

ALZMETALL

we drive productivity

CLASSIC DRILLING MACHINES

CATALOG No. 72 valid from 01.01.2025



ABOUT ALZMETALL



ALZMETALL Germany



ALZMETALL Machine Tools (Taicang, China)

MACHINING CENTERS

ALZMETALL develops and manufactures CNC machining centres for 3-and 5-axis applications with torque-drive technology enabling 5-axis simultaneous machining.



ALZMETALL is a company with international reputation and worldwide activities. We have been the leader in the technology of drilling, milling and casting for more than seven decades. Our products have proven themselves a thousandfold in the general machine construction sector, in the aerospace industry, the automotive industry, in tooling and mold making as well as in the broad scene of medium-sized manufacturing companies.

We rely on the experience of more than 230,000 machines delivered. We focus on Precision, Performance and Quality of all of our products.

With our proper in-house ALZMETALL foundry, we process grey-cast iron and spheroidal grey-cast iron, not only for our own machines but also for machine tool builders in Germany and abroad.

In our open company culture, that drives innovation and results, we will always use cutting-edge technology as an added economic value for our customers.

With the development of the GS series we created and developed highly dynamic and extremely rigid machining centers according to our motto „**We drive productivity**“.

Since 2016 you will also find ALZMETALL as a sales and service company in China.

ALZMETALL Machine Tools (Taicang) Co., Ltd.
Dong Ting Building, Room 1612,
No 319, Middle Zheng He Road,
215400 Taicang, Jiangsu Province

DRILLING MACHINES

ALZMETALL is the market leader for drilling machines. This leading position has grown continuously since 1947, when the company began developing, producing and distributing industrial drilling machines in mass production, two years after it was founded. Particularly impressive is the large number of drilling machines that have been manufactured. Totalling over 210.000, they convince worldwide with their performance capabilities and leading technology.



Flexible production cell with pallet changer stations. In our production we are using machining centres from ALZMETALL.



WHAT MAKES ALZMETALL DRILLING MACHINES STAND OUT?



Advantage for our customers

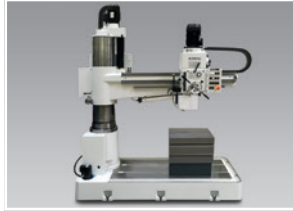
- ★ Extensive know-how in the field of casting technologies, derived from our own foundry, enables the unique column diameter design of our drilling machines (photo).
 - » Minimum opening bounce on the impact of drilling forces
 - » Verticality of the tool axis remains within approved DIN values
- ★ The unique mechanical connection of the drilling machine-head and the column guarantees the right angularity to the drilling table to the highest quality.
- ★ Continuous innovation and design transfer as a manufacturer of machining centers and special drilling and milling machines guarantees the most advanced drilling machines worldwide.

The standard in drilling includes:

- ★ **Stepless Spindle Speed Setting**
- ★ **Digital Spindle Speed Display**
- ★ **24 months Warranty**
- ★ **Exclusive Design**
- ★ **Spindle protection – electrically secured**



ALZMETALL applies the new European Directive for machinery 2006/42 / EC in force, since the beginning of 2009.



All photos with options

Table of Contents

TRAINING OPTIONS

NEW IN THE RANGE

ALZSTAR

The **START-UP-Range** for reduced budgets

AX

TOP-QUALITY drilling with complete options

AB

TRENDSSETTERS for high performance drilling. Unmatched and highly precise

ALZFLOW AB-FLOW

ALZFLOW, AB-FLOW, flowdrilling, chipless drilling

RADIAL

RADIAL for large and heavy parts

RFT

2-6 PRESETTED DRILLING STATIONS

Accessories

Special equipment

Training with ALZMETALL - Machines Examples of options	Automatic drill depth control, combination table, precision depth adjuster and fixed stop, belt technology, coolant device A, tapping, training contents	Page 6/7
Drilling machine vice ALZ 120/220	Clamping width up to 120/220 mm Jaw width 100/150 mm Hardened jaws Approximate weight 5/14 kg	Page 8
TFT Display with Touch Function	Touch Function	Page 9
Bench and Column Drilling Machines ALZSTAR 18/23/30/40	Drilling capacity 18/23/30/40 mm Morse Taper 2 / 3 / 4	Page 10/13
Bench and Column Drilling Machines AX 2/3/4	Drilling capacity 23/40/55 mm Morse Taper 2/3/4	Page 14/19
Column and Semi-Box Column Drilling Machines AB 26/34/40/50	Drilling capacity 30/40/50/60 mm Morse Taper 3/4	Page 20/25
Column and Semi-Box Column Drilling Machines ALZFLOW 30/AB-FLOW 40	Flowdrilling capacity 12/20 mm Morse Taper 3/4	Page 26/29
Radial Drilling Machines AB 30/R-1000; AB 30/R-1400	Drilling capacity 45/50 mm Morse Taper 4	Page 30/31
Multi-Head Drills RFT 20/1 RFT 2 / RFT 3	Drilling capacity 23 – 55 mm Morse Taper 2, 3, 4	Page 32
(Sliding) cross tables, vices, drill chucks, adapters, ejectors, reducers		Page 36/37
for all drilling machines: foot switches, machine tables, special lacquer etc./configuration help		Page 38

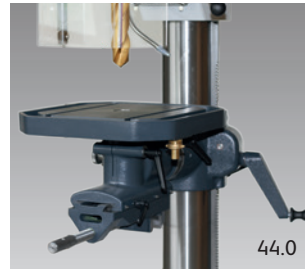
OPTIONS



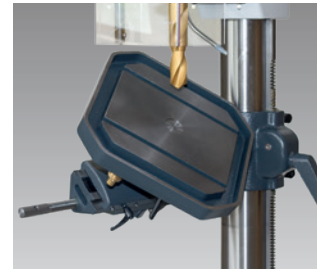
20.1



24.



