



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.



certified management system
DIN EN ISO 14001



certified management system
DIN EN ISO 9001

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Overview drilling machines

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

- ▶ 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

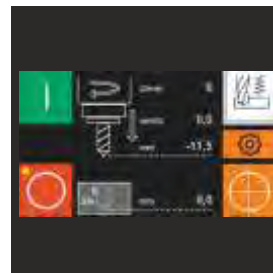
The menu functions

- ▶ 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

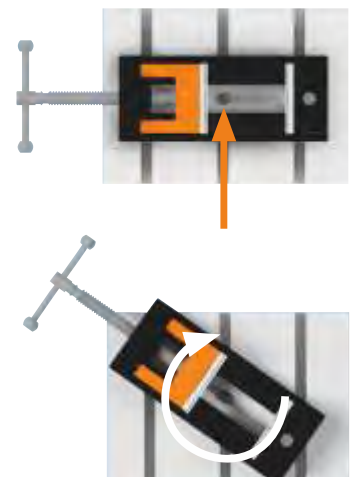
The drilling machine vice for free adjustable clamping of the workpiece.

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
Order no.	281.140

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
Order no.	281.141

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
Order no.	281.142

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
Order no.	281.143

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.

Main power switch

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.

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
Order no.	217.200
Additional accessories	from page 64



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
Order no. (with drill head height adjustment)	217.400
Order no. (with intermediate table and table height adjustment via toothed rack)	217.410
Additional accessories	from page 64



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



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
Order no. B16	212.500
Order no. MT2	212.503

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
Machine dimensions (mm) with cabinet with packaging	940 x 570 x 2,140
Machine dimensions (mm) without cabinet	355 x 485 x 1,027
Machine dimensions (mm) without cabinet with packaging	940 x 570 x 1,600
Weight without cabinet (kg)	70
Order no. B16	212.650
Order no. MT2	212.655

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
Order no. B16	212.502
Order no. MT2	212.504

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 15 Plus TBZ 15 Plus SB 15 Plus



Fig.: TB 15 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

- ▶ 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
Order no.	212.755

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
Order no.	212.765

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
Order no.	212.750

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



- ▶ 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
Order no.	218.303

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
Order no.	218.309

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
Order no.	218.308

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 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
Order no.	220.105

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
Order no.	220.110

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
Order no.	220.100

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



- ▶ 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	R1	23/25 (in E335/ST60)
drilling capacity (mm)	R2	20/23 (in E335/ST60)
Thread cutting capacity	R1	M16
max.	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



- ▶ 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



- ▶ 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 (quik 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



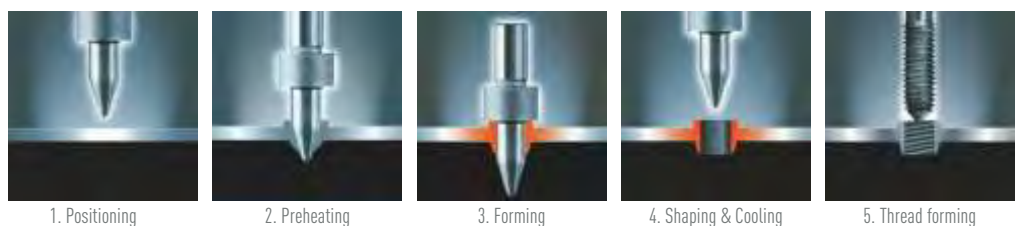
Technical data

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
Order no.	220.115
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.



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.

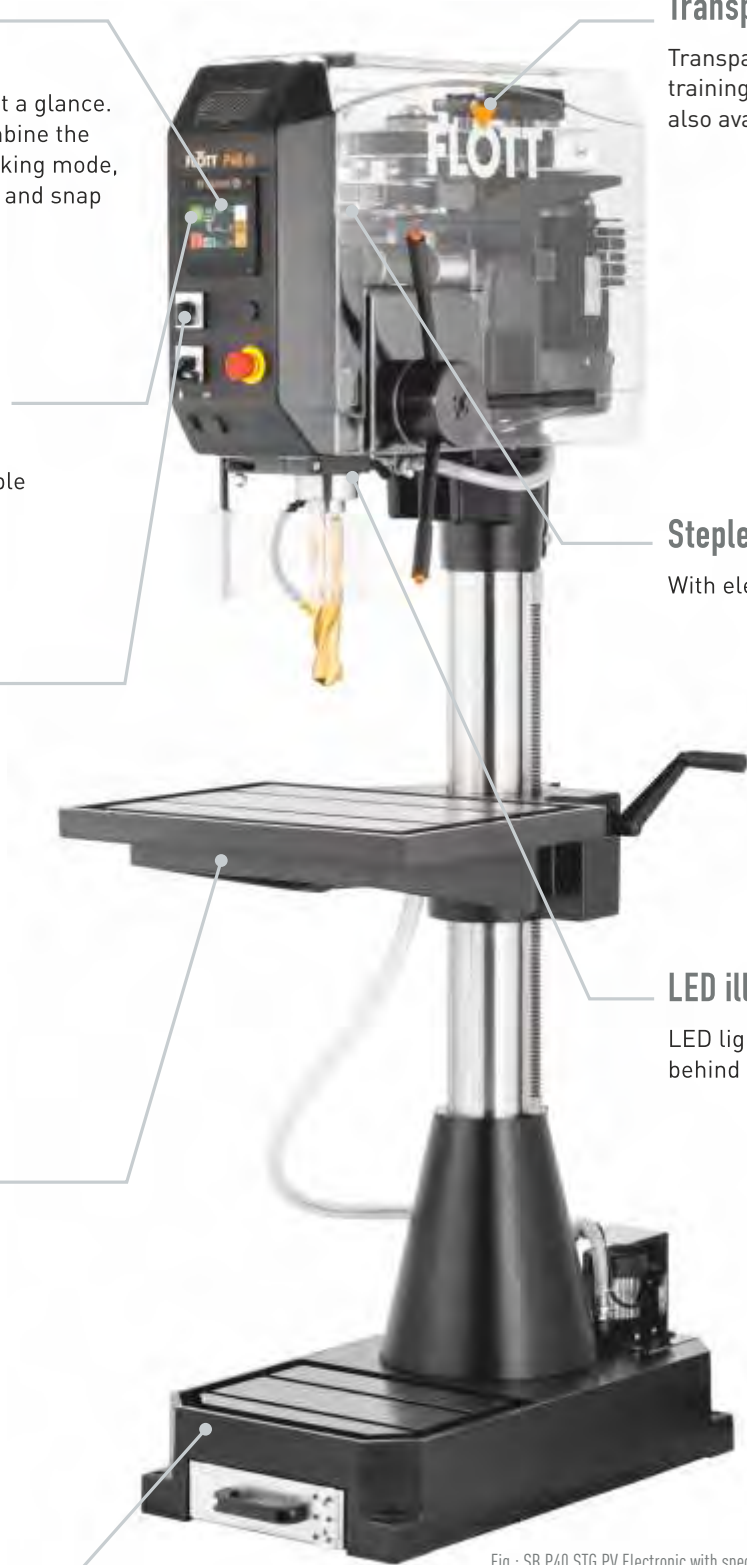


Fig.: SB P40 STG PV Electronic with special equipment and accessories

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).





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



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



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



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



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



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



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
Order no.	205.181
Additional accessories	from page 64



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
Order no. transparent hood	207.220
Order no. black hood	207.183
Additional accessories	from page 64

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





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
SB P40 ST	
Spindle/table (mm)	150-700
Weight (kg)	440
Order no. R1	205.205
Order no. R2	205.206
Additional accessories	from page 64



Column drill SB P40 STG PV Electronic

Also available with
black hood



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



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



Fig.: SB P40 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. 290.160C
- ▶ 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
Order no. transparent hood, R1	207.226
Order no. transparent hood, R2	207.227
Order no. black hood, R1	207.208
Order no. black hood, R2	207.209
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
Order no.	287.040



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
-------------	-----

Order no. R1	230.510
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Order no. R2	230.511
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Order no. R3	230.512
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Additional accessories	from page 64
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* 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
SB 40 NC Plus	
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
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





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



Fig.: SB P50 CNC





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



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
Order no. Underframe with door and drawer	280.600
Order no. with cover and open storage compartment	280.610

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 82 296.287

Option 2

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



Order no. I Columns -Ø 82 mm 290.175A
Order no. I Columns -Ø 110 mm 290.175 B
Order no. I Columns -Ø 125 mm 290.175 C
Order no. I 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. I Columns -Ø 82 mm 290.160A
Order no. I Columns -Ø 110 mm 290.160B
Order no. I Columns -Ø 125 mm 290.160C
Order no. I 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 12

Special colour
Base (RAL
one-component paint)



Order no. 290.200

Option 13

Special colour
Plus hood
Possible on request!



Order no. 290.201

Option 14 and 15

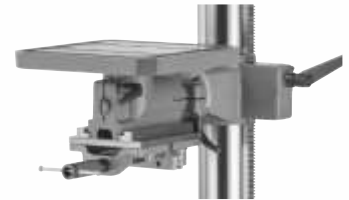
Commissioning
the machine and
briefing the operating
staff



Order no. Commissioning 290.018
Order no. online training 229.931

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 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.

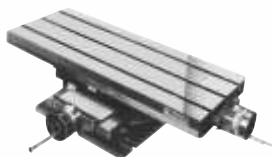
Large, stepless adjustment range of the dosing pump. From
barely perceptible volume to the maximum delivery rate of
3 cm³/ min. The compact dosing unit for minimum quantity
lubrication: As little as possible, but as much as necessary -
i.e. optimally dosed!

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

Accessories

F0 precision cross table

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



Order no.

281.085

F1 precision cross table

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



Order no.

281.090

F2 Precision cross table

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



Order no.

281.095

Machine cabinet I narrow version

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



Order no.

250.208

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

Overview grinding machines

Double grinding machine	Grinding wheel dimension	Speed (rpm)	AC motor 230 V (kW)	3-phase motor 400 V (kW)	Weight (kg)	Extraction spigot Ø	Operating mode	Page
TS 175 SW	175 x 25 x 32	2,800	0.52	-	15	42	intermittent perio-dic duty 25% [S3]	77
TS 175 SD P/Pro	175 x 25 x 32	2,750	-	0.7	15	42	short-time duty 30 min [S2], continous duty [S1]	77
TS 175 SD P/Pro with machine stand, brake and emergency stop button					65			
TS 175 SD P/Pro with machine stand, brake, emergency stop button and extration					65			
TS 200 SD P/Pro	200 x 32 x 32	2,550	-	1.0, 0.75	20	42	short-time duty 30 min [S2], continous duty [S1]	79
TS 200 SD P/Pro with machine stand, brake and emergency stop button					60			81
TS 200 SD P/Pro with machine stand, brake, emergency stop button and extraction					60			81
TS 250 SD P/Pro	250 x 40 x 51	1,400	-	1.4, 0.8	32	42	short-time duty 30 min [S2], continous duty [S1]	79
TS 250 SD P/Pro with machine stand, brake and emergency stop button					85			81
TS 250 SD P/Pro with machine stand, brake, emergency stop button and extraction					85			81
TS 300 SD P	300 x 40 x 51	1,250	-	2.2	55	42	short-time duty 30 min [S2]	83
TS 300 SD P with machine stand, brake and emergency stop button					85			
TS 300 SD P with machine stand, brake, emergency stop button and extraction					90			
TSB 250 P	250 x 40 x 51	1,400	-	1,4	35	42	-	-
TSB 250 P with machine stand, brake and emergency stop button					65			
TSB 250 P with machine stand, brake, emergency stop button and extraction					70			
Belt grinding machine	Belt length	Belt width	AC motor 230 V (kW)	3-phase motor 400 V (kW)	Weight (kg)	Extraction spigot Ø	Page	
TSBM 100	1.220	100	0.75	-	27	35	87	
BSM 75	2.000	75	-	3.75	80	60	89	
BSM 75 A	2.000	75	-	3.75	90	60	89	
BSM 75 A pol	2.000	75	-	3.0/3.75	105	60	89	
BSM 150	2.000	150	-	3.75	90	60	91	
BSM 150 A	2.000	150	-	3.75	100	60	91	
BSM 150 A pol	2.000	150	-	3.0/3.75	105	60	91	
Brush deburring machine	Brush diameter (mm)	Brush width (mm)	Speed (rpm)	3-phase motor 400 V (kW)	Weight (kg)	Page		
BEM 250 Plus	250	60	2.800/1400	1.8/2.1	85	93		
BEM 250	250 (3 Stück)	60	600-2.700	3.75	410	95		



