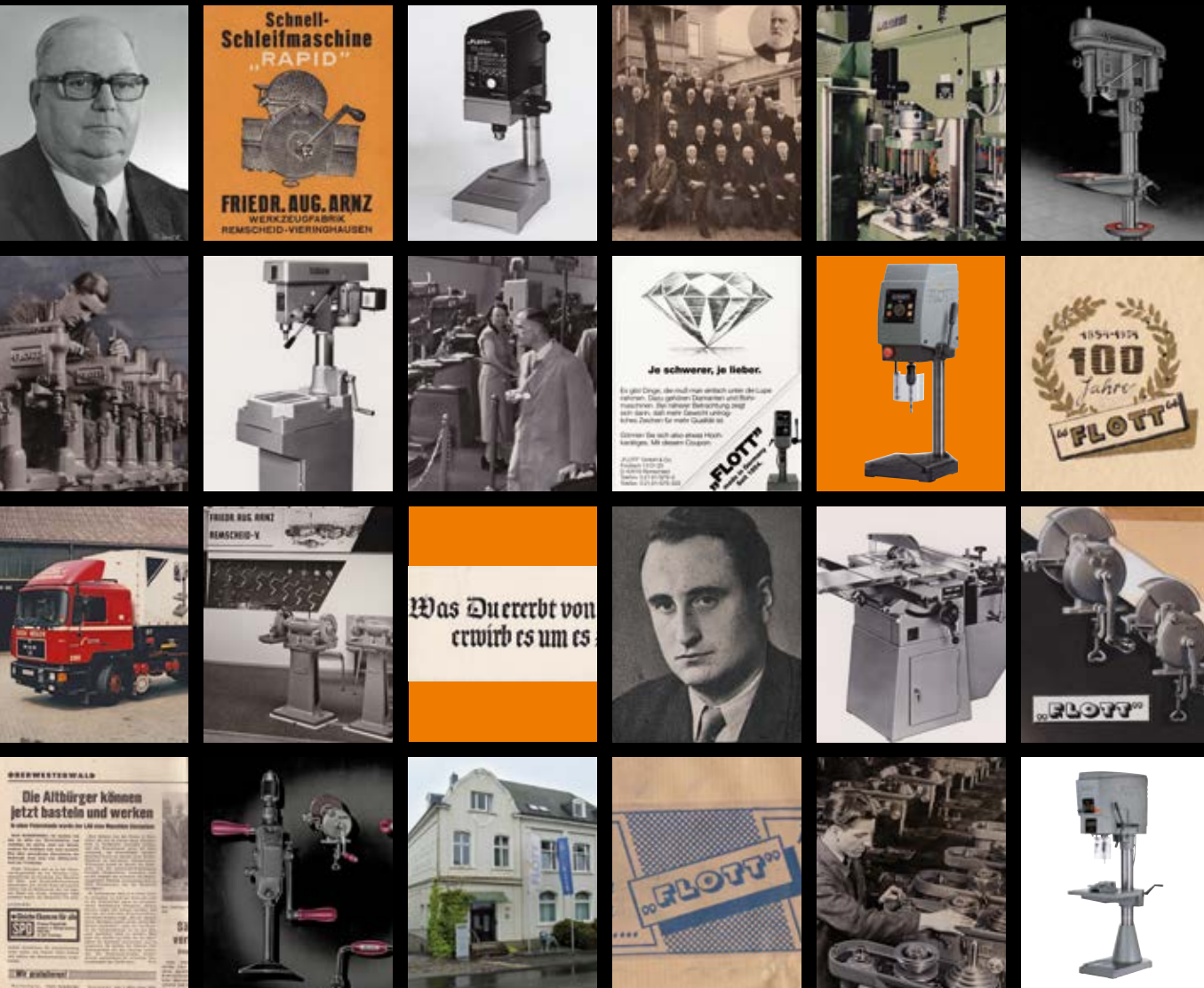


CA
TAL
OG
UE!

TWO THOUSAND AND NINETEEN
& TWO THOUSAND AND TWENTY

We have been in drilling since 165 years



1854 – 2019
165 years

Contents



Drilling technology

Overview of drilling machines	4-5
Drilling technology information	8-9
Vice [felix]	10-11
Drilling technology product groups	12-57
Drilling lines / CNC drilling systems	58-63
Special equipment /	
Accessories for drilling machines	64-77

Grinding technology

Overview of grinding machines	78-79
Grinding machines product groups	80-99
Accessories for grinding machines	100-101

Sawing technology

Overview of sawing machines	102-103
Sawing machine product group	104-125
Accessories for sawing machines	126-127

FLOTT information

Information overview	128-129
Safety / training	130-131
Demonstration and Service centers	132
Area representatives	133
Service contacts	134
Extract from our Terms of Sale	135

Drilling machines contents

Machine	Drilling capacity / normal drilling performance* in mm steel St60/ E335	Thread cutting performance* steel St60/ E335	Revolutions per minute 1/min	Frequency inverter kW	Page
Drilling machines – vice[felix]					10
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 three-phase current, frequency-controlled, (network connection 230 V)	16
Turbo Drill	6/8	max. M5	100-10,000	0.54 three-phase current, frequency-controlled, (network connection 230 V)	18
TB/TBZ/SB 13 Plus	13/15	max. M10	40-4,000	0.54 three-phase current, frequency-controlled, (network connection 230 V)	20
TB/TBZ/SB 15 Plus	15/18	max. M12	40-4,000	0.75 three-phase current, frequency-controlled, (network connection 230 V)	22
TB/TBZ/SB 18 Plus	18/20	max. M12	30-3,000	0.75 three-phase current, frequency-controlled, (network connection 230 V)	24
TB/TBZ/SB 20 Plus	20/23	max. M14	40-4,000	1.5 three-phase current, frequency-controlled, (400 V)	26
TB/TBZ/SB 23 Plus	R1 23/25 R2 20/23	R1 max. M16x1 R2 max. M12	20-2,000 R1 30-3,000 R2	1.5 three-phase current, frequency-controlled, (400 V)	28
TB/TBZ/SB 25 Plus	23/25	max. M16x1	20-2,000 R1	1.5 three-phase current, frequency-controlled, (400 V)	30
SB 30 Plus	R1 27/32 R2 25/30 R3 30/35	R1 max. M24x3 R2 max. M20x2.5 R3 max. M30x3.5	0-1,000 R1 0-1,600 R2 0-4,000 R3	3.0 three-phase current, frequency-controlled, (400 V)	32
SB 30 MV Plus	R1 27/32 R2 25/30 R3 30/35	R1 max. M24x3 R2 max. M20x2.5 R3 max. M30x3.5	0-1,000 R1 0-1,600 R2 0-4,000 R3	3.0 three-phase current, frequency-controlled, (400 V)	32
SB 30 NC Plus	R1 27/32 R2 25/30 R3 30/35	R1 max. M24x3 R2 max. M20x2.5 R3 max. M30x3.6	0-1,000 R1 0-1,600 R2 0-4,000 R3	3.0 three-phase current, frequency-controlled, (400 V)	34
SB P30 STG PV elec.	25/30	max. M20	125-4000	0.9/1.45 three-phase current, 400 V, pole-changeable	36
SB 40 Plus	R1 27/32 R2 25/30 R3 30/35	R1 max. M30x3.5 R2 max. M24x3 R3 max. M36x4	0-1,000 R1 0-1,600 R2 0-4,000 R3	4.0 three-phase current, frequency-controlled, (400 V)	38
SB 40 MV Plus	R1 27/32 R2 25/30 R3 30/35	R1 max. M30x3.5 R2 max. M24x3 R3 max. M36x4	0-1,000 R1 0-1,600 R2 0-4,000 R3	4.0 three-phase current, frequency-controlled, (400 V)	38
SB 40 NC Plus	R1 27/32 R2 25/30 R3 30/35	R1 max. M30x3.5 R2 max. M24x3 R3 max. M36x4	0-1,000 R1 0-1,600 R2 0-4,000 R3	4.0 three-phase current, frequency-controlled, (400 V)	40
SB P40 STG PV elec.	35/40	max. M30	100-2,000 R1 70-1,400 R2	1.5/3.0 three-phase current, 400 V, pole-changeable	42
SB 20 FB Plus		M12	40-4,000	1.5 three-phase current, frequency-controlled, (400 V)	44
SB 30 FB Plus		M36x2	0-4,000	3.0 three-phase current, frequency-controlled, (400 V)	46
SB 30 FB NC PLUS			0-4,000	3.0 three-phase current, frequency-controlled, (400 V)	46
GB 50 MV	50	max. M36	Gear steps	3.0 three-phase current, (400 V)	48
GB 50 MV Plus	50	max. M36	Gear steps	3.0 three-phase current, (400 V)	50
SB P50 STG MV	50	max. M42	Gear steps	4.0 three-phase current, (400 V)	52
GB 70 MV Plus	70	max. M50	Gear steps	5.5 three-phase current, (400 V)	54
BFM 40	35	max. M35	Gear steps	0.9/1.5 three-phase current, 400 V, pole-changeable	56
BS15	on request				58
BA30CNC	on request				60
Gang drilling machine	on request				62

*steel St60/E335

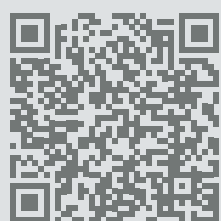
You can find the right drill kits in the technical data for the machine in question.

Colour description

Plus series

P series

Gear box drilling machines



**Drilling
technology**

PLUS SERIES



THE SB 40 NC PLUS EXAMPLE

Our Plus series with clear benefits

- ▶ Convenient operator-machine interface with 4,3" touchscreen display for optimised user convenience (NC Plus).
- ▶ Robust, high-quality rotary molded hood with ergonomically inclined front panel for easier reading and entry of machine and process parameters.
- ▶ The newly developed drive and gear train guarantees maximum power torque with its integrated frequency converter.
- ▶ Speed can be continuously adjusted via the central control dial.
- ▶ All safety features comply with the current requirements and guidelines of the CE Industrial Safety Ordinance.
- ▶ All machines are equipped with LED light as standard.
- ▶ Standard interfaces ensure that additional devices can be connected and it is possible link the machines to integrate them into product lines (optional).
- ▶ Electronically controlled thread cutting device (except TB 10 Eco Plus and TB 10 Basic Plus).
- ▶ Deactivatable/activatable spindle stop (except TB 10 Eco Plus and TB 10 Basic Plus).

**PLEASE HAVE A CLOSER LOOK
AT OUR NEW PRODUCTS**
on the next pages!

SB 40 NC Plus
on Page 40/41
in our catalogue!

FLOTT drilling technology

With the newly developed PLUS drilling machine line, FLOTT has provided a modular system that gives the user the best choice in the drilling range of between 1 and 70 mm.

The drilling machine types are **sorted** by drilling and/or thread cutting performance. The key **accessories / special equipment** are listed for each machine type.

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

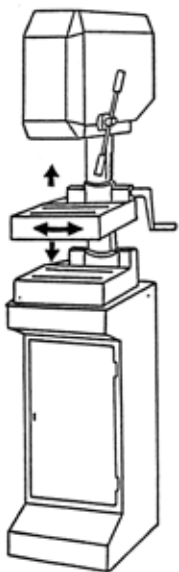
Modern electronics, for example, **digital** depth and speed displays, as well as **electronic stepless** drives, have been the standard at FLOTT machines for years.

The robust construction and long service lives of our drilling machines are valued by our customers all over the world.

Safety has always been a top priority for FLOTT. All FLOTT machines do meet the latest CE labor safety requirements.

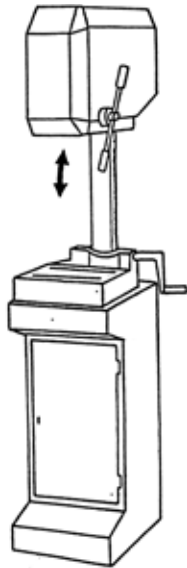
Do you have any more questions? The FLOTT team will be happy to advise you in accordance with your individual requirements!

Models



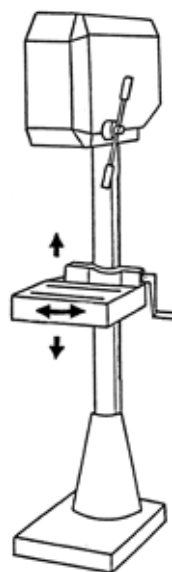
TB

Bench drill with work table



TBZ

TBZ bench drill without work table with toothed rack



SB

Column drill press with work table

Explanation of abbreviations

Flow drilling
Mechanical feed, with electromagnetic coupling
Programmable feed with electromagnetic feed coupling with electronic controls; digital multi-function display
Gear box driven drilling machines
Numeric controlled z-axis (feed/return)

FB
MV
PV electronic
GB
NC

FLOTT drilling technology highlights

**FLOTT provides a 3-year warranty
(Details see Page 135), extendable on request
to 4 or 5 years against surcharge**

- ▶ The manufacturing of the mechanical A-parts, as well as assembly by an experienced team at Flott, guarantees the highest levels of quality and reliability

The control panel with display

- ▶ Clear organized control panel with central knob
- ▶ OLED display (organic light-emitting diode)
Dustproof with sealing lip in a covered hood recess
- ▶ Easy to disassemble and maintain with 4 screws

The menu functions

- ▶ Clearly structured input menu that is easy to understand
- ▶ Select the mode of operation between drilling and thread cutting
- ▶ Set the speed using the central knob
- ▶ Precise display of the drill depth (target, actual), speed
- ▶ Counting function of the drilling stroke
- ▶ Intelligent memory function for the parameters
- ▶ Energy-saving mode
- ▶ Spindle stop

Additional panel with touchscreen operation

- ▶ Plus technology
- ▶ Programmable z-axis NC-Plus
- ▶ The 4,3" touchscreen display is a convenient operator-machine interface for programming the z-axis (feed/return).

It enables you to select between the following pre setted operating modes:

- ▶ Drilling
- ▶ Reaming/rolling
- ▶ Countersinking
- ▶ Flow drilling/Thermal drilling
- ▶ Thread cutting

Additional Mode for individual machine programming



Drilling machine — vice [felix]



Fig. above: Flott [felix] 100

Fig. below: Flott [felix] 100 with tensioning aid

jugend forscht

1st price Arbeitswelt 2018

Easy and safe drilling

Drilling machine device with integrated clamping mechanism

On different drilling machines, the work piece is clamped between the gripping jaws of a vice for the purpose of securing the work piece. For larger drilling tasks, it must also be secured mechanically or electromagnetically on a drilling table.

Felix Röwekämper analysed existing concepts and found them to be too laborious, time-consuming and expensive. His alternative was intended to be safe and easy to use and also make it possible to align the work piece easily and precisely.



For this purpose, the early-stage researcher developed a new type of vice with a fixing mechanism integrated on the lower side: A so-called clamping lever can be secured very firmly to the table using levering action and a screw, allowing it to be adjusted well.



FLÖTT [felix]

Standard equipment

- ▶ Large clamping range
- ▶ Prism jaws with an indentation, as well as horizontal and vertical recesses for a broad range of work pieces
- ▶ Optimum clamping aid guarantees a high level of clamping force, as well as safe and fast clamping of the work pieces (only [felix] 100/[felix] 125)
- ▶ Patented easy clamping via hexagon socket screw
- ▶ Full occupational safety
- ▶ Work piece can be positioned freely
- ▶ No turning of the workpieces
- ▶ No setup time, fast clamping
- ▶ Jaw, case-hardened, milled and burnished

Replacement jaw and special top jaws on request

Technical data

Flott [felix] 80

Gripping jaw width (mm)	80
Span width (mm)	0-81
Gripping jaw height (mm)	35
Order number	281.105

Flott [felix] 100

Gripping jaw width (mm)	100
Span width (mm)	0-101
Gripping jaw height (mm)	35
Order number	281.106
Order number with tensioning aid	281.108

Flott [felix] 125

Gripping jaw width (mm)	125
Span width (mm)	0-131
Gripping jaw height (mm)	40
Order number	281.107
Order number with tensioning aid	281.109

**Bench drill
in single-phase
design
TB 10 Eco ▶Plus**



Fig.: TB 10 Eco ▶Plus with special equipment

Standard equipment

- ▶ Robust, high-quality inclined rotary hood for easy reading and entry of the speed
- ▶ LED light
- ▶ Ergonomic and quickly adjustable depth end stop
- ▶ Continuous speed regulation via the central knob
- ▶ Emergency stop punch button button
- ▶ Thermal overload protection
- ▶ Under-voltage release
- ▶ Drill protection with micro switch
- ▶ Connecting cable with two-pin earthed plug (1.2 m)
- ▶ 3-year warranty for single-shift operation

Special equipment

- ▶ Height adjustment
via threaded spindle
Order number 290.302
- ▶ Warranty extension 4 years
Order number 290.018
- ▶ Warranty extension 5 years
Order number 290.019

Accessories

- ▶ Machine cabinet with
door and intermediate plate
Height: 800 mm
Weight: 20 kg
Order number 213.168
- ▶ Machine vice with
with prism jaws
Jaw width: 85 mm
Span width: 70 mm
Order number 281.205
- ▶ Twist drill set
DIN 338 HSSG
25-part, sanded,
Split point 135°,
Ø 1.0-13.0 x 0.5 mm
Order number 285.124
- ▶ Quick action drill chuck
(1-13 mm), B16
Rotational accuracy: 0.17 mm
Order number 285.133
- ▶ Quick action drill chuck
for right-hand/left hand rotation max. 8,000 1/min.
Clamping range 1-13 mm
Socket B16
Rotational accuracy: 0.06 mm
Order number 285.064

Technical data

Spindle	B16
Speed indicator	Digital
Drilling depth indicator	Scale
Drilling depth stop	Thrust ring that can be adjusted quickly
Feed	by hand

TB 10 Eco Plus

Steel Ø (mm)	12 (in E335/ST60)
Aluminium Ø (mm)	20
Soft wood Ø (mm)	40
Drilling depth (mm)	50
Distance column-spindle (mm)	180
Column diameter (mm)	50
Useable working surface (W x L) (mm)	300 x 200
T-slot size (arm), distance (mm), width measurement (mm)	Number 2, 100, 12/20
Machine dimensions without VP (mm)	400 x 248 x 460
Machine dimensions with VP (mm)	430 x 680 x 810
Drill head height adjustment	by hand
Weight (kg)	30
Spindle/foot (mm)	105-245
Motor AC 230 V (kW)	0.45
Spindle speed, stepless (1/min)	250-3,000
Order number	217.200
Additional accessories	from Page 64

Bench drill TB 10 Basic ▶ Plus



Fig.: TB 10 Basic ▶ Plus with special equipment

Standard equipment

- ▶ Robust, high-quality inclined rotary hood with LED Display and central knob for easy read out and entry of the speed
- ▶ LED light
- ▶ Ergonomic and quickly adjustable depth end stop
- ▶ Continuous speed regulation via the central knob
- ▶ Emergency stop punch button
- ▶ Thermal overload protection
- ▶ Under-voltage release
- ▶ Drill protection electronically guarded
- ▶ Connecting cable with two-pin earthed plug (1.2 m)
- ▶ 3-year warranty for single-shift operation

Special equipment

- ▶ Drill depth fixed end stop for best repetition accuracy
Order number 212.716
- ▶ Warranty extension 4 years
Order number 290.018
- ▶ Warranty extension 5 years
Order number 290.019

Accessories

- ▶ Machine cabinet with door and drawer
Height: 840 mm
Weight: 28 kg
Order number 250.208
- ▶ Quick action drill chuck (1-13 mm), B16
Rotational accuracy: 0.17 mm
Order number 285.133
- ▶ Quick action drill chuck for right-hand/left hand rotation max. 8,000 1/min.
Clamping range 1-13 mm
Socket B16
Rotational accuracy: 0.06 mm
Order number 285.064

Technical data

Spindle	B16
Drilling depth (mm)	60
Distance column-spindle (mm)	220
Column diameter (mm)	70
Useable table surface (W x L) (mm)	300 x 250
Machine dimensions without VP (mm)	320 x 520 x 820
Machine dimensions with VP (mm)	452 x 700 x 1,130
Distance spindle - working surface (mm)	140 - 315
Drill head height adjustment	by hand
T-slot size (arm), width measurement (mm)	Cross grooves, number 2, 14/26
Speed indicator	digital
Drilling depth stop	Thrust ring that can be adjusted quickly
Feed	by hand
Motor AC 230 V (kW)	0.45
Weight (kg)	44

TB 10 Basic Plus

Steel Ø (mm)	12 (in E335/ST60)
Aluminium Ø (mm)	20
Soft wood Ø (mm)	40
Spindle speed, stepless, electronically controlled (1/min)	250 - 3,000
Order number (with drill head height adjustment)	217.400
Order number (with work 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 special equipment

Standard equipment

- ▶ Thread cutting system
- ▶ Control panel with OLED display
- ▶ Robust, high-quality drill head hood with ergonomically inclined front plate
- ▶ LED light
- ▶ Ergonomic and quickly adjustable depth end stop
- ▶ Continuous speed regulation via the central knob
- ▶ Emergency stop punch button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Drill protection electronically guarded
- ▶ Connecting cable with two-pin earthed plug 1.5 m
- ▶ 3-year warranty for single-shift operation