44.0



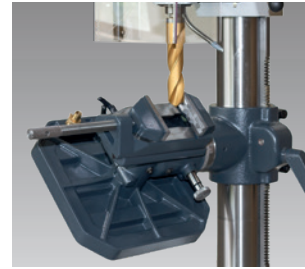
Tapping device

The tapping device upgrades these machines to a versatile and thus more economical application.

The attachment enables the rotation direction of the drilling spindle to be altered from clockwise to anticlockwise – at any drilling depth setting – and changes back to clockwise rotation automatically at the spindle starting position. The thread depth can be controlled either by using the depth stop or the pedal switch (shown).

Coolant supply-system A

The coolant supply-system A is integrated in the base of the drill press and fitted with coolant pump and motor overload protection switch, valves and fittings. (Not for HST versions)



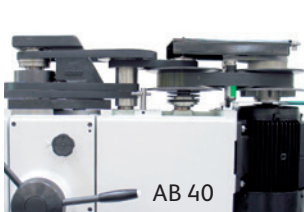
50.6



12.

Combined drilling table

The combined drilling table is particularly suitable for machining components, that need to be drilled at various angles.



AB 40



25.



50.6



12.

Belt technology

Stepless RPM speed setting through mechanical variators is a standard in ALZMETALL drilling machines. This photo is showing the AB 40/SV, n=70-4000 mechanical variator in combination with a two-step belt gear box (powerful low Rpm speeds and high speeds. Upto 4000 rpm)

Coolant supply-system B

The coolant supply-system attachment type B consists of a separate plastic container with capacity of 33 liters, supplied completely with motor overload protection switch and valves and fittings.

Micro drilling depth setting and fixed stop

The micro drilling depth setting provides quick and accurate drilling depth adjustments and/or drilling depth corrections.

LED lamp

We recommend this device for safe and more pleasant work.



37.3

Automated drill depth program

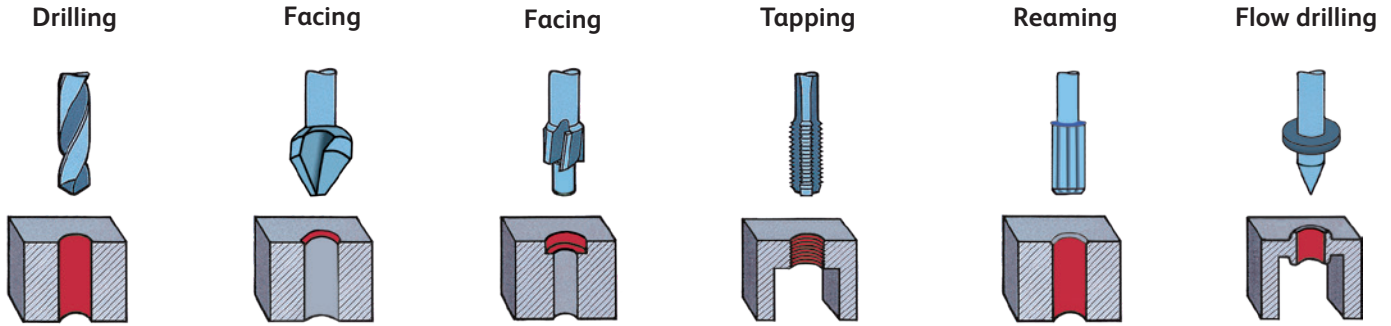
Easy and quick to enter

1. Digital depth read-out
2. Spindle start position/workpiece zero
3. Chip breaking interval
4. Final depth, total depth
5. Dwell time (Free cutting)
6. Zero point setting button
7. Function setting
8. Potentiometer/wheel
9. Digital speed display

Any prices are not applying to retrofit orders (accessories, options, spare/wear parts) or any assembly/modification works.

TRAINING WITH ALZMETALL-MACHINES – INVESTMENTS IN YOUR FUTURE

TRAINING CONTENTS



Apprenticeships

- Industrial mechanics
- Foundry mechanics
- Machining mechanics
- Mechatronics

Work techniques

- Preparing a workpiece (marking out/centrepunching)
- Clamping a workpiece
- Setting a drilling machine (cutting parameters, clamp)
- Inspect personal protection
- Inspect machine protection
- Work sequence – machining method
- Test – measure – control

Work safety

- Competent safety advices
- Specific safety systems (example: ROOM-EMERGENCY-OFF system)
- Spindle protection
- EMERGENCY-OFF switches
- Safety-checked auxiliary devices (drill chucks, vices)
- High quality manuals and documentations

Poster

with detailed representation of the machine components, for training workshops, for training and teaching purposes.