GRINDING TECHNOLOGY

Double grinding machines	74-81
Combined belt grinder/grinding machine	82-83
Belt grinders	84-89
Brush deburring machines	90-93





**Double grinding
machine
TS 175 SW
TS 175 SD P
TS 175 Pro**



**As combination machines,
always supplied with
machine stand and brake
(optional extraction unit)**

Fig.: TS 175 SW/TS 175 SD P

Standard equipment

- ▶ Smooth running, maintenance-free motor
- ▶ Side-closed protective hoods
- ▶ Stable, adjustable workpiece supports
- ▶ Electronic brake only for the
order no. 317.798, 317.797, 317.841, 317.842
- ▶ Emergency stop button only for
order no. 317.798, 317.797, 317.841, 317.842
- ▶ High safety comfort thanks to adjustable spark guards
- ▶ Motor protection switch with under-voltage release
- ▶ Connecting cable with Schuko plug (for all SW models)
- ▶ Connecting power cable with CEE plug (for all SD P and Pro models)
- ▶ Grinding wheels, coarse and fine, standard aluminium oxide (NK 36P / NK 60N)
- ▶ 12-month warranty for single-shift operation

Special equipment

- ▶ Different colour shade (single-component, RAL colour)
Order no. 309.010

Accessories

- ▶ Wall bracket
Order no. 315.035
- ▶ Machine stand with water dip tank,
Dimensions: 355 x 325 x 820 mm,
Weight: 15 kg
Order no. 350.435
- ▶ Machine stand with extraction unit MA 400 D
Order no. 330.295
- ▶ Dressing stone
Order no. 350.101
- ▶ Grinding wheel, coarse, standard aluminium oxide (NK 36P)
Order no. for TS 175: 317.526
- ▶ Grinding wheel, fine, standard aluminium oxide (NK 60N)
Order no. for TS 175: 317.527

Technical data

Grinding wheel size (mm)	175 x 25 x 32
Extraction spigot Ø (mm)	42
Machine dimensions without packaging (mm)	
without machine stand	230 x 440 x 210
with machine stand	230 x 440 x 1,010
Machine dimensions with packaging (mm)	
without machine stand	260 x 450 x 250
with machine stand	530 x 700 x 1,270
Weight without machine stand (kg)	15
Weight with machine stand (kg)	60

TS 175 SW (intermittent periodic duty)

Speed (1/min)	2,800
1-phase motor 230 V (kW)	0.52, S3-25% (intermittent periodic duty)
Order no.	317.766

TS 175 SD P (short-time duty)

Speed (1/min)	2,740
3-phase motor 400 V (kW)	0.7, S2-30 min (short-time duty)
Order no.	317.761

TS 175 SD P with machine stand, brake and emergency stop button

Order no.	317.798
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TS 175 SD P with machine stand, brake, emergency stop button and extraction

Order no.	317.797
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TS 175 Pro (continuous duty)

Speed (1/min)	2,750
3-phase motor 400 V (kW)	0.7, S1 (continuous duty)
Order no.	317.840

TS 175 Pro with machine stand, brake and emergency stop button

Order no.	317.841
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TS 175 Pro with machine stand, brake, emergency stop button and extraction unit MA 400 D

Order no.	317.842
------------------	----------------



Double grinding machine

TS 200 SD P

TS 200 Pro

TS 250 SD P

TS 250 Pro



Fig.: TS 200 SD P

Standard equipment

- ▶ Smooth running, maintenance-free motor
- ▶ Side-closed protective hoods
- ▶ Stable, adjustable workpiece supports
- ▶ High safety comfort thanks to adjustable spark deflectors
- ▶ Suitable for grinding, deburring and sharpening tools of all kinds, metal profiles etc.
- ▶ Motor protection switch with under-voltage release
- ▶ Spark guards
- ▶ Connecting power cable with CEE plug
- ▶ Grinding wheels, coarse and fine, standard aluminium oxide (NK 36P / NK 60N)
- ▶ 12-month warranty for single-shift operation

Special equipment

- ▶ Different colour shade (single-component, RAL colour)
Order no. 309.010

Accessories

- ▶ Wall bracket (only TS 200 SD P)
Order no. 315.035
- ▶ Machine stand with water dip tank,
Dimensions: 355 x 325 x 820 mm,
Weight: 12 kg (only TS 200 SD P and TS 200 Pro)
Order no. 350.435
- ▶ Machine stand with water dip tank,
Dimensions: 520 x 420 x 845 mm,
Weight: 15 kg (only TS 250 SD P and TS 250 Pro)
Order no. 350.436
- ▶ Machine stand with extraction unit MA 400 D (only for TS 200)
Order no. 330.295
- ▶ Machine stand with extraction unit MA 600 D (only for TS 250)
Order no. 330.080
- ▶ Grinding wheel, coarse, standard aluminium oxide (NK 36P)
Order no. for TS 200: 317.532
Order no. for TS 250: 317.542
- ▶ Grinding wheel, fine, standard aluminium oxide (NK 60N)
Order no. for TS 200: 317.533
Order no. for TS 250: 317.543
- ▶ Dressing stone
Order no. 350.101

Technical data

Grinding wheel size (mm)	200 x 32 x 32
Extraction spigot Ø (mm)	42
Machine dimensions without packaging (mm)	
without machine stand	250 x 470 x 230
Machine dimensions with packaging (mm)	
without machine stand	300 x 480 x 275
Weight without machine stand (kg)	20

TS 200 SD P (short-time duty)

Speed (1/min)	2,550
3-phase motor 400 V (kW)	1.0, S2-30 min (short-time duty)
Order no.	317.762

TS 200 Pro (continuous duty)

Speed (1/min)	2,550
3-phase motor 400 V (kW)	0.75, S1 (continuous duty)
Order no.	317.845

Technical data

Grinding wheel size (mm)	250 x 40 x 51
Extraction spigot Ø (mm)	42
Machine dimensions without packaging (mm)	
without machine stand	280 x 530 x 270
Machine dimensions with packaging (mm)	
without machine stand	325 x 540 x 310
Weight without machine stand (kg)	32
Weight with machine stand (kg)	37

TS 250 SD P (short-time duty)

Speed (1/min)	1,400
3-phase motor 400 V (kW)	1.4, S2-30 min (short-time duty)
Order no.	317.763

TS 250 Pro (continuous duty)

Speed (1/min)	1,400
3-phase motor 400 V (kW)	0.8, S1 (continuous duty)
Order no.	317.850



Double grinding machine TS 200 SD P/ Pro TS 250 SD P/ Pro

As combination machines,
always supplied with
machine stand and brake
(optional extraction unit)



Fig.: TS 200 SD P with machine stand, brake,
emergency stop button and extraction



Fig.: TS 200 SD P with machine stand, brake,
emergency stop button and extraction +
special equipment

Standard equipment

- ▶ Smooth running, maintenance-free motor
- ▶ Side-closed protective hoods
- ▶ Stable, adjustable workpiece supports
- ▶ Electronic brake
- ▶ Emergency stop button
- ▶ Machine stand (optional with extraction)
- ▶ High safety comfort thanks to adjustable spark deflectors
- ▶ Suitable for grinding, deburring and sharpening tools of all kinds, metal profiles etc.
- ▶ Motor protection switch with under-voltage release
- ▶ Spark guards
- ▶ Connecting power cable with CEE plug
- ▶ Grinding wheels, coarse and fine, standard aluminium oxide (NK 36P / NK 60N)
- ▶ 12-month warranty for single-shift operation

Special equipment

- ▶ Different colour shade (single-component, RAL colour)
Order no. 309.010
- ▶ Foot switch emergency stop (can only be ordered in conjunction with brake, machine stand and/or extraction unit)
Order no. 317.859

Accessories

- ▶ Grinding wheel, coarse, standard aluminium oxide (NK 36P)
Order no. for TS 200: 317.532
Order no. for TS 250: 317.542
- ▶ Grinding wheel, fine, standard aluminium oxide (NK 60N)
Order no. for TS 200: 317.533
Order no. for TS 250: 317.543
- ▶ Dressing stone
Order no. 350.101

Technical data

TS 200 SD P/Pro

Grinding wheel size (mm)	200 x 32 x 32
Extraction spigot Ø (mm)	42

Machine dimensions without packaging (mm)

with machine stand	250 x 470 x 230
--------------------	-----------------

Machine dimensions with packaging (mm)

with machine stand	300 x 480 x 275
--------------------	-----------------

Weight with machine stand (kg)	60
--------------------------------	----

Speed (1/min)	2,550
---------------	-------

TS 200 SD P with machine stand, brake and emergency stop button

3-phase motor 400 V (kW)	1.0, S2-30 min (short-time duty)
Order no.	317.776

TS 200 SD P with machine stand, brake, emergency stop button and extraction unit MA 400 D

3-phase motor 400 V (kW)	1.0, S2-30 min (short-time duty)
Order no.	317.777

TS 200 Pro with machine stand, brake and emergency stop button

3-phase motor 400 V (kW)	0.75, S1 (continuous duty)
Order no.	317.846

TS 200 Pro with machine stand, brake, emergency stop button and extraction unit MA 400 D

3-phase motor 400 V (kW)	0.75, S1 (continuous duty)
Order no.	317.847

TS 250 SD P/Pro

Grinding wheel size (mm)	250 x 40 x 51
Extraction spigot Ø (mm)	42

Machine dimensions without packaging (mm)

with machine stand	280 x 530 x 270
--------------------	-----------------

Machine dimensions with packaging (mm)

with machine stand	325 x 540 x 310
--------------------	-----------------

Weight with machine stand (kg)	85
--------------------------------	----

Speed (1/min)	1,400
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TS 250 SD P with machine stand, brake and emergency stop button

3-phase motor 400 V (kW)	1.4, S2-30 min (short-time duty)
Order no.	317.775

TS 250 SD P with machine stand, brake, emergency stop button and extraction unit MA 600 D

3-phase motor 400 V (kW)	1.4, S2-30 min (short-time duty)
Order no.	317.778

TS 250 Pro with machine stand, brake and emergency stop button

3-phase motor 400 V (kW)	0.8, S1 (continuous duty)
Order no.	317.851

TS 250 Pro with machine stand, brake, emergency stop button and extraction unit MA 600 D

3-phase motor 400 V (kW)	0.8, S1 (continuous duty)
Order no.	317.852



Double grinding machine TS 300 SD P

Available as a combined
version with brake,
machine stand and
extraction unit



Fig.: TS 300 SD P with machine stand

Standard equipment

- ▶ Smooth running, maintenance-free motor
- ▶ Side-closed protective hoods
- ▶ Stable, adjustable workpiece supports
- ▶ Available as a combined version with brake, machine stand and extraction system
- ▶ High safety comfort thanks to adjustable spark deflectors
- ▶ Suitable for grinding, deburring and sharpening tools of all kinds, metal profiles etc.
- ▶ Motor protection switch with under-voltage release
- ▶ Spark guards
- ▶ Connecting power cable with CEE plug
- ▶ Grinding wheels, coarse and fine, standard aluminium oxide (NK 36P / NK 60N)
- ▶ 12-month warranty for single-shift operation

Special equipment

- ▶ Different colour shade (single-component, RAL colour)
Order no. 309.010
- ▶ Foot switch emergency stop (can only be ordered in conjunction with brake, machine stand and/or extraction unit)
Order no. 317.859

Accessories

- ▶ Machine stand with water dip tank, Dimensions: 520 x 420 x 845 mm, Weight: 15 kg (only for 317.764)
Order no. 350.436
- ▶ Machine stand with extraction unit MA 600 D (only for 317.764)
Order no. 330.080
- ▶ Grinding wheel, coarse, standard aluminium oxide (NK 36P)
Order no. 317.622
- ▶ Grinding wheel, fine, standard aluminium oxide (NK 60N)
Order no. 317.624
- ▶ Dressing stone
Order no. 350.101

Technical data

TS 300 SD P

Grinding wheel size (mm)	300 x 40 x 51
Extraction spigot Ø (mm)	42
Speed (1/min)	1,250
3-phase current motor 400 V (kW)	2.2, S2-30 min (short-time operation)