Special equipment

- ▶ Table height adjustment via toothed rack table with T-slots (instead of head height adjustment)
Useable table surface (W x L): 300 x 250 mm
Order number 290.521
- ▶ Drill depth fixed end stop
for best repetition accuracy
Order number 212.716
- ▶ Warranty extension 4 years
Order number 290.018
- ▶ Warranty extension 5 years
Order number 290.019

Accessories

- ▶ Machine cabinet with door and drawer
Height: 840 mm
Weight: 28 kg
Order number 250.208
- ▶ Quick action drill chuck
(1-13 mm), B16
Rotational accuracy: 0.17 mm
Order number 285.133
- ▶ Quick action drill chuck
for right-hand/left hand rotation max. 8,000 1/min.
Clamping range 1-13 mm
Socket B16
Rotational accuracy: 0.06 mm
Order number 285.064
- ▶ Tap holder M4-M12 DIN 371
Span width: 1-10 mm
Socket: B16
Total length: 80 mm
Order number 285.109

Technical data

Spindle	B16
Drilling depth (mm)	60
Distance column-spindle (mm)	220
Column diameter (mm)	70
Useable table surface (W x L) (mm)	300 x 250
Machine dimensions without VP (mm)	320 x 520 x 820
Machine dimensions with VP (mm)	452 x 700 x 1,130
Distance spindle - working surface (mm)	140-315
Drill head height adjustment	by hand
T-slot size, width measurement (mm)	Cross grooves, number 2, 14/26
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	Thrust ring (positive-locking)
Feed	by hand
Motor three-phase current, frequency-regulated, mains connection 230 V (kW)	0.54
Weight (kg)	44

TB 10 Plus*

Drilling capacity / normal drilling performance (mm)	10/12 (in E335/ST60)
Thread cutting performance (depends on gradient) max.	M6
Spindle speed, stepless, electronically controlled (1/min)	60-6,000
Order number	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 kit 1

- ▶ 1 Vice [felix] 80 mm
- ▶ 1 quick-change drill chuck
1-13 mm (accuracy 0.17 mm)
Order number 296.570

Bench drill Turbo Drill



Standard equipment

- ▶ Thread cutting system
- ▶ Control panel with OLED display
- ▶ Robust, high-quality drill head hood with ergonomically designed front plate
- ▶ LED light
- ▶ Ergonomic and quickly adjustable depth end stop
- ▶ Continuous speed regulation via the central knob
- ▶ Emergency stop punch button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Drill protection with electronically guardening
- ▶ Connecting cable with two-pin earthed plug
- ▶ 3-year warranty for single-shift operation

Special equipment

- ▶ Table height adjustment via toothed rack table with T-slots (instead of head height adjustment)
Useable table surface (W x L): 300 x 250 mm
Order number 290.521
- ▶ Drill depth fixed end stop
for best repetition accuracy
Order number 212.716
- ▶ Warranty extension 4 years
Order number 290.018
- ▶ Warranty extension 5 years
Order number 290.019

Accessories

- ▶ Machine cabinet with door and drawer
Height: 840 mm
Weight: 28 kg
Order number 250.208
- ▶ Keyed drill chuck for Turbo Drill, B12
Clamping range 0.5-8 mm
Rotational accuracy: 0.20 mm
Order number 285.103
- ▶ Precision quick-change drill chuck for Turbo Drill, B12
Clamping range 0.5-6 mm
Rotational accuracy: 0.05 mm
Order number 285.104

Technical data

Spindle	B12
Drilling depth (mm)	60
Distance column-spindle (mm)	220
Column diameter (mm)	70
Useable table surface (W x L) (mm)	300 x 250
Machine dimensions without VP (mm)	320 x 520 x 820
Machine dimensions with VP (mm)	452 x 700 x 1,130
Distance spindle - working surface (mm)	140-315
Drill head height adjustment	by hand
T-slot size, width measurement (mm)	Cross grooves, number 2, 14/26
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	Thrust ring (positive-locking)
Feed	by hand
Motor three-phase current, frequency-regulated, mains connection 230 V (kW)	0.54
Weight (kg)	44

Turbo Drill*

Drilling capacity / normal drilling performance (mm)	6/8 (in E335/ST60)
Thread cutting performance (depends on gradient) max.	M5
Spindle speed, stepless, electronically controlled (1/min)	100-10,000
Order number	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 press

TB 13 ▶Plus

TBZ 13 ▶Plus

SB 13 ▶Plus



AVAILABLE
IMMEDIATELY! ▶ **to go**

Fig.: TB 13 ▶Plus with B16 and special equipment

Fig.: TB 13 ▶Plus with MK II to go!

Standard equipment

- ▶ Thread cutting system
- ▶ Control panel with OLED display
- ▶ Robust, high-quality drill head hood with ergonomically inclined front plate LED light
- ▶ Ergonomic easily adjustable depth end stop
- ▶ Continuous speed regulation via the central knob
- ▶ Emergency stop punch button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Drill protection electronically guarded
- ▶ Connecting cable with two-pin earthed plug
- ▶ 3-year warranty for single-shift operation

Special equipment

- ▶ Drill depth fixed end stop
for best repetition accuracy
Order number 212.716
- ▶ Warranty extension 4 years
Order number 290.018
- ▶ Warranty extension 5 years
Order number 290.019

Accessories

- ▶ Machine cabinet with door and drawer
(only for TB 13 Plus)
Height: 840 mm
Weight: 28 kg
Order number 250.208
- ▶ Machine cabinet with door for TB/TBZ
and intermediate plate
Height: 800 mm, Weight: 36 kg
Order number 212.860 (TB)
Order number 201.160 (TBZ)

Drill kit 1 (for B16)

- ▶ Vice [felix] 80
- ▶ Quick-change drill chuck B16
1-13 mm (accuracy 0.17 mm)
Order number 296.570

Drill kit 2 (for MK II)

- ▶ Vice [felix] 80
- ▶ Taper mandrel MK II/B16
- ▶ Reduction sleeve MK II/MK I
- ▶ Quick-change drill chuck B16
1-13 mm (accuracy 0.17 mm)
Order number 296.571

Technical data

Spindle	B16, optional MK II
Drilling depth (mm)	60
Thread cutting performance max. (depends on gradient)	max. M10
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	Thrust ring (positive-locking)
Feed	by hand
Table height adjustment	with toothed rack
Motor three-phase current, frequency-regulated, mains connection 230 V (kW)	0.54

TB 13 Plus*

Drilling capacity / normal drilling performance (mm)	13/15 (in E335/ST60)
Distance column-spindle (mm)	220
Column diameter (mm)	70
Useable table surface (W x L) (mm)	300 x 250
Distance spindle - work surface (mm)	
spindle nose - table	85-370
Spindle nose - table (below)	420
T-slot size (arm), distance (mm), width measurement (mm)	Number 2, 125, 14/26
T-slot size (foot), width measurement (mm)	Cross grooves, number 2, 14/26
Spindle speed, stepless, electronically controlled (1/min)	40-4,000
Machine dimension (mm)	
without VP	400 x 520 x 850
with VP	452 x 700 x 1,130
Weight (kg)	62
Order number B16	212.500
Order number MK II	212.503

TBZ 13 Plus*

Spindle nose - table (mm)	125-490
Distance column-spindle (mm)	214
Column diameter (mm)	82
Machine dimension (mm)	
with cabinet	370 x 495 x 1,800
with cabinet with VP	940 x 570 x 2,140
without cabinet	355 x 485 x 1,027
without cabinet with VP	940 x 570 x 1,600
Weight without cabinet (kg)	70
Order number B16	212.650
Order number MK II	212.655

SB 13 Plus*

Drilling capacity / normal drilling performance (mm)	13/15 (in E335/ST60)
Distance column-spindle (mm)	220
Column diameter (mm)	70
Useable table surface (W x L) (mm)	300 x 250
Distance spindle - working surface (mm)	max. 750
Centre offset (mm)	20
T-slot size, distance (mm), width measurement (mm)	Number 2, 125, 13/26
Spindle speed, stepless, electronically controlled (1/min)	40-4,000
Machine dimension (mm)	
without VP	420 x 540 x 1,780
with VP	572 x 936 x 2,142
Weight (kg)	85
Order number B16	212.502
Order number MK II	212.504

Additional accessories from Page 64

Bench drill and column drill press

TB 15 ▶ Plus

TBZ 15 ▶ Plus

SB 15 ▶ Plus



AVAILABLE
IMMEDIATELY! ▶ **to go**

Fig.: TB 15 ▶ Plus

Standard equipment

- ▶ Thread cutting system
- ▶ Control panel with OLED display
- ▶ Robust, high-quality drill head with ergonomically inclined front plate LED lighting
- ▶ Ergonomic easily adjustable depth end stop
- ▶ Continuous speed regulation via the central knob
- ▶ Emergency stop punch button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Drill protection electronically guarded
- ▶ Connecting cable with two-pin earthed plug
- ▶ 3-year warranty for single-shift operation

Special equipment

- ▶ Drill depth fixed end stop
for best repetition accuracy
Order number 212.716
- ▶ Warranty extension 4 years
Order number 290.018
- ▶ Warranty extension 5 years
Order number 290.019

Accessories

- ▶ Machine cabinet with door and drawer
(only for TB 13 Plus)
Height: 840 mm
Weight: 28 kg
Order number 250.208
- ▶ Machine cabinet with door for TB/TBZ
and intermediate plate
Height: 800 mm, Weight: 36 kg
Order number 212.860 (TB)
Order number 201.160 (TBZ)

Drill kit 2 (for MK II)

- ▶ Vice [felix] 80
- ▶ Taper mandrel MK II/B16
- ▶ Reduction sleeve MK II/MK I
- ▶ Quick-change drill chuck B16
1-13 mm (accuracy 0.17 mm)
Order number 296.571

Technical data

Spindle	MK II
Drilling depth (mm)	70
Thread cutting performance max. (depends on gradient)	M12
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	Thrust ring (positive-locking)
Feed	by hand
Table height adjustment	with toothed rack
Motor three-phase current, frequency-regulated, mains connection 230 V (kW)	0.75

TB 15 Plus*

Drilling capacity / normal drilling performance (mm)	15/18 (in E335/ST60)
Distance column-spindle (mm)	220
Column diameter (mm)	70
Useable table surface (W x L) (mm)	300 x 250
Distance spindle - work surface (mm)	
spindle nose - table	85-370
Spindle nose - table (below)	420
T-slot size (arm), distance (mm), width measurement (mm)	Number 2, 125, 14/26
T-slot size (foot), width measurement (mm)	Cross grooves, number 2, 14/26
Spindle speed, stepless, electronically controlled (1/min)	40-4,000
Machine dimension (mm)	
without VP	400 x 520 x 850
with VP	452 x 700 x 1,130
Weight (kg)	65
Order number	212.755

TBZ 15 Plus*

Spindle nose - table (mm)	125-490
Distance column-spindle (mm)	214
Column diameter (mm)	82
Machine dimension (mm)	
with cabinet	350 x 495 x 1,800
with cabinet with VP	940 x 570 x 2,140
without cabinet	320 x 485 x 1,027
without cabinet with VP	940 x 570 x 1,600
Weight without cabinet (kg)	73
Order number	212.765

SB 15 Plus*

Drilling capacity / normal drilling performance (mm)	15/18 (in E335/ST60)
Distance column-spindle (mm)	220
Column diameter (mm)	70
Useable table surface (W x L) (mm)	300 x 240
Distance spindle - working surface (mm)	max. 750
Centre offset (mm)	20
T-slot size, distance (mm), width measurement (mm)	Number 2, 125 14/26
Spindle speed, stepless, electronically controlled (1/min)	40-4,000
Machine dimension (mm)	
without VP	420 x 540 x 1,780
with VP	572 x 936 x 2,142
Weight (kg)	88
Order number	212.750

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 press

TB 18 ►Plus

TBZ 18 ►Plus

SB 18 ►Plus



Fig.: TB 18 ►Plus with special equipment



Fig.: SB 18 ►Plus

Standard equipment

- ▶ Thread cutting system
- ▶ Control panel with OLED display
- ▶ Robust, high-quality drill head hood with ergonomically inclined front plate
- ▶ LED light
- ▶ Ergonomic quickly adjustable depth end stop
- ▶ Continuous speed regulation via the central knob
- ▶ Emergency stop punch button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Drill protection electronically guarded
- ▶ Connecting cable with two-pin earthed plug
- ▶ 3-year warranty for single-shift operation

Special equipment

- ▶ Machined base plate incl. integrated coolant system (only SB models)
Filling quantity: max. 15 l
Output: max. 30 l/min
Order number 290.160A
- ▶ LED light with flexible arm
Order number 290.020
- ▶ Coolant system (separate container)
Filling quantity: max. 15 l
Output: max. 30 l/min
Order number 290.340
- ▶ Warranty extension 4 years
Order number 290.018
- ▶ Warranty extension 5 years
Order number 290.019

Accessories

- ▶ Machine cabinet with door for TB/TBZ
Height: 800 mm
Weight: 36 kg
Order number 201.160
- ▶ Foot operated switch
Function during drilling: Spindle ON and OFF
Function during thread cutting: Right-hand/left-hand rotation
Order number 225.029

Drill kit 3

- ▶ Vice [felix] 100
- ▶ Taper mandrel MK II/B18
- ▶ Reduction sleeve MK II/MK I
- ▶ Quick-change drill chuck B18
3-16 mm (accuracy 0.17 mm)
Order number 296.572

Technical data

Drilling capacity / normal drilling performance (mm)	18/20 (in E335/ST60)
Thread cutting performance max. (depends on gradient)	M12
Spindle	MK II
Drilling depth (mm)	100
Distance column-spindle (mm)	240
Column diameter (mm)	82
Useable table surface (W x L) (mm)	340 x 280
T-slot size (arm), distance (mm), width measurement (mm)	Number 2, 125, 13/26
Speed indicator	Digital
Drilling depth indicator	Digital
Drilling depth stop	Thrust ring that can be adjusted quickly
Feed	by hand
Table height adjustment	with toothed rack
Motor three-phase voltage 230 V with frequency converter (kW)	0.75
Spindle speed, stepless, electronically controlled (1/min)	30-3,000

TB 18 Plus*

Distance spindle - working surface (mm)	
Table	155-415
Base	155-550
Machine dimension without VP (mm)	355 x 705 x 1,065
Machine dimensions with VP (mm)	570 x 940 x 1,612
Weight (kg)	170
Order number	218.303

TBZ 18 Plus*

Distance spindle - working surface (mm)	
Base	155-550
Column diameter (mm)	82
Machine dimension (mm)	
with cabinet	370 x 705 x 1,845
with cabinet with VP	572 x 940 x 2,140
without cabinet	355 x 705 x 1,045
without cabinet with VP	570 x 940 x 1,600
Weight without cabinet (kg)	155
Order number	218.309

SB 18 Plus*

Spindle/table (mm)	160-880
Machine dimension without VP (mm)	355 x 705 x 1,825
Machine dimensions with VP (mm)	572 x 936 x 2,142
Weight (kg)	195
Order number	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 press

TB 20 ►Plus

TBZ 20 ►Plus

SB 20 ►Plus



Fig.: TB 20 ►Plus with special equipment



Fig.: SB 20 ►Plus

Standard equipment

- ▶ Thread cutting system
- ▶ Control panel with OLED display
- ▶ Robust, high-quality drill head with ergonomically inclined front plate
- ▶ LED light
- ▶ Ergonomic quickly adjustable depth end stop
- ▶ Continuous speed regulation via the central knob
- ▶ Emergency stop punch button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Drill protection electronically guarded
- ▶ Connecting cable with CEE plug
- ▶ 3-year warranty for single-shift operation

Special equipment

- ▶ Machined base plate incl. integrated coolant system (only SB models)
Filling quantity: max. 15 l
Output: max. 30 l/min
Order number 290.160A
- ▶ LED light with flexible arm
Order number 290.020
- ▶ Coolant system (separate container)
Filling quantity: max. 15 l
Output: max. 30 l/min
Order number 290.340
- ▶ Foot operated switch
Function during drilling: Spindle ON and OFF
Function during thread cutting: Right-hand/left-hand rotation
Order number 225.029
- ▶ Warranty extension 4 years
Order number 290.018
- ▶ Warranty extension 5 years
Order number 290.019

Accessories

- ▶ Machine cabinet with door for TB/TBZ
Height: 800 mm
Weight: 36 kg
Order number 201.160

Drill kit 3

- ▶ Vice [felix] 100
- ▶ Taper mandrel MK II/B18
- ▶ Reduction sleeve MK II/MK I
- ▶ Quick-change drill chuck B18
3-16 mm (accuracy 0.17 mm)
Order number 296.572

Technical data

Drilling capacity / normal drilling performance (mm)	20/23 (in E335/ST60)
Thread cutting performance max. (depends on gradient)	M14
Spindle	MK II
Drilling depth (mm)	100
Distance column-spindle (mm)	240
Column diameter (mm)	82
Useable table surface (W x L) (mm)	340 x 280
T-slot size (arm), distance (mm), width measurement (mm)	Number 2, 125, 13/26
Speed indicator	Digital
Drilling depth indicator	Digital
Drilling depth stop	Thrust ring that can be adjusted quickly
Feed	by hand
Table height adjustment	with toothed rack
Motor three-phase voltage 400 V with frequency converter (kW)	1.5
Spindle speed, stepless, electronically controlled (1/min)	40-4,000

TB 20 Plus*

Distance spindle - working surface (mm)	
Table	155-415
Base	155-550
Machine dimension without VP (mm)	355 x 705 x 1,065
Machine dimensions with VP (mm)	570 x 940 x 1,612
Weight (kg)	170
Order number	220.105

TBZ 20 Plus*

Distance spindle - working surface (mm)	
Base	155-550
Column diameter (mm)	82
Machine dimension (mm) with cabinet	370 x 705 x 1,845
with cabinet with VP	572 x 940 x 2,140
without cabinet	355 x 705 x 1,045
without cabinet with VP	570 x 940 x 1,600
Weight without cabinet (kg)	155
Order number	220.110

SB 20 Plus*

Spindle/table (mm)	160-880
Machine dimension without VP (mm)	355 x 705 x 1,825
Machine dimensions with VP (mm)	572 x 936 x 2,142
Weight (kg)	195
Order number	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 press

TB 23 ▶ Plus

TBZ 23 ▶ Plus

SB 23 ▶ Plus



AVAILABLE
IMMEDIATELY! ▶ **to go**

Fig.: TBZ 23 ▶ Plus with special equipment

Fig.: SB 23 ▶ Plus with special equipment

Standard equipment

- ▶ Main switch
- ▶ Thread cutting system
- ▶ Control panel with OLED display
- ▶ Robust, high-quality drill head with ergonomically inclined front plate
- ▶ LED light
- ▶ Ergonomic easily adjustable depth end stop
- ▶ Continuous speed regulation via the central knob
- ▶ Emergency stop punch button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Drill protection electronically guarded
- ▶ Connecting cable with CEE plug
- ▶ 3-year warranty for single-shift operation

Special equipment

- ▶ Machined base plate incl. integrated coolant system (only SB models)
Filling quantity: max. 15 l
Output: max. 30 l/min
Order number 290.160A
- ▶ LED light with flexible arm
Order number 290.020
- ▶ Coolant system (separate container)
Filling quantity: max. 15 l
Output: max. 30 l/min
Order number 290.340
- ▶ Foot operated switch
Function during drilling: Spindle ON and OFF
Function during thread cutting: Right-hand/left-hand rotation
Order number 225.029
- ▶ Warranty extension 4 years
Order number 290.018
- ▶ Warranty extension 5 years
Order number 290.019

Accessories

- ▶ Machine cabinet with door for TB/TBZ
Height: 800 mm, Weight: 36 kg
Order number 205.160

Drill kit 3

- ▶ Vice [felix] 100
- ▶ Taper mandrel MK II/B18
- ▶ Reduction sleeve MK II/MK I
- ▶ Quick-change drill chuck B18
3-16 mm (accuracy 0.17 mm)
Order number 296.572

Technical data

Drilling capacity / normal drilling performance (mm)	
R1	23/25 (in E335/ST60)
R2	20/23 (in E335/ST60)
Thread cutting performance max. (depends on gradient)	
R1	M16x1
R2	M12
Spindle	MK II
Drilling depth (mm)	100
Distance column-spindle (mm)	260
Column diameter (mm)	110
Useable table surface (W x L) (mm)	420 x 340
T-slot size (arm), distance (mm), width measurement (mm)	Number 2, 125, 13/26
Speed indicator	Digital
Drilling depth indicator	Digital
Drilling depth stop	Thrust ring that can be adjusted quickly
Feed	by hand
Table height adjustment	with toothed rack
Motor three-phase voltage 400 V with frequency converter (kW)	1.5
Spindle speed, stepless (1/min)	
R1 with transmission	20-2,000
R2	30-3,000