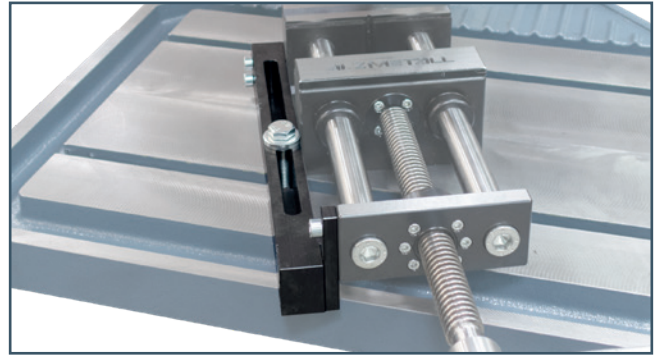
Price: 120,00 €



NEW IN THE RANGE – DRILLING MACHINE VICE ALZ 120/220



Basic version



with clamping bar for fixation

Technical characteristics

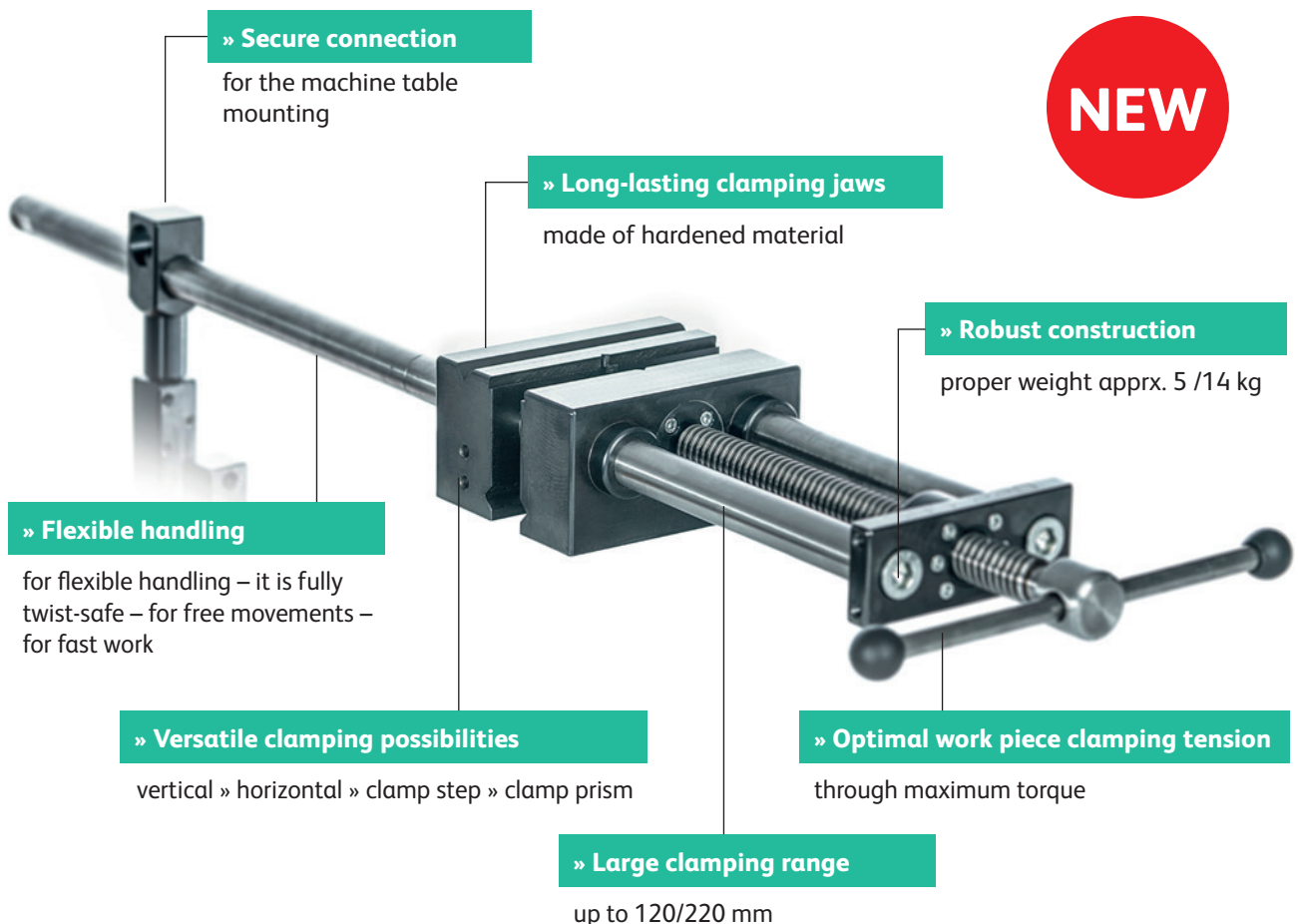
- Robust construction
- Simple installation
- Secure mounting
- Guide rod and clamp holder included
- Flexible handling – fully twist-safe – free moving - fast work piece positioning
- Wide clamping range
- Optimal work piece clamping
- Versatile clamping possibilities – vertical – horizontal – clamp step – clamp prism
- Long-lasting clamping jaws
- Option: clamping bar for fixation to the table

Technical details

- Clamping width up to 120/220 mm
- Jaw width 100/150 mm
- Hardened jaws
- Approximate weight 5/14 kg



The ALZ 220 is suitable for all machines with a column diameter **starting** 115 mm.
The ALZ 120 is suitable for all machines starting ALZTRONIC i14



