



# FLOTT

## GENERAL CATALOG



DRILLING  
TECHNOLOGY



GRINDING  
TECHNOLOGY



SAWING  
TECHNOLOGY



CLAMPING  
TECHNOLOGY



## High Quality. By Tradition.

In 1854, a small family company was set up in Remscheid which developed braces and breast drill machines of the highest quality and produced these for the German market.

With these products, the Arnz FLOTT company wrote industrial history and is therefore regarded in industry circles as a "pioneer" of drilling technology. Today, due to its formidable experience and product quality, the company enjoys a noted position on the international market. Always close to its customers. Because with its partners in Europe, FLOTT is not only one of the most traditional, but also Europe's leading manufacturer of state-of-the-art, high quality drilling, grinding and sawing machines.

## Tradition demands - innovation.

Permanent optimisations and, above all, intelligent, industry-oriented innovations in drilling, grinding and sawing technology – as evidenced by numerous patents, property rights, customer and design awards – are more than clear proof of the innovative strength and the legendary pioneering spirit of the company.

For the customers, the acquisition of a FLOTT machine, means being able to rely on having purchased a perfectly mature piece of drilling, grinding and sawing technology. The product always reflects the most state-of-the-art production technology. With a winning warranty thrown in: traditionally highest quality and service.

## Service determines - customer satisfaction.





Our experienced employees are ready for action every day to ensure that machines and devices are always up to date – or in the event of a repair that downtimes are reduced to a minimum.



## Overview drilling machines

Machine	Drilling capacity/ normal drilling capacity in mm	Thread cutting capacity	Revolutions per minute 1/min	Motor/FU kW	Page
<b>Drilling machines- Vice [felix] 2.0</b>					8
<b>TB 10 Eco Plus</b>	12		250-3,000	0.45 AC 230 V	12
<b>TB 10 Basic Plus</b>	12		250-3,000	0.45 AC 230 V	14
<b>TB 10 Plus</b>	10/12	max. M6	60-6,000	0.54 3-phase current, frequency-controlled, (network connection 230 V)	16
<b>Turbo drill</b>	6/8	max. M5	100-10,000	0.54 3-phase current, frequency-controlled, (network connection 230 V)	18
<b>TB/TBZ/SB 13 Plus</b>	13/15	max. M10	40-4,000	0.54 3-phase current, frequency-controlled, (network connection 230 V)	20
<b>TB/TBZ/SB 15 Plus</b>	15/18	max. M12	40-4,000	0.75 3-phase current, frequency-controlled, (network connection 230 V)	22
<b>TB/TBZ/SB 18 Plus</b>	18/20	max. M12	30-3,000	0.75 3-phase current, frequency-controlled, (network connection 230 V)	24
<b>TB/TBZ/SB 20 Plus</b>	20/23	max. M14	40-4,000	1.5 3-phase current, frequency-controlled, (400 V)	26
<b>TB/TBZ/SB 23 Plus</b>	R1 23/25 R2 20/23	R1 max. M16 R2 max. M12	20-2,000 R1 30-3,000 R2	1.5 3-phase current, frequency-controlled, (400 V)	28
<b>TB/TBZ/SB 25 Plus</b>	R1 23/25 R2 20/23	R1 max. M16 R2 max. M12	20-2,000 R1 30-3,000 R2	1.5 3-phase current, frequency-controlled, (400 V)	30
<b>SB 30 Plus</b>	R1 27/32 R2 25/30 R3 30/35	R1 max. M24 R2 max. M20 R3 max. M30	0-1,000 R1 0-1,600 R2 0-4,000 R3	3.0 3-phase current, frequency-controlled, (400 V)	32
<b>SB 30 MV Plus</b>	R1 27/32 R2 25/30 R3 30/35	R1 max. M24 R2 max. M20 R3 max. M30	0-1,000 R1 0-1,600 R2 0-4,000 R3	3.0 3-phase current, frequency-controlled, (400 V)	32
<b>SB 40 Plus</b>	R1 27/32 R2 25/30 R3 30/35	R1 max. M30 R2 max. M24 R3 max. M36	0-1,000 R1 0-1,600 R2 0-4,000 R3	4.0 3-phase current, frequency-controlled, (400 V)	34
<b>SB 40 MV Plus</b>	R1 27/32 R2 25/30 R3 30/35	R1 max. M30 R2 max. M24 R3 max. M36	0-1,000 R1 0-1,600 R2 0-4,000 R3	4.0 3-phase current, frequency-controlled, (400 V)	34
<b>SB 20 FB Plus</b>		M12	40-4,000	1.5 3-phase current, frequency-controlled, (400 V)	36
<b>SB M3 ST</b>	25/30	max. M20	125-4,000	0.9/1.45 3-phase current, 400 V, pole-changeable	40
<b>SB M5 ST</b>	35/40	max. M30	100-2,000	1.5/3.0 3-phase current, 400 V, pole-changeable	42
<b>SB P30 ST</b>	25/30	max. M20	125-4,000	0.9/1.45 3-phase current, 400 V, pole-changeable	44
<b>SB P30 STG PV</b>	25/30	max. M20	125-4,000	0.9/1.45 3-phase current, 400 V, pole-changeable	46
<b>SB P40 ST</b>	35/40	max. M30	100-2,000 R1 70-1,400 R2	1.5/3.0 3-phase current, 400 V, pole-changeable	48
<b>SB P40 STG PV</b>	35/40	max. M30	100-2,000 70-1,400 R2	1.5/3.0 3-phase current, 400 V, pole-changeable	50
<b>GB 50 MV</b>	50	max. M36	Gear stages	3.0 3-phase current, 400 V	52
<b>SB 30 NC Plus</b>	R1 27/32 R2 25/30 R3 30/35	R1 max. M24 R2 max. M20 R3 max. M30	0-1,000 R1 0-1,600 R2 0-4,000 R3	3.0 3-phase current, frequency-controlled, (400 V)	54
<b>SB 40 NC Plus</b>	R1 27/32 R2 25/30 R3 30/35	R1 max. M30 R2 max. M24 R3 max. M36	0-1,000 R1 0-1,600 R2 0-4,000 R3	4.0 3-phase current, frequency-controlled, (400 V)	56
<b>SB P50 CNC</b>	50	M27	100-2.100	2,2-3 Kw	58
<b>Multi-head drilling machine</b>	on request				60

### Colour description

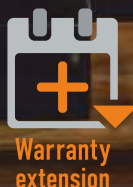
Plus series	
Classic machines	
Gear drilling machines	
NC/CNC machine	

You can find the corresponding drill packages in the respective machine's technical data.



# DRILLING TECHNOLOGY

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■ <b>Plus Series</b> drilling machines .....	10-37
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■ <b>Gear</b> drilling machine .....	52-53
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- ▶ 3-year warranty for single-shift operation (except GB 50 MV)
- ▶ Warranty extension to 4 or 5 years available!

## FLOTT Drilling Technology / Explanations

With its newly developed PLUS range of drilling machines, FLOTT offers a modular system that provides the user with an optimum selection in the drilling range from 0.5 to 50 mm.

The drilling machine types are **sorted** according to drilling or thread cutting capacity. The key **accessories / special equipment** are listed for the assemblies.

The FLOTT machines are characterised by modern, ergonomic **design**, and the technical progress has been documented with numerous **industrial property rights**.

**Modern electronics** such as **digital** depth and speed indicators and **electronic stepless** drives, have been part of FLOTT's standard equipment for years.

**The robust construction** and **durability** of our drilling machines are appreciated worldwide.

**Safety** has always been a top priority at FLOTT. That's why we observe all the current safety requirements.

**Do you have any questions?** The FLOTT team will be happy to advise you on your individual requirements!

### Models



#### TB

Bench drill  
with intermediate table and  
optional machine cabinet



#### TBZ

Bench drill  
without intermediate table  
with optional machine cabinet



#### SB

Column drill

### Explanation of abbreviations

Flow forming

Mechanical feed, with electromagnetic clutch

Programmable feed with electromagnetic feed clutch, electronically controlled; digital multifunction display

Gear drilling machine

Controlled z-axis (feed/return)

FB

MV

PV-  
electronic

GB

NC

## FLOTT drilling technology / control panel

### The control panel (only for Plus Series)

- ▶ Clear OLED control panel with central rotary button
- ▶ The submenu offers additional functions and can be accessed by pressing the red stop button and the drilling/tapping button simultaneously

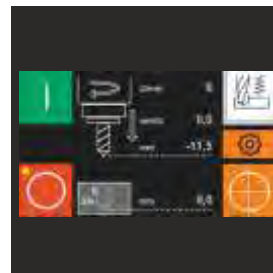
#### The menu functions

- ▶ Clear input menu that is easy to understand
- ▶ Selectable mode of operation: drilling/threadcutting
- ▶ Set the speed using the central button
- ▶ Precise display of drilling depth (target and actual depth), speed
- ▶ Counting function for drilling stroke
- ▶ Intelligent memory function for the parameters
- ▶ Energy-saving mode
- ▶ Spindle stop



### The control panel with display (only for PV electronic)

- ▶ Overview of the most important functions, shown graphically
- ▶ Selectable mode of operation: drilling/thread cutting/drill feed
- ▶ Precise display of drilling depth (target and actual depth), speed
- ▶ Optional additional functions can be easily activated and deactivated



HONORED

German  
Labor Safety Award  
2019

## Drilling machines- Vice [felix] 2.0

# FLÖTT [felix] 2.0

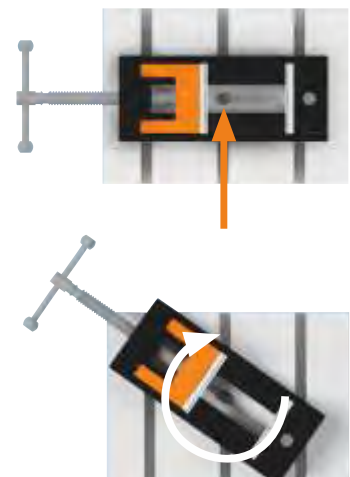
The drilling machine vice for free adjustable clamping of the workpiece.

Easy, fast, safe and better to use. The vice is clamped on the worktable in two easy steps, precisely adjusted and secured.



## PLUS POINTS +++

- ▶ Patented clamping mechanism ensures that the vice can be clamped in one easy step
- ▶ No banging or turning of the vice, due to full work safety feature (anti-twist function)
- ▶ Freely positionable and full vice mobility
- ▶ **Short set-up time, fast clamping (up to 95 % time saving)**
- ▶ Increased travel and span



## Standard equipment

- ▶ Prism jaws with shoulder, as well as horizontal and vertical recesses for clamping a wide range of workpieces
- ▶ Hardened and precision ground clamping jaws
- ▶ No additional clamping devices necessary



[felix] 2.0 - 80



[felix] 2.0 - 100



[felix] 2.0 - 120



[felix] 2.0 - 150

## Technical data

### Flott [felix] 2.0 - 80

Jaw width (mm)	80
Span width (mm)	0 - 120
Jaw height (mm)	28
Travel (mm)	150
Weight (kg)	6,5
Dimensions WxLxH (mm)	95 x 280 x 78
<b>Order no.</b>	<b>281.140</b>

### Flott [felix] 2.0 - 100

Jaw width (mm)	100
Span width (mm)	0 - 135
Jaw height (mm)	32
Travel (mm)	165
Weight (kg)	12.8
Dimensions WxLxH (mm)	122 x 343 x 85
<b>Order no.</b>	<b>281.141</b>

### Flott [felix] 2.0 - 120

Jaw width (mm)	120
Span width (mm)	0 - 168
Jaw height (mm)	40
Travel (mm)	200
Weight (kg)	20.3
Dimensions WxLxH (mm)	140 x 395 x 105
<b>Order no.</b>	<b>281.142</b>

### Flott [felix] 2.0 - 150

Jaw width (mm)	150
Span width (mm)	0 - 200
Jaw height (mm)	40
Travel (mm)	220
Weight (kg)	32.4
Dimensions WxLxH (mm)	170 x 451 x 103
<b>Order no.</b>	<b>281.143</b>

For further explanation, check our YouTube video!



# PLUS POINTS +++ OUR SB 40 MV PLUS

## Control panel with display

Convenient operation via 4.3" touch display.

## High quality hood

Robust, high-quality hood, hinged at the side with ergonomically inclined front panel for better reading and input of machine and process parameters.

## Automatic feed drive with motor

This precise drive allows the cutting of M1.5 threads without a compensating chuck via synchronisation with the spindle speed.

## Main power switch

## LED illumination

All machines have LED lighting as standard.

Optionally, there is another LED luminaire with articulated arm.

