø 110 mm 290.175 B  
Order no. | Columns -Ø 125 mm 290.175 C  
Order no. | Columns -Ø 140 mm 290.175 D

### Option 3

Foot switch as "EMERGENCY STOP" (must be unlocked manually)



Order no. 290.320

### Option 4

Foot switch following technical advice and creation of a requirement profile



Order no. on request

### Option 5 and 6

Column extension Ø 70 max. extension 200 mm

Column extension Ø 82 max. extension 150 mm

Order no. Ø 70 296.286  
Order no. Ø 82 296.287



### Option 7 and 8

Column extension Ø 110 max. extension 300 mm

Column extension Ø 125 max. extension 300 mm

Order no. Ø 110 296.288  
Order no. Ø 125 296.289



### Option 9

Machined base plate with coolant system Filling capacity: max. 15 l, Delivery rate max. 30 l/min



Order no. | Columns -Ø 82 mm 290.160A  
Order no. | Columns -Ø 110 mm 290.160B  
Order no. | Columns -Ø 125 mm 290.160C  
Order no. | Columns -Ø 140 mm 290.160D

### Option 10

Electric coolant system complete with pump, tank, hoses, cable and switch from Series 18 Plus onwards Filling capacity: max. 15 l Delivery rate: max. 30 l/min



Order no. 290.340

## Option 11

**Drill depth fixed stop**  
for optimum repetition accuracy up to 25 Plus



**Order no.** 212.716

## Option 12

**Special colour**  
Base (RAL one-component paint)



**Order no.** 290.200

## Option 13

**Special colour**  
Plus hood  
Possible on request!



**Order no.** 290.201

## Option 14 and 15

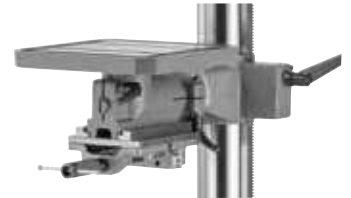
**Commissioning the machine**  
and instruction of the operating personnel  
**Online trainings:**  
[www.flott.de](http://www.flott.de)  
Advice and briefing



**Order no. Com.** 290.018  
**Order no. Online tr.** 229.931

## Option 16 and 17

**Combination drill tables for 110/125/140 columns** with vice and square table 360° rotatable with scale  
Jaw width 120 mm  
span 105 mm  
Table surface 350 x 350 mm



**Order no. 110** 290.125  
**Order no. 125** 290.135  
**Order no. 140** 290.138

## Option 18

**Minimum quantity lubrication**

Machines with deviating special voltage. A metering pump moves the undiluted lubricant to the metering nozzle orifice, where this is formed into a microfine lubricant spray cone with blower air. Lubricant and blower air are guided separately coaxially to the nozzle and are repeatedly adjustable independently of each other.



After activation, the lubricant emerges from the dosing nozzle without any time delay.

Large, stepless adjustment range of the dosing pump. From barely perceptible volume to the maximum delivery rate of 3 cm<sup>3</sup>/min. The compact dosing unit for minimum quantity lubrication: As little as possible, but as much as necessary - i.e. optimally dosed!

**Order no. for 13-15 Plus** 290.395 A  
**Order no. for 18 Plus** 290.395 B  
**Order no. for 20-25 Plus** 290.395 C  
**Order no. for 30-40 Plus** 290.395 D

## Accessories

### F0 precision cross table

- ▶ Table size 230 x 164 mm
- ▶ Travel x/y 120 mm x 110 mm
- ▶ Scale marking 0.05
- ▶ Weight 16 kg
- ▶ Works with drilling machine type series 18/20/23/25 Plus
- ▶ Intermediate plate



Order no.

281.085

### F1 precision cross table

- ▶ Table size 330 x 220 mm
- ▶ Travel x/y 190 mm x 130 mm
- ▶ Scale marking 0.05
- ▶ Weight 33 kg
- ▶ Works with drilling machine type series 18/20/23/25 Plus, series P30 and 30 Plus/MV/NC
- ▶ Intermediate plate



Order no.