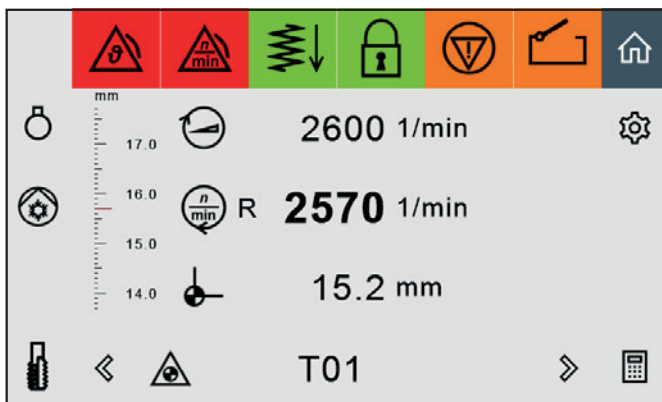
iTRONIC DRILLING MACHINES WITH TFT - LCD-DISPLAY WITH TOUCH FUNCTION

A separate iTRONIC - catalog 72i is available!

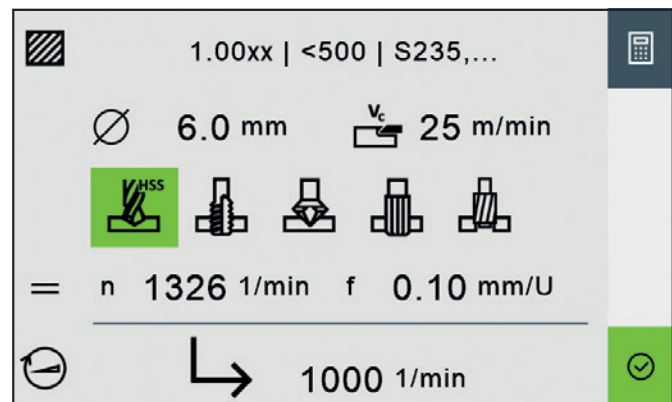


Added value with new iTRONIC Drilling Machines, STANDARDS INCLUDED

- Multi-Touch Display 5" or 7" with scratch-resistant glass
- Clear digits and good readability
- Simple and uniform menu navigation with pictograms
- Manual setting of the RPM value – nominal value
- RPM read out – actual value
- Drill depth read out with zero-setting (drill start)
- Virtual depth scale with synchron zero-setting
- Status indicators and warnings (safety)
- Main switch, lockable
- Right and left turn under protective control
- Control tension 24 V
- Service informations
- Language switch: DE/EN/FR/ES/IT/NL/RU
- Spindle brake function – only with ALZTRONIC (safety)
- Automatic RPM control with AB 40 iTRONIC and AB-FLOW 40 iTRONIC
- Adjustable Display-Timeout



Main screen



Technology calculator [option]

Added value with options

- Technology calculator in the display – The technology calculator is guiding operators through their machining task. Calculation of RPM speeds and advance speeds.
 - + Input of the tool diameter, cutting speed $V_c = \text{m/min}$
PLUS
Selection of the machining process
Drill – Tap – Countersink – Counterbore – Ream
OR
 - + Input of the tool diameter, selection of a material from a list
PLUS
 - + Selection of the machining process
Drill – Tap – Countersink – Counterbore – Ream
- The resulting RPM speed may be visualized in the main screen as a nominal value
- Maximum depth gauging control of the actual drill or counterbore depth
- Automatic drill depth control with programming functions (AB machines)
- LED light with switch functions
- Coolant device with switch functions
- Energy savings with automatic switch functions for light and coolant device [ALZSTAR, AX, AB iTRONIC]
- Foot switch and comfortable cross-lever switch for tapping devices (cross-lever switch only with AB machines)
- Automatic spindle stop
- Parts counter and Spindle total runtime

BENCH DRILLING MACHINES WITH TABLE HEIGHT ADJUSTMENT

Drilling capacity 18 mm

Photo with options



	Bench drilling machine ALZSTAR 18-T/S
Drilling capacity steel E 335 (St 60)	18 mm
Tapping performance steel E 335 (St 60)	M 12
Tapping performance cast iron EN-GJL-200 (GG 20)	M 14
Short spindle	MT 2
Z-travel of spindle	80 mm
Distance spindle to column	190 mm
Column diameter	65 mm
Table clamping area (width x depth)	300 x 240 mm
T-Slots, number x width x distance	2 x 12 x 80 mm
Distance spindle/table min./max.	75/357 mm
Table height adjustment	Crank
Base plate, clamping area (width x depth)	300 x 240 mm
T-Slots, number x width x distance	2 x 12 x 80 mm
Distance spindle / base plate min. /max.	437/437 mm
Feed	manual
Height of the machine without options approx.	840 mm
Net weight approx.	110 kg
Drive System	infinitely variable
Motor: n = 750 / 1500 rpm	0,37 / 0,55 kW
Spindle Rpm range	225-4300 rpm
Price of the machine without options	3.264,00 €

Standard Equipment

Main switch with Overload Protection Switch lockable
Reverse switch for tapping
Infinitely variable speed drive, mechanical variator
Protection class IP 54
Cable w/o plug, 2 m

Motor Isolation Class „F“ (155°)
Self-Locking Mushroom Button for Emergency-Off
Spindle protection electrically secured
Lacquer: DD-structured signal white RAL 9003, PANTONE 7545c, black.