TB 23 Plus*

Distance spindle - working surface (mm)	
Table	230-590
Base	230-670
Machine dimension without VP (mm)	430 x 715 x 1,250
Machine dimensions with VP (mm)	570 x 940 x 1,600
Weight (kg)	250
Order number R1	223.021
Order number R2	223.026

TBZ 23 Plus*

Distance spindle - working surface (mm)	
Base	230-730
Machine dimension (mm)	
with cabinet	430 x 715 x 2,050
with cabinet with VP	637 x 1,096 x 2,120
without cabinet	430 x 715 x 1,250
without cabinet with VP	570 x 940 x 1,600
Weight without cabinet (kg)	235
Order number R1	223.022
Order number R2	223.027

SB 23 Plus*

Spindle/table	230-850
Machine dimension without VP (mm)	430 x 715 x 1,800
Machine dimensions with VP (mm)	670 x 1,100 x 2,140
Weight (kg)	290
Order number R1	223.020
Order number R2	223.025

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 press

TB 25 ▶ Plus

TBZ 25 ▶ Plus

SB 25 ▶ Plus



Fig.: TBZ 25 ▶ Plus with special equipment



Fig.: SB 25 ▶ Plus with special equipment

Standard equipment

- ▶ Main switch
- ▶ Thread cutting system
- ▶ Control panel with OLED display
- ▶ Robust, high-quality drill head with ergonomically inclined front plate
- ▶ LED light
- ▶ Ergonomic and quickly adjustable depth end stop
- ▶ Continuous speed regulation via the central knob
- ▶ Emergency stop punch button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Drill protection electronically guarded
- ▶ Connecting cable with CEE plug
- ▶ 3-year warranty for single-shift operation

Special equipment

- ▶ Machined base plate incl. integrated coolant system (only SB models)
Filling quantity: max. 15 l
Output: max. 30 l/min
Order number 290.160A
- ▶ LED light with flexible arm
Order number 290.020
- ▶ Coolant system (separate container)
Filling quantity: max. 15 l
Output: max. 30 l/min
Order number 290.340
- ▶ Foot operated switch
Function during drilling: Spindle ON and OFF
Function during thread cutting: Right-hand/left-hand rotation
Order number 225.029
- ▶ Warranty extension 4 years
Order number 290.018
- ▶ Warranty extension 5 years
Order number 290.019

Accessories

- ▶ Machine cabinet with door for TB/TBZ
Height: 800 mm, Weight: 36 kg
Order number 205.160

Drill kit 4

- ▶ Vice [felix] 125
- ▶ Taper mandrel MK III/B18
- ▶ Reduction sleeve MK III/MK I
- ▶ Reduction sleeve MK III/MK II
- ▶ Quick-change drill chuck B18
3-16 mm (accuracy 0.17 mm)
Order number 296.573

Technical data

Drilling capacity/normal drilling performance (mm)	
R1	23/25 (in E335/ST60)
Thread cutting performance max. (depends on gradient) R1	M16x1
Spindle	MK III
Drilling depth (mm)	115
Distance column-spindle (mm)	260
Column diameter (mm)	110
Useable table surface (W x L) (mm)	420 x 340
T-slot size (arm), distance (mm), width measurement (mm)	Number 2, 125, 13/26
Speed indicator	Digital
Drilling depth indicator	Digital
Drilling depth stop	Thrust ring that can be adjusted quickly
Feed	by hand
Table height adjustment	with toothed rack
Motor three-phase voltage 400 V with frequency converter (kW)	1.5
Spindle speed, stepless, electronically controlled (1/min) R1 with transmission	20-2,000

TB 25 Plus*

Distance spindle - working surface (mm)	
Table	230-590
Base	230-670
Machine dimension without VP (mm)	430 x 715 x 1,250
Machine dimensions with VP (mm)	570 x 940 x 1,600
Weight (kg)	250
Order number R1	225.011

TBZ 25 Plus*

Distance spindle - working surface (mm)	
Base	230-730
Machine dimension (mm)	
with cabinet	430 x 715 x 2,050
with cabinet with VP	637 x 1,096 x 2,120
without cabinet	430 x 715 x 1,250
without cabinet with VP	570 x 940 x 1,600
Weight without cabinet (kg)	235
Order number R1	225.012

SB 25 Plus*

Spindle/table	230-850
Machine dimension without VP (mm)	430 x 715 x 1,800
Machine dimensions with VP (mm)	670 x 1,100 x 2,140
Weight (kg)	290
Order number R1	225.010

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.

Column drill press

SB 30 ►Plus

SB 30 MV ►Plus



Fig.: SB 30 ►Plus with special equipment



Fig.: SB 30 MV ►Plus with special equipment

Standard equipment

- ▶ Main switch
- ▶ Thread cutting system
- ▶ Control panel with OLED display
- ▶ Robust, high-quality drill head with ergonomically inclined front plate
- ▶ LED light
- ▶ Ergonomic and quickly adjustable depth end stop
- ▶ Continuous speed regulation via the central knob
- ▶ Emergency stop punch button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Drill protection electronically guarded
- ▶ Connecting cable with CEE plug
- ▶ 3-year warranty for single-shift operation
- ▶ Mechanical feed for z-axis
incl. electromagnetic coupling
for (3) feed speeds (only SB 30 MV Plus)
- ▶ 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

- ▶ Multi-functional working table with vice
and square table, can be rotated 360° with scale
Jaw width 120 mm, span width 105 mm
Table surface 350 x 350 mm
Order number 290.135
- ▶ Machined base plate
Order number 290.378
- ▶ Machined base plate incl.
integrated coolant system
Filling quantity: max. 15 l
Output: max. 30 l/min
Order number 290.160C
- ▶ Coolant system (separate container)
Filling quantity: max. 30 l
Output: max. 30 l/min
Order number 290.340
- ▶ Foot operated switch
Function during drilling: Spindle ON and OFF
(for MV feed ON and OFF)
Function during thread cutting: Right-hand/left-hand
rotation
Order number 231.000
- ▶ Warranty extension 4 years
Order number 290.018
- ▶ Warranty extension 5 years
Order number 290.019
- ▶ Commissioning the machine and briefing
the operating staff
Order number 229.931

Technical data

Drilling capacity/normal drilling performance (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 performance max. (depends on gradient)	
R1	M24x3
R2	M20x2.5
R3	M30x3.5
Spindle	MK III
Drilling depth (mm)	125
Distance column-spindle (mm)	300
Column diameter (mm)	125
Useable 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 dimension without VP (mm)	610 x 900 x 1,980
Machine dimensions with VP (mm)	670 x 1,100 x 2,140
Motor three-phase voltage 400 V with frequency converter (kW)	3.0
Spindle speed, stepless, electronically controlled (1/min)	0-1,000
R1 (1-stage)	0-1,600
R2 (1-stage)	0-4,000
R3 (2-stage with transmission)	

SB 30 Plus

Feed	by hand
Weight (kg)	370
Order number R1	230.500
Order number R2	230.501
Order number R3	230.502

SB 30 MV Plus

Feed (mm/rotation)	0.10/0.16/0.25
Weight (kg)	385
Order number R1	230.505
Order number R2	230.506
Order number 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 kit 5

- ▶ Vice [felix] 125
- ▶ Taper mandrel MK III/B18
- ▶ Reduction sleeve MK III/MK I
- ▶ Reduction sleeve MK III/MK II
- ▶ Quick-change drill chuck B18
3-16 mm (accuracy 0.17 mm)
Order number 296.574

Column drill press SB 30 NC ►Plus



Fig.: SB 30 NC ►Plus with special equipment

Standard equipment

- ▶ Electronically controlled thread cutting system
- ▶ Control panel with OLED display
- ▶ Robust, high-quality drill head with ergonomically inclined front plate
- ▶ LED light
- ▶ Ergonomic and quickly adjustable depth end stop
- ▶ Continuous speed regulation via the central knob
- ▶ Emergency stop punch button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Spindle guard electronically controlled
- ▶ Connecting cable with CEE plug
- ▶ 3-year warranty for single-shift operation
- ▶ Switch lever for manual/automatic mode
- ▶ Clear control panel with central metal knob
- ▶ Easy-to-understand input menu
- ▶ Select the mode of operation between drilling and thread cutting
- ▶ Counting function of the drilling stroke
- ▶ Additional panel for automatic mode (activation by moving switch lever to automatic)
- ▶ 4.3" touchscreen display
- ▶ Convenient operator/machine interface for programming the spindle sleeve feed
- ▶ Selection of operating mode between: Drilling, grating, countersinking, flow drilling, thread cutting
- ▶ Free-programming function
- ▶ Choose the machine settings

Special equipment

- ▶ Multi functional working table, can be rotated 360° with scale
Jaw width 120 mm, span width 105 mm
Table surface 350 x 350 mm
Order number 290.135
- ▶ Machined base plate
Order number 290.378
- ▶ Machined base plate incl. integrated coolant system
Filling quantity: max. 15 l
Output: max. 30 l/min
Order number 290.160C
- ▶ Coolant system (separate container)
Filling quantity: max. 30 l
Output: max. 30 l/min
Order number 290.340
- ▶ Foot operated switch
Function during drilling: Spindle ON and OFF
Function during thread cutting: Right-hand/left-hand rotation
For AUTO: Programme start/stop
Order number 231.000

Technical data

Drilling capacity/normal drilling performance (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 performance max. (depends on gradient)	
R1	M24x3
R2	M20x2.5
R3	M30x3.5
Spindle	MK III
Drilling depth (mm)	125
Distance column-spindle (mm)	300
Column diameter (mm)	125
Useable 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 dimension without VP (mm)	610 x 900 x 1,980
Machine dimensions with VP (mm)	670 x 1,100 x 2,200
Motor three-phase current 400 V with frequency converter (kW)	3.0
Spindle speed, stepless, electronically controlled (1/min)	
R1 (1-stage)	0-1,000
R2 (1-stage)	0-1,600
R3 (2-stage with transmission)	0-4,000

SB 30 NC Plus

Feed/return stroke, infinitely variable (m/min)	0 - 1.5
Weight (kg)	400
Order number R1	230.510
Order number R2	230.511
Order number R3	230.512
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.

- ▶ Warranty extension 4 years
Order number 290.018
- ▶ Warranty extension 5 years
Order number 290.019
- ▶ Commissioning the machine and briefing the operating staff
Order number 229.931

Accessories

Drill kit 5

- ▶ Vice [felix] 125
- ▶ Taper mandrel MK III/B18
- ▶ Reduction sleeve MK III/MK I
- ▶ Reduction sleeve MK III/MK II
- ▶ Quick-change drill chuck B18 3-16 mm (accuracy 0.17 mm)
Order number 296.574

Column drill
press
SB P30 STG PV
electronic ►Plus



Fig.: SB P30 STG PV electronic
with machined base plate

Standard equipment

- ▶ Drill depth adjustment with fine tuning and under-voltage release
- ▶ Emergency stop punch button
- ▶ Continuous speed control
- ▶ Table height adjustment via toothed rack
- ▶ Connecting cable (1.5 m) with CEE plug
- ▶ Spindle guard with micro switch
- ▶ Thermal overload protection
- ▶ 3-year warranty for single-shift operation
- ▶ Digital display for drill depth, speed and feed rate display
- ▶ Feed is electronically regulated and continuously variable incl. spindle monitoring
- ▶ Clean cutting system
- ▶ Thread cutting system, thread cutting performance max. M20, thread cutting depth is set using the digital depth display
- ▶ Drill depth deactivation; programmable; easy operation
- ▶ Drill handle with push-button for turning the feed on/off
- ▶ Optional transparent protective hood at no extra charge
- ▶ LED light by standard

Special equipment

- ▶ Motor with additional ventilation
Order number 290.617
- ▶ Multi functional working table, can be rotated 360° with scale
Jaw width 120 mm, span width 105 mm
Table surface 350 x 350 mm
Order number 290.125
- ▶ Machined base plate
Order number 290.378
- ▶ Machined base plate with integrated coolant system
Filling quantity: max. 15 l
Output: max. 30 l/min
Order number 290.160B
- ▶ LED light with flexible arm
Order number 290.020
- ▶ Coolant system (separate container)
Filling quantity: max. 15 l, Output: max. 30 l/min
Order number 290.340

Software options available for PV machines only

- ▶ Safety module – automatic spindle stop for drill spindle at the top
Order number 290.613
- ▶ Chip breaking module – prevents the formation of long chips
Order number 290.612

Our classics

Technical data

Drilling capacity / normal drilling performance (mm)	25/30 (in E335/ST60)
Thread cutting performance max. (depends on gradient)	M20
Spindle	MK III
Drilling depth (mm)	125 mm
Distance column-spindle (mm)	280 mm
Column diameter (mm)	110 mm
Useable table surface (W x L) (mm)	420 x 340 mm
T-slot size (arm), distance (mm), width measurement (mm)	Number 2, 160, 13/26
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	With fine tuning
Table height adjustment	with toothed rack
Motor three-phase current, 400 V, pole-changeable (kW)	0.90 / 1.45
Spindle speed, stepless (1/min) with transmission (2 stages)	125-4,000
Stage I	125-2,000
Stage II	250-4,000
The stage change takes place via the belt turning	

SB P30 STG PV electronic

Feed, continuously variable (mm/min) incl. electromagnetic coupling; digital display	0-300
Spindle/table (mm)	240-790
Machine dimension without VP (mm)	520 x 820 x 1,900
Machine dimensions with VP (mm)	670 x 1,100 x 2,200
Weight (kg)	320
Order number transparent hood	205.220
Order number grey hood	205.183
Additional accessories	from Page 64

- ▶ Span action – 4 freely selectable feed speeds per working stroke
Order number 290.614

Accessories

Drill kit 5

- ▶ Vice [felix] 125
- ▶ Taper mandrel MK III/B18
- ▶ Reduction sleeve MK III/MK I
- ▶ Reduction sleeve MK III/MK II
- ▶ Quick-change drill chuck B18 3-16 mm (accuracy 0.17 mm)
Order number 296.574

Column drill press

SB 40 ►Plus

SB 40 MV ►Plus



Fig.: SB 40 ►Plus with special equipment

Fig.: SB 40 MV ►Plus with special equipment

Standard equipment

- ▶ Thread cutting system
- ▶ Control panel with OLED display
- ▶ Robust, high-quality hood with front that is tilted ergonomically
- ▶ LED light
- ▶ Ergonomic and quickly adjustable depth end stop
- ▶ Continuous speed regulation via the central knob
- ▶ Emergency stop punch button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Spindle guard with electronic control
- ▶ Connecting cable with CEE plug
- ▶ 3-year warranty for single-shift operation
- ▶ Mechanical feed for z-axis incl. electromagnetic coupling for (3) feed speeds (only 40 MV Plus)
- ▶ Drill handle with push-button (on/off) for feed (only 40 MV Plus)
- ▶ In thread cutting mode: Right-left ventilation via drill handle button (only SB 40 MV Plus)

Special equipment

- ▶ Machined base plate
Order number 290.378
- ▶ Multifunction working table with vice table, can be rotated 360° with scale, jaw width 120 mm, span width 105 mm, differing column diameter 125 mm
Table surface 350 x 350 mm
Order number 290.135
- ▶ Machined base plate incl. integrated coolant system
Filling quantity: max. 15 l
Output: max. 30 l/min
Order number 290.160C
- ▶ Coolant system (separate container)
Filling quantity: max. 30 l
Output: max. 30 l/min
Order number 290.340
- ▶ Foot operated switch
Function during drilling: Spindle ON and OFF (for MV feed ON and OFF)
Function during thread cutting: Right-hand/left-hand rotation
Order number 231.000
- ▶ Warranty extension 4 years
Order number 290.018
- ▶ Warranty extension 5 years
Order number 290.019
- ▶ Commissioning the machine and briefing the operating staff
Order number 229.931

Technical data

Drilling capacity/normal drilling performance (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 performance max. (depends on gradient)	
R1	M30x3.5
R2	M24x3
R3	M36x4
Spindle	MK IV
Drilling depth (mm)	160
Distance column-spindle (mm)	300
Column diameter (mm)	140
Useable 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 dimension without VP (mm)	610 x 900 x 1,980
Machine dimensions with VP (mm)	670 x 1,100 x 2,200
Motor three-phase current 400 V with frequency converter (kW)	4.0
Spindle speed, stepless (1/min)	
R1 (1-stage)	0-1,000
R2 (1-stage)	0-1,600
R3 (2-stage with transmission)	0-4,000

SB 40 Plus

Feed	by hand
Weight (kg)	400
Order number R1	230.530
Order number R2	230.531
Order number R3	230.532

SB 40 MV Plus

Feed (mm/rotation)	0.10/0.16/0.25
Weight (kg)	420
Order number R1	230.535
Order number R2	230.536
Order number 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 kit 6

- ▶ Vice [felix] 125
- ▶ Taper mandrel MK IV/B18
- ▶ Reduction sleeve MK IV/MK III
- ▶ Reduction sleeve MK IV/MK II
- ▶ Quick-change drill chuck B18 3-16 mm (accuracy 0.17 mm)
Order number 296.575

Column drill press SB 40 NC ►Plus



Fig.: SB 40 NC ►Plus with special equipment

Standard equipment

- ▶ Electronically controlled thread cutting system
- ▶ Control panel with OLED display
- ▶ Robust, high-quality hood with front that is tilted ergonomically
- ▶ LED light
- ▶ Ergonomic and quickly adjustable depth end stop
- ▶ Continuous speed regulation via the central knob
- ▶ Emergency stop punch button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Drill protection with micro switch
- ▶ Connecting cable with CEE plug
- ▶ 3-year warranty for single-shift operation
- ▶ Switch lever for manual/automatic mode
- ▶ Clear control panel with central metal knob
- ▶ Select the mode of operation between drilling and thread cutting
- ▶ Counting function of the drilling stroke
- ▶ Additional panel for automatic mode (activation by moving switch lever to automatic)
- ▶ 4.3" touchscreen display
- ▶ Convenient operator/machine interface for programming the spindle sleeve feed
- ▶ Selection of operating mode between: Drilling, grating, countersinking, flow drilling, thread cutting
- ▶ Free-programming function
- ▶ Choose the machine settings

Special equipment

- ▶ Machined base plate
Order number 290.378
- ▶ Multi functional working table with vice table, can be rotated 360° with scale, jaw width 120 mm, span width 105 mm, differing column diameter 125 mm
Table surface 350 x 350 mm
Order number 290.135
- ▶ Machined base plate with integrated coolant system
Filling quantity: max. 15 l
Output: max. 30 l/min
Order number 290.160C
- ▶ Coolant system (separate container)
Filling quantity: max. 30 l
Output: max. 30 l/min
Order number 290.340
- ▶ Foot operated switch
Function during drilling: Spindle ON and OFF
Function during thread cutting: Right-hand/left-hand rotation
For AUTO: Programme start/stop
Order number 231.000
- ▶ Warranty extension 4 years
Order number 290.018

Technical data

Drilling capacity/normal drilling performance (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 performance max. (depends on gradient)	
R1	M30x3.5
R2	M24x3
R3	M36x4
Spindle	MK IV
Drilling depth (mm)	160
Distance column-spindle (mm)	300
Column diameter (mm)	140
Useable table surface (W x L) (mm)	590 x 450
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth end stop	With fine tuning
Table height adjustment	with toothed rack
Spindle/table (mm)	150-700
Machine dimension without VP (mm)	610 x 900 x 1,980
Machine dimensions with VP (mm)	670 x 1,100 x 2,200
Motor three-phase current 400 V with frequency converter (kW)	4.0
Spindle speed, stepless (1/min)	
R1 (1-stage)	0-1,000
R2 (1-stage)	0-1,600
R3 (2-stage with transmission)	0-4,000

SB 40 NC Plus

Feed/return stroke, infinitely variable (m/min)	0 - 1.5
Weight (kg)	440 kg
Order number R1	230.540
Order number R2	230.541
Order number 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.