TS 300 SD P

Machine dimensions without packaging (mm)	
without machine stand	350 x 530 x 340

Machine dimensions with packaging (mm)	
without machine stand	800 x 600 x 500

Weight with machine stand (kg)	55
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Order no.	317.764
------------------	----------------

TS 300 SD P with machine stand, brake and emergency stop button

Machine dimensions without packaging (mm)	
with machine stand	540 x 530 x 1.180

Machine dimensions with packaging (mm)	
with machine stand	800 x 600 x 1.400

Weight (kg)	85
-------------	----

Order no.	317.776
------------------	----------------

TS 300 SD P with machine stand, brake, emergency stop button and extraction unit MA 600 D

Machine dimensions with packaging (mm)	
with machine stand	540 x 530 x 1.180

Machine dimensions with packaging (mm)	
with machine stand	800 x 600 x 1.400

Weight (kg)	90
Extraction capacity m³/h	350

Order no.	317.779
------------------	----------------



Combined belt grinder / grinding machine TSB 250 P



Fig.: TSB 250 P with machine stand, brake and emergency stop button

Standard equipment

- ▶ Smooth running, maintenance-free motor
- ▶ High performance
- ▶ Belt grinding system, height-adjustable, 0-90°
- ▶ Maximum useable surface grinding area
- ▶ Perfectly balanced and low vibration
- ▶ Connection for dust extraction unit on both sides
- ▶ Motor protection switch with under-voltage release
- ▶ Grinding belt standard, grit 80
- ▶ Grinding wheel, fine, standard aluminium oxide (NK 60N)
- ▶ Spark guards
- ▶ Connecting power cable with CEE plug
- ▶ 12-month warranty for single-shift operation

Accessories

- ▶ Machine stand with water dip tank,
Dimensions: 520 x 420 x 845 mm,
Weight: 15 kg (only for 330.360)
Order no. 350.436
- ▶ Machine stand with extraction unit MA 600 D
(only for 330.360)
Order no. 330.080
- ▶ Grinding wheel, coarse, standard aluminium
oxide (NK 36P)
Order no. 317.542
- ▶ Grinding wheel, fine, standard aluminium
oxide (NK 60N)
Order no. 317.543
- ▶ Grinding belt standard:
75 x 1,300 mm, 5 pcs., grit 40
Order no. 316.042
- ▶ Grinding belt standard:
75 x 1,300 mm, 5 pcs., grit 80
Order no. 316.041
- ▶ Graphite coating 80 x 350 mm
Order no. 316.045

Technical data

Grinding wheel size (mm)	250 x 40 x 51
Belt dimensions (mm)	1,300 x 75
Grinding wheel speed (1/min)	1,400
Belt speed (m/s)	15
Extraction spigot Ø (mm)	42
Sound level (dB (A))	78
3-phase current motor 400 V (kW)	1.4
Measurement with grinding arm position (vertical) (mm)	560 x 320 x 680

TSB 250 P

Machine dimensions without packaging (mm)	600 x 320 x 700
Machine dimensions with packaging (mm)	800 x 800 x 800
Weight (kg)	35

Order no. 330.360

TSB 250 P with machine stand, brake and emergency stop button

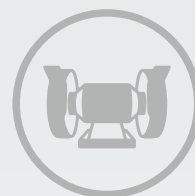
Machine dimensions without packaging (mm)	600 x 540 x 1,190
Machine dimensions with packaging (mm)	1,200 x 800 x 1,000
Weight (kg)	65

Order no. 330.365

TSB 250 P with machine stand, brake, emergency stop button and extraction unit MA 600 D

Machine dimensions without packaging (mm)	600 x 540 x 1,190
Machine dimensions with packaging (mm)	1,200 x 800 x 1,000
Weight (kg)	70

Order no. 330.370



Belt grinder TBSM 100



Fig.: TBSM 100

Standard equipment

- ▶ Compact, powerful machine
- ▶ Suitable for all grinding and deburring work
- ▶ With emergency stop button
- ▶ With cable with schuko plug
- ▶ Low noise level
- ▶ Under-voltage release
- ▶ Grinding belt standard, grit 80
- ▶ Extraction spigot Ø 35 mm
- ▶ Belt cover
- ▶ Fixed stop
- ▶ 12-month warranty for single-shift operation

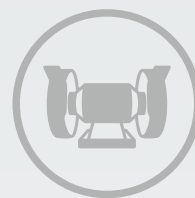
Accessories

- ▶ Graphite coating 310 x 105 mm
Order no. 371.764
- ▶ Grinding belt standard:
100 x 1,220 mm, 5 pcs., grit 40
Order no. 371.765
- ▶ Grinding belt standard:
100 x 1,220 mm, 5 pcs., grit 60
Order no. 371.766
- ▶ Grinding belt standard:
100 x 1,220 mm, 5 pcs., grit 80
Order no. 371.767
- ▶ Grinding belt standard:
100 x 1,220 mm, 5 pcs., grit 100
Order no. 371.768
- ▶ Grinding belt standard:
100 x 1,220 mm, 5 pcs., grit 120
Order no. 371.769
- ▶ Machine stand, height 792 mm
Order no. 371.762

Technical data

TBSM 100

Belt width (mm)	100
Belt length (mm)	1,200
Surface grinding area (mm)	310 x 100
Belt speed (m/s)	19
Extraction spigot Ø (mm)	35
Weight (kg)	27
1-phase motor 230 V (kW)	0.75
Machine dimensions without packaging (mm)	650 x 380 x 260
Machine dimensions with packaging (mm)	800 x 600 x 4,500
Order no.	371.760



Belt grinder
BSM 75
BSM 75 A
BSM 75 A pol.



Fig.: BSM 75

Standard equipment

- ▶ High-quality construction
- ▶ The drive roller is curved so that the sanding belt automatically centres itself on the roller
- ▶ Fully vulcanized contact wheel for maximum service life and optimum smooth running
- ▶ Tool-free, quick and easy change of the grinding belt
- ▶ Continuous height adjustment for optimum setup of the belt grinder to suit the user
- ▶ Freely adjustable metal stop for optimum and safe guiding of workpieces when using the large surface grinding area
- ▶ Belt speed optimised from a construction point of view to exclude the possibility of the workpiece being burned to the greatest extent possible
- ▶ Model equipped with extraction system with robust and flexible extraction hoses
- ▶ Circuit breaker with CEE industrial connector with phase inverter
- ▶ Motor brake (except BSM 75 A pol)
- ▶ Grinding belt standard, grit 60
- ▶ Dust bag (only with extraction unit)
- ▶ Warranty: 5-years on motor for single-shift operation

Accessories

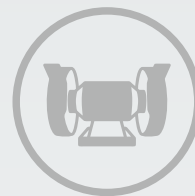
- ▶ Connecting cable with CEE plug (3 m)
Order no. 488.761
- ▶ Extraction hose (length: 1.50 m, in 2 parts)
Order no. 330.109
- ▶ Graphite coating 75 x 620 mm
Order no. 374.042
- ▶ Dust bag
Order no. 371.055
- ▶ Spark guide plate BSM 75
Order no. 374.071

Grinding belts

- ▶ Grinding belt standard: 75 x 2,000 mm, 5 pcs., grit 40
Order no. 371.150
- ▶ Grinding belt standard: 75 x 2,000 mm, 5 pcs., grit 60
Order no. 371.151
- ▶ Grinding belt standard: 75 x 2,000 mm, 5 pcs., grit 80
Order no. 371.152
- ▶ Grinding belt standard: 75 x 2,000 mm, 5 pcs., grit 100
Order no. 371.153
- ▶ Grinding belt standard: 75 x 2,000 mm, 5 pcs., grit 120
Order no. 371.154
- ▶ Grinding belt for stainless steel and grey cast iron: 75 x 2,000 mm, 5 pcs., grit 40
Order no. 371.824
- ▶ Grinding belt for stainless steel and grey cast iron: 75 x 2,000 mm, 5 pcs., grit 60
Order no. 371.825
- ▶ Grinding belt for stainless steel and grey cast iron: 75 x 2,000 mm, 5 pcs., grit 80
Order no. 371.826
- ▶ Grinding belt for stainless steel and grey cast iron: 75 x 2,000 mm, 5 pcs., grit 120
Order no. 371.827

Technical data

Belt width (mm)	100
Belt length (mm)	1,200
Surface grinding area (mm)	600
Extraction spigot Ø (mm)	60
Colour (RAL)	9007
Machine dimensions without packaging (mm)	1,100 x 550 x 1,035
Machine dimensions with packaging (mm)	800 x 700 x 1,400
BSM 75	
Belt speed (m/s)	30
3-phase current motor 400 V (kW)	3.75
Extraction capacity (m3/h)	-
Extraction motor (kW)	-
Weight (kg)	80
Order no.	371.760
BSM 75 A	
Belt speed (m/s)	30
3-phase current motor 400 V (kW)	3.75
Extraction capacity (m3/h)	approx. 630
Extraction motor (kW)	0.37
Weight (kg)	90
Order no.	374.001
BSM 75 A pol.	
Belt speed (m/s)	15/30
3-phase pole-changing motor, 400 V (kW)	3.0/3.75
Extraction capacity (m3/h)	approx. 630
Extraction motor (kW)	0.37
Weight (kg)	105
Order no.	374.002



Belt grinder
BSM 150
BSM 150 A
BSM 150 A pol.



Fig.: BSM 150 A



Fig.: BSM150 A Pol

Standard equipment

- ▶ High-quality construction
- ▶ The drive roller is curved so that the sanding belt automatically centres itself on the roller
- ▶ Fully vulcanized contact wheel for maximum service life and optimum smooth running
- ▶ Tool-free, quick and easy change of the grinding belt
- ▶ Continuous height adjustment for optimum setup of the belt grinder to suit the user
- ▶ Freely adjustable metal stop for optimum and safe guiding of workpieces when using the large surface grinding area
- ▶ Belt speed optimised from a construction point of view to exclude the possibility of the workpiece being burned to the greatest extent possible
- ▶ Model equipped with extraction system with robust and flexible extraction hoses
- ▶ Circuit breaker with CEE industrial connector with phase inverter
- ▶ Motor brake (except BSM 150 A pol)
- ▶ Grinding belt standard, grit 60
- ▶ Dust bag (only with extraction unit)
- ▶ Warranty: 5-years on motor for single-shift operation

Accessories

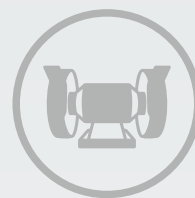
- ▶ Connecting cable with CEE plug (3 m)
Order no. 488.761
- ▶ Extraction hose (length: 1.50 m, in 2 parts)
Order no. 330.109
- ▶ Graphite coating 150 x 620 mm
Order no. 374.043
- ▶ Dust bag
Order no. 371.055
- ▶ Spark guide plate BSM 150
Order no. 374.070

Grinding belts

- ▶ Grinding belt standard: 150 x 2,000 mm, 5 pcs., grit 40
Order no. 371.125
- ▶ Grinding belt standard: 150 x 2,000 mm, 5 pcs., grit 60
Order no. 371.126
- ▶ Grinding belt standard: 150 x 2,000 mm, 5 pcs., grit 80
Order no. 371.127
- ▶ Grinding belt standard: 150 x 2,000 mm, 5 pcs., grit 100
Order no. 371.128
- ▶ Grinding belt standard: 150 x 2,000 mm, 5 pcs., grit 120
Order no. 371.129
- ▶ Grinding belt for stainless steel and grey cast iron: 150 x 2,000 mm, 5 pcs., grit 40
Order no. 371.828
- ▶ Grinding belt for stainless steel and grey cast iron: 150 x 2,000 mm, 5 pcs., grit 60
Order no. 371.829
- ▶ Grinding belt for stainless steel and grey cast iron: 150 x 2,000 mm, 5 pcs., grit 80
Order no. 371.830
- ▶ Grinding belt for stainless steel and grey cast iron: 150 x 2,000 mm, 5 pcs., grit 120
Order no. 371.831