OPTIONS

09.	Table/Bench , W x D x H 700 x 600 x 840 mm, Net weight approx. 48 kg, weight net. approx. 16 kg	1.064,00 €
12	LED machine light , adjustable angle, 230 V, IP 65	420,00 €
08	Packaging , disposable L x W x H ca. 800 x 600 x 1050 mm, packing weight approx. 10 kg	35,00 €
08.1	Packaging for the Table/Bench 09	50,00 €

BENCH DRILLING MACHINES WITH TABLE HEIGHT ADJUSTMENT

Drilling capacity 23 mm

Photo with options



	Bench drilling machine ALZSTAR 23-T/S
Drilling capacity steel E 335 (St 60)	23 mm
Tapping performance steel E 335 (St 60)	M 14
Tapping performance cast iron EN-GJL-200 (GG 20)	M 16
Short spindle	MT 2
Z-travel of spindle	100 mm
Distance spindle to column	250 mm
Column diameter	90 mm
Table clamping area (width x depth)	370 x 300 mm
T-Slots, number x width x distance	2 x 14 x 160 mm
Distance Spindle-Machine table (intermediate) min.max.	125 / 455 mm
Table height adjustment	Manual with crank
Base plate, clamping area (width x depth)	320 x 250 mm
T-Slots, number x width x distance	2 x 14 x 160 mm
Distance spindle / base plate min. /max.	625/625 mm
Feed	manual
Height of the machine without options approx.	1095 mm
Net weight approx.	155 kg
Drive System	infinitely variable
Motor: n = 750 / 1500 rpm	0,6 / 0,95 kW
Spindle Rpm range	225-4300 rpm
Price of the machine without options	5.847,00 €

Standard Equipment

Main switch lockable
Self-Locking Mushroom Button for Emergency-Off
Reverse switch for tapping
Overload Protection Switch
Infinitely variable speed drive, mechanical variator
Digital RPM Read-out

Motor Isolation Class „F“ (155°)
Protection class IP 54
Cable w/o plug, 2 m
Spindle protection electrically secured
Lacquer: DD-structured signal white RAL 9003, PANTONE 7545c, black.

OPTIONS

09.1	Table/Bench, L x W x H 750 x 700 x 840 mm (Net weight approx. 66 kg), package weight net. approx. 16 kg	1.249,00 €
12.	LED machine light, adjustable angle, 230 V, IP 65	420,00 €
25.	Coolant Attachment B, separate container (33 l), with overload-protected pump, check valve and accessories	545,00 €
08.	Packaging, disposable L x W x H 1100 x 800 x 1400 mm, weight net. approx. 45 kg	62,00 €
08.1	Packaging table 09.1	50,00 €

COLUMN DRILLING MACHINES

Drilling capacity 23/30 mm

Photo with options



	Column Drilling Machine ALZSTAR 23/S	Column Drilling Machine ALZSTAR 30/S
Drilling capacity steel E 335 (St 60)	23 mm	30 mm
Tapping performance steel E 335 (St 60)	M 14	M 16
Tapping performance Cast iron EN-GJL-200 (GG 20)	M 16	M 20
Short spindle	MT 2	MT 3
Z-travel of spindle	100 mm	140 mm
Distance spindle to column	250 mm	293 mm
Column diameter	90 mm	115 mm
Table clamping area (width x depth)	370 x 300 mm	514 x 360 mm
T-Slots, number x width x distance	2 x 14 x 160 mm	2 x 14 x 224 mm
Distance spindle/table min./max.	140/670 mm	132/724 mm
Feed	manual	manual
Height of the machine without options approx.	1770 mm	1790 mm
Net weight approx.	175 kg	260 kg
Drive System	infinitely variable	infinitely variable
Motor: n = 750 / 1500 rpm	0,6 / 0,95 kW	1,0 / 1,6 kW
Spindle Rpm range	225-4300 rpm	225-4300 rpm
Price of the machine without options	6.070,00 €	7.033,00 €
Motor: n = 750 / 1500 rpm	-	1,0/1,6 kW
Spindle Rpm range	-	100-1800 rpm
Price of the machine without options	-	7.308,00 €

Standard Equipment

Main switch lockable
Self-Locking Mushroom Button for Emergency-Off
Reverse switch for tapping
Overload Protection Switch
Infinitely variable speed drive, mechanical variator
Digital RPM Read-out

Motor Isolation Class „F“ (155°)
Protection class IP 54
Cable w/o plug, 2 m
Spindle protection electrically secured
Lacquer: DD-structured signal white RAL 9003, PANTONE 7545c, black.

OPTIONS

12.	LED machine light , adjustable angle, 230 V, IP 65	420,00 €
25.	Coolant Attachment B , separate container (33 l), with overload-protected pump, check valve and accessories	545,00 €
03.	Anchoring set	240,00 €
08.	Packaging disposable, L x W x H 1200 x 800 x 2100 mm. net weight approx. 75 kg	129,00 €