- ▶ Warranty extension 5 years
Order number 290.019
- ▶ Commissioning the machine and briefing the operating staff
Order number 229.931

Accessories

Drill kit 6

- ▶ Vice [felix] 125
- ▶ Taper mandrel MK IV/B18
- ▶ Reduction sleeve MK IV/MK III
- ▶ Reduction sleeve MK IV/MK II
- ▶ Quick-change drill chuck B18 3-16 mm (accuracy 0.17 mm)
Order number 296.575

Column drill
press
SB P40 STG PV
electronic ►Plus



Fig.: SB P40 STG PV electronic with special equipment

Standard equipment

- ▶ Drill depth adjustment with fine tuning and under-voltage release
- ▶ Emergency stop punch button
- ▶ Continuous speed control
- ▶ Connecting cable (1.5 m) with CEE plug
- ▶ Drill protection with micro switch
- ▶ Thermal overload protection
- ▶ 3-year warranty for single-shift operation
- ▶ Digital display for drill depth, speed and feed rate display
- ▶ Feed is electronically regulated and continuously variable incl. spindle monitoring
- ▶ Clean cutting system
- ▶ Thread cutting system, thread cutting performance max. M30, thread cutting depth is set using the digital depth display
- ▶ Drill depth deactivation; programmable; easy operation
- ▶ Drill handle with push-button for turning the feed on/off
- ▶ LED light as standard

Special equipment

- ▶ Motor with additional ventilation
Order number 290.619
- ▶ Multifunctional working table with vice, can be rotated 360° with scale jaw width 120 mm, span width 105 mm Table surface 350 x 350 mm
Order number 290.135
- ▶ Machined base plate
Order number 290.378
- ▶ Machined base plate incl. integrated coolant system Filling quantity: max. 15 l Output: max. 30 l/min
Order number 290.160C
- ▶ LED light with flexible arm
Order number 290.020
- ▶ Coolant system (separate container) Filling quantity: max. 15 l, Output: max. 30 l/min
Order number 290.340

Software options available for PV electronic machines only

- ▶ Safety module – automatic spindle stop for drill spindle at the top
Order number 290.613
- ▶ Chip breaking module – prevents the formation of long chips
Order number 290.612
- ▶ Span action – 4 freely selectable feed speeds per working stroke
Order number 290.614

Our classics

Technical data

Drilling capacity / normal drilling performance (mm)	35/40 (in E335/ST60)
Thread cutting performance max. (depends on gradient)	M30
Spindle	MK IV
Drilling depth (mm)	160
Distance column-spindle (mm)	300
Column diameter (mm)	125
Useable table surface (W x L) (mm)	590 x 450
T-slot size (arm), distance (mm), width measurement (mm)	Number 2, 160, 14/26
Speed indicator	digital
Drilling depth indicator	digital
Drilling depth stop	With fine tuning
Table height adjustment	with toothed rack
Machine dimension without VP (mm)	610 x 850 x 1,920
Machine dimensions with VP (mm)	637 x 1,096 x 2,120
Motor three-phase current, 400 V, pole-changeable (kW)	1.5 / 3.0
Spindle speed, stepless (1/min) with transmission	
Series of speeds R1	100-2,000
Series of speeds R2	70-1,400

SB P40 STG PV electronic

Feed, continuously variable (mm/min) incl. electromagnetic coupling; digital display	0-300
Spindle/table (mm)	150-700
Weight (kg)	440
Order number transparent hood, R1	205.226
Order number transparent hood, R2	205.227
Order number grey hood, R1	205.208
Order number grey hood, R2	205.209

Additional accessories from Page 64

Accessories

Drill kit 6

- ▶ Vice [felix] 125
- ▶ Taper mandrel MK IV/B18
- ▶ Reduction sleeve MK IV/MK III
- ▶ Reduction sleeve MK IV/MK II
- ▶ Quick-change drill chuck B18 3-16 mm (accuracy 0.17 mm)
Order number 296.575

Flow drilling machine SB 20 FB ►Plus



Fig.: SB 20 FB ►Plus

Standard equipment

- ▶ Thread cutting system
- ▶ Control panel with OLED display
- ▶ Robust, high-quality drill head hood with front that is tilted ergonomically
- ▶ LED light
- ▶ Ergonomic drill depth stop that can be adjusted quickly
- ▶ Continuous speed regulation via the central knob
- ▶ Emergency stop button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Drill protection with micro switch
- ▶ Connecting cable with CEE plug
- ▶ 3-year warranty for single-shift operation

Flow drilling

Serves to produce extrusions in thin-walled metallic materials.

The flow drilling procedure creates a socket 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 resilient connections.

The advantages of flow drilling are

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

Accessories

- ▶ Vice [felix] 100
Order number 281.106

Technical data

Flow drilling at 3 mm sheet thickness (mm)	8
Spindle	MK II
Drilling depth (mm)	100
Distance column-spindle (mm)	240
Column diameter (mm)	82
Useable table surface (W x L) (mm)	340 x 280
T-slot size (arm), distance (mm), width measurement (mm)	Number 2, 125, 13/26
Speed indicator	Digital
Drilling depth indicator	Digital
Drilling depth stop	Thrust ring that can be adjusted quickly
Feed	by hand
Table height adjustment	with toothed rack
Motor three-phase current 400 V with frequency converter (kW)	1.5
Spindle speed, stepless (1/min)	40-4,000

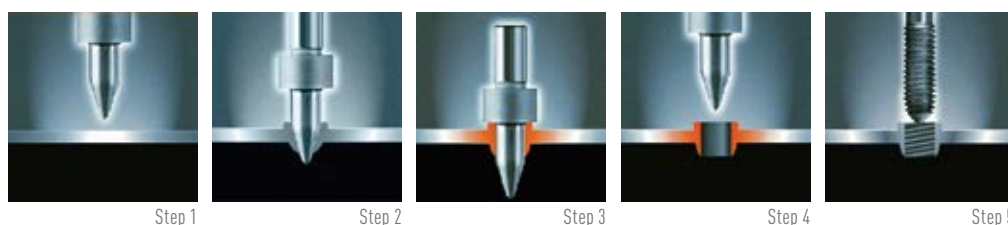
SB 20 FB Plus

Spindle/table (mm)	160-880
Machine dimension without VP (mm)	355 x 705 x 1,825
Machine dimensions with VP (mm)	572 x 936 x 2,142
Weight (kg)	195

Order number 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.



Flow drilling machine

SB 30 FB ►Plus

SB 30 FB NC ►Plus



Fig.: SB 30 FB ►Plus



Fig.: SB 30 FB NC ►Plus

Standard equipment

- ▶ Main switch
- ▶ Thread cutting system
- ▶ Control panel with OLED display
- ▶ Robust, high-quality drill head with ergonomically inclined front plate
- ▶ LED light
- ▶ Ergonomic easily adjustable depth end stop
- ▶ Continuous speed regulation via the central knob
- ▶ Emergency stop punch button
- ▶ Thermal overload protection
- ▶ Spindle stop
- ▶ Drill protection with micro switch
- ▶ Connecting cable with CEE plug
- ▶ 3-year warranty for single-shift operation
- ▶ Switch lever for manual/automatic mode (only to SB 30 FB NC Plus)
- ▶ Additional panel for automatic mode (activation by moving switch lever to automatic) (only to SB 30 FB NC Plus)
- ▶ 4.3" touchscreen display (only to SB 30 FB NC Plus)
- ▶ Convenient operator/machine interface for programming the spindle sleeve feed (only to SB 30 FB NC Plus)
- ▶ Selection of operating mode between: Drilling, grating, countersinking, flow drilling, thread cutting (only to SB 30 FB NC PLUS)
- ▶ Free programming function (only to SB 30 FB NC PLUS)
- ▶ Choose the machine settings (only to SB 30 FB NC PLUS)

Special equipment

- ▶ Multifunctional working table with vice, can be rotated 360° with scale
jaw width 120 mm, span width 105 mm
Table surface 350 x 350 mm
Order number 290.135
- ▶ Machined base plate
Order number 290.378
- ▶ Machined base plate incl. integrated coolant system
Filling quantity: max. 15 l
Output: max. 30 l/min
Order number 290.160C
- ▶ Coolant system (separate container)
Filling quantity: max. 15 l, Output: max. 30 l/min
Order number 290.340

Technical data

Flow drilling at 3 mm sheet thickness (mm)	18
Spindle	MK III
Drilling depth (mm)	125
Distance column-spindle (mm)	300
Column diameter (mm)	125
Useable 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 dimension without VP (mm)	610 x 900 x 1,980
Machine dimensions with VP (mm)	637 x 1,096 x 2,200
Motor three-phase current 400 V with frequency converter (kW)	3

SB 30 FB Plus

Spindle speed, stepless (1/min)	0-4,000
Weight (kg)	370
Order number	230.503

SB 30 FB NC Plus

Spindle speed, stepless (1/min)	0-4,000
Feed, infinitely variable (m/min)	0 - 1.5
Weight (kg)	400
Order number	230.513

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.

- ▶ Warranty extension 4 years
Order number 290.018
- ▶ Warranty extension 5 years
Order number 290.019
- ▶ Commissioning the machine and briefing the operating staff
Order number 229.931

Accessories

- ▶ Vice [felix] 125
Order number 281.107

Gear-driven drilling machine

GB 50 MV



AVAILABLE
IMMEDIATELY! **to go**

Fig.: GB 50 MV without special equipment

Standard equipment

- ▶ Mechanical spindle feed
- ▶ Machined base plate with T-slots and integrated coolant system
- ▶ Precise mechanical drill depth setting
- ▶ Circuit breaker with undervoltage release
- ▶ Emergency stop punch button
- ▶ Drill protection with micro switch
- ▶ Machine light
- ▶ Rotary and swivel table
- ▶ automatic tool ejector
- ▶ Gear wheels made of hardened and sanded steel
- ▶ Gearwheel lubrication with automatic oil pump
- ▶ Handwheel for manual, fine hand feed
- ▶ Reversing switch for right-hand/left-hand rotation
- ▶ 12-months warranty

Special equipment

- ▶ Thread cutting system
Order number: 287.045

Accessories

- ▶ Machine vice with prism jaws
Jaw width: 140 mm, Span width: 155 mm
Order number 281.211
- ▶ Quick-change drill chuck, socket B18
Clamping range 3-16 mm
Rotational accuracy: 0.17 mm
Order number 285.165
- ▶ Taper mandrel (insertion pin)
Size B 18/MK IV
Order number 290.323

Additional special equipment available on request

Technical data

Drilling capacity (mm)	50
Thread cutting performance max. (depends on gradient)	M36
Spindle	MK IV
Drilling depth (mm)	230
Distance column-spindle (mm)	400
Column diameter (mm)	200
Useable table space (mm)	550 x 550
T-slot size (arm), distance (mm), width measurement (mm)	Number 3, 160, 16/28
Speed indicator	Scale
Drilling depth indicator	Scale
Distance spindle/table (mm)	50-850
Table height adjustment	with toothed rack
Machine dimension without VP (mm)	600 x 1,060 x 2,450
Machine dimensions with VP (mm)	680 x 2,600 x 1,210
Motor three-phase current, 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/U)	0.1-0.2-0.3-0.4
GB 50 MV	
Weight (kg)	795
Order number	287.040
Packaging	V0
Special colours (RAL) for extra charge	on request

Gear-driven drilling machine

GB 50 MV ►Plus



Fig.: GB 50 MV ►Plus without special equipment

Standard equipment

- ▶ Automatic electromagnetic feed
- ▶ Machined base plate with T-slots and integrated coolant system
- ▶ Precise mechanical drill depth setting
- ▶ Rotary and swivel table
- ▶ Circuit breaker with undervoltage release
- ▶ Emergency stop punch button
- ▶ Drill protection with micro switch
- ▶ Machine light
- ▶ automatic tool ejector
- ▶ Gear wheels made of hardened and sanded steel
- ▶ Gearwheel lubrication with automatic oil pump
- ▶ Handwheel for manual, fine hand feed
- ▶ Switch for right-hand/left-hand motion
- ▶ Push-button feed on cross handle
- ▶ 12-months warranty

Special equipment

- ▶ Thread cutting system
Order number: 287.056

Accessories

- ▶ Machine vice with prism jaws
Jaw width: 140 mm, Span width: 155 mm
Order number 281.211
- ▶ Quick-change drill chuck, socket B18
Clamping range 3-16 mm
Rotational accuracy: 0.17 mm
Order number 285.165
- ▶ Taper mandrel (insertion pin)
Size B18/MK IV
Order number 290.323

Technical data

Drilling capacity (mm)	50
Thread cutting performance max. (depends on gradient)	M36
Spindle	MK IV
Drilling depth (mm)	230
Distance column-spindle (mm)	400
Column diameter (mm)	200
Useable table space (mm)	550 x 550
T-slot size (arm), distance (mm), width measurement (mm)	Number 3, 160, 16/28
Speed indicator	Scale
Drilling depth indicator	Scale
Distance spindle/table (mm)	50-850
Table height adjustment	with toothed rack
Machine dimension without VP (mm)	600 x 1,060 x 2,450
Machine dimensions with VP (mm)	680 x 2,600 x 1,210
Motor three-phase current, 400 V (kW)	3.0
Spindle speed in 9 stages (gears) (1/min)	54-75-109-169-237-344-507-712-1,032
Automatic and electromagnetic spindle feed (mm/U)	0.1-0.2-0.3-0.4-0.5-0.6

GB 50 MV Plus

Weight (kg)	805
Order number	287.050
Packaging	V0
Special colours (RAL) for extra charge	on request

Column drill press SB P50 STG MV



AVAILABLE
IMMEDIATELY! **to go**

Fig.: SB P50 STGMV without special equipment

Standard equipment

- ▶ Drive:
Combination of V-belt and gear drive
- ▶ Automatic electromagnetic spindle feed
- ▶ Machined base plate with T-slots and integrated coolant system
- ▶ Precise mechanical drill depth setting
- ▶ automatic tool ejector
- ▶ Machine light
- ▶ Circuit breaker with undervoltage release
- ▶ Emergency stop punch button
- ▶ Drill protection with micro switch
- ▶ Rotary and swivel table
- ▶ Thread cutting system
- ▶ Gearwheel lubrication with automatic oil pump
- ▶ Push-button feed on cross handle
- ▶ Continuous speed adjustment, frequency controlled via potentiometer and 3 x transmission for stage changes
- ▶ 12-months warranty

Accessories

- ▶ Machine vice with prism jaws
Jaw width: 140 mm, Span width: 155 mm
Order number 281.211
- ▶ Quick-change drill chuck, socket B18
Clamping range 3-16 mm
Rotational accuracy: 0.17 mm
Order number 285.165
- ▶ Taper mandrel (insertion pin)
Size B18/MK IV
Order number 290.323

Technical data

Drilling capacity (mm)	50
Thread cutting performance max. (depends on gradient)	M42
Spindle	MK IV
Drilling depth (mm)	200
Distance column-spindle (mm)	360
Column diameter (mm)	175
Useable table space (mm)	550 x 550
T-slot size (arm), distance (mm), width measurement (mm)	Number 3, Distance 160 16/28
Speed indicator	Digital
Drilling depth indicator	Scale
Distance spindle/table (mm)	50-850
Table height adjustment	with toothed rack
Machine dimension without VP (mm)	550 x 950 x 2,170
Machine dimensions with VP (mm)	740 x 2.220 x 1,320
Motor three-phase current, 400 V (kW)	4.0
Spindle speed, stepless (1/min) with transmission (3 stage with gearbox)	
Stage I	30-230
Stage II	90-730
Stage III	190-1,500
Automatic and electromagnetic spindle feed (mm/U)	0.1-0.2-0.3-0.4
SB P50 STG MV*	
Weight (kg)	850
Order number	287.060
Packaging	V0
Special colours (RAL) for extra charge	on request

Gear-driven drilling machine

GB 70 MV ►Plus



Fig.: GB 70 MV ►Plus without special equipment

Standard equipment

- ▶ Automatic electromagnetic feed
- ▶ Machined base plate with T-slots and integrated coolant system
- ▶ Precise mechanical drill depth setting
- ▶ Rotary and swivel table
- ▶ Circuit breaker with undervoltage release
- ▶ Emergency stop punch button
- ▶ Drill protection with micro switch
- ▶ Machine light
- ▶ automatic tool ejector
- ▶ Gear wheels made of hardened and sanded steel
- ▶ Gearwheel lubrication with automatic oil pump
- ▶ Handwheel for manual, fine hand feed
- ▶ Switch for right-hand/left-hand motion
- ▶ Push-button feed on cross handle
- ▶ 12-months warranty

Special equipment

- ▶ Thread cutting system
Order number 287.076

Accessories

- ▶ Machine vice with prism jaws
Jaw width: 140 mm, Span width: 155 mm
Order number 281.211
- ▶ Quick-change drill chuck,
socket B18
Clamping range 3-16 mm
Rotational accuracy: 0.17 mm
Order number 285.165
- ▶ Taper mandrel (insertion pin)
Size B18/MK V
Order number 287.097

Technical data

Drilling capacity (mm)	70
Thread cutting performance max. (depends on gradient)	M50
Spindle	MK V
Drilling depth (mm)	260
Distance column-spindle (mm)	420
Column diameter (mm)	220
Useable table space (mm)	600 x 600
T-slot size (arm), distance (mm), width measurement (mm)	Number 3, 191, 18/30
Speed indicator	Scale
Drilling depth indicator	Scale
Distance spindle/table (mm)	25-825
Table height adjustment	with toothed rack
Machine dimension without VP (mm)	600 x 1,060 x 2,640
Machine dimensions with VP (mm)	770 x 2,760 x 1,220
Motor three-phase current, 400 V (kW)	5.5
Spindle speed in 12 stages (gears) (1/min)	51-64-84-110-158-198-262- 342-447-559-738-966
Automatic and electromagnetic spindle feed (mm/U)	0.1-0.2-0.3-0.4-0.5-0.6

GB 70 MV Plus

Weight (kg)	940
Order number	287.070
Packaging	V0
Special colours (RAL) for extra charge	on request

Milling/drilling machine BFM 40



Fig.: BFM 40 without special equipment

Standard equipment

- ▶ Automatic mechanical spindle feed
- ▶ Coolant system completely integrated in base plate
- ▶ Machine light
- ▶ Precise mechanical drill depth setting
- ▶ Sleeve locking for milling work and tool changes
- ▶ Cross table with 3 T-grooves
- ▶ Circuit breaker with undervoltage release
- ▶ Emergency stop punch button
- ▶ Drill protection with micro switch
- ▶ Vertical drill head setting with drive mechanism
- ▶ Drill head adjustment by 45° in both directions from the central axis
- ▶ Machine bed with coolant tank and motor pump
- ▶ automatic tool ejector
- ▶ Gear wheels made of hardened and sanded steel
- ▶ Gearwheel lubrication with automatic oil pump
- ▶ Switch for right-hand/left-hand motion
- ▶ Push-button with feed on/off function on cross handle
- ▶ 12-months warranty

Special equipment

- ▶ Digital position display of the working table various axes possible (X; X-Y; X-Y-Z)
on request
- ▶ Spindle socket ISO 30
Order number: 287.082
- ▶ ENG-X table feed x-axis via transmission, 8 feed speeds
(20-550 mm/min, with fast mode 850 mm/min)
Order number: 287.083
- ▶ ENG-Y table feed y-axis via transmission, 8 feed speeds
(20-550 mm/min, with fast mode 850 mm/min)
Order number: 287.084
- ▶ Thread cutting system
Order number: 287.086

Accessories

- ▶ Machine vice with prism jaws
Jaw width: 140 mm, Span width: 155 mm
Order number 281.211
- ▶ Quick-change drill chuck, socket B18
Clamping range 3-16 mm
Rotational accuracy: 0.17 mm
Order number 285.165
- ▶ Taper mandrel (insertion pin)
Size B18/MK IV
Order number 290.323

Technical data

Drilling capacity (mm)	35
Milling performance (cm³/min)	55
Thread cutting performance max. (depends on gradient)	M35
Spindle	MK IV
Drilling depth (mm)	180
Distance column-spindle (mm)	390
Useable table surface cross table (mm)	1,200 x 360
T-slot size (arm), distance (mm), width measurement (mm)	Number 3, 95, 16/28
Longitudinal stroke table (X) (hand) (mm)	700
Cross stroke table (Y) (hand) (mm)	360
Speed indicator	Scale
Drilling depth indicator z-axis	Scale
Distance spindle/table (mm)	190-650
Drill head height adjustment motor (mm)	Travel 150
Machine dimension without VP (mm)	1,660 x 1,520 x 2,450
Machine dimensions with VP (mm)	1,680 x 1,680 x 2,520
Motor three-phase, 400 V (kW)	0.9/1.5
Spindle speed in 16 steps (gears) (1/min)	94-135-189-207-271-303-347-414-497-606-760-995-1,112-1,520-2,225
Automatic and electromagnetic spindle feed (mm/U)	0.1-0.18-0.24

BFM 40

Weight (kg)	1,400
Order number	287.080
Packaging	V0
Special colours for extra charge	on request

Drilling line BS 15 ►Plus



Fig.: Drilling BS 15 ►Plus with special equipment

Standard equipment

- ▶ Industrially reliable control unit
- ▶ Control panel with 5.7" display
- ▶ Positioning with frequency converter or servo drive
- ▶ Programme storage on internal memory or USB stick
- ▶ 2-button feed cycle operation
- ▶ Feed system (x-axis) with pliers 4,500 mm
- ▶ Main vice (pneumatic) under the drilling unit TBZ 15 Plus
- ▶ Incl. safety light barrier system (CE conformity)

Special equipment / accessories

- ▶ Drilling line 15 Plus with 1 NC axis
- ▶ X-axis stroke and feed system (Material) NC controlled
- ▶ Y-axis can be manually adjusted using handwheel
- ▶ Z-axis: drilling, thread cutting and flow drilling by hand
- ▶ Drilling line 15 Plus with 2 NC axes
- ▶ XY-axis stroke and feed system (Material) NC controlled
- ▶ Z-axis: Drilling, thread cutting and flow drilling manually

FLOTT Drilling lines BS 15plus are designed individually as per your requirements.