Technical data

Belt width (mm)	150
Belt length (mm)	2,000
Surface grinding area (mm)	600
Extraction spigot Ø (mm)	60
Colour (RAL)	9007
Machine dimensions without packaging (mm)	1,100 x 550 x 1,035
Machine dimensions with packaging (mm)	800 x 700 x 1,400
BSM 150	
Belt speed (m/s)	30
3-phase current motor 400 V (kW)	3.75
Extraction capacity (m3/h)	-
Extraction motor (kW)	-
Weight (kg)	90
Order no.	374.020
BSM 150 A	
Belt speed (m/s)	30
3-phase current motor 400 V (kW)	3.75
Extraction capacity (m3/h)	approx. 630
Extraction motor (kW)	0.37
Weight (kg)	100
Order no.	374.021
BSM 150 A pol.	
Belt speed (m/s)	15/30
3-phase pole-changing motor, 400 V (kW)	3.0/3.75
Extraction capacity (m3/h)	approx. 630
Extraction motor (kW)	0.37
Weight (kg)	105
Order no.	374.022



Brush deburring machine BEM 250 Plus



Fig.: BEM 250 Plus

Standard equipment

- ▶ Robust industrial three-phase current motor
- ▶ Adjustable eye protection
- ▶ Easily adjustable sliding unit (via adjustment screw) in case of wear of the deburring brush to the workpiece support
- ▶ Combined workpiece support both for round material (prism) , flat and rectangular profiles (movable)
- ▶ Adjustable upper cover strip using the clamping lever (serves the purpose of adaptation to fit material size)
- ▶ Ø 80 mm suction piece with end plate (for connection to external extraction system)
- ▶ Machine colour:
 - Machine body RAL 7035
 - Side cover: RAL 7005
- ▶ 1 set of machine feet (4 pieces) with adjustment screw
- ▶ 1 round deburring brush 250 x 60/0.35 mm steel wire corrugated
- ▶ Connecting cable with CEE plug
- ▶ Incl. operating tools
- ▶ 12-month warranty for single-shift operation

Accessories

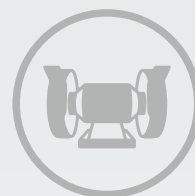
- ▶ Round deburring brush 250 x 60, steel wire 0.35 mm corrugated bore 50.8 mm, double keyway 13 x 7 mm
Order no. 373.176
- ▶ Round deburring brush 250 x 60, steel wire 0.20 mm corrugated bore 50.8 mm, double keyway 13 x 7 mm (for small and thin-walled pipes/profiles)
Order no. 373.177
- ▶ Round deburring brush 250 x 60, steel wire 0.50 mm corrugated bore 50.8 mm, double keyway 13 x 7 mm (for thick-walled pipes/profiles)
Order no. 373.178
- ▶ Round deburring brush 250 x 60, steel wire 0.35 mm corrugated bore 50.8 mm, double keyway 13 x 7 mm (for steel pipes/profiles)
Order no. 373.179

Other brushes for materials - such as aluminium or anodised profiles - on request

Technical data

BEM 250 Plus

Brush diameter (mm)	250
Brush width normal (mm)	60
Socket bore (mm)	50.8
Max. material size (mm)	70 x 140
Working height (mm)	930
Speed/ pole-changeable (rpm)	2,800/1,400
Drive power (kW)	2.1/1.8
Electrical connection (V/Hz)	400/50
Weight (kg)	85
Machine dimensions (mm)	500 x 560 x 1,250
Machine dimensions with VP (mm)	1,400 x 750 x 1,350
Order no.	373.150



Brush deburring machine BEM 250 Pro



Fig.: BEM 250 Pro

Standard equipment

- ▶ High-performance deburring system for interior and exterior deburring of profiles and pipes in one working cycle (approx. 3 secs)
- ▶ Compact and robust construction
- ▶ High-performance industrial-drive three-phase current motor, frequency-regulated for optimum setting of the required speed (600-2,700 1/min) stepless
- ▶ For deburring pipes and profiles (max. material size horizontal/vertical) 120 mm
- ▶ Easily adjustable work table height (can be set and locked) for the material size in question
- ▶ Adjustable, lockable feed (sledges) on the deburring brushes for the work bench using a large handwheel (with locking function)
- ▶ Easily removable dust residue drawer
- ▶ Robust sheet steel housing construction with preparation (opening) for connection to an external extraction system
- ▶ Easily accessible housing hoods (folding) for changing the brushes
- ▶ Machine colour:
 - Machine body RAL 7035
 - Side cover: RAL 7005
- ▶ 1 set of machine feet (4 pieces) with adjustment screw
- ▶ 3 round deburring brushes 250 x 60/0.35 mm steel wire corrugated
- ▶ Connecting cable with CEE plug
- ▶ Incl. operating tools
- ▶ 12-month warranty for single-shift operation

Accessories

- ▶ Round deburring brush 250 x 60, steel wire 0.35 mm corrugated bore 50.8 mm, double keyway 13 x 7 mm
Order no. 373.176
- ▶ Round deburring brush 250 x 60, steel wire 0.20 mm corrugated bore 50.8 mm, double keyway 13 x 7 mm (for small and thin-walled pipes/profiles)
Order no. 373.177
- ▶ Round deburring brush 250 x 60, steel wire 0.50 mm corrugated bore 50.8 mm, double keyway 13 x 7 mm (for thick-walled pipes/profiles)
Order no. 373.178
- ▶ Round deburring brush 250 x 60, steel wire 0.35 mm corrugated bore 50.8 mm, double keyway 13 x 7 mm (for steel pipes/profiles)
Order no. 373.179

Other brushes for materials - such as aluminium or anodised profiles - on request

Technical data

BEM 250 Pro*

Brush diameter (mm)	250 (3 pieces)
Brush width normal (mm)	60
Socket bore (mm)	50.8
Working height (mm)	1,050
Speed, stepless (rpm)	600-2,700
Drive power, frequency-regulated (kW)	3
Electrical connection (V/Hz)	400/50
Weight (kg)	410
Machine dimensions (mm)	680 x 1,200 x 1,380
Machine dimensions with VP (mm)	1.150 x 680 x 1.440
Order no.	373.155

* The brush deburring machine is fitted with a frequency converter and complies with the standard DIN EN 55011:2016 + A1:2017.

Overview saws

Horizontal bandsaws	Band saw blade size mm	 * at 0° mm	 * at 0° mm	 * at 0° mm	Page
HBS 225 A	2,720 x 27 x 0.9	230	275 x 200	230 x 230	98
HBS 230 ANC	2,720 x 27 x 0.9	230	275 x 180	230 x 230	100
HBS 250 A	2,910 x 27 x 0.9	250	320 x 190	240 x 240	102
HBS 250 HA	2,910 x 27 x 0.9	250	320 x 190	240 x 240	104
HBS 350 HA	4,780 x 34 x 1.1	350	510 x 350	350 x 350	106
HBS 350 ANC	4,780 x 34 x 1.1	350	510 x 350	350 x 350	108
HBS 350 SANC	4,780 x 34 x 1.1	350	420 x 350	350 x 350	110
HBS 450 HA	5,200 x 34 x 1.1	450	610 x 450	450 x 450	112
HBS 450 SANC	6,020 x 41 x 1.3	450	520 x 450	450 x 450	114

Vertical bandsaws	Saw blade Ø mm	 * at 0° mm	 * at 0° mm	 * at 0° mm	Page
VBS 400 Plus	3,600 x 13 x 0.9		400 x 390		116

Metal circular saw	Saw blade Ø mm	 * at 0° mm	 * at 0° mm	 * at 0° mm	Page
KS315M	315 x 32	95	100 x 70	80	118

Portable metal band saws	Band saw blade size mm	 * at 0° mm	 * at 0° mm	 * at 0° mm	Page
PBS 120 Plus	1,620 x 13 x 0.65	120	60 x 70	120 x 120	120

*Mitre cuts are possible. Please see the catalogue pages that are indicated for further information.

Explanation of abbreviations

Lowering (Hydraulic cylinder)	A	Automatic NC	ANC	Vertical band saw	VBS
Semi-automatic	HA	Column-guided automatic NC	SANC	Circular saw	KS
		Horizontal bandsaw	HBS	Portable band saw	PBS



SAWING TECHNOLOGY

Horizontal band saws	96-113
Vertical band saw	114-115
Circular saw	116-117
Portable band saw	118-119
Accessories	120-121





FLOTT Metal band saw HBS 225 A



Precise guiding
the saw blade is guided
precisely using
ground carbide plates



Saw blade break monitoring
the saw blade tension is
fitted with a saw blade tension
monitoring and saw blade break
monitoring device



Round supporting table the
machine has a supporting table
that rotates with the mitre cuts.
This means no slits



Operating elements
All operating elements are
accessible from the front of
the machine



**Powered
chip removal brush**

Standard equipment

- ▶ New saw concept with a multitude of standards – for every workshop
- ▶ Torsion-resistant, robust cast saw frame
- ▶ Powered chip removal brush
- ▶ High-performance industrial worm geared drive motor
- ▶ Independent switching-off at the end of the cut
- ▶ Mechanical saw blade tensioning with electrical blade break monitoring system
- ▶ Quick-change vice, sliding
- ▶ Hydraulic saw frame lowering with fast-action function (stepless control)
- ▶ Electric coolant pump
- ▶ Precision carbide saw blade guides, ground (adjustable)
- ▶ Large, round supporting table, rotates along with mitre cuts, mitre display (scale) for the operator
- ▶ Easily removable chip collection container
- ▶ Material stop 500 mm with scale
- ▶ Incl. saw blade combination toothing 4/6
- ▶ Machine colour:
 - Saw frame RAL 7035 /- Machine body RAL 7005
- ▶ 12-month warranty for single-shift operation

Special equipment

- ▶ Laser line for cutting
Order no. 570.172
- ▶ Micro spraying system
Order no. 570.170
- ▶ LED work light
Order no. 570.174

Accessories

- ▶ Blade tension measurement device with dial indicator (Flottomat-BS)
Order no. 570.175
- ▶ Connection L-SR (steel coil), left, 330 mm wide (incl. fastening set)
Order no. 570.176
- ▶ Connection L-SR (steel coil), right, 330 mm wide (incl. fastening set)
Order no. 570.177
- ▶ Roller conveyor L-SR (steel coil), 330 mm wide, basic version 2,000 mm, 150 kg/m
Order no. 570.178
- ▶ Roller conveyor L-SR (steel coil), 330 mm wide, basic version 3,000 mm, 150 kg/m
Order no. 570.179
- ▶ Extension roller conveyor L-SR (steel coil), 2,000 mm, 150 kg/m
Order no. 570.180
- ▶ Extension roller conveyor L-SR (steel coil), 3,000 mm, 150 kg/m
Order no. 570.181

Technical data

HBS 225 A

Three-phase current motor 400 V, pole-changeable (kW)	0.7/1.1
Saw blade dimensions (mm)	2,720 x 27 x 0.9
Flywheels Ø (mm)	300
Cutting speed (m/min)	40/80
Vice span (mm)	275
Working height (mm)	978
Machine dimensions (mm)	1,150 x 1,588 x 1,477
Weight (kg)	370

Order no. 570.050

Additional accessories from page 120

Sawing area

	0°	45° R	45° L	60° R
○	230	190	170	120
□	275 x 180	190 x 150	185 x 100	120 x 100
□	230 x 230	180 x 180	150 x 150	100 x 100

HSS Bi-Metal (M42) Band Saw Blades ¹

Order no.	Dimensions in mm	Combination toothing	VPE set = 2 pcs.
570.200	2,720 x 27 x 0.9	4/6	1
570.201	2,720 x 27 x 0.9	5/8	1
570.202	2,720 x 27 x 0.9	6/10	1
570.203	2,720 x 27 x 0.9	10/14	1

¹ Other bandsaw blades on request

- ▶ Adjustable vertical rollers
Order no. 570.190
- ▶ Adjustable vertical rollers
Order no. 570.188
- ▶ Starter band saw blade package 2,720 x 27 x 0.9 mm each consisting of 1 pc. combi-toothing 4/6, 5/8, 6/10, 10/14
Order no. 570.233
- ▶ Manual material stop 3 m with measuring tape
Order no. 570.195
- ▶ Manual material stop 3 m with digital display
Order no. 570.240
- ▶ Manual material stop 2 m with measuring tape
Order no. 570.194
- ▶ Manual material stop 2 m with digital display
Order no. 570.199
- ▶ further measuring stops on request