COLUMN DRILLING MACHINES

Drilling capacity 40 mm

Photo with options



	Column Drilling Machine ALZSTAR 40/S	Column Drilling Machine ALZSTAR 40/SV
Drilling capacity steel E 335 (St 60)	40 mm	40 mm
Tapping performance steel E 335 (St 60)	M 24	M 24
Tapping performance Cast iron EN-GJL-200 (GG 20)	M 30	M 30
Short spindle	MT 3	MT3
Z-travel of spindle	120 mm	120 mm
Distance spindle to column	293 mm	293 mm
Column diameter	115 mm	115 mm
Table clamping area (width x depth)	514 x 360 mm	514 x 360 mm
T-Slots, number x width x distance	2 x 14 x 224 mm	2 x 14 x 224 mm
Distance spindle/table min./max.	117/701 mm	117/701 mm
Feed	manual	0,10 + 0,20 mm/Rot.
Height of the machine without options approx.	1840 mm	1840 mm
Net weight approx.	270 kg	285 kg
Drive System	infinitely variable	infinitely variable
Motor: n = 1500 / 3000 rpm	1,45 / 1,9 kW	1,45 / 1,9 kW
Spindle Rpm range	160-2250 rpm	160-2250 rpm
Price of the machine without options	7.719,00 €	8.699,00 €

Standard Equipment

Main switch lockable
Self-Locking Mushroom Button for Emergency-Off
Reverse switch for tapping
Overload Protection Switch
Infinitely variable speed drive, mechanical variator
Digital RPM Read-out
Feed overload clutch (ALZSTAR 40/SV)

Motor Isolation Class „F“ (155°)
Protection class IP 54
Cable w/o plug, 2 m
Spindle protection electrically secured
Lacquer: DD-structured signal white RAL 9003, PANTONE 7545c, black.
Machine oil (ALZSTAR 40/SV)

OPTIONS

12.	LED machine light , adjustable angle, 230 V, IP 65	420,00 €
25.	Coolant Attachment B , separate container (33 l), with overload-protected pump, check valve and accessories	545,00 €
47.1.2	Short spindle MT4	396,00 €
03.	Anchoring set	240,00 €
08.	Disposable packaging , L x B x H 1200 x 800 x 2100 mm. net weight approx. 75 kg	129,00 €

BENCH AND COLUMN DRILLING MACHINES

Drilling capacity 23 mm

Photo with options



	Bench drilling machine AX 2-T/S	Column drilling machine AX 2/S
Drilling capacity steel E 335 (St 60)	23 mm	23 mm
Tapping performance steel E 335 (St 60) <i>(Option 20.0 or 20.1 required)</i>	M 14	M 14
Tapping performance Cast iron EN-GJL-200 (GG 20) <i>(Option 20.0 or 20.1 required)</i>	M 16	M 16
Short spindle	MT 2	MT 2
Z-travel of spindle	100 mm	100 mm
Distance spindle to column	250 mm	250 mm
Column diameter	90 mm	90 mm
Table clamping area (width x depth)	370 x 300 mm	370 x 300 mm
T-Slots, number x width x distance	2 x 14 x 160 mm	2 x 14 x 160 mm
Distance spindle/table min./max.	125/455 mm	140/670 mm
Table height adjustment	Crank	Crank
Base plate, clamping area (width x depth)	320 x 250 mm	-
T-Slots, number x width x distance	2 x 14 x 160 mm	-
Distance spindle / base plate min. /max.	625/625 mm	-
Feed	manual	manual
Height of the machine without options approx.	1095 mm	1770 mm
Net weight approx.	160 kg	180 kg
Drive System	infinitely variable	infinitely variable
Motor: n = 750 / 1500 rpm	0,6 / 0,95 kW	0,6 / 0,95 kW
Spindle Rpm range	125-2400 rpm	125-2400 rpm
Price of the machine without options	6.427,00 €	6.600,00 €
Motor: n = 750 / 1500 rpm	0,6 / 0,95 kW	0,6 / 0,95 kW
Spindle Rpm range	225-4300 rpm	225-4300 rpm
Price of the machine without options	6.427,00 €	6.600,00 €

Drilling heads (height adjustable) for Multi-Head Systems RFT page 33

Standard Equipment

Main switch lockable
Motor heat-protected
Self-Locking Mushroom Button for Emergency-Off
Right rotation through protective control
Infinitely variable speed drive, mechanical variator
Digital RPM Read-out
Motor Isolation Class „F“ (155°)

Connection terminal in the electrics cabinet. Without cable.
 (All versions with tapping option.)
Cable w/o plug, 2 m. (All versions without tapping option.)
Protection class IP 54
Spindle protection electrically secured
Lacquer: DD-structured signal white RAL 9003,
 PANTONE 7545c, black.

OPTIONS

09.1	Table/Bench, W x D x H 750 x 700 x 840 mm (weight approx. 66 kg)	1.249,00 €
10.	Spindle Reverse Switch for counter-clockwise rotation with 0-Position	35,00 €
12.	LED machine light, adjustable angle, 230 V, IP 65	420,00 €
20.0	Tapping Attachment, w/o foot switch, max. 12 tapped holes per minute (tapping capacity depending on Rpm speed), reduces stroke by 15 mm, auto-reverse at end stop	1.019,00 €
20.1	Tapping Attachment, with reverse foot switch, max. 12 tapped holes per minute (tapping capacity depending on Rpm speed), reduces stroke by 15 mm, auto-reverse at end stop	1.220,00 €
24.	Coolant Attachment A*, consisting of: Coolant base plate with machined surface 320 x 320 mm and 2 slots, overload protected pump, check valve and accessories (only for AX 2/S)	1.120,00 €
25.	Coolant Attachment B, consisting of: separate container (33 l), with overload protected pump, check valve and accessories	545,00 €
37.1	Digital Depth Read-Out, O-fixation (drill start), 5 position LED-Display, characters 13 mm high	621,00 €
50.6	Precision Depth Adjuster and fixed stop, Precision adjustment to 0,1 mm (spindle stroke reduced by 20 mm)	340,00 €
03.	Anchoring set for AX 2/S	240,00 €
08.	Wooden Packing, disposable L x W x H 1100 x 800 x 1400 mm for AX 2-T/S. Net weight approx. 45 kg L x W x H 1200 x 800 x 2100 mm for AX 2/S. Net weight approx. 75 kg	62,00 € 129,00 €
08.1	Packaging for the Table/Bench 09.1	50,00 €