## Large table surface working area

## Optional machined base plate with integrated coolant system

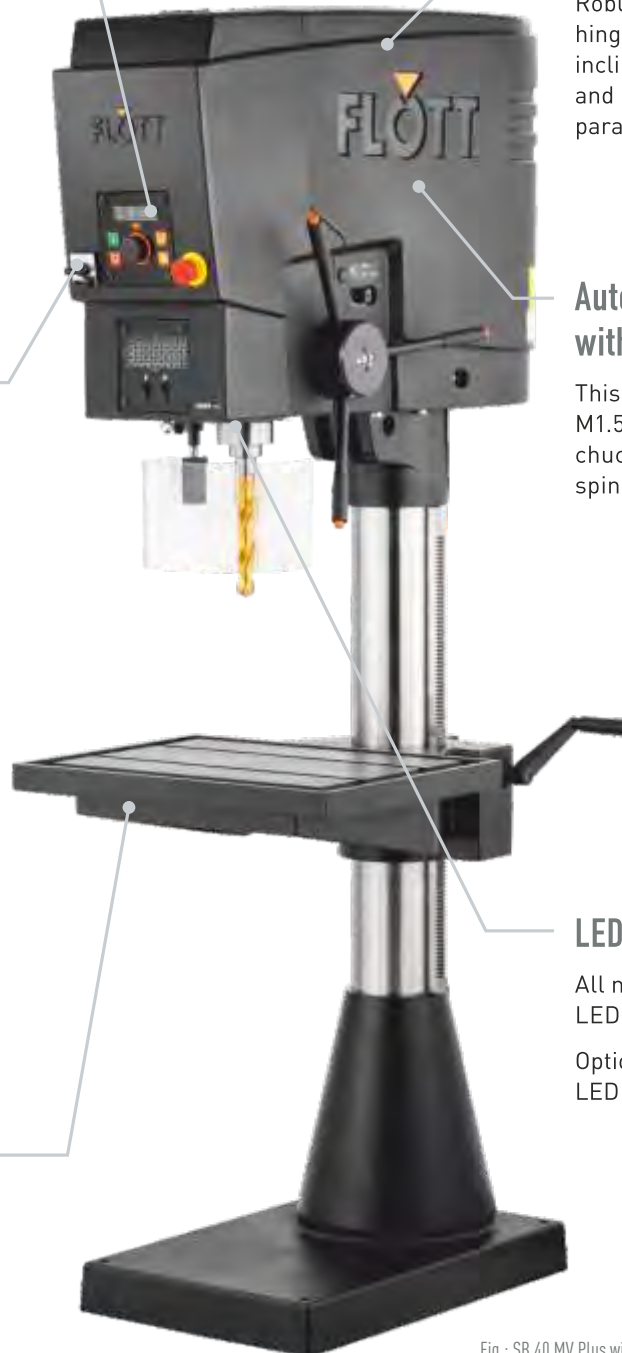


Fig.: SB 40 MV Plus with option

# PLUS SERIES DRILLING MACHINES

Our Plus series drills with their sophisticated technology, stand for simple, intuitive operation and many new functions.

The control system with display and control knob is consistent across all the Plus drilling machines. Once trained, an operator can work on any machine immediately.

The belt drive\* paired with German quality motors, frequency converters and innovative electronics result in powerful drills with high torques and a variable speed range.

The machines have a 3-year manufacturer's warranty for single-shift operation (optionally extendable on request).

The Plus Series is divided into three formats:

- ▶ Small  
bench and column drilling machines 10 - 15 Plus
- ▶ Medium  
bench and column drilling machines 18 - 25 Plus
- ▶ Large  
column drilling machines 30 - 40 Plus



\* Optionally with electromagnetic double clutch  
(speed series R3)



## Bench drill in AC version TB 10 Eco Plus



Fig.: TB 10 Eco Plus with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!

## Standard equipment

- ▶ High-quality, robust inclined hood for improved speed readability
- ▶ LED lighting
- ▶ Depth stop ring with scale (quick adjustment)
- ▶ Stepless speed control via the central rotary push button
- ▶ Emergency stop button
- ▶ Thermal overload protection
- ▶ Under-voltage release
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable (1.2m) with Schuko plug (CEE 7/7)

## Special equipment

- ▶ Height adjustment via threaded spindle  
**Order no. 290.302**

## Accessories

- ▶ Machine cabinet with door and intermediate plate  
Height: 800 mm  
Weight: 20 kg  
**Order no. 213.168**
- ▶ Vice [felix] 2.0 - 80  
Jaw width: 80 mm  
Span: 0-120 mm  
**Order no. 281.140**
- ▶ Twist drill set, DIN 338 HSSG  
25-piece, ground, Split point 135°, Ø 1.0-13.0 x 0.5 mm  
**Order no. 285.124**
- ▶ Quick-change drill chuck (1-13 mm), B16  
rotational accuracy: 0.17 mm  
**Order no. 285.133**
- ▶ Precision quick-change drill chuck ground, self-tightening, for clockwise/anti-clockwise rotation max. 8,000 1/min.  
Span 1-13 mm  
Socket B16  
Rotational accuracy: 0.06 mm  
**Order no. 285.064**

### Drill package 1 (for B16)

- ▶ Vice [felix] 2.0 - 80
- ▶ Quick-change drill chuck B16 1-13 mm (accuracy 0.17 mm)  
**Order no. 296.590**



## Technical data

Drilling capacity/normal drilling capacity (mm)	10/12 (in E335/ST60)
Spindle	B16
Drilling depth (mm)	50
Distance column-spindle (mm)	180
Column diameter (mm)	50
Usable table surface (W x L) (mm)	300 x 200
T-slot size (arm), distance (mm), width measurement (mm)	Quantity 2, 100, 12/20
Speed indicator	digital
Drilling depth indicator	scale
Drilling depth stop	Quick-adjust thrust ring
Feed	by hand
Head/height adjustment	by hand
Alternating current motor 230 V with frequency converter (kW)	0.45
Spindle speed, stepless (1/min)	250-3,000

## TB 10 Eco Plus

Distance spindle/working surface (mm)	105-245
Machine dimensions without packaging (mm)	400 x 248 x 460
Machine dimensions with packaging (mm)	430 x 680 x 810
Weight (kg)	30
<b>Order no.</b>	<b>217.200</b>
<b>Additional accessories</b>	<b>from page 64</b>



## Bench drill TB 10 Basic Plus



Fig.: TB 10 Basic Plus with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!



Fig.: TB 10 Basic Plus optional with intermediate table

## Standard equipment

- ▶ High-quality, robust inclined hood for improved speed readability
- ▶ LED lighting
- ▶ Depth stop ring with scale (quick adjustment)
- ▶ Stepless speed control via the central rotary push button
- ▶ Emergency stop button
- ▶ Thermal overload protection
- ▶ Under-voltage release
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable (1.2m) with Schuko plug (CEE 7/7)

## Special equipment

- ▶ Fixed depth stop for high repeatability  
**Order no. 212.716**

## Accessories

- ▶ Machine cabinet with door and drawer  
Height: 840 mm  
Weight: 28 kg  
**Order no. 250.208**
- ▶ Vice [felix] 2.0 - 80  
Jaw width: 80 mm  
Span: 0-120 mm  
**Order no. 281.140**
- ▶ Quick-change drill chuck B16  
Span range 1-13 mm  
Rotational accuracy: 0.17 mm  
**Order no. 285.133**
- ▶ Precision quick-change ground drill chuck self-tightening, for clockwise/anti-clockwise rotation max. 8,000 1/min.  
Span range 1-13 mm  
Socket B16  
Rotational accuracy: 0.06 mm  
**Order no. 285.064**

### Drill package 1 (for B16)

- ▶ Vice [felix] 2.0 - 80
- ▶ Quick-change drill chuck B16 1-13 mm (accuracy 0.17 mm)  
**Order no. 296.590**



## Technical data

Drilling capacity/normal drilling capacity (mm)	12 (in E335/ST60)
Spindle	B16
Drilling depth (mm)	60
Distance column-spindle (mm)	220
Column diameter (mm)	70
Usable table surface (W x L) (mm)	300 x 250
T-slot size (arm), distance (mm), width measurement (mm)	Cross slots, quantity 2, 14/26
Speed indicator	digital
Drilling depth indicator	scale
Drilling depth stop	Quick-adjust thrust ring
Feed	by hand
Head/height adjustment	by hand
Motor with frequency converter, 230 V 1-phase (kW)	0.45
Spindle speed, stepless (1/min)	250-3,000

## TB 10 Basic Plus

Distance spindle/working surface (mm)	105-245
Machine dimensions without packaging (mm)	320 x 520 x 820
Machine dimensions with packaging (mm)	452 x 700 x 1,130
Weight (kg)	44
<b>Order no.</b> (with drill head height adjustment)	<b>217.400</b>
<b>Order no.</b> (with intermediate table and table height adjustment via toothed rack)	<b>217.410</b>
<b>Additional accessories</b>	<b>from page 64</b>



## Bench drill TB 10 Plus



Fig.: TB 10 Plus with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!



Fig.: TB 10 Plus optional with intermediate table

## Standard equipment

- ▶ Main power switch
- ▶ Thread Cutting System
- ▶ Control panel with OLED display and central rotary push button
- ▶ High-quality, robust inclined hood for improved speed readability
- ▶ LED lighting
- ▶ Depth stop ring with scale (quick adjustment)
- ▶ Stepless speed control via the central rotary push button
- ▶ Emergency stop button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable (1.2m) with Schuko plug (CEE 7/7)

## Special equipment

- ▶ Intermediate table height adjustment via toothed rack table with T-slots (instead of head height adjustment)  
Usable table surface (W x L): 300 x 250 mm  
**Order no. 290.521**
- ▶ Fixed depth stop for high repeatability  
**Order no. 212.716**

## Accessories

- ▶ Machine cabinet with door and drawer  
Height: 840 mm  
Weight: 28 kg  
**Order no. 250.208**
- ▶ Vice [felix] 2.0 - 80  
Jaw width: 80 mm  
Span: 0-120 mm  
**Order no. 281.140**
- ▶ Quick-change drill chuck B16  
Span range 1-13 mm  
Rotational accuracy: 0.17 mm  
**Order no. 285.133**
- ▶ Precision quick-change ground drill chuck self-tightening, for clockwise/anti-clockwise rotation max. 8,000 1/min.  
Span range 1-13 mm  
Socket B16  
Rotational accuracy: 0.06 mm  
**Order no. 285.064**
- ▶ Tap holder M4-M12 DIN 371  
Span: 1-10 mm  
Socket: B16  
Total length: 80 mm  
**Order no. 285.109**

## Technical data

Drilling capacity/normal drilling capacity (mm)	10/12 (in E335/ST60)
Thread-cutting capacity max.	M6
Spindle	B16
Drilling depth (mm)	60
Distance column-spindle (mm)	220
Column diameter (mm)	70
Usable table surface (W x L) (mm)	300 x 250
T-slot size (arm), distance (mm), width measurement (mm)	Cross slots, quantity 2, 14/26
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	Stop ring (positive-locking)
Feed	by hand
Head/height adjustment	by hand
Motor with frequency converter, 230 V 1-phase (kW)	0.54
Spindle speed, stepless (1/min)	60-6,000

## TB 10 Plus\*

Distance spindle/working surface (mm)	140-315
Machine dimensions without packaging (mm)	320 x 520 x 820
Machine dimensions with packaging (mm)	452 x 700 x 1,130
Weight (kg)	44

**Order no. 212.505**

**Additional accessories from page 64**

\* The drilling machine is fitted with a frequency converter and complies with the standards DIN EN 55011:2016 & A1:2017.

## Drill package 1 (for B16)

- ▶ Vice [felix] 2.0 - 80
- ▶ Quick-change drill chuck B16 1-13 mm (accuracy 0.17 mm)  
**Order no. 296.590**





## Bench drill Turbo drill



Fig.: Turbo drill with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!



Fi g.: Turbo drill optional with intermediate table

## Standard equipment

- ▶ Main power switch
- ▶ Thread Cutting System
- ▶ Control panel with OLED display and central rotary push button
- ▶ High-quality, robust inclined hood for improved speed readability
- ▶ LED lighting
- ▶ Depth stop ring with scale (quick adjustment)
- ▶ Stepless speed control via the central rotary push button
- ▶ Emergency stop button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable (1.2m) with Schuko plug (CEE 7/7)

## Special equipment

- ▶ Intermediate table height adjustment via toothed rack table with T-slots (instead of head height adjustment)  
Usable table surface (W x L): 300 x 250 mm  
**Order no. 290.521**
- ▶ Fixed depth stop for high repeatability  
**Order no. 212.716**

## Accessories

- ▶ Machine cabinet with door and drawer  
Height: 840 mm  
Weight: 28 kg  
**Order no. 250.208**
- ▶ Vice  
[felix] 2.0 - 80  
Jaw width: 80 mm  
Span: 0-120 mm  
**Order no. 281.140**
- ▶ Gear rimmed drill chuck for Turbo drill, B12  
Span 0.5-8 mm  
Rotational accuracy: 0.20 mm  
**Order no. 285.103**
- ▶ Precision quick-change drill chuck for Turbo drill, B12  
Span 0.5-6 mm  
Rotational accuracy: 0.05 mm  
**Order no. 285.104**

## Technical data

Drilling capacity/normal drilling capacity (mm)	6/8 (in E335/ST60)
Thread-cutting capacity max.	M5
Spindle	B12
Drilling depth (mm)	60
Distance column-spindle (mm)	220
Column diameter (mm)	70
Usable table surface (W x L) (mm)	300 x 250
T-slot size (arm), distance (mm), width measurement (mm)	Cross slots, quantity 2, 14/26
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	Stop ring (positive-locking)
Feed	by hand
Head/height adjustment	by hand
Motor with frequency converter, 230 V 1-phase (kW)	0.54
Spindle speed, stepless (1/min)	100 -10,000

## Turbo drill\*

Distance spindle/working surface (mm)	140-315
Machine dimensions without packaging (mm)	320 x 520 x 820
Machine dimensions with packaging (mm)	452 x 700 x 1,130
Weight (kg)	44

**Order no. 212.506**

**Additional accessories from page 64**

\* The drilling machine is fitted with a frequency converter and complies with the standards DIN EN 55011:2016 & A1:2017.