281.090

### F2 Precision cross table

- ▶ Table size 430 x 240 mm
- ▶ Travel x/y 240 mm x 160 mm
- ▶ Scale marking 0.05
- ▶ Weight 46 kg
- ▶ Suitable for drilling machine type series P40/40 Plus/MV/NC
- ▶ Intermediate plate



Order no.

281.095

### Machine cabinet I narrow version

- ▶ Solid beech top, 30 mm thick, height-adjustable feet (up to 3 cm), bar-glued and finger-jointed, oil-treated to repel dirt and protect against warping
- ▶ Bearing capacity: 300 kg
- ▶ 1 drawer with roller guide
- ▶ 1 lockable door
- ▶ 60 x 60 x 84 cm



Order no.

250.208

### Machine cabinet | wide version

- ▶ Solid beech top, 30 mm thick, height-adjustable feet (up to 3 cm), bar-glued and finger-jointed, oil-treated to repel dirt and protect against warping
- ▶ Bearing capacity: 300 kg
- ▶ 2 drawers with roller guides
- ▶ 2 lockable doors
- ▶ 120 x 60 x 84 cm



Order no. **250.180**

### LED lighting with 90° articulated arm

- ▶ Fixed mounted
- ▶ Spotlight 90° with flex shaft 225 mm and on/off switch on lamp head
- ▶ 200 lm, approx. 5500 Kelvin (daylight white), IP65



Order no. up to series 25 Plus **290.240**  
Order no. from P30 Plus R3 series **290.241**

### LED lighting with 90° articulated arm with straight magnetic base

- ▶ With 90° magnetic base and separate power supply unit 24 V (2.5 W)
- ▶ Spotlight 90° with flexible shaft 225 or 450 mm and on/off switch on lamp head
- ▶ 200 lm, approx. 5500 Kelvin (daylight white), IP65
- ▶ Magnetic holding force: 250 N



Order no. with 225 flex shaft **290.242**  
Order no. with 450 flex shaft **290.244**

### LED lighting with articulated arm with straight magnetic base

- ▶ With 90° magnetic base and separate power supply unit 24 V (2.5 W)
- ▶ Spotlight 90° with 450 mm and on/off switch on lamp head
- ▶ 200 lm, approx. 5500 Kelvin (daylight white), IP65
- ▶ Magnetic holding force: 250 N



Order no. **290.243**

## Accessories

### Vice [felix] 80 2.0

- ▶ Jaw width: 80 mm
- ▶ Span: 0-120 mm
- ▶ Jaw height: 28 mm
- ▶ Travel: 150 mm
- ▶ Weight: 11.6 kg
- ▶ W x L x H: 95 x 280 x 78 mm



Order no.

281.140

### Vice [felix] 100 2.0

- ▶ Jaw width: 100 mm
- ▶ Span: 0-135 mm
- ▶ Jaw height: 32 mm
- ▶ Travel: 165 mm
- ▶ Weight: 12.8 kg
- ▶ W x L x H: 122 x 343 x 85 mm



Order no.

281.141

### Vice [felix] 120 2.0

- ▶ Jaw width: 120 mm
- ▶ Span: 0-168 mm
- ▶ Jaw height: 40 mm
- ▶ Travel: 200 mm
- ▶ Weight: 20.3 kg
- ▶ W x L x H: 140 x 395 x 105 mm



Order no.

281.142

### Vice [felix] 150 2.0

- ▶ Jaw width: 150 mm
- ▶ Span: 0-200 mm
- ▶ Jaw height: 40 mm
- ▶ Travel: 220 mm
- ▶ Weight: 32.4 kg
- ▶ W x L x H: 170 x 451 x 103 mm



Order no.