FLOTT Metal band saw HBS 230 ANC



Fig.:Option roller conveyor

Standard equipment

- ▶ Fully hydraulic lowering and lifting function of the sawframe, NC control, fully automatic
- ▶ Hydraulic opening and closing of the vice
- ▶ Switches off after end of cutting, saw arm guided back to the starting position
- ▶ Torsion-resistant saw frame made of cast steel (multi-ribbed)
- ▶ feed vice mounted on linear guides
- ▶ Precisely ground carbide saw blade guides, adjustable
- ▶ Electric coolant pump
- ▶ Manual blade tensioning with display, including electrical saw blade and cutting pressure monitoring system
- ▶ Hydraulic cutting feed incl. automatic cutting pressure regulation
- ▶ Chip removal brush, rotating
- ▶ Positioning plate rotatable, for mitre cuts with cutting channel, mitre adjustment manual, reading via scale
- ▶ Minimum remaining piece length 180 mm, smallest possible diameter 5 mm
- ▶ Feed length (single stroke) 490 mm, max. stroke repetition 999
- ▶ Incl. saw blade combination toothing 4/6
- ▶ Machine colour:
 - Saw frame RAL 7035 /- Machine body RAL 7005
- ▶ 12-month warranty for single-shift operation

Special equipment

- ▶ Chip rinsing pistol
Order no. 570.110
- ▶ Laser line for cutting
Order no. 570.172
- ▶ Micro spraying system
Order no. 570.170
- ▶ LED work lighting
Order no. 570.174

Accessories

- ▶ Connecting track L-SR (steel roller), right, 330 mm wide (incl. connection set)
Order no. 570.370
- ▶ Roller conveyor L-SR (steel coil), 330 mm wide, basic version 2,000 mm, 150 kg/m
Order no. 570.178
- ▶ Roller conveyor L-SR (steel coil), 330 mm wide, basic version 3,000 mm, 150 kg/m
Order no. 570.179
- ▶ Extension roller conveyor L-SR (steel coil), 2,000 mm, 150 kg/m
Order no. 570.180
- ▶ Extension roller conveyor L-SR (steel coil), 3,000 mm, 150 kg/m
Order no. 570.181

Technical data

HBS 230 ANC

Three-phase current motor 400 V, pole-changeable (kW)	0.7/1.1
Saw blade dimensions (mm)	2,720 x 27 x 0.9
Flywheels Ø (mm)	300
Cutting speed (m/min)	40/80
Vice span (mm)	275
Working height (mm)	768
Machine dimensions (mm)	2,440 x 1,650 x 1,970
Weight (kg)	500
Order no.	570.040

Additional accessories from page 120

Sawing area

	0°	45° R	60° R
○	230	170	120
□	275 x 180	185 x 100	120 x 100
□	230 x 230	150 x 150	100 x 100

HSS Bi-Metal (M42) Band Saw Blades ¹

Order no.	Dimensions in mm	Combination toothing	VPE set = 2 pcs.
570.200	2,720 x 27 x 0.9	4/6	1
570.201	2,720 x 27 x 0.9	5/8	1
570.202	2,720 x 27 x 0.9	6/10	1
570.203	2,720 x 27 x 0.9	10/14	1

¹ Other bandsaw blades on request

- ▶ Adjustable vertical rollers
Order no. 570.190
- ▶ Adjustable vertical rollers
Order no. 570.188
- ▶ Starter band saw blade package 2,720 x 27 x 0.9 mm each consisting of 1 pc. combi-toothing 4/6, 5/8, 6/10, 10/14
Order no. 570.233



FLOTT Metal band saw HBS 250 A



Pistol for rinsing away
the chips
(optional)



Roller conveyor with
vertical rollers
(accessory)

Standard equipment

- ▶ High-performance band saw with hydraulic saw frame lowering (control valve) for mitre cuts from 0° to 60° right/45° left
- ▶ Saw frame made from a stable cast construction (torsion-resistant)
- ▶ Cut feed over frame weight
- ▶ High-quality industrial three-phase current motor (spur gear) for all requirements (frequency-controlled)
- ▶ Chip removal brush, rotating
- ▶ Precisely ground carbide saw blade guides, adjustable
- ▶ Quick-change vice, sliding
- ▶ Large, heavy, round supporting table, rotates along with mitre cuts with the fixed cutting channel, mitre display via scale
- ▶ Mitre settings and clamping are manual
- ▶ Removable chip collection container
- ▶ Electric coolant pump
- ▶ Material stop 500 mm with scale
- ▶ Incl. saw blade combination toothing 4/6
- ▶ Machine colour:
- Saw frame RAL 7035 /- Machine body RAL 7005
- ▶ 12-month warranty for single-shift operation

Special equipment

- ▶ Chip rinsing pistol
Order no. 570.110
- ▶ Laser line for cutting
Order no. 570.172
- ▶ Micro spraying system
Order no. 570.170
- ▶ LED work light
Order no. 570.174

Accessories

- ▶ Blade tension measurement device with dial indicator (Flottomat-BS)
Order no. 570.175
- ▶ L-SR (steel coil), left, 330 mm wide (incl. fastening set)
Order no. 570.282
- ▶ L-SR (steel coil), right, 330 mm wide (incl. fastening set)
Order no. 570.281
- ▶ Roller conveyor L-SR (steel coil), 330 mm wide, basic version 2,000 mm, 150 kg/m
Order no. 570.178
- ▶ Roller conveyor L-SR (steel coil), 330 mm wide, basic version 3,000 mm, 150 kg/m
Order no. 570.179
- ▶ Extension roller conveyor L-SR (steel coil), 2,000 mm, 150 kg/m
Order no. 570.180
- ▶ Extension roller conveyor L-SR (steel coil), 3,000 mm, 150 kg/m
Order no. 570.181

Technical data

HBS 250 A

Three-phase current motor 400 V, frequency-regulated (kW)	1.5
Saw blade dimensions (mm)	2,910 x 27 x 0.9
Flywheels Ø (mm)	325
Cutting speed (m/min)	20-120
Vice span (mm)	320
Working height (mm)	760
Machine dimensions (mm)	1,480 x 1,700 x 2,000
Weight (kg)	390

Order no. 570.005

Additional accessories from page 120

Sawing area

	0°	45° R	45° L	60° R
○	250	220	180	130
□	300 x 240	240 x 190	240 x 100	130 x 100
□	240 x 240	210 x 210	160 x 160	100 x 100

HSS Bi-Metal (M42) Band Saw Blades ¹

Order no.	Dimensions in mm	Combination toothing	VPE set = 2 pcs.
570.206	2,910 x 27 x 0.9	2/3	1
570.207	2,910 x 27 x 0.9	3/4	1
570.208	2,910 x 27 x 0.9	4/6	1
570.209	2,910 x 27 x 0.9	5/8	1
570.210	2,910 x 27 x 0.9	10/14	1

¹ Other bandsaw blades on request

- ▶ Adjustable vertical rollers
Order no. 570.190
- ▶ Adjustable vertical rollers
Order no. 570.188
- ▶ Starter band saw blade package 2,910 x 27 x 0.9 mm each consisting of 1 pc. combi-toothing 2/3, 3/4, 4/6, 5/8, 10/14
Order no. 570.234
- ▶ Manual material stop 2 m with measuring tape
Order no. 570.194
- ▶ Manual material stop 3 m with measuring tape
Order no. 570.195
- ▶ Manual material stop 2 m with digital display
Order no. 570.199
- ▶ Manual material stop 3 m with digital display
Order no. 570.240
- ▶ further measuring stops on request



FLOTT Metal band saw HBS 250 HA



Mitre reading display



Saw blade guide
made from carbide



Laser line for
cutting
(optional)



LED lighting
for the working area
(optional)



Pistol for rinsing away
the chips
(optional)

Standard equipment

- ▶ Fully hydraulic lowering and lifting system for the saw frame
- ▶ Hydraulic opening and closing of the vice
- ▶ Switches off after end of cutting, saw arm guided back to the starting position
- ▶ Torsion-resistant saw frame made from cast steel (multiple ribbed)
- ▶ Hydraulic short-stroke cylinder for vice
- ▶ Precisely ground carbide saw blade guides, adjustable
- ▶ Electric coolant pump
- ▶ Manual blade tensioning with display, including electrical saw blade and cutting pressure monitoring system
- ▶ Hydraulic vice (opening and closing)
- ▶ Chip removal brush, rotating
- ▶ Large, heavy, round supporting table, rotates along with mitre cuts with the fixed cutting channel, manual mitre setting, can be read from scale
- ▶ Material stop 500 mm with scale
- ▶ Incl. saw blade combination toothing 4/6
- ▶ Machine colour:
 - Saw frame RAL 7035 /- machine body RAL 7005
- ▶ 12-month warranty for single-shift operation

Special equipment

- ▶ Chip rinsing pistol
Order no. 570.110
- ▶ Laser line for cutting
Order no. 570.172
- ▶ Micro spraying system
Order no. 570.170
- ▶ LED work light
Order no. 570.174

Accessories

- ▶ Blade tension measurement device with dial indicator (Flottomat-BS)
Order no. 570.175
- ▶ Flashing L-SR (steel coil), left, 330 mm wide (incl. fastening set)
Order no. 570.282
- ▶ Flashing L-SR (steel coil), right, 330 mm wide (incl. fastening set)
Order no. 570.281
- ▶ Roller conveyor L-SR (steel coil), 330 mm wide, basic version 2,000 mm, 150 kg/m
Order no. 570.178
- ▶ Roller conveyor L-SR (steel coil), 330 mm wide, basic version 3,000 mm, 150 kg/m
Order no. 570.179
- ▶ Extension roller conveyor L-SR (steel coil), 2,000 mm, 150 kg/m
Order no. 570.180
- ▶ Extension roller conveyor L-SR (steel coil), 3,000 mm, 150 kg/m
Order no. 570.181

Technical data

HBS 250 HA

Three-phase current motor 400 V, frequency-regulated (kW)	1.5
Saw blade dimensions (mm)	2,910 x 27 x 0.9
Flywheels Ø (mm)	325
Cutting speed (m/min)	20-120
Vice span (mm)	320
Working height (mm)	760
Machine dimensions (mm)	1,480 x 1,700 x 2,000
Weight (kg)	390

Order no. 570.010

Additional accessories from page 120

Sawing area

	0°	45° R	45° L	60° R
○	250	220	180	130
□	300 x 240	240 x 190	240 x 100	130 x 100
□	240 x 240	210 x 210	160 x 160	100 x 100

HSS Bi-Metal (M42) Band Saw Blades ¹

Order no.	Dimensions in mm	Combination toothing	VPE set = 2 pcs.
570.206	2,910 x 27 x 0.9	2/3	1
570.207	2,910 x 27 x 0.9	3/4	1
570.208	2,910 x 27 x 0.9	4/6	1
570.209	2,910 x 27 x 0.9	5/8	1
570.210	2,910 x 27 x 0.9	10/14	1

¹ Other bandsaw blades on request

- ▶ Adjustable vertical rollers
Order no. 570.190
- ▶ Adjustable vertical rollers
Order no. 570.188
- ▶ Starter band saw blade package 2,910 x 27 x 0.9 mm each consisting of 1 pc. combi-toothing 2/3, 3/4, 4/6, 5/8, 10/14
Order no. 570.234
- ▶ Manual material stop 2 m with measuring tape
Order no. 570.194
- ▶ Manual material stop 3 m with measuring tape
Order no. 570.195
- ▶ Manual material stop 2 m with digital display
Order no. 570.199
- ▶ Manual material stop 3 m with digital display
Order no. 570.240
- ▶ further measuring stops on request



FLOTT Metal band saw HBS 350 HA



**Pistol for rinsing away
the chips**
(optional)



**Full-lift cylinder
for the vice**



**Pressure regulation
for the vice**
(optional)



Bundle tensioning device
Enables layers and bundles
to be tensioned using an
additional vertical
tensioning unit (optional)



Blade tension display
For monitoring the optimum
saw blade tension even while
the machine is in operation
(standard)