## Bench drill and column drill TB 13 Plus TBZ 13 Plus SB 13 Plus



Fig.: TB 13 Plus with MT2 and accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!

## Standard equipment

- ▶ Main power switch
- ▶ Thread Cutting System
- ▶ Control panel with OLED display and central rotary push button
- ▶ High-quality, robust inclined hood for improved speed readability
- ▶ LED lighting
- ▶ Depth stop ring with scale (quick adjustment)
- ▶ Stepless speed control via the central rotary push button
- ▶ Emergency stop button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable (1.2m) with Schuko plug (CEE 7/7)

## Special equipment

- ▶ Fixed depth stop for high repeatability  
**Order no. 212.716**
- ▶ Foot switch for drilling and tapping with spindle on/off and left/right rotation  
**Order no. 212.780**

## Accessories

- ▶ Machine cabinet with door and drawer (only for TB Version)  
Height: 840 mm  
Weight: 28 kg  
**Order no. 250.208**
- ▶ Machine cabinet with door for TB/TBZ and intermediate plate  
Height: 800 mm  
Weight: 36 kg  
**Order no. 212.860 (TB)**  
**Order no. 201.160 (TBZ)**

### Drill package 1 (for B16)

- ▶ Vice [felix] 2.0 - 80
- ▶ Quick-change drill chuck B16 1-13 mm (accuracy 0.17 mm)  
**Order no. 296.590**



### Drill package 2 (for MT2)

- ▶ Vice [felix] 2.0 - 80
- ▶ Morse taper MT2/B16
- ▶ Reduction sleeve MT2/MT1
- ▶ Quick-change drill chuck B16 1-13 mm (accuracy 0.17 mm)  
**Order no. 296.591**



\* The drilling machine is fitted with a frequency converter and complies with the standards DIN EN 55011:2016 & A1:2017.

## Technical data

Drilling capacity/normal drilling capacity (mm)	13/15 (in E335/ST60) 12 Nm
Thread-cutting capacity max.	M10
Spindle	B16, optional MT2
Drilling depth (mm)	60
Distance column-spindle (mm)	220
Column diameter (mm)	70
Usable table surface (W x L) (mm)	300 x 250
T-slot size (arm), distance (mm), width measurement (mm)	Quantity 2, 125, 14/26
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	Stop ring (positive-locking)
Feed	by hand
Table height adjustment	with toothed rack
Motor with frequency converter, 230 V 1-phase (kW)	0.54
Spindle speed, stepless (1/min)	40-4,000

### TB 13 Plus\*

Distance spindle/working surface (mm)	85-370
Machine dimensions without packaging (mm)	400 x 520 x 850
Machine dimensions with packaging (mm)	452 x 700 x 1,130
Weight (kg)	62
<b>Order no. B16</b>	<b>212.500</b>
<b>Order no. MT2</b>	<b>212.503</b>

### TBZ 13 Plus\*

Distance spindle/working surface (mm)	125-490
Centre offset	20 mm
Distance column-spindle (mm)	214
Column diameter (mm)	82
Machine dimensions (mm) with cabinet	370 x 495 x 1,800
with cabinet with packaging	940 x 570 x 2,140
without cabinet	355 x 485 x 1,027
without cabinet with packaging	940 x 570 x 1,600
Weight without cabinet (kg)	70
<b>Order no. B16</b>	<b>212.650</b>
<b>Order no. MT2</b>	<b>212.655</b>

### SB 13 Plus\*

Distance spindle/working surface (mm)	max. 750
Machine dimensions without packaging (mm)	420 x 540 x 1,780
Machine dimensions with packaging (mm)	572 x 936 x 2,142
T-slot size, distance (mm), width measurement (mm)	Quantity 2, 125, 13/26
Weight (kg)	85
<b>Order no. B16</b>	<b>212.502</b>
<b>Order no. MT2</b>	<b>212.504</b>

**Additional accessories** from page 64



**Bench drill and  
column drill  
TB 15 Plus  
TBZ 15 Plus  
SB 15 Plus**



Fig.: TB 15 Plus with accessories



- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!

## Standard equipment

- ▶ Main power switch
- ▶ Thread Cutting System
- ▶ Control panel with OLED display and central rotary push button
- ▶ High-quality, robust inclined hood for improved speed readability
- ▶ LED lighting
- ▶ Depth stop ring with scale (quick adjustment)
- ▶ Stepless speed control via the central rotary push button
- ▶ Emergency stop button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable (1.2m) with Schuko plug (CEE 7/7)

## Special equipment

- ▶ Fixed depth stop for high repeatability  
**Order no. 212.716**

## Accessories

- ▶ Machine cabinet with door and drawer (only for TB Version)  
Height: 840 mm  
Weight: 28 kg  
**Order no. 250.208**
- ▶ Machine cabinet with door for TB/TBZ and intermediate plate  
Height: 800 mm  
Weight: 36 kg  
**Order no. 212.860 (TB)**  
**Order no. 201.160 (TBZ)**
- ▶ Foot switch for drilling and tapping with spindle on/off and left/right rotation  
**Order no. 212.780**

## Drill package 2 (for MT2)

- ▶ Vice [felix] 2.0 - 80
- ▶ Morse taper MT2/B16
- ▶ Reduction sleeve MT2/MT1
- ▶ Quick-change drill chuck B16 1-13 mm (accuracy 0.17 mm)  
**Order no. 296.591**



\* The drilling machine is fitted with a frequency converter and complies with the standards DIN EN 55011:2016 & A1:2017.

## Technical data

Drilling capacity/normal drilling capacity (mm)	15/18 (in E335/ST60) 17 Nm
Thread-cutting capacity max.	M12
Spindel	MT2
Drilling depth (mm)	70
Distance column-spindle (mm)	220
Column diameter (mm)	70
Usable table surface (W x L) (mm)	300 x 250
T-slot size (arm), distance (mm), width measurement (mm)	Quantity 2, 125, 14/26
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	Stop ring (positive-locking)
Feed	by hand
Table height adjustment	with toothed rack
Motor with frequency converter, 230 V, 1-phase (kW)	0.75
Spindle speed, stepless (1/min)	40-4,000

## TB 15 Plus\*

Distance spindle/working surface (mm)	85-370
Machine dimensions without packaging (mm)	400 x 520 x 850
Machine dimensions with packaging (mm)	452 x 700 x 1,130
Weight (kg)	65
<b>Order no.</b>	<b>212.755</b>

## TBZ 15 Plus\*

Distance spindle/working surface (mm)	125-490
Centre offset	20 mm
Distance column-spindle (mm)	214
Column diameter (mm)	82
Machine dimensions (mm)	
with cabinet	370 x 495 x 1,800
with cabinet with packaging	940 x 570 x 2,140
without cabinet	355 x 485 x 1,027
without cabinet with packaging	940 x 570 x 1,600
Weight without cabinet (kg)	73
<b>Order no.</b>	<b>212.765</b>

## SB 15 Plus\*

Distance spindle/working surface (mm)	max. 750
Useable table surface (W x L) (mm)	300 x 240
Machine dimensions without packaging (mm)	420 x 540 x 1,780
Machine dimensions with packaging (mm)	572 x 936 x 2,142
T-slot size, distance (mm), width measurement (mm)	Quantity 2, 125, 14/26
Weight (kg)	88
<b>Order no.</b>	<b>212.750</b>

**Additional accessories** from page 64



## Bench drill and column drill TB 18 Plus TBZ 18 Plus SB 18 Plus



Fig.: TB 18 Plus with accessories



Fig.: SB 18 Plus with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!

## Standard equipment

- ▶ Main power switch
- ▶ Thread Cutting System
- ▶ Control panel with OLED display and central rotary push button
- ▶ High-quality, robust inclined hood for improved speed readability
- ▶ LED lighting
- ▶ Depth stop ring with scale (quick adjustment)
- ▶ Stepless speed control via the central rotary push button
- ▶ Emergency stop button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable (1.2m) with Schuko plug (CEE 7/7)

## Special equipment

- ▶ LED lighting with articulated arm  
**Order no. 290.240**
- ▶ Machined base plate with integrated coolant system (only SB version)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
**Order no. 290.160A**
- ▶ Coolant system (separate container)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
**Order no. 290.340**
- ▶ Optimized spindle brake  
**Order no. 290.220**

## Accessories

- ▶ Machine cabinet with door for TB/TBZ  
Height: 800 mm  
Weight: 36 kg  
**Order no. 201.160**
- ▶ Foot switch for drilling and tapping with spindle on/off and left/right rotation  
**Order no. 225.029**

## Drill package 3

- ▶ Vice [felix] 2.0 - 100
- ▶ Morse taper MT2/B18
- ▶ Reduction sleeve MT2/MT1
- ▶ Quick-change drill chuck B18 3-16 mm (accuracy 0.17 mm)  
**Order no. 296.592**



## Technical data

Drilling capacity/normal drilling capacity (mm)	18/20 (in E335/ST60) 22 Nm
Thread-cutting capacity max.	M12
Spindel	MT2
Drilling depth (mm)	100
Distance column-spindle (mm)	240
Column diameter (mm)	82
Usable table surface (W x L) (mm)	340 x 280
T-slot size (arm), distance (mm), width measurement (mm)	Quantity 2, 125, 13/26
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	Quick-adjust thrust ring
Feed	by hand
Table height adjustment	with toothed rack
Motor with frequency converter, 230 V, 3-phase + N + PE (kW)	0.75
Spindle speed, stepless (1/min)	30-3,000

## TB 18 Plus\*

Distance spindle - working surface (mm)	
Table	155-415
Base	155-550
Machine dimensions without packaging (mm)	355 x 705 x 1,065
Machine dimensions with packaging (mm)	570 x 940 x 1,612
Weight (kg)	170
<b>Order no.</b>	<b>218.303</b>

## TBZ 18 Plus\*

Distance spindle - working surface (mm)	
Base	155-550
Column diameter (mm)	82
Machine dimensions (mm)	
with cabinet	370 x 705 x 1,845
with cabinet with packaging	572 x 940 x 2,140
without cabinet	355 x 705 x 1,045
without cabinet with packaging	570 x 940 x 1,600
Weight without cabinet (kg)	155
<b>Order no.</b>	<b>218.309</b>

## SB 18 Plus\*

Spindle/table (mm)	160-880
Machine dimensions without packaging (mm)	355 x 705 x 1,825
Machine dimensions with packaging (mm)	572 x 936 x 2,142
Weight (kg)	195
<b>Order no.</b>	<b>218.308</b>
<b>Additional accessories</b>	<b>from page 64</b>

\* The drilling machine is fitted with a frequency converter and complies with the standards DIN EN 55011:2016 & A1:2017.



## Bench drill and column drill TB 20 Plus TBZ 20 Plus SB 20 Plus



Fig.: TB 20 Plus with accessories



Fig.: SB 20 Plus with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!