We would be happy to advise you!

Technical data

Infeed conveyor roller (L x W) (mm)	5,000 x 330
Outfeed conveyor roller (L x W) (mm)	5,000 x 330
Traverse speed X-axis (m/min)	12
Positioning accuracy X-axis (mm)	+/- 0.2
Repetition accuracy X-axis (mm)	+/- 0.1
Order no.: 1 NC axis	288.020
Order no.: 2 NC axes	288.021
Combination with TBZ 15 Plus*	
Drilling capacity / normal drilling performance (mm)	15/18
Spindle	MK II
Drilling depth (mm)	60
Thread cutting performance max.	M10 x 1
Column diameter (mm)	82
Motor three-phase current, frequency-regulated, mains connection 230 V (kW)	0.75
Max. torque (Nm)	15

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

Drilling system BA 30 CNC ▶ Plus and BA 40 CNC ▶ Plus



Standard equipment

- ▶ X- and Y-axes NC controlled
- ▶ Useable distance column-spindle in Y 300 mm
- ▶ Sanded slot table
- ▶ Pneumatic vices
- ▶ Minimum quantity lubrication
- ▶ Z-axis (drill head) controlled by NC
- ▶ Height adjustment via crank
- ▶ 140 mm column diameter

Special equipment / accessories

- ▶ Safety equipment
- ▶ Tool holders
- ▶ LED light
- ▶ Pendulum machining
2 independent processing areas
- ▶ Chip tray

FLOTT Drilling systems BA 30 CNC and BA 40 CNC are designed individually as per your requirements.

Do you also require any milling work? We can also provide a solution here and work closely with a partner in order to do this!

We would be happy to advise you!

Technical data

Working lengths X-axis (mm)	3,000 4,000 6,000
Traverse speed (mm/sec)	600
Positioning accuracy of the axes (per m) (mm)	0.1

Combination with SB 30 NC Plus

Drilling capacity/normal drilling performance (mm)	30/35
at maximum capacity (mm)	25
Spindle	MK III
Drilling depth (mm)	125 mm
Thread cutting performance max. (depends on gradient)	M20
Order no.:	on request

Combination with SB 40 NC Plus

Drilling capacity/normal drilling performance (mm)	35/40
at maximum capacity (mm)	30
Spindle	MK IV
Drilling depth (mm)	160
Thread cutting performance max. (depends on gradient)	M30
Order no.:	on request

* The drilling machines are fitted with a frequency converter and comply with standards DIN E 55011-20 and AT 2017

Gang drilling machine



Fig.: Drilling line with 6 drilling heads 40 NC Plus

Standard equipment

- ▶ Fixed worktable
- ▶ Head height adjustment via crank
- ▶ Radial twisting options for the drill heads
- ▶ Chip tray

Special equipment / accessories

- ▶ Safety equipment
- ▶ Foot switch
- ▶ Coolant system
- ▶ Warranty extension 4 years
- ▶ Warranty extension 5 years

FLOTT gang drilling machines are designed individually as per your requirements.

We would be happy to advise you!

Technical data

Depending on the quantity and choice of drill heads

Order no.:

on request

FLOTT special equipment

Option 1

Machines with different special voltage on request



Order number 290.100

Option 5

Column extension Ø 70
max. extension 200 mm



Order number 296.286

Option 2

Machined base plate with T-slots.
Available for machines with column diameter from 82mm and up.



Order number 290.378

Option 6

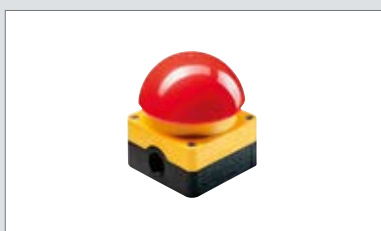
Column extension Ø 82
max. extension 150 mm



Order number 296.287

Option 3

Foot operated switch with Emergency off function
(must be unlocked manually)



Order number 290.320

Option 7

Column extension Ø 110
max. extension 300 mm



Order number 296.288

Option 4

Foot operated switch, function following FLOTT technical advise and your requirements



Order number on request

Option 8

Column extension Ø 125
max. extension 300 mm



Order number 296.289



Advice via WhatsApp
It couldn't be easier
Phone: +49 (162) 18 54 000

Option 9

**Drill depth
fixed stop**
for best
repetition accuracy



Order number 212.716

Option 13

Extended warranty
5 years



Order number 290.019

Option 10

Special colour
Base (One component
paint as per RAL color
chart)



Order number 290.200

Option 14

**Combination drilling
table for
110 columns**
with vice and square
table, rotatable 360 °
with scale
jaw width 120 mm,
span width 105 mm
Table surface
350 x 350 mm



Order number 290.125

Option 11

Special colour
Plus hood



Order number 290.201

Option 15

**Combination drilling
table for
125/140 columns**
with vice and square
table, rotatable 360 °
with scale
jaw width 120 mm,
span width 105 mm
Table surface
350 x 350 mm



Order number 290.135

Option 12

Extended warranty
4 years



Order number 290.018

Option 16

**Commissioning
of the machine**
and training of the
operating personnel



Order number 229.931

Accessories



Order number 290.395

Minimum quantity lubrication

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. The lubricant and blower are guided separately and coaxially to the nozzle and can be set independently from the other in a manner that is reproducible.

Advantages

- ▶ After activation, the lubricant is immediately released from the metering nozzle.
- ▶ Large, continuous setting range for the metering pump. From a barely perceptible quantity to a maximum output of 3 cm³/min.

The compact dosing unit for minimal quantities of lubrication: As little as possible but as much as necessary – with optimum metering!

Order number 290.395



Order number 290.340

Electrical coolant system

- ▶ Complete with pump, container, hoses, cable and circuit breaker from the 18 Plus series and up, except SB 20 FB and SB 30 FB/FB NC, and all gear-box machines
- ▶ Dimensions: 350 x 250 x 250 mm
- ▶ Power supply: 230 V / 50 Hz
- ▶ Filling quantity: max. 15 l
- ▶ Output: max. 30 l/min
- ▶ Cannot be used with the TB 10 ECO series
- ▶ Requires a loadable N conductor
- ▶ Colour: grey RAL 7005

Order number 290.340



Order number 290.160C

Base plate with coolant system

- ▶ Filling quantity: max. 15 l,
- ▶ Output: max. 30 l/min

Columns Ø 82 mm – Order number 290.160A
Columns Ø 110 mm – Order number 290.160B
Columns Ø 125 mm – Order number 290.160C
Columns Ø 140 mm – Order number 290.160C



Order number 250.208

Machine cabinet

Massive beech top, 30 mm thick,
height-adjustable feet (up to 3 cm),
laminated and finger-jointed,
oil-treated to prevent the build-up of dirt
and to protect against warpage

Bearing capacity: 300 kg

Narrow design

- ▶ 1 drawer with roller-bearing guideway
- ▶ 1 lockable door
- ▶ 60 x 60 x 84 cm

Order number 250.208



Order number 250.180

Wide design

- ▶ 2 drawers with roller-bearing guideway
- ▶ 2 lockable doors
- ▶ 120 x 60 x 84 cm

Order number 250.180

Accessories



Order number 281.085

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 types series 18/20/23/25 Plus
- ▶ Intermediate plate

Order number 281.085

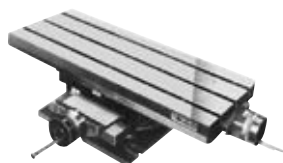


Order number 281.090

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 types series 18/20/23/25 Plus, series P30 and 30 Plus/MV /NC
- ▶ Intermediate plate

Order number 281.090



Order number 281.095

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
- ▶ Works with drilling machine types series P40 / 40 Plus/MV/ NC
- ▶ Intermediate plate

Order number 281.095

Drilling machine vice Flott [felix]



Order number 281.105

[felix] 80

- ▶ Jaw width: 80 mm
- ▶ Span width: 0-81 mm
- ▶ Gripping jaw height: 35 mm
- ▶ Weight: 4.5 kg

Order number 281.105



Order number 281.106

[felix] 100

- ▶ Jaw width: 100 mm
- ▶ Span width: 0-101 mm
- ▶ Gripping jaw height: 35 mm
- ▶ Weight: 5.6 kg

Order number 281.106

[felix] 100 with tensioning support

- ▶ Weight: 6.1 kg

Order number 281.108



Order number 281.109

[felix] 125

- ▶ Jaw width: 125 mm
- ▶ Span width: 0-131 mm
- ▶ Gripping jaw height: 40 mm
- ▶ Weight: 11.2 kg

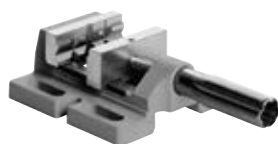
Order number 281.107

[felix] 125 with tensioning support

- ▶ Weight: 11.7 kg

Order number 281.109

Accessories



Order number 281.205

Medium-duty machine vice made from grey cast iron with ergonomic handle

No. 1: 85

- ▶ Jaw width: 85 mm
- ▶ Span width: 75 mm
- ▶ Gripping jaw height: 30 mm
- ▶ Weight: 3.3 kg

Order number 281.205

No. 1: 100

- ▶ Jaw width: 100 mm
- ▶ Span width: 95 mm
- ▶ Gripping jaw height: 30 mm
- ▶ Weight: 4.0 kg

Order number 281.206

No. 1: 120

- ▶ Jaw width: 120 mm
- ▶ Span width: 105 mm
- ▶ Gripping jaw height: 30 mm
- ▶ Weight: 6.6 kg

Order number 281.207

Replacement jaw

No. 1: 85

Order number 281.212

No. 1: 100

Order number 281.213

No. 1: 120

Order number 281.214

**Heavy-duty machine vice,
hardened and closed jaws with
handle for maximum clamping forces**



Order number 281.209

No. 2: 100

- ▶ Jaw width: 100 mm
- ▶ Span width: 90 mm
- ▶ Gripping jaw height: 40 mm
- ▶ Weight: 7.5 kg

Order number 281.209

No. 2: 120

- ▶ Jaw width: 120 mm
- ▶ Span width: 120 mm
- ▶ Gripping jaw height: 40 mm
- ▶ Weight: 11.5 kg

Order number 281.210

No. 2: 140

- ▶ Jaw width: 150 mm
- ▶ Span width: 155 mm
- ▶ Gripping jaw height: 40 mm
- ▶ Weight: 13.5 kg

Order number 281.211

**Universal angle vice,
100 mm jaw width and 3 milled contact surfaces**



Order number 281.208

No. 3: 100

- ▶ Jaw width: 100 mm
- ▶ Span width: 85 mm
- ▶ Gripping jaw height: 30 mm
- ▶ Weight: 4.9 kg

Order number 281.208

Replacement jaw

No. 3: 100

Order number 281.218

Accessories

Keyed drill chuck

- ▶ Span width: 0.5-8 mm
- ▶ Socket B12 for turbo drill
- ▶ Concentricity: 0.20 mm

Order number 285.103

Precision keyless chuck

- ▶ Sanded, self-tensioning
- ▶ Span width: 0.5-6 mm
- ▶ Socket B12
- ▶ Concentricity: 0.05 mm

Order number 285.104



Order number 285.064

Precision quick-change drill chuck sanded, self tightening, for clockwise and counter-clockwise work rotation max. 8,000 1/min.

- ▶ Span width: 1-13 mm
- ▶ Socket B16
- ▶ Concentricity: 0.06 mm

Order number 285.064

Accessories



Order number 285.133

Keyless chuck, self-tensioning

- ▶ Span width: 1-13 mm
- ▶ Socket B16
- ▶ Concentricity: 0.17 mm

Order number 285.133

Keyless chuck, self-tensioning

- ▶ Span width: 3-16 mm
- ▶ Socket B18
- ▶ Concentricity: 0.17 mm

Order number 285.165



Order number 285.109

Tap holder, no independent release due to vibrations thanks to the side spindle for M4-M12 DIN 371

- ▶ Span width: 1-10 mm
- ▶ Socket: B16
- ▶ Overall length: 80 mm

Order number 285.109

Accessories



Order number 285.310

Taper mandrel (insertion pin)

Dimensions B16/MK I

Order number 285.310

Dimensions B16/MK II

Order number 285.320

Dimensions B18/MK II

Order number 285.321

Dimensions B18/MK III

Order number 285.323

Dimensions B18/MK IV

Order number 290.323

Dimensions B18/MK V

Order number 287.097



Order number 285.330

Reduction sleeves

Dimensions MK II/MK I

Order number 285.330

Dimensions MK III/MK II

Order number 285.331

Dimensions MK III/MK I

Order number 285.332

Dimensions MK IV/MK III

Order number 285.333

Dimensions MK IV/MK II

Order number 285.336

Dimensions MK V/MK IV

Order number 285.092



Order number 285.334

Drift, semiautomatic

Dimensions 1-3

Order number 285.334

Dimensions 4-6

Order number 285.335

**Tapping chuck: with pressure increase,
length compensation compression and tension
Suitable for clockwise and counter-clockwise work**



Order number 285.083

GBF 12/MK 2

- ▶ Clamping range M3 - M12
- ▶ without gripping collet

Order number 285.083

Multi-purpose gripping collet for GBF 12

- ▶ Clamping range 3.5-6.5 mm

Order number 285.084

- ▶ Clamping range 6.5-10 mm

Order number 285.085

GBF 18/MK 3

- ▶ Cutting range M5 - M18
- ▶ without gripping collet

Order number 285.086

Multi-purpose gripping collet for GBF 18

- ▶ Clamping range 2.8-7 mm

Order number 285.087

- ▶ Clamping range 7-13 mm

Order number 285.088

GBF 30/ MK 4

- ▶ Cutting range M10 - M30
- ▶ without gripping collet

Order number 285.089

Multi-purpose gripping collet for GBF 30

- ▶ Clamping range 10-16 mm

Order number 285.090

- ▶ Clamping range 16-23 mm

Order number 285.091



Order number 285.089

Accessories



Order number 285.124

HSS-G twist drill set in ABS Box

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

Order number 285.124

HSS-G twist drill set in ABS Box

- ▶ Multi-purpose drill with strengthened drill core and parabola-shaped chip flute for improved chip removal
DIN 338 – split point 130 degrees, 25-part,
1-13 mm x 0.5 mm

Order number 285.123



Order number 285.162

HSS-G countersink and deburring countersink set in ABS Box

- ▶ DIN 335 C, 90 degrees, 6-part
6.3-8.3-10.4-12.4-16.5-20.5 mm

Order number 285.162



Order number 285.163

HSS-E machine tap in ABS Box

- ▶ DIN 371/376, M3 - M12, Form B,
with twist drill, 14-part
for clearance hole

Order number 285.163

HSS-E machine tap in ABS Box

- ▶ DIN 371/376, M3 - M12, Form C
35 degree RSP, 14-part
for blind holes

Order number 285.164

Accessories



Order number 290.854

Replacement sight protection for the most common machines

**Series Turbodrill, 10 Eco Plus,
10 Basic Plus, 10/13/15 Plus**

Order number 212.596

Series 18/20/23/25 Plus

Order number 218.366



Order number 290.040

Complete split and extendable drill guard with micro-switch locking

Series TB 10 Eco Plus

Order number 290.045

Series Turbo Drill, 10/13/15/18/20/23 Plus

Order number 290.032

Replacement sight protection:

(W x H x D) 170 x 250 x 130 mm

Order number 290.030

Series P30, P40

Order number 290.041

Replacement sight protection:

(W x H x D) 270 x 300 x 150 mm

Order number 290.040

Retrofitting kit



Order number 290.854

Complete drilling protection, incl. electr. Locking device standard (retrofitting kit)

All current FLOTT machines are fitted with
electrical drilling protection.

Retrofit your old machines now in accordance with
the Industrial Premises Regulation (Betriebs-
stättenverordnung) (Section 4 Para. 1) of 01.06.2015:

Folding away the drill guard shuts off the machine.

Series 10 STW/P18/M1/E1/E2/E3/E4/E5

Order number 290.832

Replacement sight protection: (W x L) 120 x 170 mm

Order number 290.825

Series M2/M3/M4/M5 / P23/P30/P35/P40

Order number 290.855

Replacement sight protection: (W x L) 120 x 250 mm

Order number 290.854

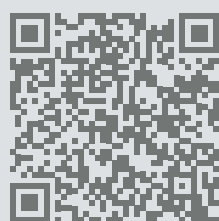
Grinding machines contents

Double grinding machine	Grinding disc size mm	Motor speed 1/min	Motor AC 230 V kW	Motor three-phase Voltage 400 V kW	Weight kg	Suction socket Ø mm	Page
TS 150 SW	150 x 25 x 32	2,800	0.52	–	14	42	80
TS 175 SW	175 x 25 x 32	2,800	0.52	–	15	42	80
TS 150 SDP	150 x 25 x 32	2,840	–	0.6	14	42	80
TS 175 SDP	175 x 25 x 32	2,740	–	0.7	15	42	80
TS 200 SDP	200 x 32 x 32	2,550	–	1.0	20	42	82
TS 250 SDP	250 x 40 x 51	1,400	–	1.4	32	42	82
TS 300 SDP	300 x 40 x 51	1,250	–	2.2	40	42	82
TS 175 Pro	175 x 25 x 32	2,750	–	0.7	15	42	86
TS 200 Pro	200 x 32 x 32	2,550	–	0.75	20	42	86
TS 250 Pro	250 x 40 x 51	1,400	–	0.8	32	42	86
TSB 250 P	250 x 40 x 51	1,400	–	1.4	35	42	88

Belt sanders	Belt length mm	Belt width mm	Motor AC 230 V kW	Motor three-phase Voltage 400 V kW	Weight kg	Suction socket Ø mm	Page
TBSM 100	1,220	100	0.75 (1 x 230 V)	–	27	35	90
BSM 75	2,000	75	–	3.75	80	60	92
BSM 75 A	2,000	75	–	3.75	90	60	92
BSM 75 A/pol	2,000	75	–	3.0/3.75	105	60	92
BSM 150	2,000	150	–	3.75	90	60	94
BSM 150 A	2,000	150	–	3.75	100	60	94
BSM 150 A/pol	2,000	150	–	3.0/3.75	105	60	94

Brush deburring machine	Brush diameter mm	Brush width normal mm	Motor speed 1/min	Drive power (Three-phase motor) Voltage 400 V kW	Weight kg	Page
BEM 250 Plus	250	60	2,800/1,400	1.8/2.1	85	96
BEM 250 Pro	250 (3 pieces)	60	600-2,700	3	410	98

You can find the right dust suction in the technical data for the machine concerned.