281.143

### Precision quick-change drill chuck

- ▶ Ground, self-tensioning
- ▶ Span 0.5-6 mm
- ▶ Socket B12
- ▶ Rotational accuracy:  
0.05 mm



Order no. **285.104**

### Gear rimmed drill chuck

- ▶ Span 0.5-8 mm
- ▶ Socket B12 for turbo drill
- ▶ Rotational accuracy:  
0.20 mm



Order no. **285.103**

### Precision ground quick-change drill chuck

- ▶ self-clamping, for clockwise/  
anticlockwise rotation max.  
8,000 1/min.
- ▶ Span 1 - 13 mm
- ▶ Socket B16
- ▶ Rotational accuracy:  
0.06 mm



Order no. **285.064**

### Quick-change drill chuck, self-tensioning

- ▶ Span 1 - 13 mm
- ▶ Socket B16
- ▶ Rotational accuracy:  
0.17 mm



Order no. **285.133**

## Accessories

### Quick-change drill chuck, self-tensioning

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- ▶ Span 3-16 mm
- ▶ Socket B18
- ▶ Rotational accuracy:  
0.17 mm



**Order no.** 285.165

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### Taper mandrel (insertion pin)

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**Order no.** for B16/MK I 285.310  
**Order no.** for B16/MK II 285.320  
**Order no.** for B18/MK II 285.321  
**Order no.** for B18/MK III 285.323  
**Order no.** for B18/MK IV 290.323  
**Order no.** for B18/MK V 287.097

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### Tap holder

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- ▶ no automatic loosening in case of vibrations due to laterally mounted spindle for M4-M12 DIN 371
- ▶ Span: 1-10 mm
- ▶ Socket: B16
- ▶ Total length: 80 mm



**Order no.** 285.109

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### Drill drift (Semi-automatic)

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**Order no.** for 1-3 285.334  
**Order no.** for 4-6 285.335

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## Reduction sleeves



Order no. for MK II/MK I	285.330
Order no. for MK III/MK II	285.331
Order no. for MK III/MK I	285.332
Order no. for MK IV/MK III	285.333
Order no. for MK IV/MK II	285.336
Order no. for MK V/MK IV	285.092

## Multi-purpose collet for GBF 12

- ▶ Span 3.5-6.5 mm
- ▶ Span 6.5-10 mm



Order no. for 3.5-6.5 mm	285.084
Order no. for 6.5-10 mm	285.085

## GBF 12/MK 2 (tapping chuck)

- ▶ Tapping chuck with gate pressure booster. Length compensation push/pull for clockwise and anti-clockwise rotation.
- ▶ Cutting range M3-M12
- ▶ Without collet



Order no.	285.083
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## Multi-purpose collet for GBF 18

- ▶ Span 2.8-7 mm
- ▶ Span 7-13 mm



Order no. for 2.8- 7 mm	285.087
Order no. for 7-13 mm	285.088





## Accessories

### GBF 18/MK 3

- ▶ Tapping chuck with gate pressure booster. Length compensation push/pull for clockwise and anti-clockwise rotation.
- ▶ Cutting range M5-M18
- ▶ Without collet



Order no. for M5-M18

285.086

### Multi-purpose collet for GBF 30

- ▶ Span 10-16 mm
- ▶ Span 16-23 mm



Order no. for 10 - 16 mm  
Order no. for 16 - 23 mm

285.090  
285.091

### GBF 30/MK 4

- ▶ Tapping chuck with gate pressure booster. Length compensation push/pull for clockwise and anti-clockwise rotation.
- ▶ Cutting range M10-M30
- ▶ Without collet



Order no.

285.089

### HSS-G twist drill set in ABS box

- ▶ Multi-range drill bit with reinforced drill core and parabolically shaped flute for better chip evacuation DIN 338 - cross ground 130 degrees, 25-pcs., 1-13 mm x 0.5 mm



Order no.

285.123

### HSS-G twist drill set in ABS box

- ▶ DIN 338 N, 25-pcs  
1-13 mm x 0.5 mm



Order no.

285.124

### HSS-E machine tap in ABS box

- ▶ DIN 371/376, M3 - M12,  
form B, with core drill, 14  
pcs. for through hole



Order no.

285.163

### HSS-G taper and deburring countersink set in ABS box

- ▶ DIN 335 C, 90 degrees, 6 pcs.  
6.3-8 mm  
3-10 mm  
4-12 mm  
4-16 mm  
5-20.5 mm



Order no.

285.162

### HSS-E machine tap in ABS box

- ▶ DIN 371/376, M3 - M12,  
Form C, 35 degrees RSP,  
14 pcs. incl. core drill set and  
thread for through holes



Order no.

285.164