Standard equipment

- ▶ Ergonomic, robust welded frame construction, new concept in appealing design for mitre cuts from 0° to 60° right /left
- ▶ Stable, low vibration frame construction with bearing hinged arm joint
- ▶ Simple operation console for the operators
- ▶ Simple, easy-to-understand control system
- ▶ Precisely ground carbide saw blade guides (adjustable) for the highest demands on cutting accuracy
- ▶ Synchronous powered chip removal brush
- ▶ Semi-automatic sawing cycle: fully hydraulic
- ▶ Hydraulic cutting feed incl. automatic cutting pressure regulation
- ▶ Mitre settings and clamping (manual)
- ▶ Hydraulic full-lift cylinder for the vice (Pull-down design) floating vice
- ▶ Blade tension and saw blade break monitoring system
- ▶ Integrated coolant supply (30l tank capacity)
- ▶ Easily removable chip collection containers
- ▶ Hydraulic Blade tension display
- ▶ LED work light
- ▶ Digital mitre display
- ▶ Incl. saw blade combination toothing 4/6
- ▶ Machine colour:
- Saw frame RAL 7035 /- machine body RAL 7005
- ▶ 12-month warranty for single-shift operation

Special equipment

- ▶ Chip rinsing pistol
Order no. 570.110
- ▶ Laser line for cutting
Order no. 570.109
- ▶ Hydraulic bundle tensioning device
Order no. 570.107
- ▶ Clamping pressure regulation for vice
Order no. 570.076

Accessories

- ▶ Material stop 500 mm (measuring scale)
Order no. 570.268
- ▶ Connecting track (steel coil), left, 540 mm wide (incl. fastening set)
Order no. 570.111
- ▶ Connecting track (steel coil), right, 540 mm wide (incl. fastening set)
Order no. 570.112
- ▶ Roller conveyor T-SR (steel coil), 540 mm wide, basic version 2,000 mm, 600 kg/m
Order no. 570.113
- ▶ Roller conveyor T-SR (steel coil), 540 mm wide, basic version 3,000 mm, 600 kg/m
Order no. 570.114
- ▶ Extension roller conveyor T-SR (steel coil), 2,000 mm, 600 kg/m
Order no. 570.115
- ▶ Extension roller conveyor T-SR (steel coil), 3,000 mm, 600 kg/m
Order no. 570.116

Technical data

HBS 350 HA

Three-phase current motor 400 V, frequency-regulated (kW)	3
Saw blade dimensions (mm)	4,780 x 34 x 1.1
Flywheels Ø (mm)	450
Cutting speed (m/min)	20-120
Vice span, full-lift cylinder (mm)	510
Working height (mm)	761
Machine dimensions (mm)	2,568 x 1,070 x 1,500
Weight (kg)	710

Order no. 570.520

Additional accessories from page 120

Sawing area

	0°	45° R	45° L	60° R	60° L
○	350	350	350	250	270
□	510 x 350	400 x 100	415 x 100	260 x 100	280 x 100
□	350 x 350	340 x 340	350 x 350	240 x 240	260 x 260

HSS Bi-Metal (M42) Band saw blades ¹

Order no.	Dimensions in mm	Combination toothing	VPE set = 2 pcs.
570.213	4,780 x 34 x 1.1	2/3	1
570.214	4,780 x 34 x 1.1	3/4	1
570.215	4,780 x 34 x 1.1	4/6	1
570.216	4,780 x 34 x 1.1	5/8	1
570.217	4,780 x 34 x 1.1	8/12	1

¹ Other bandsaw blades on request

- ▶ Adjustable vertical rollers
Order no. 570.119
- ▶ Fixed vertical rollers
Order no. 570.120
- ▶ Starter band saw blade package 4,780 x 34 x 1.1 mm each consisting of 1 pc. combi-toothing 2/3, 3/4, 4/6, 5/8, 8/12
Order no. 570.235
- ▶ Manual measuring stop 2 m with digital
Order no. 570.127
- ▶ Manual measuring stop 3 m with measuring tape
Order no. 570.123
- ▶ Manual measuring stop 2 m with measuring tape
Order no. 570.122
- ▶ Manual measuring stop 3 m with digital
Order no. 570.128
- ▶ Manual material stop 3 m with digital display
Order no. 570.240
- ▶ further measuring stops on request



**FLOTT Metal
band saw
HBS 350 ANC**



Standard equipment

- ▶ The perfect combination of semi-automatic/automatic high-performance band saws for mitre cuts from 0° to 60° right
- ▶ Automatic operation only at 0° (in accordance with cutting data)
- ▶ Appealing design
- ▶ Saw frame with joint bearing, in robust welded frame construction
- ▶ Freely positionable console with an easy to read LCD control panel
- ▶ Integrated material feed (plain bearing) in automatic operation
- ▶ Feed length (single stroke) 600 mm
- ▶ Feed via hydraulic cylinder
- ▶ Max. stroke repetition: 999
- ▶ Smallest diameter for sawing: 10 mm
- ▶ Rest length: 60 mm
- ▶ The smallest cut piece (L x H): 15 x 5 mm
- ▶ Hydraulic Hydraulic full-lift cylinder for the vice (Pull-down design)
- ▶ Cut feed including automatic cutting pressure regulation
- ▶ Double-pump hydraulic unit
- ▶ Precisely ground carbide saw blade guides (adjustable)
- ▶ Clamping pressure regulation for vice
- ▶ Floating vice
- ▶ Blade tension and saw blade break monitoring system
- ▶ Easily removable chip collection containers
- ▶ Integrated coolant supply (30 l tank capacity)
- ▶ LED work light
- ▶ Incl. saw blade combination toothing 4/6
- ▶ Machine colour:
 - Saw frame RAL 7035 /- Machine body RAL 7005
- ▶ 12-month warranty for single-shift operation

Special equipment

- ▶ Hydraulic bundle tensioning device
Order no. 570.064
- ▶ Hydraulic blade tension display
Order no. 570.065
- ▶ Micro spraying system 24 V
Order no. 570.254
- ▶ Laser line for cutting
Order no. 570.109

Accessories

- ▶ Connecting track T-SR, left (incl. connection set)
Order no. 570.284
- ▶ Connecting track T-SR, right, (incl. connection set)
Order no. 570.112
- ▶ Roller conveyor T-SR (steel roller), 540 mm wide, Basic version 2,000 mm, 600 kg/m
Order no. 570.113
- ▶ Roller conveyor T-SR (steel roller), 540 mm wide, Basic version 3,000 mm, 600 kg/m
Order no. 570.114

Technical data

HBS 350 ANC

Three-phase current motor 400 V, frequency-regulated (kW)	3
Saw blade dimensions (mm)	4,780 x 34 x 1.1
Flywheels Ø (mm)	450
Cutting speed (m/min)	20-120
Vice span (mm)	510
Working height (mm)	761
Machine dimensions (mm)	2,440 x 2,880 x 1,540
Weight (kg)	950
Order no.	570.025

Additional accessories from page 120

Sawing area

	0°	45° R	60° R
	350	350	250
	510 x 350	400 x 100	260 x 100
	350 x 350	340 x 340	240 x 240

HSS Bi-Metal (M42) Band saw blades ¹

Order no.	Dimensions in mm	Combination toothing	VPE set = 2 pcs.
570.213	4,780 x 34 x 1.1	2/3	1
570.214	4,780 x 34 x 1.1	3/4	1
570.215	4,780 x 34 x 1.1	4/6	1
570.216	4,780 x 34 x 1.1	5/8	1
570.217	4,780 x 34 x 1.1	8/12	1

¹ Other bandsaw blades on request

- ▶ Extension roller conveyor T-SR (steel roller), 2,000 mm, 600 kg/m
Order no. 570.115
- ▶ Extension roller conveyor T-SR (steel roller), 3,000 mm, 600 kg/m
Order no. 570.116
- ▶ Starter band saw blade package 4,780 x 34 x 1.1 mm each consisting of 1 pc. combi-toothing 2/3, 3/4, 4/6, 5/8, 8/12
Order no. 570.235
- ▶ Manual measuring stop 2 m with digital
Order no. 570.127
- ▶ Manual measuring stop 3 m with measuring tape
Order no. 570.123
- ▶ Manual measuring stop 2 m with measuring tape
Order no. 570.122
- ▶ Manual measuring stop 3 m with digital
Order no. 570.128
- ▶ Manual material stop 3 m with digital display
Order no. 570.240
- ▶ further measuring stops on request



**FLOTT Metal
band saw
HBS 350 SANC**



Standard equipment

- ▶ Fully automatic 2-column horizontal high-performance automatic band saw – perfect for industrial use
- ▶ The saw frame is guided by two robust columns and is unilaterally backlash free in a pretensioned linear guide
- ▶ 3-side precision HM saw blade guiding for optimum cutting results
- ▶ Blade tension and saw blade break monitoring system
- ▶ Synchronous powered chip removal brush
- ▶ Fully hydraulic sawing process:
 - Material feed (plain bearing)
 - Feed length (single stroke) 600 mm
 - Feed via hydraulic cylinder
- ▶ Max. stroke repetition: 999
- ▶ Smallest diameter for sawing 10 mm
- ▶ Rest length: 20 mm
- ▶ The smallest cut piece (L x H): 10 x 5 mm
- ▶ Hydraulic Cutting feed on the saw arm (incl. automatic cutting pressure regulation) saw frame lift height limiter via limit stop switch
- ▶ Simple and clear operation of the control panel (can be freely positioned) simple programming with display (steps) on the control panel display
- ▶ Hydraulic Full-lift cylinder for the vice
- ▶ Double-pump hydraulic unit
- ▶ Hydraulic Bundle tensioning device
- ▶ Clamping pressure regulation for vice, split vice, floating
- ▶ Integrated coolant supply (45 l tank capacity)
- ▶ LED work light
- ▶ Scraper floor-chip conveyor directly under the cutting channel
- ▶ Incl. saw blade combination toothing 4/6
- ▶ Machine colour:
 - Saw frame RAL 7035 /- Machine body RAL 7005
- ▶ 12-month warranty for single-shift operation

Special equipment

- ▶ Saw feed speed display
Order no. 570.063
- ▶ Micro spraying system 24 V
Order no. 570.254
- ▶ Additional (3) coolant supply units
Order no. 570.173
- ▶ Chip rinsing pistol
Order no. 570.110
- ▶ Hydraulic blade tension display
Order no. 570.065

Accessories

- ▶ Connecting track X-SR, left (incl. fastening set)
Order no. 570.255
- ▶ Roller conveyor X-SR (steel coil x 2 pieces), 450 mm wide, basic version 2,000 mm, 1,500 kg/m
Order no. 570.256
- ▶ Roller conveyor X-SR (steel coil x 3 pieces), 450 mm wide, basic version 3,000 mm, 1,500 kg/m
Order no. 570.258

Technical data

HBS 350 SANC

Three-phase current motor 400 V, frequency-regulated (kW)	3
Saw blade dimensions (mm)	4,780 x 34 x 1.1
Flywheels Ø (mm)	450
Cutting speed (m/min)	20 - 120
Vice span (mm)	420
Working height (mm)	780
Machine dimensions (mm)	2,300 x 2,050 x 2,000
Weight (kg)	1,200
Order no.	570.030

Additional accessories from page 120

Sawing area

	0°
	350
	420 x 350
	350 x 350

HSS Bi-Metal (M42) Band saw blades ¹

Order no.	Dimensions in mm	Combination toothing	VPE set = 2 pcs.
570.213	4,780 x 34 x 1.1	2/3	1
570.214	4,780 x 34 x 1.1	3/4	1
570.215	4,780 x 34 x 1.1	4/6	1
570.216	4,780 x 34 x 1.1	5/8	1
570.217	4,780 x 34 x 1.1	8/12	1

¹ Other bandsaw blades on request

- ▶ Extension roller conveyor X-SR (steel coil x 2 pieces), 2,000 mm, 1,500 kg/m
Order no. 570.260
- ▶ Extension roller conveyor X-SR (steel coil x 3 pieces), 3,000 mm, 1,500 kg/m
Order no. 570.262
- ▶ Starter band saw blade package 4,780 x 34 x 1.1 mm each consisting of 1 pc. combi-toothing 2/3, 3/4, 4/6, 5/8, 8/12
Order no. 570.235
- ▶ further measuring stops on request



FLOTT Metal band saw HBS 450 HA



Pistol for rinsing away the chips
(optional)



Full-lift cylinder for the vice



Pressure regulation for the vice
(optional)



Bundle tensioning device
Enables layers and bundles to be tensioned using an additional vertical tensioning unit (optional)



Blade tension display
For monitoring the optimum saw blade tension even while the machine is in operation (standard)