*) = Net weight increases with 80 kg

Special Accessories page 36/37

Special equipment page 38

COLUMN DRILLING MACHINES

Drilling capacity 40 mm

Photo with options



	Column Drilling Machine AX 3/S	Column Drilling Machine AX 3/SV
Drilling capacity steel E 335 (St 60)	40 mm	40 mm
Tapping performance steel E 335 (St 60) <i>(Option 20.0 or 20.1 required)</i>	M 24	M 24
Tapping performance Cast iron EN-GJL-200 (GG 20) <i>(Option 20.0 or 20.1 required)</i>	M 30	M 30
Short spindle	MT 3	MT 3
Z-travel of spindle	120 mm	120 mm
Distance spindle to column	293 mm	293 mm
Column diameter	115 mm	115 mm
Table clamping area (width x depth)	514 x 360 mm	514 x 360 mm
Distance spindle/table min./max.	117/701 mm	117/701 mm
T-Slots, number x width x distance	2 x 14 x 224 mm	2 x 14 x 224 mm
Feed	manual	0,1 + 0,2 mm/Rot.
Height of the machine without options approx.	1840 mm	1840 mm
Net weight approx.	260 kg	270 kg
Drive System	infinitely variable	infinitely variable
Motor: n = 750 / 1500 rpm	1,0 / 1,6 kW	1,0 / 1,6 kW
Spindle Rpm range	80-1125 rpm	80-1125 rpm
Price of the machine without options	8.199,00 €	9.587,00 €
Motor: n = 1500 / 3000 rpm	1,45 / 1,9 kW	1,45 / 1,9 kW
Spindle Rpm range	160-2250 rpm	160-2250 rpm
Price of the machine without options	8.199,00 €	9.587,00 €

Drilling heads (height adjustable) for Multi-Head-Systems RFT, page 34

Standard Equipment

Main switch (lockable) with Overload Protection Switch Motor heat-protected Self-Locking Mushroom Button for Emergency-Off Right rotation through protective control Infinitely variable speed drive , mechanical variator Digital RPM Read-out Feed overload clutch (AX 3/SV) Motor Isolation Class „F“ (155°)	Connection terminal in the electrics cabinet. Without cable. (All versions with tapping option.) Cable w/o plug , 2 m. (All versions without tapping option.) Protection class IP 54 Spindle protection electrically secured Lacquer : DD-structured signal white RAL 9003, PANTONE 7545c, black. Machine oil (AX 3/SV)
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OPTIONS

10.	Spindle Reverse Switch for counter-clockwise rotation with 0-Position	35,00 €
12.	LED machine light , adjustable angle, 230 V, IP 65	420,00 €
20.0	Tapping Attachment w/o foot switch , max. 6 tapped holes per minute (tapping capacity depending on Rpm speed) (If Motor 1500/3000 is chosen, the 1st gear should be used for tapping), auto-reverse at end stop	1.019,00 €
20.1	Tapping Attachment with reverse foot switch , max. 6 tapped holes per minute (tapping capacity depending on Rpm speed) (If Motor 1500/3000 is chosen, the 1st gear should be used for tapping), auto-reverse at end stop	1.220,00 €
24.	Coolant Attachment A* , consisting of: Coolant Base plate with machined surface 320 x 320 mm and 2 slots, overload protected pump, check valve and accessories	1.017,00 €
25.	Coolant Attachment B , consisting of: separate container (33 l), with overload protected pump, check valve and accessories	545,00 €
37.1	Digital Depth Read-Out 0-fixation (drill start), 5 position LED-Display, characters 13 mm high	730,00 €
42.	Column extension + 200 mm (tall operators, tapping devices, multi-spindle heads, turrets, reducer sleeves, etc.)	660,00 €
47.1.2	Short spindle MT4	396,00 €
50.6	Precision Depth Adjuster and fixed stop Precision adjustment to 0,1 mm	340,00 €
03.	Anchoring set	240,00 €
08.	Wooden packing, disposable L x W x H 1200 x 800 x 2100 mm, Net weight approx. 75 kg	129,00 €

*) = net weight increases with 80 kg

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COLUMN DRILLING MACHINE

Drilling capacity 55 mm

Photo with options



	Column Drilling Machine AX 4/SV	AX 4/SV with 3 kW motor
Drilling capacity steel E 335 (St 60)	55 mm	55 mm
Tapping performance steel E 335 (St 60) <i>(Option 20.0 or 20.1 required)</i>	M 30	M 42
Tapping performance Cast iron EN-GJL-200 (GG 20) <i>(Option 20.0 or 20.1 required)</i>	M 36	M 56
Short spindle	MT 4	MT 4
Z-travel of spindle	140 mm	140 mm
Distance spindle to column	300 mm	300 mm
Column diameter	145 mm	145 mm
Table clamping area (width x depth)	615 x 430 mm	615 x 430 mm
Distance spindle/table min./max.	150/735 mm	150/735 mm
T-Slots, number x width x distance	2 x 14 x 224 mm	2 x 14 x 224 mm
Feed	0,1 + 0,3 mm/Rot.	0,1 + 0,3 mm/Rot.
Height of the machine without options approx.	1850 mm	1850 mm
Net weight approx.	380 kg	380 kg
Drive System	infinitely variable	infinitely variable with 2-step gear box
Motor: n = 750/1500 rpm	1,8 / 2,9 kW	-
Spindle Rpm range	70-1200 rpm	-
Price of the machine without options	13.435,00 €	-
Motor: n = 1500 rpm	-	3,0 kW
Spindle Rpm range	-	70-2400 rpm
Price of the machine without options	-	14.683,00 €