## Standard equipment

- ▶ Main power switch
- ▶ Thread Cutting System
- ▶ Control panel with OLED display and central rotary push button
- ▶ High-quality, robust inclined hood for improved speed readability
- ▶ LED lighting
- ▶ Depth stop ring with scale (quick adjustment)
- ▶ Stepless speed control via the central rotary push button
- ▶ Emergency stop button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable with CEE plug

## Special equipment

- ▶ LED lighting with articulated arm  
Order no. 290.240
- ▶ Machined base plate with integrated coolant system (only SB version)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
Order no. 290.160A
- ▶ Coolant system (separate container)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
Order no. 290.340
- ▶ Foot switch for drilling and tapping with spindle on/off and left/right rotation  
Order no. 225.029
- ▶ Optimized spindle brake  
Order no. 290.220

## Accessories

- ▶ Machine cabinet with door for TB/TBZ  
Height: 800 mm  
Weight: 36 kg  
Order no. 201.160

## Drill package 3

- ▶ Vice [felix] 2.0 - 100
- ▶ Morse taper MT2/B18
- ▶ Reduction sleeve MT2/MT1
- ▶ Quick-change drill chuck B18 3-16 mm (accuracy 0.17 mm)  
Order no. 296.592



## Technical data

Drilling capacity/normal drilling capacity (mm)	20/23
Thread-cutting capacity max.	M12
Spindel	MT2
Drilling depth (mm)	100
Distance column-spindle (mm)	240
Column diameter (mm)	82
Usable table surface (W x L) (mm)	340 x 280
T-slot size (arm), distance (mm), width measurement (mm)	Quantity 2, 125, 13/26
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	Quick-adjust thrust ring
Feed	by hand
Table height adjustment	with toothed rack
Motor with frequency converter, 400 V, 3-phase supply + N + PE (kW)	1.5
Spindle speed, stepless (1/min)	40-4,000

## TB 20 Plus\*

Distance spindle - working surface (mm)	
Table	155-415
Base	155-550
Machine dimensions without packaging (mm)	355 x 705 x 1,065
Machine dimensions with packaging (mm)	570 x 940 x 1,612
Weight (kg)	170
<b>Order no.</b>	<b>220.105</b>

## TBZ 20 Plus\*

Distance spindle - working surface (mm)	
Base	155-550
Column diameter (mm)	82
Machine dimensions (mm)	
with cabinet	370 x 705 x 1,845
with cabinet with packaging	572 x 940 x 2,140
without cabinet	355 x 705 x 1,045
without cabinet with packaging	570 x 940 x 1,600
Weight without cabinet (kg)	155
<b>Order no.</b>	<b>220.110</b>

## SB 20 Plus\*

Spindle/table (mm)	160-880
Machine dimensions without packaging (mm)	355 x 705 x 1,825
Machine dimensions with packaging (mm)	572 x 936 x 2,142
Weight (kg)	195
<b>Order no.</b>	<b>220.100</b>

**Additional accessories** from page 64

\* The drilling machine is fitted with a frequency converter and complies with the standards DIN EN 55011:2016 & A1:2017.



## Bench drill and column drill TB 23 Plus TBZ 23 Plus SB 23 Plus



Fig.: TBZ 23 Plus with accessories



Fig.: SB 23 Plus with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!

## Standard equipment

- ▶ Main power switch
- ▶ Thread Cutting System
- ▶ Control panel with OLED display and central rotary push button
- ▶ High-quality, robust inclined hood for improved speed readability
- ▶ LED lighting
- ▶ Depth stop ring with scale (quick adjustment)
- ▶ Stepless speed control via the central rotary push button
- ▶ Emergency stop button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable with CEE plug

## Special equipment

- ▶ LED lighting with articulated arm  
Order no. 290.240
- ▶ Machined base plate with integrated coolant system (only SB version)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
Order no. 290.160B
- ▶ Coolant system (separate container)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
Order no. 290.340
- ▶ Foot switch for drilling and tapping with spindle on/off and left/right rotation  
Order no. 225.029
- ▶ Optimized spindle brake  
Order no. 290.221

## Accessories

- ▶ Machine cabinet with door for TB/TBZ  
Height: 800 mm  
Weight: 36 kg  
Order no. 201.160

## Drill package 3

- ▶ Vice [felix] 2.0 - 100
- ▶ Morse taper MT2/B18
- ▶ Reduction sleeve MT2/MT1
- ▶ Quick-change drill chuck B18 3-16 mm (accuracy 0.17 mm)  
Order no. 296.592



\* The drilling machine is fitted with a frequency converter and complies with the standards DIN EN 55011:2016 & A1:2017.

## Technical data

Drilling capacity/normal drilling capacity (mm)	R1	23/25 (in E335/ST60)
	R2	20/23 (in E335/ST60)
Thread cutting capacity max.	R1	M16
	R2	M12
Spindle	MT2	
Drilling depth (mm)	100	
Distance column-spindle (mm)	260	
Column diameter (mm)	110	
Usable table surface (W x L) (mm)	420 x 340	
T-slot size (arm), distance (mm), width measurement (mm)	Quantity 2, 125, 13/26	
Speed indicator	digital	
Drilling depth indicator	digital	
Drilling depth stop	Quick-adjust thrust ring	
Feed	by hand	
Table height adjustment	with toothed rack	
Motor with frequency converter, 400 V, 3-phase supply+N+PE (kW)	1.5	
Spindle speed, stepless (1/min) with gearing	R1	20-2,000
	R2	30-3,000

### TB 23 Plus\*

Distance spindle - working surface (mm)	
Table	230-590
Base	230-670
Machine dimensions without packaging (mm)	430 x 715 x 1,250
Machine dimensions with packaging (mm)	570 x 940 x 1,600
Weight (kg)	250
Order no. R1	223.021
Order no. R2	223.026

### TBZ 23 Plus\*

Distance spindle - working surface (mm)	
Base	230-730
Machine dimensions (mm)	
with cabinet	430 x 715 x 2,050
with cabinet with packaging	637 x 1,096 x 2,120
without cabinet	430 x 715 x 1,250
without cabinet with packaging	570 x 940 x 1,600
Weight without cabinet (kg)	235
Order no. R1	223.022
Order no. R2	223.027

### SB 23 Plus\*

Spindle/table	230-850
Machine dimensions without packaging (mm)	430 x 715 x 1,800
Machine dimensions with packaging (mm)	670 x 1,100 x 2,140
Weight (kg)	290
Order no. R1	223.020
Order no. R2	223.025

**Additional accessories** from page 64



## Bench drill and column drill TB 25 Plus TBZ 25 Plus SB 25 Plus



Fig.: TBZ 25 Plus with accessories



Fig.: SB 25 Plus with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!

## Standard equipment

- ▶ Main power switch
- ▶ Thread Cutting System
- ▶ Control panel with OLED display and central rotary push button
- ▶ High-quality, robust inclined hood for improved speed readability
- ▶ LED lighting
- ▶ Depth stop ring with scale (quick adjustment)
- ▶ Stepless speed control via the central rotary push button
- ▶ Emergency stop button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable with CEE plug

## Special equipment

- ▶ LED lighting with articulated arm  
Order no. 290.240
- ▶ Machined base plate with integrated coolant system (only SB version)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
Order no. 290.160B
- ▶ Coolant system (separate container)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
Order no. 290.340
- ▶ Foot switch for drilling and tapping with spindle on/off and left/right rotation  
Order no. 225.029
- ▶ Optimized spindle brake  
Order no. 290.221

## Accessories

- ▶ Machine cabinet with door for TB/TBZ  
Height: 800 mm  
Weight: 36 kg  
Order no. 201.160

## Drill package 4

- ▶ Vice [felix] 2.0 - 120
- ▶ Morse taper MT3/B18
- ▶ Reduction sleeve MT3/MT1
- ▶ Reduction sleeve MT3/MT2
- ▶ Quick-change drill chuck B18 3-16 mm (accuracy 0.17 mm)  
Order no. 296.593



\* The drilling machine is fitted with a frequency converter and complies with the standards DIN EN 55011:2016 & A1:2017.

## Technical data

Drilling capacity/normal drilling capacity (mm)	R1	23/25 (in E335/ST60)
	R2	22/23 (in E335/ST60)
Thread cutting capacity max.	R1	M16
	R2	M12
Spindle		MT3
Drilling depth (mm)		115
Distance column-spindle (mm)		260
Column diameter (mm)		110
Usable table surface (W x L) (mm)		420 x 340
T-slot size (arm), distance (mm), width measurement (mm)		Quantity 2, 125, 13/26
Speed indicator		digital
Drilling depth indicator		digital
Drilling depth stop		Quick-adjust thrust ring
Feed		by hand
Table height adjustment		with toothed rack
Motor with frequency converter, 400 V, 3-phase supply+N+PE (kW)		1.5
Spindle speed, stepless (1/min) with gearing	R1	20-2,000
	R2	30-3,000

### TB 25 Plus\*

Distance spindle - working surface (mm)	
Table	230-590
Base	230-670
Machine dimensions without packaging (mm)	430 x 715 x 1,250
Machine dimensions with packaging (mm)	570 x 940 x 1,600
Weight (kg)	250
Order no. R1	225.011
Order no. R2	225.016

### TBZ 25 Plus\*

Distance spindle - working surface (mm)	
Base	230-730
Machine dimensions (mm)	
with cabinet	430 x 715 x 2,050
with cabinet with packaging	637 x 1,096 x 2,120
without cabinet	430 x 715 x 1,250
without cabinet with packaging	570 x 940 x 1,600
Weight without cabinet (kg)	235
Order no. R1	225.012
Order no. R2	225.017

### SB 25 Plus\*

Spindle/table	230-850
Machine dimensions without packaging (mm)	430 x 715 x 1,800
Machine dimensions with packaging (mm)	670 x 1,100 x 2,140
Weight (kg)	290
Order no. R1	225.010
Order no. R2	225.015

**Additional accessories** from page 64



## Column drill SB 30 Plus SB 30 MV Plus



Fig.: SB 30 Plus with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!



Fig.: SB 30 MV Plus with accessories

## Standard equipment

- ▶ Main power switch
- ▶ Thread Cutting System
- ▶ Control panel with OLED display and central rotary push button
- ▶ High-quality, robust inclined hood for improved speed readability
- ▶ LED lighting
- ▶ Drill depth stop with fine adjustment
- ▶ Stepless speed control via the central rotary push button
- ▶ Emergency stop button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable with CEE plug
- ▶ Automatic mechanical Z-axis feed with electromagnetic clutch, 3 feed speeds (SB 30 MV Plus only)
- ▶ Drill handle with push-button (on/off) for feed (only SB 30 MV Plus)
- ▶ In thread cutting mode: Right-left ventilation via drill handle button (only SB 30 MV Plus)

## Special equipment

- ▶ LED lighting with articulated arm  
Order no. 290.240 for 230.500 and 230.501  
Order no. 290.241 for 230.502, 230.505, 230.506 and 230.507
- ▶ Combi drilling table with vice and square table 360° rotatable with scale  
Jaw width 120 mm  
span 105 mm  
Table surface 350 x 350 mm  
Order no. 290.135
- ▶ Machined base plate  
Order no. 290.175C
- ▶ Coolant system (separate tank)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
Order no. 290.340
- ▶ Machined base plate with integrated coolant system  
Filling capacity: max. 15 liter  
Flow rate: max. 13,4 l/min  
Order no. 290.160C
- ▶ Foot switch for drilling and tapping with spindle on/off and left/right rotation  
Order no. 231.000
- ▶ Optimized spindle brake  
Order no. 290.222
- ▶ Commissioning the machine and briefing the operating staff  
Order no. 229.931

## Technical data

Drilling capacity/normal drilling capacity (mm)	
R1 (measured Torque Nm)	27/32 (in E335/ST60) (100)
R2 (measured Torque Nm)	25/30 (in E335/ST60) (70)
R3 (measured Torque Nm)	30/35 (in E335/ST60) (200)
Thread cutting capacity max.	
R1	M24
R2	M20
R3	M30
Spindle	MT3
Drilling depth (mm)	125
Distance column-spindle (mm)	300
Column diameter (mm)	125
Usable table surface (W x L) (mm)	590 x 450
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	with fine tuning
Table height adjustment	with toothed rack
Spindle/table (mm)	150-700
Machine dimensions without packaging (mm)	610 x 900 x 1,980
Machine dimensions with packaging (mm)	670 x 1,100 x 2,140
Motor with frequency converter, 400 V, 3-phase supply+N+PE (kW)	3.0
Spindle speed, stepless (1/min)	
R1 (1-stage)	0-1,000
R2 (1-stage)	0-1,600
R3 (2-stage with gearing)	0-4,000

## SB 30 Plus

Feed	by hand
Weight (kg)	370
Order no. R1	230.500
Order no. R2	230.501
Order no. R3	230.502

## SB 30 MV Plus

3-step feed (mm/rev)	0.10/0.16/0.25
Weight (kg)	385
Order no. R1	230.505
Order no. R2	230.506
Order no. R3	230.507

**Additional accessories** from page 64

\* The drilling machine is fitted with a frequency converter and complies with the standards DIN EN 55011:2016 & A1:2017.

## Accessories

### Drill package 5

- ▶ Vice [felix] 2.0 - 150
- ▶ Morse taper MT3/B18
- ▶ Reduction sleeve MT3/MT1
- ▶ Reduction sleeve MT3/MT2
- ▶ Quick-change drill chuck B18 3-16 mm (accuracy 0.17 mm)  
Order no. 296.594





## Column drill SB 40 Plus SB 40 MV Plus



Fig.: SB 40 Plus with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!