Grinding technology

Double grinding machine

TS 150 SW /

TS 175 SW

TS 150 SD P /

TS 175 SD P



Figure below: TS 150 SW / TS 150 SD P

Fig. above: TS 175 SW / TS 175 SD P

Standard equipment

- ▶ Smooth running and maintenance free motor
- ▶ Protective hood closed at the sides
- ▶ Stable and adjustable work piece support
- ▶ High safety level
- ▶ Suitable for grinding, deburring and sharpening tools of all kinds, metal profiles etc.
- ▶ Circuit breaker and under-voltage release
- ▶ Spark/eye protection on both sides
- ▶ Connecting cable with two-pin earthed plug (for all SW models)
- ▶ Connecting cable with CEE plug 16 A (for all SD P models)
- ▶ One coarse and one fine grinding wheel preinstalled
- ▶ 12-months warranty for single-shift operation

Accessories

- ▶ Machine stand with water dip tank,
Dimensions: 355 x 300 mm, Weight: 12 kg
Order number 350.435
- ▶ Wall bracket
Order number 315.035
- ▶ Separate spare grinding wheel
Normal corundum coarse
Order number for TS 150: 315.522
Order number for TS 175: 317.526
- ▶ Separate spare grinding wheel
Normal corundum fine
Order number for TS 150: 315.523
Order number for TS 175: 317.527
- ▶ Wheel dresser
Order number 350.101
- ▶ Dust extraction system MA 400 D
(only TS 150 SD P and TS 175 SD P)
Order number 330.295

Technical data

Machine dimensions without VP (mm)	230 x 440 x 210
Machine dimensions with VP (mm)	260 x 450 x 250
Suction socket Ø (mm)	42

TS 150 SW

Dimensions of the grinding wheel (mm)	150 x 25 x 32
Speed (1/min)	2,800
Motor AC 230 V (kW)	0.52, S3-25% (periodic)
Weight (kg)	14
Order number	317.760

TS 175 SW

Dimensions of the grinding wheel (mm)	175 x 25 x 32
Speed (1/min)	2,800
Motor AC 230 V (kW)	0.52, S3-25% (periodic)
Weight (kg)	15
Order number	317.766

TS 150 SD P

Dimensions of the grinding wheel (mm)	150 x 25 x 32
Speed (1/min)	2,840
Motor three-phase current 400 V (kW)	0.6, S2-30 min (short time operation)
Weight (kg)	14
Order number	317.765

TS 175 SD P

Dimensions of the grinding wheel (mm)	175 x 25 x 32
Speed (1/min)	2,740
Motor three-phase current 400 V (kW)	0.7, S2-30 min (short time operation)
Weight (kg)	15
Order number	317.761

Double grinding machine

TS 200 SD P

TS 250 SD P

TS 300 SD P



AVAILABLE
IMMEDIATELY! **to go**



Fig.: TS 200 DP with machine stand, emergency stop button, emergency stop pedal, brake and suction system

Fig.: TS 300 SD P with machine stand 350.436

Standard equipment

- ▶ Smooth running and maintenance-free motor
- ▶ Protective hood closed at the sides
- ▶ Adjustable work piece support
- ▶ High safety level
- ▶ Suitable for grinding, deburring and sharpening tools of all kinds, metal profiles etc.
- ▶ Circuit breaker and under-voltage release
- ▶ Spark/eye protection on both sides
- ▶ Connecting cable with CEE plug 16 A
- ▶ One coarse and one fine grinding wheel preinstalled
- ▶ 12-months warranty for single-shift operation
- ▶ **Available optionally***
Complete with EMERGENCY STOP button and brake!
(Only in combination with machine stand or suction system)

Special equipment

- ▶ With machine stand, EMERGENCY STOP button and brake*
Order number for TS 200: 317.774
Order number for TS 250: 317.775
Order number for TS 300: 317.776
- ▶ With machine stand, EMERGENCY STOP button, brake and suction system*
Order number for TS 200: 317.777
Order number for TS 250: 317.778
Order number for TS 300: 317.779
- ▶ Different colour shade
 (One-component RAL paint)
Order number 309.010
- ▶ Foot switch emergency stop
 (can only be ordered in connection with brake, machine stand and/or suction system)
Order number 317.859

Accessories

- ▶ Machine stand with water dip tank,
 Dimensions: 355 x 300 mm, Weight: 12 kg
 (only TS 200 SD P)
Order number 350.435
- ▶ Machine stand with water dip tank,
 Dimensions: 420 x 520 mm, Weight: 15 kg
 (only TS 250 SD P and TS 300 SD P)
Order number 350.436
- ▶ Wall bracket (only TS 200 SD P)
Order number 315.035
- ▶ Separate spare grinding wheel
 Normal corundum coarse
Order number for TS 200: 317.532
Order number for TS 250: 317.542
Order number for TS 300: 317.622

Technical data

Suction socket Ø (mm)	42
TS 200 SD P	
Dimensions of the grinding wheel (mm)	200 x 32 x 32
Machine dimensions without VP (mm)	250 x 470 x 230
Machine dimensions with VP (mm)	300 x 480 x 275
Speed (1/min)	2,550
Motor three-phase current 400 V (kW)	1.0, S2-30 min (short time operation)
Weight (kg)	20
Order number	317.762

TS 250 SD P

Dimensions of the grinding wheel (mm)	250 x 40 x 51
Machine dimensions without VP (mm)	280 x 530 x 270
Machine dimensions with VP (mm)	325 x 540 x 310
Speed (1/min)	1,400
Motor three-phase current 400 V (kW)	1.4, S2-30 min (short time operation)
Weight (kg)	32
Order number	317.763

TS 300 SD P

Dimensions of the grinding wheel (mm)	300 x 40 x 51
Machine dimensions without VP (mm)	350 x 530 x 340
Machine dimensions with VP (mm)	Range
Speed (1/min)	1,250
Motor three-phase current 400 V (kW)	2.2, S2-30 min (short time operation)
Weight (kg)	40
Order number	317.764

- ▶ Separate spare grinding wheel
 Normal corundum fine
Order number for TS 200: 317.533
Order number for TS 250: 317.543
Order number for TS 300: 317.624
- ▶ Wheel dresser
Order number 350.101
- ▶ Dust extraction system MA 400 D
 (only TS 200 SD P)
Order number 330.295
- ▶ Dust extraction system MA 600 D
 (only TS 250 SD P and TS 300 SD P)
Order number 330.080

TO
TAL
LY
HA
PPY



AVAILABLE
IMMEDIATELY! ▶ **to go**

WITH THE TS 200 SD P

The complete package: Double grinding machine TS 200 SD P

with brake, EMERGENCY STOP button and
machine stand with integrated suction system

- ▶ Standard equipment
- ▶ Smooth running, maintenance-free motor
- ▶ Protective hood closed at the sides
- ▶ Stable and adjustable work piece support
- ▶ High safety level
- ▶ Suitable for grinding, deburring and sharpening tools of all kinds, metal profiles etc.
- ▶ Circuit breaker and under-voltage release
- ▶ Spark/eye protection on both sides
- ▶ Connecting cable with CEE plug 16 A
- ▶ One coarse and one fine grinding wheel preinstalled
- ▶ Machine stand with water dip tank,
Dimensions: 355 x 300 mm, Weight: 12 kg
- ▶ Dust extraction system MA 400 D
- ▶ EMERGENCY STOP BUTTON and brake
- ▶ 12-months warranty for single-shift operation

**ONE NUMBER
ALL-IN!**

Order number 317.777

You can find out more about
TS 200 SD P on Page 82/83
in our catalogue!

Double grinding machine

TS 175 Pro

TS 200 Pro

TS 250 Pro



Fig.: TS 200 Pro with machine stand,
EMERGENCY STOP button, brake and suction system

Standard equipment

- ▶ Smooth running and maintenance-free motor
Operating type S1 (continuous operation)
- ▶ Protective hood closed at the sides
- ▶ Stable and adjustable workpiece support
- ▶ High safety level
- ▶ Suitable for grinding, deburring and sharpening tools of all kinds, metal profiles etc.
- ▶ Circuit breaker and under-voltage release
- ▶ Spark/eye protection on both sides
- ▶ Connecting cable with CEE plug 16 A
- ▶ One coarse and one fine grinding wheel preinstalled
- ▶ 12-months warranty for single-shift operation
- ▶ **Available optionally***
Complete with EMERGENCY STOP button and brake!
(Only in combination with machine stand or suction system)

Special equipment

- ▶ With machine stand, EMERGENCY STOP button and brake*
Order number for TS 175: 317.841
Order number for TS 200: 317.846
Order number for TS 250: 317.851
- ▶ With machine stand, EMERGENCY STOP button, brake and suction system*
Order number for TS 175: 317.842
Order number for TS 200: 317.847
Order number for TS 250: 317.852
- ▶ different colour shade
(One-component RAL paint)
Order number 309.010
- ▶ Foot switch emergency stop
(can only be ordered in connection with brake, machine stand and/or suction system)
Order number 317.859

Accessories

- ▶ Separate spare grinding wheel
Normal corundum coarse
Order number for TS 175: 317.526
Order number for TS 200: 317.532
Order number for TS 250: 317.542
- ▶ Separate spare grinding wheel
Normal corundum fine
Order number for TS 175: 317.527
Order number for TS 200: 317.533
Order number for TS 250: 317.543
- ▶ Wheel dresser
Order number 350.101
- ▶ Machine stand with water dip tank,
Dimensions: 355 x 300 mm, Weight: 12 kg
(only TS 175 Pro / TS 200 Pro)
Order number 350.435

Technical data

Suction socket Ø (mm)	42
TS 175 Pro	
Dimensions of the grinding wheel (mm)	175 x 25 x 32
Machine dimensions without VP (mm)	230 x 440 x 210
Machine dimensions with VP (mm)	260 x 450 x 250
Speed (1/min)	2,750
Motor three-phase current 400 V (kW)	0.7, S1 (continuous operation)
Weight (kg)	15
Order number	317.840
TS 200 Pro	
Dimensions of the grinding wheel (mm)	200 x 32 x 32
Machine dimensions without VP (mm)	250 x 470 x 230
Machine dimensions with VP (mm)	300 x 480 x 275
Speed (1/min)	2,550
Motor three-phase current 400 V (kW)	0.75, S1 (continuous operation)
Weight (kg)	20
Order number	317.845
TS 250 Pro	
Dimensions of the grinding wheel (mm)	250 x 40 x 51
Machine dimensions without VP (mm)	280 x 530 x 270
Machine dimensions with VP (mm)	325 x 540 x 310
Speed (1/min)	1,400
Motor three-phase current 400 V (kW)	0.8, S1 (continuous operation)
Weight (kg)	32
Order number	317.850

- ▶ Machine stand
(only TS 250 Pro)
Order number 350.436
- ▶ Dust extraction system MA 400 D
(only for TS 175 Pro / TS 200 Pro)
Order number 330.295
- ▶ Dust extraction system MA 600 D
(only for TS 250 Pro)
Order number 330.080

Combined belt sander/ grinding machine TSB 250 P



AVAILABLE
IMMEDIATELY! **to go**

Fig.: TSB 250 P with machine stand

Standard equipment

- ▶ High performance
- ▶ Belt sanding equipment, height-adjustable, 0-90°
- ▶ Maximum useable surface grinding area
- ▶ Belt adjustment with fine tuning
- ▶ Longitudinal stop for material guiding
- ▶ Perfectly balanced and low vibration
- ▶ Connection for dust extraction Ø 50 mm on both sides
- ▶ Circuit breaker with under-voltage release
- ▶ Fixed end stop
- ▶ 1 standard grinding belt (brown), grain 80
- ▶ 1 grinding wheel 250 x 40 x 51 mm, grain 80
- ▶ Spark arrester
- ▶ Connecting cable with CEE plug
- ▶ 12-months warranty for single-shift operation

Special equipment

- ▶ With machine stand, EMERGENCY STOP button and brake*
Order number 330.365
- ▶ With machine stand, EMERGENCY STOP button, brake and suction system*
Order number 330.370

Accessories

- ▶ Grinding wheel 250 x 40 x 51 mm
Grain 36 coarse
Order number 317.542
- ▶ Grinding wheel 250 x 40 x 51 mm
Grain 80 fine
Order number 317.543
- ▶ Standard grinding belt (brown) 1,300 x 75 mm, 5 pieces, grain 40
Order number 316.042
- ▶ Standard grinding belt (brown) 1,300 x 75 mm, 5 pieces, grain 80
Order number 316.041
- ▶ Graphite coating 80 x 350 mm
Order number 316.045
- ▶ Machine stand with water dip tank
Order number 350.436
- ▶ Machine stand with integrated dust suction system (MA 600)
Order number 330.080

Technical data

TSB 250 P

Dimensions of the grinding wheel (60 grain) (mm)	250 x 40 x 51
Machine dimensions without VP (mm)	600 x 320 x 700
Machine dimensions with VP (mm)	650 x 800 x 350
Speed (1/min)	1,400
Weight (kg)	35
Belt speed (m/s)	15
Band dimensions (mm)	1,300 x 75
Grain size	80
Sound level (dB (A))	78
Motor three-phase current 400 V (kW)	1.4
Measurement with grinding arm position (vertical) (mm)	560 x 320 x 680
Order number	330.360
Additional accessories	from Page 100

Belt sander TBSM 100



Fig.: TBSM 100

Standard equipment

- ▶ Compact, powerful machine
- ▶ Suitable for all grinding and deburring work
- ▶ Integrated EMERGENCY STOP button
- ▶ Connecting cable with two-pin earthed plug
- ▶ Low noise level
- ▶ Under-voltage release
- ▶ 1 grinding belt grain 80
- ▶ Suction piece Ø 35 mm
- ▶ Belt cover
- ▶ Fixed stop
- ▶ 12-months warranty for single-shift operation

Accessories

- ▶ Graphite coating 310 x 105 mm
Order number 371.764
- ▶ Grinding belt: 1,220 x 100 mm, 5 pieces, grain 40
Order number 371.765
- ▶ Grinding belt: 1,220 x 100 mm, 5 pieces, grain 60
Order number 371.766
- ▶ Grinding belt: 1,220 x 100 mm, 5 pieces, grain 80
Order number 371.767
- ▶ Grinding belt: 1,220 x 100 mm, 5 pieces, grain 100
Order number 371.768
- ▶ Grinding belt: 1,220 x 100 mm, 5 pieces, grain 120
Order number 371.769
- ▶ Machine stand
Height 792 mm
Order number 371.762

Technical data

TBSM 100

Belt length (mm)	1,220
Belt width (mm)	100
Surface grinding area (mm)	310 x 100
Belt speed (m/sec)	19
Weight (kg)	27
Motor three-phase current, 1 x 230 V (kW)	0.75
Machine dimensions without VP (mm)	650 x 380 x 260
Machine dimensions with VP (mm)	700 x 400 x 300
Order number	371.760

Belt
sander
BSM 75
BSM 75 A
BSM 75 A pol.



AVAILABLE
IMMEDIATELY! **to go**

Fig.: BSM 75

Standard equipment

- ▶ High-quality construction
- ▶ The drive roller is cyclical (self-centering grinding belt)
- ▶ Completely vulcanised contact roll for the longest lifetime and best smoothness
- ▶ Changing the grinding belt does not require any tools and is therefore a faster and simple process
- ▶ Stepless height adjustment for optimum setup of the belt sander 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 burning to the greatest extent possible
- ▶ Model equipped with suction system with robust and flexible suction hoses available
- ▶ Circuit breaker with CEE industrial connector incl. phase inverter
- ▶ Motor brake (except BSM 75 A pol)
- ▶ Incl. grinding belt grain 60
- ▶ Dust bag (only with suction system)
- ▶ 5-year warranty on the drive motor for single-shift operation

Accessories

- ▶ Connecting cable with CEE plug (3 m)
Order number 488.761
- ▶ Suction hose
(Length: 1.50 m, overall length in 2 parts)
Order number 374.040
- ▶ Graphite coating 75 x 620 mm
Order number 374.042
- ▶ Dust bag
Order number 371.055
- ▶ Spark guide plate BSM 75
Order number 374.071
- ▶ Grinding belt: 2,000 x 75 mm, 5 pieces, grain 40
Order number 371.150
- ▶ Grinding belt: 2,000 x 75 mm, 5 pieces, grain 60
Order number 371.151
- ▶ Grinding belt: 2,000 x 75 mm, 5 pieces, grain 80
Order number 371.152
- ▶ Grinding belt: 2,000 x 75 mm, 5 pieces, grain 100
Order number 371.153
- ▶ Grinding belt: 2,000 x 75 mm, 5 pieces, grain 120
Order number 371.154
- ▶ Grinding belt for steel and grey cast iron:
2,000 x 75 mm, 5 pieces, grain 40
Order number 371.824

Technical data

Belt length (mm)	2,000
Belt width (mm)	75
Surface grinding area (mm)	600
Colour (RAL)	9007
Machine dimensions without VP (mm)	1,100 x 550 x 1,035
Machine dimensions with VP (mm)	800 x 600 x 1,450

BSM 75

Belt speed (m/s)	30
Motor three-phase current, 400 V (kW)	3.75
Suction output (m³/h)	–
Suction motor (kW)	–
Weight (kg)	80
Order number	374.000

BSM 75 A

Belt speed (m/s)	30
Motor three-phase current, 400 V (kW)	3.75
Suction output (m³/h)	approx. 630
Suction motor (kW)	0.37
Weight (kg)	90
Order number	374.001

BSM 75 A pol.

Belt speed (m/s)	15/30
Motor three-phase current, 400 V (kW)	3.0/3.75
Suction output (m³/h)	approx. 630
Suction motor (kW)	0.37
Weight (kg)	105
Order number	374.002

Additional accessories from Page 100

- ▶ Grinding belt for steel and grey cast iron:
2,000 x 75 mm, 5 pieces, grain 60
Order number 371.825
- ▶ Grinding belt for steel and grey cast iron:
2,000 x 75 mm, 5 pieces, grain 80
Order number 371.826
- ▶ Grinding belt for steel and grey cast iron:
2,000 x 75 mm, 5 pieces, grain 120
Order number 371.827

▶ **to go ... CAN BE SUPPLIED STRAIGHT AWAY!**

BSM 75 / BSM 75 A

Belt
sander
BSM 150
BSM 150 A
BSM 150 A pol.



AVAILABLE IMMEDIATELY! **to go**



Fig.: BSM 150 A with suction system

Fig.: BSM 150 A Pol with option

Standard equipment

- ▶ High-quality construction
- ▶ The drive roller is cyclical self centering grinding belt
- ▶ Completely vulcanised contact roll for the longest lifetime and best smoothness
- ▶ Changing the grinding belt does not require any tools and is therefore a faster and simple process
- ▶ Stepless height adjustment for optimum setup of the belt sander 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 burning to the greatest extent possible
- ▶ Model equipped with suction system with robust and flexible suction hoses available
- ▶ Circuit breaker with CEE industrial connector incl. phase inverter
- ▶ Motor brake (except BSM 150 A pol)
- ▶ Incl. grinding belt grain 60
- ▶ Dust bag (only for models with suction system)
- ▶ 5-year warranty on the drive motor for single-shift operation

Accessories

- ▶ Connecting cable with CEE plug (3 m)
Order number 488.761
- ▶ Suction hose
(Length: 1.50 m, overall length in 2 parts)
Order number 374.040
- ▶ Graphite coating 150 x 620 mm
Order number 374.043
- ▶ Dust bag
Order number 371.055
- ▶ Spark guide plate BSM 150
Order number 374.070
- ▶ Grinding belt: 2,000 x 150 mm, 5 pieces, grain 40
Order number 371.125
- ▶ Grinding belt: 2,000 x 150 mm, 5 pieces, grain 60
Order number 371.126
- ▶ Grinding belt: 2,000 x 150 mm, 5 pieces, grain 80
Order number 371.127
- ▶ Grinding belt: 2,000 x 150 mm, 5 pieces, grain 100
Order number 371.128
- ▶ Grinding belt: 2,000 x 150 mm, 5 pieces, grain 120
Order number 371.129
- ▶ Grinding belt for steel and grey cast iron:
2,000 x 150 mm, 5 pieces, grain 40
Order number 371.828
- ▶ Grinding belt for steel and grey cast iron:

Technical data

Belt length (mm)	2,000
Belt width (mm)	150
Surface grinding area (mm)	600
Colour (RAL)	9007
Machine dimensions without VP (mm)	1,100 x 550 x 1,035
Machine dimensions with VP (mm)	800 x 600 x 1,450

BSM 150

Belt speed (m/s)	30
Motor three-phase current, 400 V (kW)	3.75
Suction output (m³/h)	–
Suction motor (kW)	–
Weight (kg)	90
Order number	374.020

BSM 150 A

Belt speed (m/s)	30
Motor three-phase current, 400 V (kW)	3.75
Suction output (m³/h)	approx. 630
Suction motor (kW)	0.37
Weight (kg)	100
Order number	374.021

BSM 150 A pol.

Belt speed (m/s)	15/30
Motor three-phase current, 400 V (kW)	3.0/3.75
Suction output (m³/h)	approx. 630
Suction motor (kW)	0.37
Weight (kg)	105
Order number	374.022

Additional accessories from Page 100

2,000 x 150 mm, 5 pieces, grain 60
Order number 371.829

- ▶ Grinding belt for steel and grey cast iron:
2,000 x 150 mm, 5 pieces, grain 80
Order number 371.830

- ▶ Grinding belt for steel and grey cast iron:
2,000 x 150 mm, 5 pieces, grain 120
Order number 371.831

▶ **to go ... CAN BE SUPPLIED STRAIGHT AWAY!**

BSM 150 / BSM 150 A

Brush deburring machine BEM 250 Plus



AVAILABLE
IMMEDIATELY! **to go**

Fig.: BEM 250 Plus

Standard equipment

- ▶ Robust industrial three-phase motor
- ▶ Adjustable eye protection
- ▶ Easily adjustable sliding unit for brush readjustment to the workpiece support
- ▶ Combined workpiece support both for round material (prism), flat and rectangular profiles (movable)
- ▶ Movable cover plate to adapt opening to material size
- ▶ Ø 80 mm suction piece with lid (for connection to external suction system)
- ▶ Machine colour:
 - Machine body RAL 7035
 - Side cover: RAL 7005
- ▶ 1 set of machine feet (4 pieces) with levelling screw
- ▶ 1 round deburring brush 250 x 60 / 0.35 mm steel wire corrugated
- ▶ Connecting cable with CEE plug
- ▶ Incl. operating tool
- ▶ 12-months 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 number 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 number 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 number 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 number 373.179

More 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 size (mm)	500 x 560 x 1250
Order number	373.150

Brush deburring machine BEM 250 Pro



AVAILABLE
IMMEDIATELY! **to go**

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 settings to achieve the required speed (600-2,700 1/min)
- ▶ For deburring pipes and profiles (max. material size horizontal/vertical) 120 mm
- ▶ Settable and fixable tool support height to fit the material
- ▶ Lockable and arrestable hand wheel for brush setting to the tool support
- ▶ Easy removable drawer for dust residues
- ▶ Robust sheet steel housing construction with preparation (opening) for connection to an external suction system
- ▶ Easy brush change through easy accessible foldable flaps
- ▶ Machine colour:
 - Machine body RAL 7035
 - Side cover: RAL 7005
- ▶ 1 set of machine feet (4 pieces) with levelling screw
- ▶ 3 round deburring brushes 250 x 60 / 0.35 mm steel wire corrugated
- ▶ Connecting cable with CEE plug
- ▶ Incl. operating tool
- ▶ 12-months 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 number 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 number 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 number 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 number 373.179

More 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 size (mm)	680 x 1,200 x 1,380
Order number	373.155

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

Accessories / spare parts

Wall bracket



Order number 315.035

Complete spark arrest protective glass

with holder (1 piece)
for **BSM 75**



Order number 374.011

Complete spark arrest protective glass

with holder (2 pieces)
for **TS 150 – TS 175**



Order number 315.311

Complete spark arrest protective glass

with holder (1 piece)
for **BSM 150**



Order number 374.012

Complete spark arrest protective glass

with holder (2 pieces)
for **TS 200, TS 250 and
TSB 250**



Order number 315.312

Complete contact wheel

(from construction
year 2014)
for **BSM 75**



Order number 374.032

Complete spark arrest protective glass

with holder (2 pieces)
for **TS 300**



Order number 315.313

Complete contact wheel

(from construction
year 2014)
for **BSM 150**



Order number 374.033

Dust bag

With suction system
for **BSM**



Order number 371.055

Suction hose

With suction system
for **BSM**



Order number 374.040

Note:

In order to allow us to process your spare parts request as quickly as possible,
please keep the **machine number** and the **machine type** at hand!