Standard equipment

- ▶ Ergonomic, robust welded frame construction, new concept in appealing design for mitre cuts from 0° to 60° right /left
- ▶ Stable, low vibration frame construction with bearing hinged arm joint
- ▶ Simple operation console for the operators
- ▶ Simple, easy-to-understand control system
- ▶ Precisely ground carbide saw blade guides (adjustable) for the highest demands on cutting accuracy
- ▶ Synchronous powered chip removal brush
- ▶ Semi-automatic sawing cycle: fully hydraulic
- ▶ Hydraulic cutting feed incl. automatic cutting pressure regulation
- ▶ Mitre settings and clamping (manual)
- ▶ Hydraulic full-lift cylinder for the vice (Pull-down design) floating vice
- ▶ Blade tension and saw blade break monitoring system
- ▶ Easily removable chip collection containers
- ▶ Hydraulic Blade tension display
- ▶ Integrated coolant supply (30 l tank capacity)
- ▶ LED work light
- ▶ Digital mitre display
- ▶ Incl. saw blade combination toothing 3/4
- ▶ Machine colour:
 - Saw frame RAL 7035 /- Machine body RAL 7005
- ▶ 12-month warranty for single-shift operation

Special equipment

- ▶ Laser line for cutting
Order no. 570.109
- ▶ Clamping pressure regulation for vice
Order no. 570.076
- ▶ Hydraulic bundle tensioning device
Order no. 570.066

Accessories

- ▶ Material stop 500 mm (measuring scale)
Order no. 570.269
- ▶ Connecting track (steel coil), left, 640 mm wide (incl. fastening set)
Order no. 570.067
- ▶ Connecting track (steel coil), right, 640 mm wide (incl. fastening set)
Order no. 570.068
- ▶ Roller conveyor T-SR (steel coil), 640 mm wide, basic version 2,000 mm, 600 kg/m
Order no. 570.069
- ▶ Roller conveyor T-SR (steel coil), 640 mm wide, basic version 3,000 mm, 600 kg/m
Order no. 570.070
- ▶ Extension roller conveyor T-SR (steel coil), 2,000 mm, 600 kg/m
Order no. 570.071

Technical data

HBS 450 HA

Three-phase current motor 400 V, frequency-regulated (kW)	3
Saw blade dimensions (mm)	5,200 x 34 x 1.1
Flywheels Ø (mm)	480
Cutting speed (m/min)	20-120
Vice span, full-lift cylinder (mm)	610
Working height (mm)	781
Machine dimensions (mm)	2,780 x 1,440 x 1,560
Weight (kg)	800
Order no.	570.525

Additional accessories from page 120

Sawing area

	0°	45° R	45° L	60° R	60° L
○	450	450	450	300	300
□	610 x 450	450 x 250	450 x 400	300 x 290	300 x 290
□	450 x 450	370 x 370	450 x 450	300 x 300	300 x 300

HSS Bi-Metal (M42) Band saw blades ¹

Order no.	Dimensions in mm	Combination toothing	VPE set = 2 pcs.
570.220	5,200 x 34 x 1.1	2/3	1
570.221	5,200 x 34 x 1.1	3/4	1
570.222	5,200 x 34 x 1.1	4/6	1
570.223	5,200 x 34 x 1.1	5/8	1

¹ Other bandsaw blades on request

- ▶ Extension roller conveyor T-SR (steel roller), 3,000 mm, 600 kg/m
Order no. 570.080
- ▶ Adjustable vertical rollers
Order no. 570.083
- ▶ Fixed vertical rollers
Order no. 570.084
- ▶ Starter band saw blade package 5,200 x 34 x 1.1 mm each consisting of 1 pc. combi-toothing 2/3, 3/4, 4/6, 5/8
Order no. 570.236
- ▶ Manual measuring stop 2 m with digital
Order no. 570.127
- ▶ Manual measuring stop 3 m with measuring tape
Order no. 570.123
- ▶ Manual measuring stop 2 m with measuring tape
Order no. 570.122
- ▶ Manual measuring stop 3 m with digital
Order no. 570.128



**FLOTT Metal
band saw
HBS 450 SANC**



Standard equipment

- ▶ Fully automatic 2-column horizontal high-performance automatic band saw – perfect for industrial use
- ▶ The saw frame is guided by two robust columns and is unilaterally backlash free in a pretensioned linear guide
- ▶ Saw frame lift height limiter via limit switch
- ▶ Hydraulic Cutting feed on the saw arm (incl. double-side cutting pressure regulation)
- ▶ 3-side precision HM saw blade guiding for optimum cutting results
- ▶ Synchronous powered chip removal brush
- ▶ Blade tension and saw blade break monitoring system
- ▶ Fully hydraulic sawing process:
 - Material feed (linear bearings)
 - Feed length (single stroke) 600 mm
 - Feed via hydraulic cylinder
- ▶ Max. stroke repetition: 999
- ▶ Smallest diameter for sawing: 10 mm
- ▶ Rest length: 25 mm
- ▶ The smallest cut piece (L x H): 10 x 5 mm
- ▶ Simple and clear programming with display (steps) on the control panel display
- ▶ Hydraulic full-lift cylinder for the vice
- ▶ Double-pump hydraulic unit
- ▶ Hydraulic Bundle tensioning device
- ▶ Clamping pressure regulation for vice
- ▶ LED work light
- ▶ Scraper floor-chip conveyor directly under the cutting channel
- ▶ Integrated coolant supply (45 l tank capacity)
- ▶ Incl. saw blade combination toothing 3/4
- ▶ Machine colour:
 - Saw frame RAL 7035 /- Machine body RAL 7005
- ▶ 12-month warranty for single-shift operation

Special equipment

- ▶ Saw feed speed display
Order no. 570.063
- ▶ Micro spraying system 24 V
Order no. 570.254
- ▶ Additional (3) coolant supply units
Order no. 570.173
- ▶ Chip rinsing pistol
Order no. 570.110

Accessories

- ▶ Connecting part X-SR, left (incl. fastening set)
Order no. 570.136
- ▶ Roller conveyor X-SR (steel coil x 4 pieces), 550 mm wide, basic version 2,000 mm, 1,500 kg/m
Order no. 570.139

Technical data

HBS 450 SANC

Three-phase current motor 400 V, frequency-regulated (kW)	4
Saw blade dimensions (mm)	6,020 x 41 x 1.3
Flywheels Ø (mm)	550
Cutting speed (m/min)	20-120
Vice span (mm)	520
Working height (mm)	780
Machine dimensions (mm)	2,890 x 2,055 x 2,030
Weight (kg)	1,600
Order no.	570.035

Additional accessories from page 120

Sawing area

	0°
	450
	520 x 450
	450 x 450

HSS Bi-Metal (M42) Band saw blades ¹

Order no.	Dimensions in mm	Combination toothing	VPE set = 2 pcs.
570.227	6,020 x 41 x 1.3	2/3	1
570.228	6,020 x 41 x 1.3	3/4	1
570.229	6,020 x 41 x 1.3	4/6	1
570.230	6,020 x 41 x 1.3	5/8	1

¹ Other bandsaw blades on request

- ▶ Roller conveyor X-SR (steel coil x 6 pieces), 550 mm wide, basic version 3,000 mm, 1,500 kg/m
Order no. 570.141
- ▶ Extension roller conveyor X-SR (steel coil x 4 pieces), 2,000 mm, 1,500 kg/m
Order no. 570.143
- ▶ Extension roller conveyor X-SR (steel coil x 6 pieces), 3,000 mm, 1,500 kg/m
Order no. 570.145
- ▶ Starter band saw blade package 6,020 x 41 x 1.3 mm each consisting of 1 pc. combi-toothing 2/3, 3/4, 4/6, 5/8
Order no. 570.237
- ▶ further measuring stops on request



FLOTT Metal vertical band saw VBS 400 Plus



Minimum quantity
lubrication
Order no. 410.031



Longitudinal stop
Order no. 410.030



Standard height-adjust-
able guide arm

Standard equipment

- ▶ Manual vertical band saw with a cutting width of 400 mm
- ▶ Elegant and rigid welded construction
- ▶ Precise drive powered by a frequency converter
- ▶ Digital speed display
- ▶ Stepless band speed
- ▶ Balanced discs
- ▶ Running surfaces coated with hard rubber
- ▶ Hardened and ground guiding jaws
- ▶ LED workspace light
- ▶ Height-adjustable guide arm
- ▶ Machine colour RAL 7005 / RAL 7035
- ▶ 12-month warranty for single-shift operation

Special equipment

- ▶ Table manually moveable via crank
Order no. 410.032
- ▶ Saw blade welding device
Order no. 410.033
- ▶ Tilting table, 15° to the left, right, front and back
Order no. 410.034
- ▶ Longitudinal stop für 90° cuts
Order no. 410.030
- ▶ Minimal lubrication
Order no. 410.031

Accessories

- ▶ Band saw blade: 3,600 x 13 x 0.9 mm, 5 pieces, Tothing 14 teeth
Order no. 410.040
- ▶ Band saw blade: 3,600 x 13 x 0.9 mm, 5 pieces, Tothing 10/14 teeth
Order no. 410.041
- ▶ Band saw blade: 3,600 x 13 x 0.9 mm, 5 pieces, Tothing 6 teeth
Order no. 410.042
- ▶ Starter band saw blade package: 3,600 x 13 x 0.9 mm each consisting of 1 pc. combi tothing 14, 10/14, 6
Order no. 410.050
- ▶ Further band saw blades on request

Technical data

VBS 400 Plus

Table model	Fixed
Table dimensions (mm)	600 x 600
Cutting width (mm)	400
Cutting height (mm)	390
Cutting speed (m/min)	50-1,000
Saw blade dimensions (mm)	3,600 x 13 x 0.9
Drive type	Three-phase current motor, electronically regulated
Connected value (kW/A)	4.0/7.5
Machine dimensions (mm)	2,225 x 1,120 x 770
Weight (kg)	465
Order no.	410.010
With minimum quantity lubrication and longitudinal stop	
Order no.	410.020
Additional accessories	from page 120



FLOTT Metal circular saw KS 315 M



Standard equipment

- ▶ With swivelling head (left/right) for mitre cuts
- ▶ Two speeds
- ▶ Stable cast machine housing construction
- ▶ Reduction gear in oil bath consisting of bronze wheel and hardened, ground steel worm wheel
- ▶ Quick-change vice with counter-tension device for double work piece tensioning
- ▶ Long life mechanical coolant pump
- ▶ Adjustable length stop
- ▶ Operating tool
- ▶ Machine colour: RAL 7037
- ▶ 12-month warranty for single-shift operation

Accessories

- ▶ Steel underframe
(with VP - 250 x 720 x 840 mm)
Order no. 560.830

Technical data

KS 315 M

Three-phase current motor 400 V, pole-changeable (kW)	1.3/1.9
Vice span (mm)	110
Cooling tank capacity (l)	5
Work height with underframe (mm)	980
2 speeds (rpm)	41/82
Machine dimension with underframe without VP (mm)	1,000 x 1,100 x 1,800
Machine dimensions with underframe with VP (mm)	630 x 1,030 x 880

Not included in scope of delivery

Saw blade (mm)	Ø 315 x 32
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Order no.	560.835
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Sawing area

	45° L	0 °	45° R
○	90	95	90
□	80 x 70	100 x 70	80 x 70
□	75	80	75

Metal circular saw blades ¹

Order no.	Dimensions in mm	Number of teeth	VPE
560.316	315 x 2.5 x 32	240	1
560.311	315 x 2.5 x 32	160	1

¹ different saw blades on request



FLOTT Metal band saw PBS 120 Plus



3D object - Separation from
the base plate - Detail
(optional)



3D object - Separation from
the base plate
(optional)

Standard equipment

- ▶ Portable manual metal band saw with two band speeds for mitre cuts from 0° to 60°
- ▶ Manual arm feed to the cut
- ▶ Two band speeds
- ▶ Saw blade guide made from carbide
- ▶ Cast iron vice with quick-release lever
- ▶ Option to connect a longitudinal stop
- ▶ Saw blade cooling at the point of machining
- ▶ incl. saw blade combi toothing 8/12
- ▶ 12-month warranty for single-shift operation