Fig.: SB 40 MV Plus with accessories

## Standard equipment

- ▶ Main power switch
- ▶ Thread Cutting System
- ▶ Control panel with OLED display and central rotary push button
- ▶ High-quality, robust inclined hood for improved speed readability
- ▶ LED lighting
- ▶ Drill depth stop with fine adjustment
- ▶ Stepless speed control via the central rotary push button
- ▶ Emergency stop button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable with CEE plug
- ▶ Automatic mechanical Z-axis feed with electromagnetic clutch, 3 feed speeds (SB 40 MV Plus only)
- ▶ Drill handle with push-button (on/off) for feed (only SB 40 MV Plus)
- ▶ In thread cutting mode: Right-left ventilation via drill handle button (only SB 30 MV Plus)

## Special equipment

- ▶ LED lighting with articulated arm  
Order no. 290.240 for 230.530 and 230.531  
Order no. 290.241 for 230.532, 230.535, 230.536 and 230.537
- ▶ Combi drilling table with vice and square table 360° rotatable with scale  
Jaw width 120 mm  
span 105 mm  
Table surface 350 x 350 mm  
Order no. 290.138
- ▶ Machined base plate  
Order no. 290.175D
- ▶ Coolant system (separate tank)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
Order no. 290.340
- ▶ Machined base plate with integrated coolant system  
Filling capacity: max. 15 liter  
Flow rate: max. 13,4 l/min  
Order no. 290.160D
- ▶ Foot switch for drilling and tapping with spindle on/off and left/right rotation  
Order no. 231.000
- ▶ Optimized spindle brake  
Order no. 290.222
- ▶ Commissioning the machine and briefing the operating staff  
Order no. 229.931

## Technical data

Drilling capacity/normal drilling capacity (mm)	
R1 (measured Torque Nm)	30/35 (in E335/ST60) (135)
R2 (measured Torque Nm)	27/32 (in E335/ST60) (90)
R3 (measured Torque Nm)	35/40 (in E335/ST60) (260)
Thread cutting capacity max.	
R1	M30
R2	M24
R3	M36
Spindle	MT4
Drilling depth (mm)	160
Distance column-spindle (mm)	300
Column diameter (mm)	140
Usable table surface (W x L) (mm)	590 x 450
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	with fine tuning
Table height adjustment	with toothed rack
Spindle/table (mm)	150-700
Machine dimensions without packaging (mm)	610 x 900 x 1,980
Machine dimensions with packaging (mm)	670 x 1,100 x 2,200
Motor with frequency converter, 400 V, 3-phase supply+N+PE (kW)	4.0
Spindle speed, stepless (1/min)	
R1 (1-stage)	0-1,000
R2 (1-stage)	0-1,600
R3 (2-stage with gearing)	0-4,000

## SB 40 Plus

Feed	by hand
Weight (kg)	400
Order no. R1	230.530
Order no. R2	230.531
Order no. R3	230.532

## SB 40 MV Plus

3-step feed (mm/rev)	0.10/0.16/0.25
Weight (kg)	420
Order no. R1	230.535
Order no. R2	230.536
Order no. R3	230.537

**Additional accessories** from page 64

\* The drilling machine is fitted with a frequency converter and complies with the standards DIN EN 55011:2016 & A1:2017.

## Accessories

### Drill package 6

- ▶ Vice [felix] 2.0 - 150
- ▶ Morse taper MT4/B18
- ▶ Reduction sleeve MT4/MT3
- ▶ Reduction sleeve MT4/MT2
- ▶ Quick-change drill chuck B18 3-16 mm (accuracy 0.17 mm)  
Order no. 296.595





## Flow drilling machine SB 20 FB Plus



Fig.: SB 20 FB Plus with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!

## Standard equipment

- ▶ Main power switch
- ▶ Thread Cutting System
- ▶ Control panel with OLED display and central rotary push button
- ▶ High-quality, robust inclined hood for improved speed readability
- ▶ LED lighting
- ▶ Depth stop ring with scale (quick adjustment)
- ▶ Stepless speed control via the central rotary push button
- ▶ Emergency stop button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable with CEE plug

## Flow forming

Serves to produce extrusions in thin-walled metallic materials.

The flow forming procedure creates a sleeve in the existing material by reshaping it. This material extension increases the number of supporting threads to threefold to fivefold. The material is not machined but used to create durable connections.

## The advantages of flow forming are

- ▶ Low cost per thread
- ▶ Highly durable connections
- ▶ High-quality threads
- ▶ No special equipment
- ▶ Low start-up costs
- ▶ No external material
- ▶ Fewer production steps
- ▶ No chip disposal

## Accessories

- ▶ Vice [felix] 2.0 - 100  
Order no. 281.141



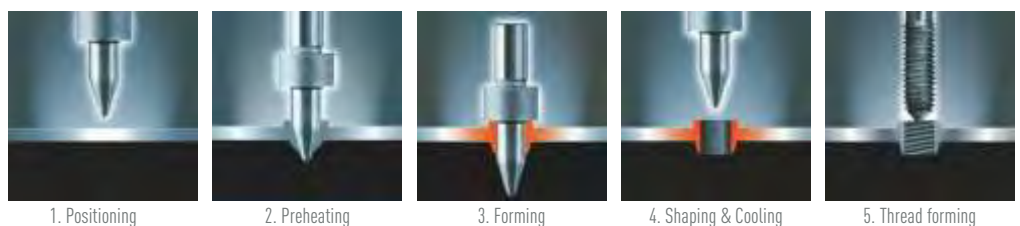
## Technical data

Flow forming at 3 mm sheet thickness (mm)	8
Spindle	MT2
Drilling depth (mm)	100
Distance column-spindle (mm)	240
Column diameter (mm)	82
Usable table surface (W x L) (mm)	340 x 280
T-slot size (arm), distance (mm), width measurement (mm)	Quantity 2, 125, 13/26
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	Quick-adjust thrust ring
Feed	by hand
Table height adjustment	with toothed rack
Motor with frequency converter, 400 V, 3-phase supply+N+PE (kW)	1.5
Spindle speed, stepless (1/min)	40-4,000

## SB 20 FB Plus

Spindle/table (mm)	160-880
Machine dimensions without packaging (mm)	355 x 705 x 1,825
Machine dimensions with packaging (mm)	572 x 936 x 2,142
Weight (kg)	195
<b>Order no.</b>	<b>220.115</b>
<b>Additional accessories</b>	<b>from page 64</b>

\* The drilling machine is fitted with a frequency converter and complies with the standards DIN EN 55011:2016 & A1:2017.



# PROVEN AND RELIABLE SB P40 STG PV ELECTRONIC

## Touch display

New revised touch display.

All important information at a glance. Various possibilities to combine the different options (chip breaking mode, piece counter, spindle stop and snap action).

## Thread cutting device as standard

Adjustable via programmable depth indicator.

## Main power switch

## Large table surface working area

## Optional machined base plate with integrated coolant system

## Transparent hood

Transparent hood (ideal for training and schools), optionally also available with black hood.

## Stepless feed

With electromagnetic clutch.

## LED illumination

LED lighting as standard, behind the drill spindle.



Fig.: SB P40 STG PV Electronic with special equipment and accessories

# CLASSIC DRILLING MACHINES

Our proven classic drilling machines-like all other FLOTT products, they stand for a very long service life.

They are designed to run on a simple underlying concept, as the speed adjustment runs mechanically via the belt pulley.

The drills have a variety of selectable displays: with a simple scale (M3 ST/M5 ST), with a purely digital display for drilling depth and speed (P30 ST/P40 ST) or the modern version, with the new "touch display" (P30 STG PV/P40 STG PV).

Of course, all machines also have a 3-year warranty (optionally extendable to 5 years).



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## Column drill SB M3 ST



Fig.: SB M3 ST with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!

## Standard equipment

- ▶ Stepless speed control via the lever
- ▶ Emergency stop button
- ▶ Reversing switch
- ▶ Under-voltage release
- ▶ Drill depth stop with scala and fine adjustment
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power with CEE plug

## Special equipment

- ▶ LED lighting with articulated arm  
Order no. 290.240
- ▶ LED lighting in head  
Order no. 290.070
- ▶ Machined base plate with integrated coolant system (only SB version)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
Order no. 290.160B
- ▶ Machined base plate  
Order no. 290.175B
- ▶ Coolant system (separate container)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
Order no. 290.340
- ▶ Combi drilling table with vice and square table 360° rotatable with scale  
Jaw width 120 mm  
Span 105 mm  
Table surface 350 x 350 mm  
Order no. 290.125
- ▶ Large base  
Column Ø 125 mm  
Usable table surface (WxL) 590 x 450 mm  
Order no. 205.036

## Accessories

### Drill package 4

- ▶ Vice [felix] 2.0 - 120
- ▶ Morse taper MT3/B18
- ▶ Reduction sleeve MT3/MT1
- ▶ Reduction sleeve MT3/MT2
- ▶ Quick-change drill chuck B18  
3-16 mm (accuracy 0.17 mm)  
Order no. 296.593



## Our classic

### Technical data

Drilling capacity/normal drilling capacity (mm)	25/30
Thread cutting capacity max.	M20
Spindle	MT3
Drilling depth (mm)	125
Distance column-spindle (mm)	280
Column diameter (mm)	110
Usable table surface (W x L) (mm)	420 x 340 mm
T-slot size (arm), distance (mm), width measurement (mm)	Quantity 2, 125, 13/26
Speed indicator	scale
Drilling depth indicator	scale
Drilling depth stop	with fine tuning
Table height adjustment	with toothed rack
Machine dimensions without packaging (mm)	520 x 820 x 1,900
Machine dimensions with packaging (mm)	637 x 1,096 x 2,120
3-phase pole-changing motor, 400 V (kW)	0.9/1.45
Spindle speed, step selector switch (rpm)	
Stage 1 (left/right rotation)	125-2000
Stage 2 (right rotation)	250-4000

### SB M3 ST

Spindle/table (mm)	240-790
Weight (kg)	275
Order no.	205.180
Additional accessories	from page 64

### Drill package 5

- ▶ Vice [felix] 2.0 - 150
- ▶ Morse taper MT3/B18
- ▶ Reduction sleeve MT3/MT1
- ▶ Reduction sleeve MT3/MT2
- ▶ Quick-change drill chuck B18  
3-16 mm (accuracy 0.17 mm)  
Order no. 296.594





## Column drill SB M5 ST



Fig.: SB M5 ST with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!

## Standard equipment

- ▶ Stepless speed control via the lever
- ▶ Emergency stop button
- ▶ Reversing switch
- ▶ Under-voltage release
- ▶ Drill depth stop with scala and fine adjustment
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable with CEE plug

## Special equipment

- ▶ LED lighting with articulated arm  
Order no. 290.240
- ▶ LED lighting in head  
Order no. 290.070
- ▶ Machined base plate with integrated coolant system (only SB version)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
Order no. 290.160C
- ▶ Machined base plate  
Order no. 290.175C
- ▶ Coolant system (separate container)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
Order no. 290.340
- ▶ Combi drilling table with vice and square table 360° rotatable with scale  
Jaw width 120 mm  
Span 105 mm  
Table surface 350 x 350 mm  
Order no. 290.135

## Accessories

### Drill package 6

- ▶ Vice [felix] 2.0 - 150
- ▶ Morse taper MT4/B18
- ▶ Reduction sleeve MT4/MT3
- ▶ Reduction sleeve MT4/MT2
- ▶ Quick-change drill chuck B18 3-16 mm (accuracy 0.17 mm)  
Order no. 296.595



## Our classic

### Technical data

Drilling capacity/normal drilling capacity (mm)	35/40
Thread cutting capacity max.	M30
Spindle	MT4
Drilling depth (mm)	160
Distance column-spindle (mm)	300
Column diameter (mm)	125
Usable table surface (W x L) (mm)	590 x 450 mm
T-slot size (arm), distance (mm), width measurement (mm)	Quantity 2, 160, 14/26
Speed indicator	scale
Drilling depth indicator	scale
Drilling depth stop	with fine tuning
Table height adjustment	with toothed rack
Machine dimensions without packaging (mm)	610 x 850 x 1,920
Machine dimensions with packaging (mm)	672 x 1,096 x 2,142
3-phase pole-changing motor, 400 V (kW)	1.5/3.0
Spindle speed, step selector switch (rpm)	
Stage 1 (left/right rotation)	100-1000
Stage 2 (right rotation)	200-2000

### SB M5 ST

Spindle/table (mm)	150-700
Weight (kg)	440

Order no. 205.204

Additional accessories from page 64

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## Column drill SB P30 ST



Fig.: SB P30 ST with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!