Advice via WhatsApp
It couldn't be easier
Phone: +49 (162) 18 54 000



Sawing contents

Metal band saws	Band saw band 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	104
HBS 250 A	2,910 x 27 x 0.9	250	320 x 190	240 x 240	106
HBS 250 HA	2,910 x 27 x 0.9	250	320 x 190	240 x 240	108
HBS 350 HA	4,780 x 34 x 1.1	350	510 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 350 ANC	4,780 x 34 x 1.1	350	510 x 350	350 x 350	114
HBS 350 SANC	4,780 x 34 x 1.1	350	420 x 350	350 x 350	116
HBS 450 SANC	6,020 x 41 x 1.3	450	520 x 450	450 x 450	118
VBS 400 Plus	3,600 x 13 x 0.9		400 x 390		120

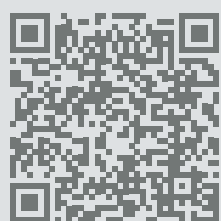
Metal circular saw	Saw blade Ø mm	○* at 0° mm	□* at 0° mm	□* at 0° mm	Page
KS 315 M	315 x 32	95	100 x 70	80	122

Portable metal band saws	Band saw band 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	124

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

Explanation of abbreviations

Manual lowering (handle)	MA	Automatic NC	ANC	Vertical band saw	VBS
Lowering (Hydraulic cylinder)	A	Column-guided automatic NC	SANC	Circular saw	KS
Semi-automatic	HA	High-performance band saw	HBS	Portable band saw	PBS



**Sawing
technology**

FLOTT

Metal band saw

HBS 225 A



AVAILABLE
IMMEDIATELY! **to go**



Precise guiding
The saw band is guided precisely using sanded carbide plates



Saw band break monitoring
The saw band tension is fitted with a saw band tension and saw band monitoring device



Round supporting table
The machine has a supporting table that rotates along with mitre cuts. This means that there are no recesses



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



Powered chip removal brush

Standard equipment

- ▶ New saw concept with lots of standards – for all workshops
- ▶ 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 band tensioning with electrical blade break monitoring system
- ▶ Quick-change vice, sliding
- ▶ Hydraulic saw frame lowering with fast-action function (continuous control)
- ▶ Electric coolant pump
- ▶ Precision carbide saw band guides, sanded (adjustable)
- ▶ Large, round supporting table, rotates along with mitre cuts, scaled mitre angle readout
- ▶ Easily removable chip collection container
- ▶ Material stop 500 mm with scale
- ▶ Incl. saw band combination toothing 4/6
- ▶ Machine colour:
 - Saw frame RAL 7035,
 - Machine body RAL 7005
- ▶ 12-months warranty for single-shift operation

Special equipment

- ▶ Laser line for cutting
Order number 570.172
- ▶ Micro spraying system
Order number 570.170
- ▶ LED work light
Order number 570.174

Accessories

- ▶ Band tension measurement device with dial indicator (Flottomat-BS)
Order number 570.175
- ▶ Connection L-SR (steel coil), left, 330 mm wide (incl. fastening set)
Order number 570.176
- ▶ Connection L-SR (steel coil), right, 330 mm wide (incl. fastening set)
Order number 570.177
- ▶ Roller conveyor L-SR (steel coil), 330 mm wide, basic version 2,000 mm, 150 kg/m
Order number 570.178
- ▶ Roller conveyor L-SR (steel coil), 330 mm wide, basic version 3,000 mm, 150 kg/m
Order number 570.179

Technical data

HBS 225 A

Motor three-phase current, 400 V, pole-changeable (kW)	1.1/1.5
Saw band size (mm)	2,720 x 27 x 0.9
Band wheels Ø (mm)	300
Cutting speed (m/min)	40/80
Vice span width (mm)	275
Working height (mm)	978
Machine dimension (mm)	1,150 x 1,588 x 1,477
Weight (kg)	370
Order number	570.050
Additional accessories	From Page 126

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) saw band ¹

Order number	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 1 Additional saw band on request

- ▶ Extension roller conveyor L-SR (steel coil), 2,000 mm, 150 kg/m
Order number 570.180
- ▶ Extension roller conveyor L-SR (steel coil), 3,000 mm, 150 kg/m
Order number 570.181
- ▶ Adjustable vertical rollers
Order number 570.190
- ▶ Adjustable vertical rollers
Order number 570.188

FLOTT

Metal band saw

HBS 250 A



AVAILABLE
IMMEDIATELY! **to go**



Pistol for rinsing the chips
(optional)



Roller conveyor
with vertical rollers
(accessory)

Standard equipment

- ▶ High-performance band saw machine 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 motor (cylindrical gear) for all requirements (frequency-regulated)
- ▶ Chip removal brush, rotating
- ▶ Precisely sanded carbide saw band guides, adjustable
- ▶ Quick-change vice, sliding
- ▶ Large, heavy, round supporting table, rotates along with mitre cuts with the fixed cutting channel, scaled mitre readout
- ▶ Mitre settings and clamping are manual
- ▶ Removable chip collection trough
- ▶ Electric coolant pump
- ▶ Material stop 500 mm with scale
- ▶ Including one saw band with combination toothing 4/6
- ▶ Machine colour:
 - Saw frame RAL 7035,
 - Machine body RAL 7005
- ▶ 12-months warranty for single-shift operation

Special equipment

- ▶ Chip rinsing pistol
Order number 570.110
- ▶ Laser line for cutting
Order number 570.172
- ▶ Micro spraying system
Order number 570.170
- ▶ LED work light
Order number 570.174

Accessories

- ▶ Band tension measurement device with dial indicator (Flottomat-BS)
Order number 570.175
- ▶ Connection L-SR (steel coil), left, 330 mm wide (incl. fastening set)
Order number 570.282
- ▶ Connection L-SR (steel coil), right, 330 mm wide (incl. fastening set)
Order number 570.281
- ▶ Roller conveyor L-SR (steel coil), 330 mm wide, basic version 2,000 mm, 150 kg/m
Order number 570.178
- ▶ Roller conveyor L-SR (steel coil), 330 mm wide, basic version 3,000 mm, 150 kg/m
Order number 570.179




Technical data

HBS 250 A

Motor three-phase current, 400 V, frequency-regulated (kW)	1.5
Saw band size (mm)	2,910 x 27 x 0.9
Band wheels Ø (mm)	325
Cutting speed (m/min)	20-120
Vice span width (mm)	320
Working height (mm)	760
Machine dimension (mm)	1,480 x 1,700 x 2,000
Weight (kg)	390
Order number	570.005

Additional accessories From Page 126

Sawing area

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

HSS Bi-metal (M42) saw band ¹

Order number	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 1 Additional saw band on request

- ▶ Extension roller conveyor L-SR (steel coil), 2,000 mm, 150 kg/m
Order number 570.180
- ▶ Extension roller conveyor L-SR (steel coil), 3,000 mm, 150 kg/m
Order number 570.181
- ▶ Adjustable vertical rollers
Order number 570.190
- ▶ Fixed vertical rollers
Order number 570.188

FLOTT

Metal band saw

HBS 250 HA



AVAILABLE
IMMEDIATELY! **to go**



Mitre display



Saw band guide
made from carbide



Laser line for cutting
(optional)



LED light
for the working area
(optional)



Pistol for rinsing the chips
(optional)

Standard equipment

- ▶ Fully hydraulic lowering and lifting system for the saw frame
- ▶ Switches off after end of cutting, saw arm guided back to the starting position
- ▶ Torsion-resistant saw frame made from cast steel (multiple ribs)
- ▶ Hydraulic short-stroke cylinder for vice
- ▶ Precisely sanded carbide saw band guides, adjustable
- ▶ Electric coolant pump
- ▶ Manual band tensioning with display, including electrical saw band 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, scaled
- ▶ Material stop 500 mm with scale
- ▶ Incl. saw band combination toothing 4/6
- ▶ Machine colour:
 - Saw frame RAL 7035,
 - Machine body RAL 7005
- ▶ 12-months warranty for single-shift operation

Special equipment

- ▶ Chip rinsing pistol
Order number 570.110
- ▶ Laser line for cutting
Order number 570.172
- ▶ Micro spraying system
Order number 570.170
- ▶ LED work light
Order number 570.174

Accessories

- ▶ Band tension measurement device with dial indicator (Flottomat-BS)
Order number 570.175
- ▶ Connection L-SR (steel coil), left, 330 mm wide (incl. fastening set)
Order number 570.282
- ▶ Connection L-SR (steel coil), right, 330 mm wide (incl. fastening set)
Order number 570.281
- ▶ Roller conveyor L-SR (steel coil), 330 mm wide, basic version 2,000 mm, 150 kg/m
Order number 570.178
- ▶ Roller conveyor L-SR (steel coil), 330 mm wide, basic version 3,000 mm, 150 kg/m
Order number 570.179




Technical data

HBS 250 HA

Motor three-phase current, 400 V, frequency-regulated (kW)	1.5
Saw band size (mm)	2,910 x 27 x 0.9
Band wheels Ø (mm)	325
Cutting speed (m/min)	20-120
Vice span width (mm)	320
Working height (mm)	760
Machine dimension (mm)	1,480 x 1,700 x 2,000
Weight (kg)	390
Order number	570.010

Additional accessories From Page 126

Sawing area

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

HSS Bi-metal (M42) saw band ¹

Order number	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 1 Additional saw band on request

- ▶ Extension roller conveyor L-SR (steel coil), 2,000 mm, 150 kg/m
Order number 570.180
- ▶ Extension roller conveyor L-SR (steel coil), 3,000 mm, 150 kg/m
Order number 570.181
- ▶ Adjustable vertical rollers
Order number 570.190
- ▶ Fixed vertical rollers
Order number 570.188

FLOTT

Metal band saw

HBS 350 HA



Pistol for rinsing 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 band tension even while
the machine is in operation
(standard)

Standard equipment

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

Special equipment

- ▶ Chip rinsing pistol
Order number 570.110
- ▶ Laser line for cutting
Order number 570.109
- ▶ Hydraulic bundle tensioning device
Order number 570.107
- ▶ Clamping pressure regulation for vice
Order number 570.076
- ▶ Material stop 500 mm (measuring scale)
Order number 570.268

Accessories




- ▶ Connection T-SR (steel coil), left, 540 mm wide (incl. fastening set)
Order number 570.111
- ▶ Connection T-SR (steel coil), right, 540 mm wide (incl. fastening set)
Order number 570.112
- ▶ Roller conveyor T-SR (steel coil), 540 mm wide, basic version 2,000 mm, 600 kg/m
Order number 570.113

Technical data

HBS 350 HA

Motor three-phase current, 400 V, frequency-regulated (kW)	3
Saw band size (mm)	4,780 x 34 x 1.1
Band wheels Ø (mm)	450
Cutting speed (m/min)	20-120
Vice span width, full-lift cylinder (mm)	510
Working height (mm)	761
Machine dimension (mm)	2,568 x 1,070 x 1,500
Weight (kg)	710
Order number	570.525
Additional accessories	From Page 126

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) saw band ¹

Order number	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 1 Additional saw band on request

- ▶ Roller conveyor T-SR (steel coil), 540 mm wide, basic version 3,000 mm, 600 kg/m
Order number 570.114
- ▶ Extension roller conveyor T-SR (steel coil), 2,000 mm, 600 kg/m
Order number 570.115
- ▶ Extension roller conveyor T-SR (steel coil), 3,000 mm, 600 kg/m
Order number 570.116
- ▶ Adjustable vertical rollers
Order number 570.190
- ▶ Adjustable vertical rollers
Order number 570.188

FLOTT

Metal band saw

HBS 450 HA



Pistol for rinsing 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 band tension even while
the machine is in operation
(standard)

Standard equipment

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

Special equipment

- ▶ Laser line for cutting
Order number 570.109
- ▶ Clamping power regulation for vice
Order number 570.076
- ▶ Material stop 500 mm (measuring scale)
Order number 570.269
- ▶ Hydraulic Bundle tensioning device
Order number 570.066

Accessories




- ▶ Connection T-SR (steel coil), left, 640 mm wide (incl. fastening set)
Order number 570.067
- ▶ Connection T-SR (steel coil), right, 640 mm wide (incl. fastening set)
Order number 570.068
- ▶ Roller conveyor T-SR (steel coil), 640 mm wide, basic version 2,000 mm, 600 kg/m
Order number 570.069

Technical data

HBS 450 HA

Motor three-phase current, 400 V, frequency-regulated (kW)	3
Saw band size (mm)	5,200 x 34 x 1.1
Band wheels Ø (mm)	480
Cutting speed (m/min)	20-120
Vice span width, full-lift cylinder (mm)	610
Working height (mm)	781
Machine dimension (mm)	2,780 x 1,440 x 1,560
Weight (kg)	800
Order number	570.525
Additional accessories	From Page 126

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

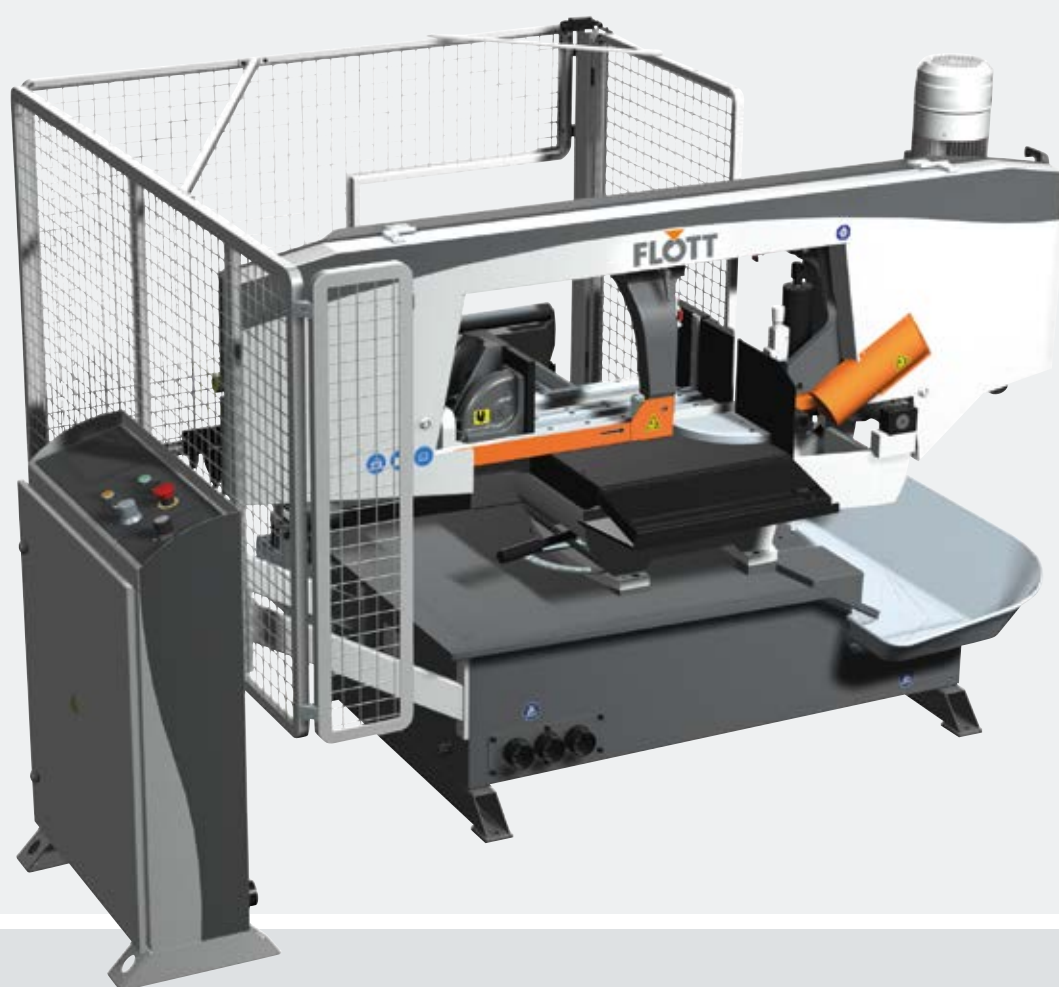
HSS Bi-metal (M42) saw band ¹

Order number	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 1 Additional saw band on request

- ▶ Roller conveyor T-SR (steel coil), 640 mm wide, basic version 3,000 mm, 600 kg/m
Order number 570.070
- ▶ Extension roller conveyor T-SR (steel coil), 2,000 mm, 600 kg/m
Order number 570.071
- ▶ Extension roller conveyor T-SR (steel coil), 3,000 mm, 600 kg/m
Order number 570.080
- ▶ Adjustable vertical rollers
Order number 570.083
- ▶ Fixed vertical rollers
Order number 570.084

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 welding frame construction
- ▶ Control panel that can be freely positioned with a clear 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
- ▶ Residual material 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 sanded carbide saw band guides (adjustable)
- ▶ Clamping pressure regulation for vice
- ▶ Floating vice
- ▶ Band tension and saw band break monitoring system
- ▶ Easily removable chip collection trough
- ▶ Integrated coolant supply (30 l tank capacity)
- ▶ LED work light
- ▶ Incl. saw band combination toothing 4/6
- ▶ Machine colour:
 - Saw frame RAL 7035,
 - Machine body RAL 7005
- ▶ 12-months warranty for single-shift operation

Special equipment




- ▶ Hydraulic bundle tensioning device
Order number 570.064
- ▶ Hydraulic band tension display
Order number 570.065
- ▶ Micro spraying system 24 V
Order number 570.254
- ▶ Laser line for cutting
Order number 570.109

Technical data

HBS 350 ANC

Motor three-phase current, 400 V, frequency-regulated (kW)	3
Saw band size (mm)	4,780 x 34 x 1.1
Band wheels Ø (mm)	450
Cutting speed (m/min)	20-120
Vice span width (mm)	510
Working height (mm)	761
Machine dimension (mm)	2,440 x 2,880 x 1,540
Weight (kg)	950
Order number	570.025
Additional accessories	From Page 126

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) saw band ¹

Order number	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 1 Additional saw band on request

Accessories

- ▶ Connecting part T-SR, left (incl. fastening set)
Order number 570.284
- ▶ Connecting part T-SR, right (incl. fastening set)
Order number 570.112
- ▶ Roller conveyor T-SR (steel coil), 540 mm wide, basic version 2,000 mm, 600 kg/m
Order number 570.113
- ▶ Roller conveyor T-SR (steel coil), 540 mm wide, basic version 3,000 mm, 600 kg/m
Order number 570.114
- ▶ Extension roller conveyor T-SR (steel coil), 2,000 mm, 600 kg/m
Order number 570.115
- ▶ Extension roller conveyor T-SR (steel coil), 3,000 mm, 600 kg/m
Order number 570.116

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 free from clearance in a preloaded linear guide
- ▶ 3-side precision HM saw band guiding for optimum cutting results
- ▶ Band tension and saw band 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
- ▶ Residual material 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 using the limit 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 band combination toothing 4/6
- ▶ Machine colour:
 - Saw frame RAL 7035,
 - Machine body RAL 7005
- ▶ 12-months warranty for single-shift operation

Special equipment

- ▶ Saw feed speed display
Order number 570.063
- ▶ Micro spraying system 24 V
Order number 570.254
- ▶ Third coolant supply
Order number 570.173
- ▶ Chip rinsing pistol
Order number 570.110
- ▶ Hydraulic band tension display
Order number 570.065




Technical data

HBS 350 SANC

Motor three-phase current, 400 V, frequency-regulated (kW)	3
Saw band size (mm)	4,780 x 34 x 1.1
Band wheels Ø (mm)	450
Cutting speed (m/min)	20-120
Vice span width (mm)	420
Working height (mm)	780
Machine dimension (mm)	2,300 x 2,050 x 2,000
Weight (kg)	1,200
Order number	570.030