Accessories

- ▶ Underframe
can only be ordered together with coolant tray
Order no. 570.508
- ▶ Coolant tray
(can only be ordered together with underframe)
Order no. 570.509
- ▶ Material stop 300 mm
Order no. 570.510
- ▶ Connecting track, left
Order no. 570.511
- ▶ Connecting track, right
Order no. 570.512
- ▶ Roller conveyor, 2 m (150 kg/m)
Order no. 570.507
- ▶ Starter band saw blade package 1,620 x 13 x 0.65 mm
each consisting of 1 pc. combi-toothing
6/10, 8/12, 10/14
Order no. 570.519

Technical data

PBS 120 Plus

Belt speed (m/min)	35/75
Band saw blade size (mm)	1,620 x 13 x 0.65
Motor 230V (kW)	0.25/0.37
Machine dimensions (mm)	810 x 530 x 450
Weight (kg)	38
Order no.	570.505

Sawing area

	0°	45°R	60°R
	120	90	55
	60 x 70	100 x 90	55 x 65
	120 x 120	90 x 90	55 x 55

Metal band saw blades ¹

Order no.	Dimensions in mm	Teeth per inch	VPE set = 5 pcs.
570.514	1,620 x 13 x 0.65	6/10	1
570.515	1,620 x 13 x 0.65	8/12	1
570.516	1,620 x 13 x 0.65	10/14	1

¹ Other bandsaw blades on request

Accessories

Roller conveyor system L-SR/K330

Highly flexible solution for handling tasks with medium-weight materials. Thanks to the unique profile system, the roller conveyors can be adapted to customer requirements very easily.



on request

Digital measuring stop

Digital material stop with handwheel and pneumatic brake



on request

Stop systems

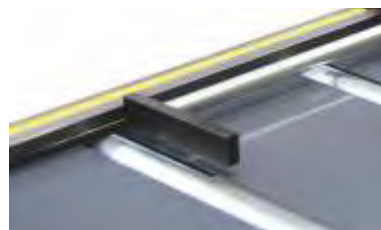
Stop systems -from simple, convenient manual length measuring units to NC controlled modern measuring devices, incl. programme memory.



on request

Manual measuring stop

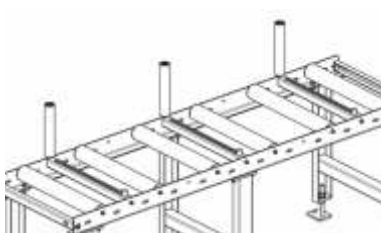
The support surface of the stop enables stable fixation of the material before cutting the desired length.



on request

Roll-off safety system

The roll-off safety system serves to prevent the pipes from rolling off in an uncontrolled manner and the associated danger that this creates for the operating personnel and persons in close proximity.



on request

Hydraulic bundle tensioning

The hydraulic bundle tensioning device enables the tensioning of layers and bundles with an additional hydraulic vertical tensioning unit.



on request

Digital measuring stop - display

The stop carriage is adjusted manually and the position is shown on the digital display with an accuracy of 0.1 mm. The stop arm can be folded upwards for the material to pass through.



on request

Controlled material feed



on request

Vertical rollers

In the ideal arrangement, the vertical rollers ensure precise perpendicular alignment, easier operations and safety for operators and people near the equipment.



on request

Security systems for individual solutions
on request!

Adjustable vertical rollers

Adjustable vertical rollers are essential for cutting layers/bundles. The cut pieces are secured and their shape is maintained when combined with fixed built-in vertical rollers.



on request

Plastic rollers series L-K

The rollers used are stable, solid tubes made of high-quality plastic. Thanks to their properties, the supplied material is protected from damage.



on request

Connecting parts

Each band saw has an adapted connecting part, including the fasteners.



on request

FLOTT information contents

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FLOTT drilling technology safety

Efficient LED illumination

- ▶ The positioning of the power LEDs in the front area of the machine illuminates the drill hole. The work piece does not create any disruptive shadows. Direct glare is prevented by the positioning of the LEDs.



Standard electrical drilling protection

- ▶ In accordance with the European Machine Directive No. 2006/42/EC, all drilling machines are fitted with drilling protection with an electrical fuse.



Standard electrical drilling protection

Safe drilling

- ▶ Standard EMERGENCY OFF switch and spindle stop function (spindle stops when it reaches the starting position)

Vice [felix] 2.0

- ▶ Patented single clamping via hexagon head screw
- ▶ Anti-twist protection through internal hexagon head screw

FLOTT [felix] 2.0



Double grinding machine with optional brake and extraction system

- ▶ Optionally with emergency stop push-button and foot emergency stop
- ▶ The grinding wheels come to a standstill within just a few seconds



Double grinding machine



Belt grinder

Belt grinder with brake and easy belt change, as well as optional extraction system

- ▶ The grinding wheel comes to a standstill within just a few seconds
- ▶ The grinding wheel can be changed without any tools

For further information and the current status regarding new products, please visit: www.flott.de



FLOTT ACADEMY

The FLOTT ACADEMY with Felix Röwekämper. He will show you how it's done.

Learn the basics of drilling technology.

Here you will find more videos on drilling, sawing and grinding.

see. understand. learn.



www.flott.de

FLÖTT-FAN ARTICLES

www.flott.shop



- In our new FLÖTT-FAN SHOP you will find everything you need for your workshop. Mugs, folding rulers, pens, pads pick out something you fancy!



A bench drill

BEER TAP

Ever seen one of those before?

- ▶ For all FLÖTT fans, there is now the perfect addition to the workshop. You can get a freshly tapped, cool beer from our new table tap. The highlight for every party.
- ▶ The TZA 18 is a professional dispensing system with a cooling capacity of 18 litres of beer per hour.
- ▶ The system is supplied with an under-table unit, where there is plenty of room for the beer keg and the technology.

Only here: www.flott.shop

THE TZA18



● FLÖTT demonstration centres and training centres

Extensive and practice-oriented training and service – at its modern equipped training centres, FLÖTT provides qualified training courses in theoretical and practical elements for its “high-quality” segments, drilling technology, grinding technology and sawing technology. With competent expert support, detailed demonstrations of all products and the development of user-friendly solutions for almost all areas of application.

● FLÖTT service points

Short, fast routes to qualified service. An obvious advantage of FLÖTT machine tools. Thanks to its extensive service network and professional, expert technicians, FLÖTT provides support for any incidents via its support locations, offering fast and efficient solutions and guaranteeing convenient processing of all service work and repairs.

Training and demonstration centre

Remscheid

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Phone: +49 2191 979-0
info@flott.de

Heusweiler

Arthur Martini GmbH
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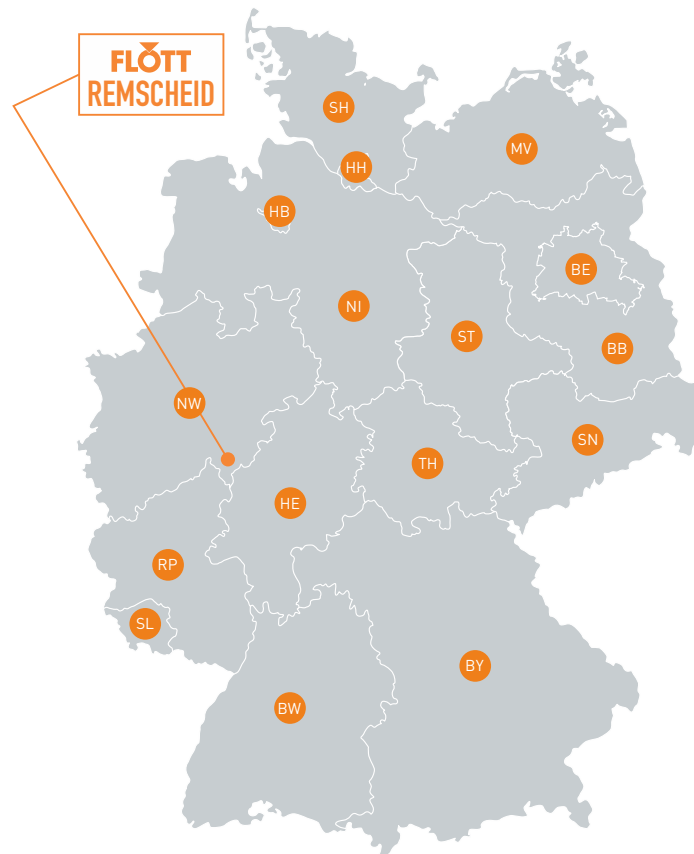
Nürnberg

BFS GmbH
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91126 Rednitzhembach
Phone +49 9122 78550
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FLÖTT Regional Management Germany

BW – Baden-Württemberg
BY – Bavaria
BE – Berlin
BB – Brandenburg
HB – Bremen
HH – Hamburg
HE – Hesse
MV – Mecklenburg-Western Pomerania
NI – Lower Saxony
NW – North Rhine-Westphalia
RP – Rhineland-Palatinate
SL – Saarland
SN – Saxony
ST – Saxony-Anhalt
SH – Schleswig-Holstein
TH – Thuringia



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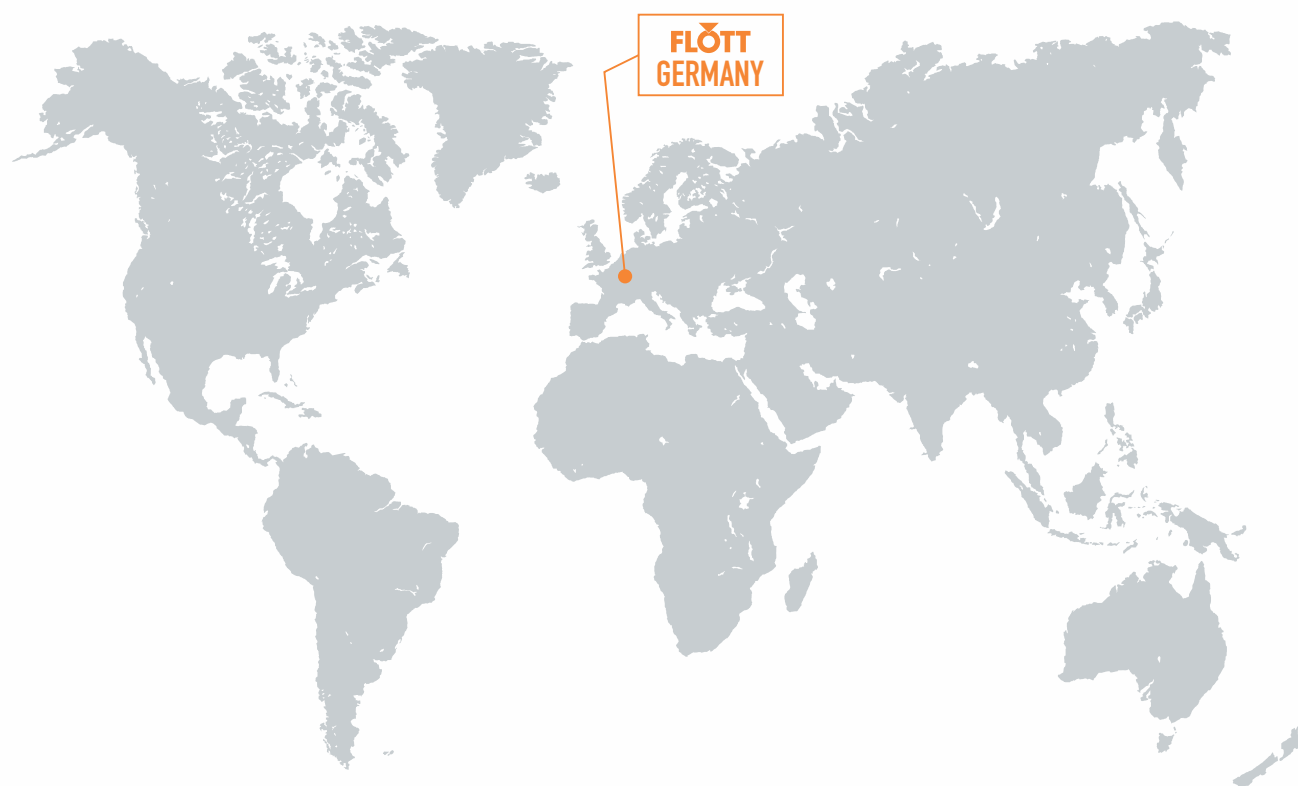
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FLOTT service

Our FLOTT team will be happy to serve!

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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

www.flott.de



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Subject to technical change and further information at www.flott.de
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