## Standard equipment

- ▶ Stepless speed control via the lever
- ▶ Emergency stop button
- ▶ LED lighting
- ▶ Reversing switch  
(not applicable with thread cutting system)
- ▶ Under-voltage release
- ▶ Drill depth stop with fine adjustment
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable with CEE plug
- ▶ Digital drilling depth and spindle speed display

## Special equipment

- ▶ Thread cutting system  
Adjusting the thread cutting depth via digital depth display  
**Order no. 290.622**
- ▶ LED lighting with articulated arm  
**Order no. 290.240**
- ▶ Machined base plate with integrated coolant system (only SB version)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
**Order no. 290.160B**
- ▶ Machined base plate  
**Order no. 290.175B**
- ▶ Coolant system (separate container)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
**Order no. 290.340**
- ▶ Combi drilling table with vice and square table 360° rotatable with scale  
Jaw width 120 mm  
Span 105 mm  
Table surface 350 x 350 mm  
**Order no. 290.125**
- ▶ Large base  
Column Ø 125 mm  
Usable table surface (WxL) 590 x 450 mm  
**Order no. 205.036**

## Accessories

### Drill package 4

- ▶ Vice [felix] 2.0 - 120
- ▶ Morse taper MT3/B18
- ▶ Reduction sleeve MT3/MT1
- ▶ Reduction sleeve MT3/MT2
- ▶ Quick-change drill chuck B18  
3-16 mm (accuracy 0.17 mm)  
**Order no. 296.593**



## Our classic

### Technical data

Drilling capacity/normal drilling capacity (mm)	25/30
Thread cutting capacity max.	M20
Spindle	MT3
Drilling depth (mm)	125
Distance column-spindle (mm)	280
Column diameter (mm)	110
Usable table surface (W x L) (mm)	420 x 340 mm
T-slot size (arm), distance (mm), width measurement (mm)	Quantity 2, 125, 13/26
Speed indicator	scale
Drilling depth indicator	scale
Drilling depth stop	with fine tuning
Table height adjustment	with toothed rack
Machine dimensions without packaging (mm)	610 x 850 x 1,920
Machine dimensions with packaging (mm)	637 x 1,096 x 2,120
3-phase pole-changing motor, 400 V (kW)	1.5/3.0
Spindle speed, step selector switch (rpm)	
Stage 1 (left/right rotation)	125-2,000
Stage 2 (right rotation)	250-4,000

### SB P30 ST

Spindle/table (mm)	240-790
Weight (kg)	275
<b>Order no.</b>	<b>205.181</b>
<b>Additional accessories</b>	<b>from page 64</b>

### Drill package 5

- ▶ Vice [felix] 2.0 - 150
- ▶ Morse taper MT3/B18
- ▶ Reduction sleeve MT3/MT1
- ▶ Reduction sleeve MT3/MT2
- ▶ Quick-change drill chuck B18  
3-16 mm (accuracy 0.17 mm)  
**Order no. 296.594**





## Column drill SB P30 STG PV Electronic

Also available with  
black hood



Fig.: SB P30 STG PV Electronic with transparent hood and accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!



Fig.: SB P30 STG PV electronic with accessories

## Standard equipment

- ▶ Main power switch
- ▶ Thread Cutting System
- ▶ Control panel with OLED display
- ▶ High-quality, robust inclined hood for improved speed readability
- ▶ LED lighting
- ▶ Drill depth stop with fine adjustment
- ▶ Stepless speed control via the lever
- ▶ Emergency stop button
- ▶ Thermal overload protection
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable with CEE plug
- ▶ Free cutting device
- ▶ Drilling cross with push button for feed on/off

## Special equipment

- ▶ LED lighting with articulated arm  
**Order no. 290.241**
- ▶ Machined base plate with integrated coolant system (only SB version)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
**Order no. 290.160B**
- ▶ Coolant system (separate container)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
**Order no. 290.340**
- ▶ Machined base plate  
**Order no. 290.175B**
- ▶ Combi drilling table with vice and square table 360° rotatable with scale  
Jaw width 120 mm  
Span 105 mm  
Table surface 350 x 350 mm  
**Order no. 290.125**
- ▶ Large base  
Column Ø 125 mm  
Usable table surface (WxL) 590 x 450 mm  
**Order no. 205.036**

## Software options for PV Electronic

- ▶ Safety module – spindle stop  
**Order no. 290.613**
- ▶ Chip breaking module prevents the formation of long chips  
**Order no. 290.612**
- ▶ Step switching - 4 freely selectable feed speeds per working stroke  
**Order no. 290.614**

## Our classic

### Technical data

Drilling capacity/normal drilling capacity (mm)	25/30 (in E335/ST60)
Thread cutting capacity max.	M20
Spindle	MT3
Drilling depth (mm)	125 mm
Distance column-spindle (mm)	280 mm
Column diameter (mm)	110 mm
Usable table surface (W x L) (mm)	420 x 340 mm
T-slot size (arm), distance (mm), width measurement (mm)	Quantity 2, 125, 13/26
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	with fine tuning
Table height adjustment	with toothed rack
3-phase pole-changing motor, 400 V (kW)	0.90/1.45
Spindle speed, step selector switch (rpm)	
Stage 1 (left/right rotation)	125-2,000
Stage 2 (right rotation)	250-4,000

### SB P30 STG PV Electronic

Stepless feed (mm/min), incl. electromagnetic clutch	0-300
Spindle/table (mm)	240-790
Machine dimensions without packaging (mm)	520 x 820 x 1,900
Machine dimensions with packaging (mm)	670 x 1,100 x 2,200
Weight (kg)	320
<b>Order no. transparent hood</b>	<b>207.220</b>
<b>Order no. black hood</b>	<b>207.183</b>
<b>Additional accessories</b>	<b>from page 64</b>

## Accessories

### Drill package 4/5

- ▶ Vice [felix] 2.0 - 120/150
- ▶ Morse taper MT3/B18
- ▶ Reduction sleeve MT3/MT1
- ▶ Reduction sleeve MT3/MT2
- ▶ Quick-change drill chuck B18 3-16 mm (accuracy 0.17 mm)  
**Order no. with vice [felix] 2.0 - 120 296.593**  
**Order no. with vice [felix] 2.0 - 150 296.594**



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## Column drill SB P40 ST



Fig.: SB P40 ST with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!

## Standard equipment

- ▶ Stepless speed control via the lever
- ▶ Emergency stop button
- ▶ LED lighting
- ▶ Reversing switch  
(not applicable with thread cutting system)
- ▶ Under-voltage release
- ▶ Drill dept stop with fine adjustment
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable with CEE plug
- ▶ Digital drilling depth and spindle speed display

## Special equipment

- ▶ Thread cutting system  
Adjusting the thread cutting depth  
via digital depth display  
**Order no. 290.622**
- ▶ LED lighting with articulated arm  
**Order no. 290.622**
- ▶ Machined base plate with integrated  
coolant system (only SB version)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
**Order no. 290.160C**
- ▶ Machined base plate  
**Order no. 290.175C**
- ▶ Coolant system (separate container)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
**Order no. 290.340**
- ▶ Combi drilling table with vice  
and square table 360° rotatable with scale  
Jaw width 120 mm  
Span 105 mm  
Table surface 350 x 350 mm  
**Order no. 290.135**

## Accessories

### Drill package 6

- ▶ Vice [felix] 2.0 - 150
- ▶ Morse taper MT4/B18
- ▶ Reduction sleeve MT4/MT3
- ▶ Reduction sleeve MT4/MT2
- ▶ Quick-change drill chuck B18  
3-16 mm (accuracy 0.17 mm)  
**Order no. 296.595**



## Our classic

### Technical data

Drilling capacity/normal drilling capacity (mm)	35/40
Thread cutting capacity max.	M30
Spindle	MT4
Drilling depth (mm)	160
Distance column-spindle (mm)	300
Column diameter (mm)	125
Usable table surface (W x L) (mm)	590 x 450
T-slot size (arm), distance (mm), width measurement (mm)	Quantity 2, 160, 14/26
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	with fine tuning
Table height adjustment	with toothed rack
Machine dimensions without packaging (mm)	610 x 850 x 1,920
Machine dimensions with packaging (mm)	637 x 1,096 x 2,120
3-phase pole-changing motor, 400 V (kW)	1.5/3.0
Spindle speed, step selector switch (rpm)	
R1	
Stage 1 (left/right rotation)	100-1,000
Stage 2 (right rotation)	200-2,000
R2	
Stage 1 (left/right rotation)	70-700
Stage 2 (right rotation)	140-1,400
<b>SB P40 ST</b>	
Spindle/table (mm)	150-700
Weight (kg)	440
<b>Order no. R1</b>	<b>205.205</b>
<b>Order no. R2</b>	<b>205.206</b>
<b>Additional accessories</b>	<b>from page 64</b>



## Column drill SB P40 STG PV Electronic

Also available with  
black hood



Fig.: SB P40 STG PV Electronic with transparent hood and accessories



Fig.: SB P40 STG PV Electronic with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!

## Standard equipment

- ▶ Main power switch
- ▶ Thread Cutting System
- ▶ Control panel with OLED display
- ▶ High-quality, robust inclined hood for improved speed readability
- ▶ LED lighting
- ▶ Drill depth stop with fine adjustment
- ▶ Stepless speed control via the lever
- ▶ Emergency stop button
- ▶ Thermal overload protection
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable with CEE plug
- ▶ Free cutting device
- ▶ Drilling cross with push button for feed on/off

## Special equipment

- ▶ LED lighting with articulated arm  
**Order no. 290.241**
- ▶ Machined base plate with integrated coolant system (only SB version)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
**Order no. 290.160C**
- ▶ Machined base plate  
**Order no. 290.175C**
- ▶ Coolant system (separate container)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
**Order no. 290.340**
- ▶ Combi drilling table with vice and square table 360° rotatable with scale  
Jaw width 120 mm  
Span 105 mm  
Table surface 350 x 350 mm  
**Order no. 290.135**

## Software options for PV Electronic

- ▶ Safety module – spindle stop  
**Order no. 290.613**
- ▶ Chip breaking module prevents the formation of long chips  
**Order no. 290.612**
- ▶ Step switching - 4 freely selectable feed speeds per working stroke  
**Order no. 290.614**

## Our classic

### Technical data

Drilling capacity/normal drilling capacity (mm)	35/40 (in E335/ST60)
Thread cutting capacity max.	M30
Spindle	MT4
Drilling depth (mm)	160
Distance column-spindle (mm)	300
Column diameter (mm)	125
Usable table surface (W x L) (mm)	590 x 450
T-slot size (arm), distance (mm), width measurement (mm)	Quantity 2, 160, 14/26
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	with fine tuning
Table height adjustment	with toothed rack
Machine dimensions without packaging (mm)	610 x 850 x 1,920
Machine dimensions with packaging (mm)	637 x 1,096 x 2,120
3-phase pole-changing motor, 400 V (kW)	1.5/3.0
Spindle speed, step selector switch (rpm)	
R1	
Stage 1 (left/right rotation)	100-1,000
Stage 2 (right rotation)	200-2,000
R2	
Stage 1 (left/right rotation)	70-700
Stage 2 (right rotation)	140-1,400

### SB P40 STG PV Electronic

Stepless feed (mm/min), incl. electromagnetic clutch	0-300
Spindle/table (mm)	150-700
Weight (kg)	440
<b>Order no. transparent hood, R1</b>	<b>207.226</b>
<b>Order no. transparent hood, R2</b>	<b>207.227</b>
<b>Order no. black hood, R1</b>	<b>207.208</b>
<b>Order no. black hood, R2</b>	<b>207.209</b>

**Additional accessories** from page 64

## Accessories

### Drill package 6

- ▶ Vice [felix] 2.0 - 150
- ▶ Morse taper MT4/B18
- ▶ Reduction sleeve MT4/MT3
- ▶ Reduction sleeve MT4/MT2
- ▶ Quick-change drill chuck B18 3-16 mm (accuracy 0.17 mm)  
**Order no. 296.595**





**Gear drilling  
machine  
GB 50 MV**



Fig.: GB 50 MV

## Standard equipment

- ▶ Main power switch
- ▶ Robust geared drive (hardened and ground steel gears)
- ▶ Automatic gear lubrication via oil pump
- ▶ Ergonomic layout and design of all operating elements
- ▶ LED lighting
- ▶ Stepless electronic speed preselection within the gear stage (frequency inverter)
- ▶ 4 selectable feed speeds
- ▶ Tool ejector
- ▶ Combi drilling table
- ▶ Selectable left/right rotation
- ▶ Machined base plate with integrated coolant system
- ▶ Heavy-duty machine base with 200 mm column
- ▶ Drill depth stop with scala and fine adjustment
- ▶ Table / base plate with T-slots
- ▶ Front-mounted handwheel for manual fine adjustment
- ▶ Emergency stop button
- ▶ Electrically monitored, height-adjustable spindle guard
- ▶ Gear lubrication via automatic pump
- ▶ CE compliant
- ▶ Gearbox-driven system
- ▶ 12-month warranty

## Special equipment

- ▶ Thread cutting system  
Order no: 287.045

## Accessories

- ▶ Vice [felix] 2.0 - 150  
Order no. 281.143
- ▶ Quick-change drill chuck, B18  
Span 3-16 mm  
Rotational accuracy: 0.17 mm  
Order no. 285.165
- ▶ Morse Taper  
B18/MT4  
Order no. 290.323

Further special equipment on request!

## Our gear drilling machine

### Technical data

Drilling capacity (mm)	50
Thread cutting capacity max.	M36
Spindle	MT4
Drilling depth (mm)	230
Distance column-spindle (mm)	400
Column diameter (mm)	200
Usable table surface (W x L) (mm)	550 x 550
T-slot size (arm), distance (mm), width measurement (mm)	Quantity 3, 160, 16/28
Speed indicator	scale
Drilling depth indicator	scale
Distance spindle/table (mm)	50-850
Table height adjustment	with toothed rack
Machine dimensions without packaging (mm)	600 x 1,060 x 2,450
Machine dimensions with packaging (mm)	680 x 2,600 x 1,210
3-phase motor, 400 V (kW)	3.0
Spindle speed in 9 stages (gears) (1/min)	54-75-109-169-237-344-507-712-1,032
Mechanical spindle feed (mm/rev)	0.1-0.2-0.3-0.4

### GB 50 MV

Weight (kg)	795
<b>Order no.</b>	<b>287.040</b>

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## Column drill SB 30 NC Plus



Fig.: SB 30 NV Plus with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!