Additional accessories From Page 126

Sawing area

	0°
	350
	420 x 350
	350 x 350

HSS Bi-metal (M42) saw band ¹

Order number	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 1 Additional saw band on request

Accessories

- ▶ Connecting part X-SR, left (incl. fastening set)
Order number 570.255
- ▶ Roller conveyor X-SR (steel coil x 2 pieces), 450 mm wide, basic version 2,000 mm, 1,500 kg/m
Order number 570.256
- ▶ Roller conveyor X-SR (steel coil x 3 pieces), 450 mm wide, basic version 3,000 mm, 1,500 kg/m
Order number 570.258
- ▶ Extension roller conveyor X-SR (steel coil x 2 pieces), 2,000 mm, 1,500 kg/m
Order number 570.260
- ▶ Extension roller conveyor X-SR (steel coil x 3 pieces), 3,000 mm, 1,500 kg/m
Order number 570.262

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 free from clearance in a preloaded 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 band guiding for optimum cutting results
- ▶ Synchronous powered chip removal brush
- ▶ Band tension and saw band 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
- ▶ Residual material 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 band combination toothing 3/4
- ▶ Machine colour:
 - Saw frame RAL 7035,
 - Machine body RAL 7005
- ▶ 12-months warranty for single-shift operation

Special equipment




- ▶ Saw feed speed display
Order number 570.063
- ▶ Micro spraying system 24 V
Order number 570.254
- ▶ Third coolant supplies
Order number 570.173
- ▶ Chip rinsing pistol
Order number 570.110

Technical data

HBS 450 SANC

Motor three-phase current, 400 V, frequency-regulated (kW)	4
Saw band size (mm)	6,020 x 41 x 1.3
Band wheels Ø (mm)	550
Cutting speed (m/min)	20-120
Vice span width (mm)	520
Working height (mm)	780
Machine dimension (mm)	2,890 x 2,055 x 2,030
Weight (kg)	1,600
Order number	570.035
Additional accessories	From Page 126

Sawing area

0°	
450	
520 x 450	
450 x 450	

HSS Bi-metal (M42) saw band ¹

Order number	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 1 Additional saw band on request

Accessories

- ▶ Connecting part X-SR, left (incl. fastening set)
Order number 570.136
- ▶ Roller conveyor X-SR (steel coil x 4 pieces), 550 mm wide, basic version 2,000 mm, 1,500 kg/m
Order number 570.139
- ▶ Roller conveyor X-SR (steel coil x 6 pieces), 550 mm wide, basic version 3,000 mm, 1,500 kg/m
Order number 570.141
- ▶ Extension roller conveyor X-SR (steel coil x 4 pieces), 2,000 mm, 1,500 kg/m
Order number 570.143
- ▶ Extension roller conveyor X-SR (steel coil x 6 pieces), 3,000 mm, 1,500 kg/m
Order number 570.145

FLOTT

Vertical band saw

VBS 400 Plus



Minimum quantity
lubrication
Order number 410.031



Longitudinal stop
Order number 410.030



Standard
height-adjustable
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
- ▶ Hard rubber coated tread
- ▶ Hardened and sanded guiding jaws
- ▶ LED workspace light
- ▶ Height-adjustable guide arm
- ▶ Machine colour RAL 7005 / RAL 7035
- ▶ 12-months warranty for single-shift operation

Special equipment

- ▶ Manually (with crank) movable table
Order number 410.032
- ▶ Saw band welding device
Order number 410.033
- ▶ Tilting table, 15° to the left, right, front and back
Order number 410.034
- ▶ Longitudinal stop für 90° cuts
Order number 410.030
- ▶ Minimal lubrication
Order number 410.031

Accessories

- ▶ Band saw band: 3,600 x 13 x 0.9 mm, 5 pieces, Tothing 14 teeth
Order number 410.040
- ▶ Band saw band: 3,600 x 13 x 0.9 mm, 5 pieces, Tothing 10/14 teeth
Order number 410.041
- ▶ Band saw band: 3,600 x 13 x 0.9 mm, 5 pieces, Tothing 6 teeth
Order number 410.042

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 band dimensions (mm)	3,600 x 13 x 0.9
Drive type	Three-phase motor, electronically regulated
Connected value (kW / A)	4.0 / 7.5
Machine dimension (mm)	2,225 x 1,120 x 770
Weight (kg)	465
Order number	410.010
With minimum quantity lubrication and longitudinal stop	
Order number	410.020
Additional accessories	From Page 126

FLOTT

Metal circular saw

KS 315 M



AVAILABLE
IMMEDIATELY! **to go**

Standard equipment

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

Accessories

- ▶ Steel underframe
(with VP - 250 x 720 x 840 mm)
Order number 560.830

Technical data

KS 315 M

Motor three-phase current, 400 V, pole-changeable (kW)	1.3/1.9
Vice span width (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 band (mm)	Ø 315 x 32
Order number	560.835

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 number	Dimensions in mm	Number of teeth	VPE
560.310	315 x 2.5 x 32	220	1
560.311	315 x 2.5 x 32	160	1

¹ different saw blades on request

FLOTT

Metal band saw

PBS 120 Plus



AVAILABLE
IMMEDIATELY! **to go**



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
- ▶ Carbide saw band guide made from carbide
- ▶ Cast iron vice with quick-release lever
- ▶ Optional a longitudinal stop
- ▶ Saw band cooling at the processing location
- ▶ 12-months warranty for single-shift operation

Accessories



- ▶ Underframe
Order number 570.508
- ▶ Coolant trough
Order number 570.509
- ▶ Material end stop 300 mm
Order number 570.510
- ▶ Conveyor adaptor left side, left
Order number 570.511
- ▶ Conveyor adaptor left side, right
Order number 570.512
- ▶ Roller conveyor, 2 m (150 kg/m)
Order number 570.507

Technical data

PBS 120 Plus

Band speed (m/min)	35/75
Band saw band size (mm)	1,620 x 13 x 0.65
Motor 230V (kW)	0.25 / 0.37
Machine dimension (mm)	810 x 530 x 450
Weight (kg)	38
Order number	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 band ¹

Order number	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 1 Additional saw band on request

Accessories

Roller conveyor system L-SR/K330

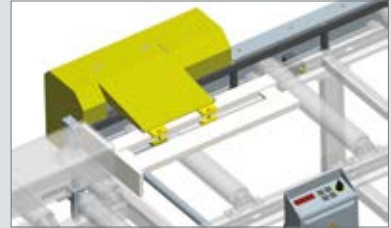
Highly flexible solution for handling tasks with medium-duty materials. Thanks to the unique profile system, the roller conveyors can be adapted to customer requirements very easily.



on request

Digital measuring stop

Digital material stop with handwheel and pneumatic brake



on request

Stop systems

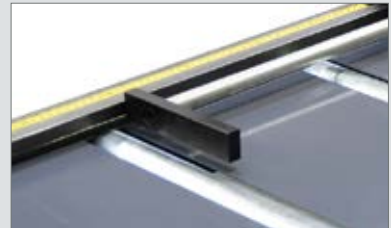
Stop systems – from simple, convenient, manual measurement units to NC-controlled modern measurement systems, including programme storage.



on request

Manual measuring stop

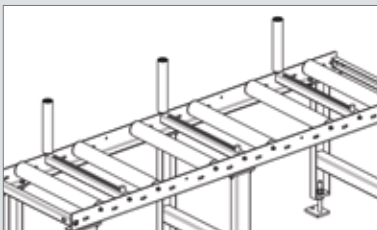
The contact surface for the stop ensures that the material can be fixed securely before cutting to the desired length.



on request

Roll-off safety

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 layers and bundles to be tensioned using an additional hydraulic vertical tensioning unit.



on request

Digital measuring stop – display

The stop carriage is manually adjusted, and the position is displayed on the digital display to 0.1 mm accuracy. The stop arm can be folded up to allow the material to pass through.



on request

Controlled material feed



on request

Vertical rollers

If the alignment is ideal, the vertical rollers ensure exact perpendicularity, simple work processes and safety for the operating personnel and persons in the vicinity.



on request

Safety systems for individual solutions
available on request



Advice via WhatsApp
It couldn't be easier
Phone: +49 (162) 18 54 000



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

Stable, fixed pipes made of high-quality plastic are used as rollers. Thanks to their characteristics, the processed material is protected against damage.



on request

Connecting parts

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



on request

Information contents

Topic	Page
FLOTT safety	130
Education and further training	131
FLOTT demonstration and training facilities	132
Area representatives	133
Service contacts	134
Extract from the Terms of Sale	135

AGQS ZERTIFIKAT

Die AGQS Qualitäts- und Umweltmanagement GmbH bestätigt, dass das Unternehmen

Amz Flott GmbH Werkzeugmaschinen
Vieringhausen 131
D-42857 Remscheid
an den Standorten

Vieringhausen 131, D-42857 Remscheid
Weststraße 42, D-42857 Remscheid

für den Geltungsbereich

Entwicklung, Marketing und Vertrieb sowie
Montage von Werkzeugmaschinen für die Bohr-,
Säge- und Schleifbearbeitung

ein Managementsystem eingeführt hat und aufrecht erhält.
Ein Audit, dokumentiert in einem Bericht, hat bestätigt,
dass dieses Managementsystem die Anforderungen der
folgenden Norm erfüllt:

DIN EN ISO 9001:2015



[Signature]
Remscheid, 2017-08-01

Audit 297-QMS-R30 AGQS Qualitäts- und Umweltmanagement GmbH
Zertifikat 297-QMS-08-03 Elberfelder Straße 77 · D-42853 Remscheid
Gültig ab 2017-07-28 Telefon +49 2191 438 24
Gültig bis 2020-07-27 Telefax +49 2191 438 26
Erstzertifizierung 2008-07-28 email@agqs.de





Information

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 must be mandatorily fitted with drilling protection with an electrical fuse



Standard electrical drilling protection



Drilling protection for long tools

Drilling protection for long tools

- ▶ Extra-large, telescopic drilling protection
- ▶ Standard EMERGENCY STOP button and spindle stop function

Vice [felix]

- ▶ Prism jaws with an indentation, as well as horizontal and vertical recesses for a broad range of work pieces
- ▶ Patented easy clamping via hexagon socket screw

Winner of the **Industrial Safety Award 2019**

FLOTT [felix]



Double grinding machine with brake, machine stands and suction system

- ▶ Standard with emergency off push button and optional foot operated emergency off push button
- ▶ The grinding wheels come to a standstill within just a few seconds



Double grinding machine



Belt sander

Belt grinder with brake

- ▶ The grinding comes to a standstill within just a few seconds
- ▶ Tool-free belt change



Advice via WhatsApp
It couldn't be easier
Phone: +49 (162) 18 54 000



You can find information about new releases and the current status of these new releases at: www.flott.de

Education and further training

FLOTT teaching Poster

This poster is used to explain how to work safely with the drilling machines, as well as the various constructions, work processes and clamping devices. Ideal for schools and training organisations. These teaching posters are delivered free of charge.

Drilling with FLOTT

Werkzeugmaschinen

Designs

TB bench drill with drilling table
TBZ bench drill without drilling table
SB column drill press

Drive systems

without transmission stepless mechanical drive with transmission
without transmission stepless electronic drive with transmission

Display and control panel

Digital display for drill depth, torque and feed rate display with control panel
Main switch
Emergency stop button
Drill depth fine tuning
Drill spindle
Drill machine protection with electrical locking device
Drilling table
Columns
Base plate (processed with T-slots)
Drill handle with push-button for turning the feed rate on/off
Crank for adjusting the table height
Gear rack

Work process

Metal, plastic

Clamping devices

For tools

Drilling safety

When drilling, always take care to ensure that you do not get drawn in to the machine

Extract from the FLOTT Programme
Drilling, grinding and sawing:

Arnz FLOTT GmbH
Werkzeugmaschinen

Vieringhausen 131
D-42857 Remscheid

www.flott.de · info@flott.de
Phone +49 2191/979-0 · Fax +49 2191/979-222

FLOTT demonstration and training facilities ●

Extensive and practice-oriented training and service – at its training centres which feature modern equipment, FLOTT 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 application-focused solutions for almost all areas of application.

Current training dates at www.flott.de.

Registration for the FLOTT newsletter is a convenient and fast way of being automatically notified of upcoming training dates and current activities at all training centres.

FLOTT service and support locations ●

A convenient and fast way of getting qualified service support. An obvious advantage of FLOTT machine tools.

Thanks to its extensive service network and professional, expert technicians, FLOTT provides support for any issues via its support locations, offering fast and efficient solutions and guaranteeing convenient processing of all service work and repairs.

Training centres

Remscheid

Arnz FLOTT GmbH
Werkzeugmaschinen
Administration
Vieringhausen 131
42857 Remscheid

Mr Wolschon
Phone: +49 2191 979-157
hj.wolschon@flott.de

Heusweiler

Arthur Martini GmbH
Schacht Dilsburg 5
66265 Heusweiler
Phone: +49 6806 9221-53
www.a-martini.com

Nuremberg

BFS GmbH
Meckenloher Straße 1
91126 Rednitzhembach
Phone: +49 9122 78550
www.bfs-maschinen.de



Area representatives

1 Hamburg

Holger Zutter e. K.
Industrial representatives
Phone: +49 40 3902066
hzutter.hh@gmail.com

FLOTT support:

Mr Wolschon
Phone: +49 2191 979-157
hj.wolschon@flott.de

2 Bielefeld

Vogt Industrie-
vertretungen GmbH
Phone: +49 521 443932

FLOTT support:

Mr Wolschon
Phone: +49 2191 979-157
hj.wolschon@flott.de

3 Individual support

Mr Picarra
Phone: +49 2191 979-150
Mobile: +49 163 8334507
humberto.picarra@flott.de

Mr Wolschon
Phone: +49 2191 979-157
hj.wolschon@flott.de

4 Seeheim-Jugenheim

Layer OHG
Phone: +49 6257 8696-0
info@layer-ohg.de

FLOTT support:

Mr Wächter
Phone: +49 2191 979-159
volker.waechter@flott.de

Export

FLOTT support:

Mr Wächter
Phone: +49 2191 979-159
volker.waechter@flott.de

Dr Becker
Phone: +49 2191 979-102
peter.becker@flott.de

Mr Schmidt
Phone: +49 2191 979-155
til.schmidt@flott.de

5 Nuremberg

BFS GmbH
Phone: +49 9122 78550
info@bfs-maschinen.de

FLOTT support:

Mr Dragano
Phone: +49 2191 979-153
toni.dragano@flott.de

6 Leinfelden-Echterdingen

Jürgen Krämer
Phone: +49 711 796476
j.kraemer.l-e@t-online.de

FLOTT support:

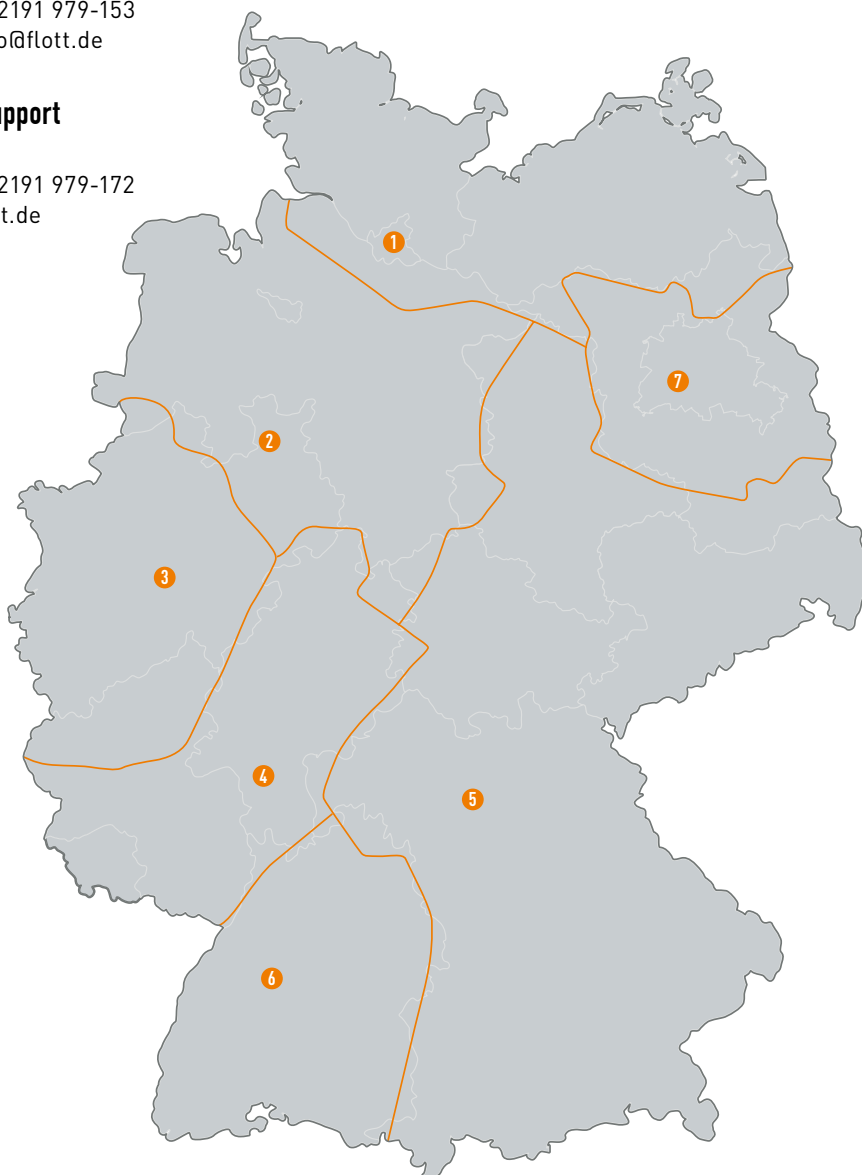
Mr Dragano
Phone: +49 2191 979-153
toni.dragano@flott.de

7 Individual support

Mr Arnz
Phone: +49 2191 979-172
jp.arnz@flott.de

FLOTT area representatives

Support and advice is always accessible. With its six area representatives across the country and its in-house service in Remscheid, FLOTT ensures availability of an efficient service network and optimum customer proximity.



FLOTT service

Our FLOTT team will be happy to help!



Advice via WhatsApp
It couldn't be easier
Phone: +49 (162) 18 54 000



FLOTT technical service

Winfried Breidenbach

Phone: +49 2191 46408-175
winfried.breidenbach@flott.de

Ulrich Brücher

Phone: +49 2191 46408-178
ulrich.bruecher@flott.de

Holger Paucke

Phone: +49 2191 46408-177
holger.paucke@flott.de

FLOTT spare parts service

Mareike Goerzen

Phone: +49 2191 46408-121
mareike.goerzen@flott.de

Lorena Tairi

Phone: +49 2191 46408-120
lorena.tairi@flott.de

The direct link
to your
service partner



Note:

In order to allow us to process your spare parts request as quickly as possible, please keep the **machine number** and the **machine type** at hand!

Extract from our Terms of Sale

- ▶ Delivery ex works, excluding packaging.
Shipping location: 42857 Remscheid
- ▶ Extra charges incurred for "seaworthy" packaging.
- ▶ Standard paint (One.component-paint as per RAL chart)
 - Series TB 10 Eco Plus up to 20 Plus
(Hood 7005 and base black RAL 9005)
 - Series from 23 Plus entirely in RAL 7005
 - Grinding machines RAL 9007
 - Saws: Saw frame RAL 7035,
Machine body RAL 7005
- ▶ Construction and dimensions are subject to change without notice 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, GB 50 MV Plus,
SB P50 STG MV, GB 70 MV Plus and BFM 40;
 - 12 months for single-shift operation here.
 - 12 months for grinding machines and saws
for single-shift operation from delivery, excluding
wear parts; 6 months for replacement parts
- ▶ Full Terms and Conditions at www.flott.de



Freight charges*

Freight table for Germany *

Guide values in EUR plus VAT and service costs
(transport insurance / tolls, P&P)

Updated 2019

Area post-code	up to 50 kg	up to 100 kg	up to 200 kg	up to 300 kg	up to 400 kg	up to 550 kg
2/3/6/7	55	75	90	125	155	205
0/1/8/9	60	80	125	140	165	215
4/5	50	65	80	105	135	185
*Export freight	on request					

Shipment with parcel service:

Double grinding machines up to TS 175,
except on machine stand

Forwarding companies

Administration fee in EUR plus VAT.

Updated 2019

Domestic	25
Foreign	50

Subject to change without notice. Errors excepted.

**High Quality –
made in Germany
since 1854.**



**Arnz FLOTT GmbH
Machine Tools**

Vieringhausen 131
42857 Remscheid | Germany
Phone +49 2191 979-0
Fax +49 2191 979-222
info@flott.de
www.flott.de



COBOTEC **20**
ENGINEERING | de experientia

 0213221238

 office@cobotec.ro

 www.cobotec.ro

 CATTED Business Park Chitila -
Hala 11 Soseaua Centura
Bucuresti, Km 62 Chitila Jud Ilfov
Cod Postal 077045



Advice via WhatsApp
It couldn't be easier
Phone: +49 (162) 18 54 000