## Standard equipment

- ▶ Main power switch
- ▶ Thread Cutting System
- ▶ Control panel with OLED display and central rotary push button, including stepless speed control
- ▶ High-quality, robust inclined hood for improved speed readability
- ▶ LED lighting
- ▶ Drill depth stop with fine adjustment
- ▶ Stepless speed control via the central rotary push button
- ▶ Emergency stop button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable with CEE plug
- ▶ Selector lever for automatic and manual operating modes
- ▶ Comfort human-machine interface for programming the quill feed
- ▶ Selection of operating mode: drilling, reaming, countersinking, flow drilling, tapping
- ▶ Free programming function

## Special equipment

- ▶ LED lighting with articulated arm  
**Order no. 290.241**
- ▶ Combi drilling table with vice and square table 360° rotatable with scale  
Jaw width 120 mm  
Span 105 mm  
Table surface 350 x 350 mm  
**Order no. 290.135**
- ▶ Machined base plate  
**Order no. 290.175C**
- ▶ Coolant system (separate tank)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
**Order no. 290.340**
- ▶ Machined base plate with integrated coolant system  
Filling capacity: max. 15 liter  
Flow rate: max. 13,4 l/min  
**Order no. 290.160C**
- ▶ Foot switch for drilling and tapping with spindle on/off and left/right rotation  
**Order no. 231.000**
- ▶ Optimized spindle brake  
**Order no. 290.222**
- ▶ Commissioning the machine and briefing the operating staff  
**Order no. 229.931**

## SB 30 NC Plus

### Technical data

Drilling capacity/normal drilling capacity (mm)	
R1 (measured Torque Nm)	27/32 (in E335/ST60) (100)
R2 (measured Torque Nm)	25/30 (in E335/ST60) (70)
R3 (measured Torque Nm)	30/35 (in E335/ST60) (200)
Thread cutting capacity max.	
R1	M24
R2	M20
R3	M30
Spindle	MT3
Drilling depth (mm)	125
Distance column-spindle (mm)	300
Column diameter (mm)	125
Usable table surface (W x L) (mm)	590 x 450
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	with fine tuning
Table height adjustment	with toothed rack
Spindle/table (mm)	150-700
Machine dimensions without packaging (mm)	610 x 900 x 1,980
Machine dimensions with packaging (mm)	670 x 1,100 x 2,200
Motor with frequency converter, 400 V, 3-phase supply+N+PE (kW)	3.0
Spindle speed, stepless (1/min)	
R1 (1-stage)	0-1,000
R2 (1-stage)	0-1,600
R3 (2-stage with gearing)	0-4,000

### SB 30 NC Plus

Stepless feed (mm/rev)	0-1.5
Weight (kg)	400
<b>Order no. R1</b>	<b>230.510</b>
<b>Order no. R2</b>	<b>230.511</b>
<b>Order no. R3</b>	<b>230.512</b>
<b>Additional accessories</b>	<b>from page 64</b>

\* The drilling machine is fitted with a frequency converter and complies with the standards DIN EN 55011:2016 & A1:2017.

## Accessories

### Drill package 5

- ▶ Vice [felix] 2.0 - 150
- ▶ Morse taper MT3/B18
- ▶ Reduction sleeve MT3/MT1
- ▶ Reduction sleeve MT3/MT2
- ▶ Quick-change drill chuck B18 3-16 mm (accuracy 0.17 mm)  
**Order no. 296.594**





## Column drill SB 40 NC Plus



Fig.: SB 40 NC Plus with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!

## Standard equipment

- ▶ Main power switch
- ▶ Thread Cutting System
- ▶ Control panel with OLED display and central rotary push button
- ▶ High-quality, robust inclined hood for improved speed readability
- ▶ LED lighting
- ▶ Drill depth stop with fine adjustment
- ▶ Stepless speed control via the central rotary push button
- ▶ Emergency stop button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Electrically interlocked chuck guard
- ▶ Connecting power cable with CEE plug
- ▶ Selector lever for automatic and manual operating modes
- ▶ Comfort human-machine interface for programming the quill feed
- ▶ Selection of operating mode: drilling, reaming, countersinking, flow drilling, tapping
- ▶ Free programming function

## Special equipment

- ▶ LED lighting with articulated arm  
Order no. 290.241
- ▶ Combi drilling table with vice and square table 360° rotatable with scale  
Jaw width 120 mm  
Span 105 mm  
Table surface 350 x 350 mm  
Order no. 290.138
- ▶ Machined base plate  
Order no. 290.175D
- ▶ Coolant system (separate tank)  
Filling quantity: max. 15 liter  
Flow rate: max. 13,4 l/min  
Order no. 290.340
- ▶ Machined base plate with integrated coolant system  
Filling capacity: max. 15 liter  
Flow rate: max. 13,4 l/min  
Order no. 290.160C
- ▶ Foot switch for drilling and tapping with spindle on/off and left/right rotation  
Order no. 231.000
- ▶ Optimized spindle brake  
Order no. 290.222
- ▶ Commissioning the machine and briefing the operating staff  
Order no. 229.931

## SB 40 NC Plus

### Technical data

Drilling capacity/normal drilling capacity (mm)	
R1 (measured Torque Nm)	30/35 (in E335/ST60) (135)
R2 (measured Torque Nm)	27/32 (in E335/ST60) (90)
R3 (measured Torque Nm)	35/40 (in E335/ST60) (260)
Thread cutting capacity max.	
R1	M30
R2	M24
R3	M36
Spindle	MT4
Drilling depth (mm)	160
Distance column-spindle (mm)	300
Column diameter (mm)	140
Usable table surface (W x L) (mm)	590 x 450
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	with fine tuning
Table height adjustment	with toothed rack
Spindle/table (mm)	150-700
Machine dimensions without packaging (mm)	610 x 900 x 1,980
Machine dimensions with packaging (mm)	670 x 1,100 x 2,200
Motor with frequency converter, 400 V, 3-phase supply+N+PE (kW)	4.0
Spindle speed, stepless (1/min)	
R1 (1-stage)	0-1,000
R2 (1-stage)	0-1,600
R3 (2-stage with gearing)	0-4,000
<b>SB 40 NC Plus</b>	
Stepless feed (mm/rev)	0-1.5
Weight (kg)	400
Order no. R1	230.540
Order no. R2	230.541
Order no. R3	230.542
<b>Additional accessories</b>	<b>from page 64</b>

\* The drilling machine is fitted with a frequency converter and complies with the standards DIN EN 55011:2016 & A1:2017.

## Accessories

### Drill package 6

- ▶ Vice [felix] 2.0 - 150
- ▶ Morse taper MT4/B18
- ▶ Reduction sleeve MT4/MT3
- ▶ Reduction sleeve MT4/MT2
- ▶ Quick-change drill chuck B18 3-16 mm (accuracy 0.17 mm)  
Order no. 296.595





**SB P50 CNC**  
Drill-Mill Machines /  
CNC Drilling and  
Thread Tapping  
Machines



Fig.: SB P50 CNC

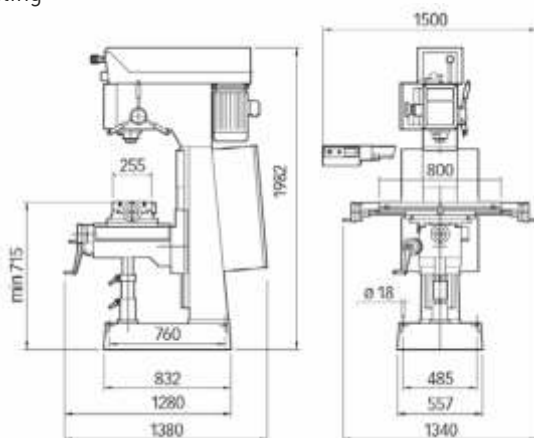


## CNC Drill-mill machine with continuous interpolation of X,Y, and Z axes

- ▶ The numerical control system manages three axes. The spindle rotation, in combination with continuous axis interpolation, enables drilling, thread cutting, and milling with programmable work cycles.
- ▶ A 7-inch touchscreen allows programming directly on the machine – with buttons to control the machining process and digital displays for axis positions and spindle speed.
- ▶ A USB port is available for loading programs onto the machine, along with an additional interface for connecting to a CAD/CAM system.
- ▶ Network connection is possible via Ethernet RJ45 cable. The SB P50 CNC is designed for INDUSTRY 4.0.
- ▶ Electronic drive with speed control via a frequency inverter – controllable directly from the touchscreen.
- ▶ The three axes are driven by brushless motors; the X and Y axes are powered by ball screws, ensuring high precision and repeatable dimensional accuracy.
- ▶ The machine can be operated either conventionally (manually) or via CNC control of all three axes.
- ▶ High travel speeds on the X and Y axes of up to 8 m/min – with the required safety systems in place, as mandated for speeds over 2 m/min.

### Standard equipment

- ▶ Electronic drive with frequency inverter
- ▶ Ball screws on the X and Y axes
- ▶ Linear scales / rotary encoders on the X, Y, and Z axes
- ▶ Brushless motors on all three axes
- ▶ Standard cycles and tapping cycles for programming drilling, tapping, and milling operations
- ▶ Brushless motor on the Z-axis
- ▶ Central manual lubrication system for guides and ball screws
- ▶ Digital display of axis positions, drilling depth, and spindle speed
- ▶ Tool cooling system
- ▶ LED lighting



### SB P50 CNC

#### Technical data

Max. drilling diameter	Ø 50 mm
Max. tapping diameter	M27 mm
Spindle taper	MT4
Spindle travel	140 mm
Spindle sleeve diameter	72 mm
Spindle speed range	100 - 2.100 rpm
Drive system	Frequency Inverter
X-Axis travel	520 mm
Y-Axis travel	240 mm
Motor power	2,2 - 3 kW
Table load	100 Kg
Weight	810 Kg
<b>Order no.</b>	<b>287.003</b>

#### Optional

- ▶ Spindle ISO 40 with drawbar DIN 2080 and pneumatic tool clamping ISO 40  
**Order no. 287003.000000**
- ▶ Motorized table height adjustment for cross table  
**Order no. 287003.000002**
- ▶ Automatic centralized guideway lubrication system  
**Order no. 287003.000004**
- ▶ Manual centralized guideway lubrication system  
**Order no. 287003.000002**
- ▶ Electrical system for voltages other than 220/380 V, 50 Hz  
**Order no. 287003.000006**
- ▶ Telescopic table support (maximum table load: 150 kg)  
**Order no. 287003.000007**
- ▶ Prepared for rotary table / 4th axis integration  
**Order no. 287003.000008**
- ▶ CNC rotary indexing table, 4th axis MD125  
**Order no. 287003.000009**
- ▶ Manual tailstock center TD 110 for table MD125  
**Order no. 287003.000011**
- ▶ Chip and coolant collection tray  
**Order no. 287003.000012**
- ▶ Tray for swiveling cross table  
**Order no. 287003.000013**
- ▶ Table enclosure for working area (enables rapid traverse of 8 m/min)  
**Order no. 287003.000014**
- ▶ Loading and reading of ISO programs / G-code supported  
**Order no. 287003.000015**



## Multi-head drilling machines

Expandable at any time,  
flexible arrangement



Fig.: Drilling line with 1 drilling head 23 Plus with accessories



Warranty  
extension

- ▶ 3-year warranty for single-shift operation
- ▶ Warranty extension to 4 or 5 years available!

We can put together the FLOTT multi-head drilling machine for you individually .

We would be happy to advise you!

## Standard equipment

- ▶ Fixed worktable
- ▶ Head height adjustment via hand crank
- ▶ Chip tray

## Special equipment / accessories

- ▶ Foot switch on request
- ▶ Coolant system
- ▶ Minimum quantity lubrication
- ▶ Side tables for optional equipment

## Features

- ▶ Can function modularly as a single machine or in series at any time
- ▶ Ideal also for operating while seated
- ▶ Individual modules can be easily moved, e.g. by forklift
- ▶ Base available either with open storage compartment or with drawer and lockable door

## More options

- ▶ Can be combined with machines from 18 Plus to 40 NC Plus (**varying drill heads possible!**)

- |   |  |  |
|---|--|--|
| ▶ 18 Plus<br><b>Order no. 218.304</b>       | ▶ 30 NC Plus R2<br><b>Order no. 231.111</b>            | ▶ P40 STG PV Electronic R2<br><b>Order no. 297.088</b> |
| ▶ 20 Plus<br><b>Order no. 220.101</b>       | ▶ 30 NC Plus R3<br><b>Order no. 231.112</b>            |  |
| ▶ 23 Plus R1<br><b>Order no. 223.024</b>    | ▶ 40 Plus R1<br><b>Order no. 231.115</b>               |  |
| ▶ 23 Plus R2<br><b>Order no. 223.028</b>    | ▶ 40 Plus R2<br><b>Order no. 231.116</b>               |  |
| ▶ 25 Plus R1<br><b>Order no. 225.013</b>    | ▶ 40 Plus R3<br><b>Order no. 231.117</b>               |  |
| ▶ 25 Plus R2<br><b>Order no. 225.015</b>    | ▶ 40 MV Plus R1<br><b>Order no. 231.120</b>            |  |
| ▶ 30 Plus R1<br><b>Order no. 231.100</b>    | ▶ 40 MV Plus R2<br><b>Order no. 231.121</b>            |  |
| ▶ 30 Plus R2<br><b>Order no. 231.101</b>    | ▶ 40 MV Plus R3<br><b>Order no. 231.122</b>            |  |
| ▶ 30 Plus R3<br><b>Order no. 231.102</b>    | ▶ 40 NC Plus R1<br><b>Order no. 231.125</b>            |  |
| ▶ 30 MV Plus R1<br><b>Order no. 231.105</b> | ▶ 40 NC Plus R2<br><b>Order no. 231.126</b>            |  |
| ▶ 30 MV Plus R2<br><b>Order no. 231.106</b> | ▶ 40 NC Plus R3<br><b>Order no. 231.127</b>            |  |
| ▶ 30 MV Plus R3<br><b>Order no. 231.107</b> | ▶ P30 STG PV Electronic<br><b>Order no. 297.086</b>    |  |
| ▶ 30 NC Plus R1<br><b>Order no. 231.110</b> | ▶ P40 STG PV Electronic R1<br><b>Order no. 297.087</b> |  |

## Technical data

### Varying drill heads possible

### Underframe

Usable table surface	590 x 450 mm (transverse slots 2 x 14 mm)
Fixed working height	900 mm
Distance spindle to column	300 mm
Column diameter	125 mm
Distance drill chuck to table	50 - 400 mm
<b>Order no. Underframe with door and drawer</b>	<b>280.600</b>
<b>Order no. with cover and open storage compartment</b>	<b>280.610</b>



## Special equipment

### Option 1

**Machines with deviating special voltage**  
on request



Order no. 290.100

### Option 5 and 6

**Column extension Ø 70**  
max. extension 200 mm

**Column extension Ø 80**  
max. extension 150 mm



Order no. Ø 70 296.286  
Order no. Ø 80 296.287

### Option 2

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



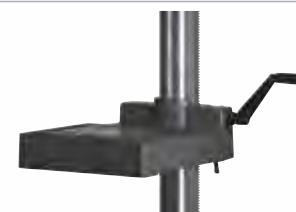
Order no. | Columns -Ø 82 mm 290.175A  
Order no. | Columns -Ø 110 mm 290.175 B  
Order no. | Columns -Ø 125 mm 290.175 C  
Order no. | Columns -Ø 140 mm 290.175 D

### Option 7 and 8

**Column extension Ø 110**  
max. extension 300 mm

**Column extension Ø 125**  
max. extension 300 mm

**Column extension Ø 140**  
max. extension 300 mm



Order no. Ø 110 296.288  
Order no. Ø 125 296.289  
Order no. Ø 140 296.237

### Option 3

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



Order no. 290.320

### Option 9

**Machined foot plate with integrated coolant system**  
Filling capacity:  
max. 15 liter flow rate:  
max. 13,4 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 4

**Foot switch**  
following technical advice and creation of a requirement profile



Order no. on request

### Option 10

**Electric coolant system**  
(separate container)  
complete with pump, tank, hoses, cable and switch from Series 18  
Plus onwards Filling capacity: max. 15 liter flow rate: max. 13,4 l/min



Order no. 290.340

## Special equipment

### Option 11

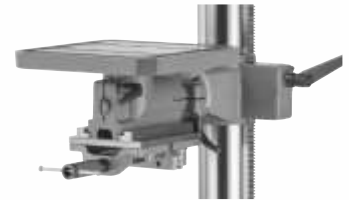
**Fixed depth stop**  
for high repeatability  
up to 25 Plus



Order no. 212.716

### Option 16 and 17

**Combination drill ta-  
bles for 110/125/140  
columns** with vice and  
square table 360° rotat-  
able 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 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 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

### Option 14 and 15

**Commissioning**  
the machine and  
briefing the operating  
staff



Order no. Commissioning 290.018  
Order no. online training 229.931

## 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

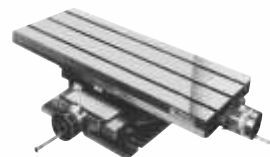


Order no.

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

## Accessories

### Machine cabinet I 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 30 Plus R3 series **290.241**

### LED lighting with 90° articulated arm and 90° 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 90° articulated arm and 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] 2.0 - 80

- ▶ Jaw width: 80 mm
- ▶ Span: 0-120 mm
- ▶ Jaw height: 28 mm
- ▶ Travel: 150 mm
- ▶ Weight: 6,5 kg
- ▶ W x L x H: 95 x 280 x 78 mm



Order no.

281.140

### Vice [felix] 2.0 - 100

- ▶ 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] 2.0 - 120

- ▶ 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] 2.0 - 150

- ▶ 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



[felix] 2.0 - 80



[felix] 2.0 - 100



[felix] 2.0 - 120



[felix] 2.0 - 150

## Accessories

### GBF 12/MT2 (tapping chuck)

---

- ▶ Tapping chuck with gate pressure booster. Length compensation push/pull for clockwise and anti-clockwise rotation.
- ▶ Cutting range: GBF 12 - M3-M12
- ▶ Without collet



Order no.

285.083

---

### GBF 18/MT3 (tapping chuck)

---

- ▶ Tapping chuck with gate pressure booster. Length compensation push/pull for clockwise and anti-clockwise rotation.
- ▶ Cutting range: GBF 18 - M5-M18
- ▶ Without collet



Order no.

285.086

---

### GBF 30/MT4 (tapping chuck)

---

- ▶ Tapping chuck with gate pressure booster. Length compensation push/pull for clockwise and anti-clockwise rotation.
- ▶ Cutting range: GBF 30 - M10-M30
- ▶ Without collet



Order no.

285.089

---

## Accessories

### 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**

---

### Multi-purpose collet for GBF 18

---

- ▶ Span 2.8-7 mm
- ▶ Span 7



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

---

### Multi-purpose collet for GBF 30

---

- ▶ Span 10-16 mm
- ▶ Span 16-23 mm



**Order no.** for 10-16 mm      **285.090**  
**Order no.** for 16-23 mm      **285.091**

---

## Accessories

### 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**

### Quik-change drill chuck, self-tightening

#### For B16

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

#### For B18

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



Order no. for B16 **285.133**  
Order no. for B18 **285.165**

## Accessories

### Tap holder B16

- ▶ 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

### Semi-automatic drill drift



**Order no.** for MT1-MT3 285.334  
**Order no.** for 6.5-10 mm 285.335

### Morse taper



**Order no.** for MT1/B16 285.310  
**Order no.** for MT2/B16 285.320  
**Order no.** for MT3/B18 285.323  
**Order no.** for MT4/B18 290.323  
**Order no.** for MT5/B18 287.097

### Reduction sleeves



**Order no.** for MT2/MT1 285.330  
**Order no.** for MT3/MT2 285.331  
**Order no.** for MT3/MT1 285.332  
**Order no.** for MT4/MT3 285.333  
**Order no.** for MT4/MT2 285.336  
**Order no.** for MT5/MT4 285.092

## Accessories

### GREEN RING Machine taps (set of 14 pcs.)

- ▶ DIN 371/376 M 3 – M 12



Order no.

285.163

### GREEN RING Machine taps for blind holes (set of 14 pcs.)

- ▶ DIN 371/376 M 3 – M 12



Order no.

285.164

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

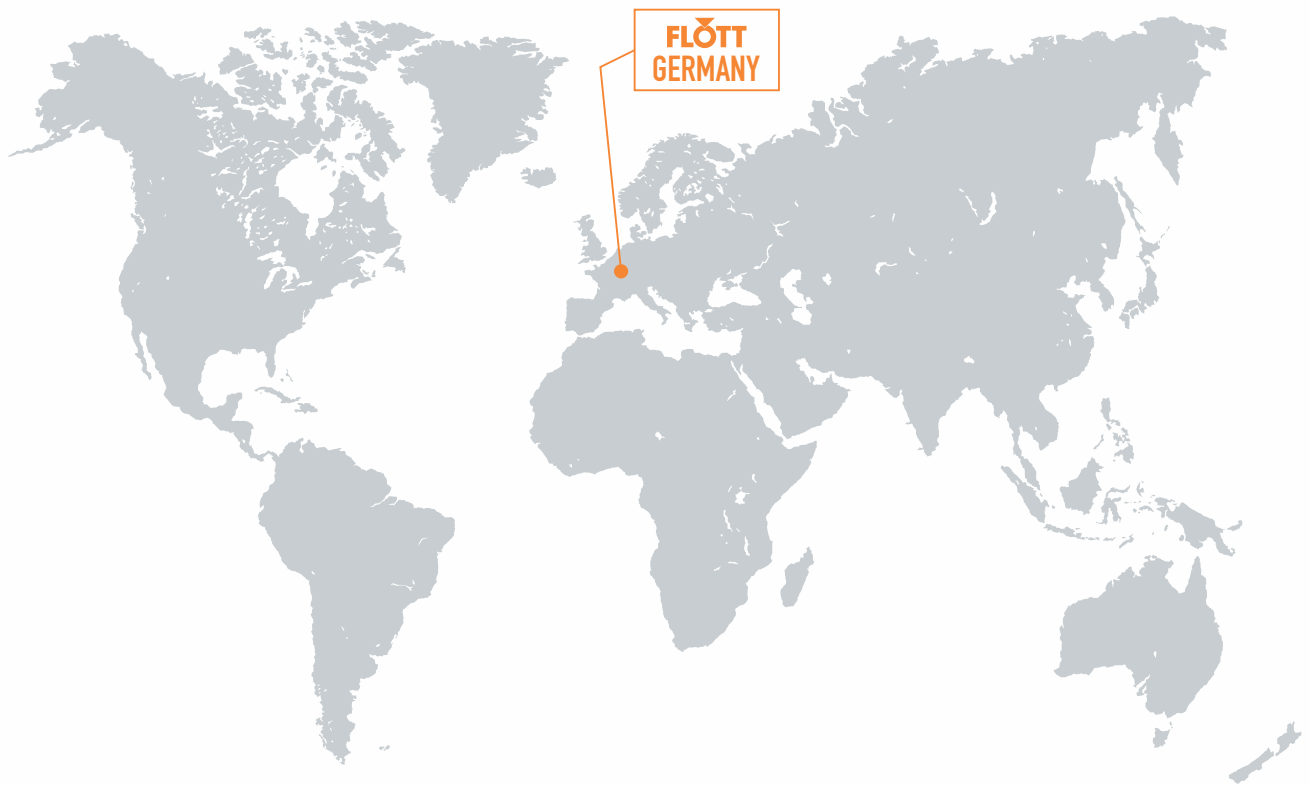
- ▶ DIN 335 C, 90 degrees, 6 pcs.  
6.3-8 mm  
3-10 mm  
4-12 mm  
4-16 mm  
5-20.5 mm



Order no.

285.162

## FLOTT Export Regional Management – Worldwide



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## FLOTT service

Our FLOTT team will be happy to serve!

### FLOTT technical service

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### FLOTT spare parts service

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The direct link  
to your  
service partner



### Note:

For the quickest possible processing of your spare parts request, please keep the **machine number** and the **machine type** ready!

## Extract from our Terms of Sale

- ▶ Delivery ex works, excluding packaging. Shipping location: 42857 Remscheid
- ▶ Extra charges incurred for "seaworthy" packaging.
- ▶ Standard colour (one-component paint)
  - all drilling machines in black RAL 9005
  - grinding machines RAL 9007
  - saw frame RAL 7035, machine body RAL 7005
- ▶ Construction particulars and dimensions are subject to change without notice even during the term of an order.
- ▶ Non-binding price recommendation in EUR plus statutory VAT.
- ▶ Machine prices excluding packaging. Flat rates for packaging in accordance with the price list
- ▶ Accessories and replacement parts excluding packaging.
- ▶ Warranty:
  - 36 months for drilling machines, except: GB 50 MV, here 12 months for single-shift operation
  - 12 months for grinding machines and saws for single-shift operation from delivery, except wearing parts, 6 months on spare parts
- ▶ Complete GTC at [www.flott.de](http://www.flott.de)

[www.flott.de](http://www.flott.de)

**FLOTT**  
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 **MADE IN  
GERMANY**

Subject to technical change and further information at [www.flott.de](http://www.flott.de)  
2026 - 2027 | EN