Drilling heads for Multi-Head-Systems RFT, page 32/34/35

Standard Equipment

Main switch with Overload Protection Switch, lockable
Motor heat-protected
Self-Locking Mushroom Button for Emergency-Off
Right rotation through protective control
Infinitely variable speed drive, mechanical variator
Digital RPM Read-out
Protection class IP 54
Motor Isolation Class „F“ (155°)

Feed overload protection clutch
Connection terminal in the electrics cabinet. Without cable.
 (All versions with tapping option.)
Cable w/o plug, 2 m. (All versions without tapping option.)
Spindle protection electrically secured
Lacquer: DD-structured signal white RAL 9003,
 PANTONE 7545c, black.
Machine oil

OPTIONS

10.	Spindle Reverse Switch for counter-clockwise rotation with 0-Position	35,00 €
12.	LED machine light , adjustable angle, 230 V, IP 65	420,00 €
20.0	Tapping Attachment w/o foot switch , max. 6 tapped holes per minute (tapping capacity depending on Rpm speed), auto-reverse at end stop (Only for version with engine 1.8/2.9 kW, n = 70-1200 Rpm).	1.019,00 €
20.1	Tapping Attachment with reverse foot switch , max. 6 tapped holes per minute (tapping capacity depending on Rpm speed), auto-reverse at end stop. (Only for version with engine 1.8/2.9 kW, n = 70-1200 Rpm).	1.220,00 €
20.2	Tapping Attachment w/o reverse foot switch , max. 6 tapped holes per minute (tapping capacity depending on Rpm speed), auto-reverse at end stop. (Only for version with engine 1.8/2.9 kW, n = 70-2400 Rpm).	2.315,00 €
20.3	Tapping Attachment with reverse foot switch , für das Gewindeschneiden mit Anschlag, max. 6 Gewinde/min (Gewindeschneidleistung spindeldrehzahlabhängig), with motor control with soft start. (Only for version with engine 3,0 kW, n = 70-2400 Rpm).	2.516,00 €
24.	Coolant Attachment A* , consisting of: Coolant Base plate with machined surface 320 x 320 mm and 2 slots, overload protected pump check valve and accessories	1.017,00 €
25.	Coolant Attachment B , consisting of: separate container (33 l), with overload protected pump, check valve and accessories	545,00 €
37.1	Digital Depth Read-Out 0-fixation (drill start), 5 position LED-Display, characters 13 mm high	730,00 €
42.	Column extension + 200 mm (tall operators, tapping devices, multi-spindle heads, turrets, reducer sleeves, etc.)	660,00 €
50.6	Precision Depth Adjuster and fixed stop , Precision adjustment to 0,1 mm	340,00 €
03.	Anchoring set	240,00 €
08.	Wooden packing, disposable L x W x H 1200 x 800 x 2100 mm, Net weight approx. 75 kg	129,00 €

*) = net weight increases with 60 kg

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COLUMN AND SEMI-BOX COLUMN DRILLING MACHINES

Drilling capacity 30/40 mm

Photos with options



	Column Drilling Machine AB 26/SV	Column Drilling Machine AB 34/SV	Semi-Box Column Drilling Machine AB 34/HST
Drilling performance steel E 335* (St 60)	26 mm	34 mm	34 mm
Drilling performance Cast iron EN-GJL-200* (GG 20)	30 mm	40 mm	40 mm
Drilling capacity steel E 335* (St 60)	30 mm	40 mm	40 mm
Tapping performance steel E 335* (St 60) <i>(Option 20.0 or 20.1 required)</i>	M 20	M 24	M 24
Tapping performance Cast iron EN-GJL-200 (GG 20) <i>(Option 20.0 or 20.1 required)</i>	M 24	M 30	M 30
Short spindle	MT 3	MT 4	MT 4
Distance spindle to column	293 mm	300 mm	330 mm
Table clamping area (width x depth)	514 x 360 mm	615 x 430 mm	742 x 460 mm
T-Slots, number x width x distance	2 x 14 x 224 mm	2 x 14 x 224 mm	2 x 14 x 224 mm
Distance spindle/table min./max.	90/675 mm	147/688 mm	266/928 mm
Column diameter / Box Column width	115 mm	145 mm	290 mm
Z-travel of spindle	160 mm	160 mm	160 mm
Feed(s)	0,1-0,2-0,3-0,4 mm/Rot.	0,1-0,2-0,3-0,4 mm/Rot.	0,1-0,2-0,3-0,4 mm/Rot.
Height of the machine without options approx.	1865 mm	1865 mm	2110 mm
Net weight approx.	380 kg	470 kg	760 kg
Drive System	infinitely variable	infinitely variable	infinitely variable
Motor: n = 750/1500 rpm	1,0 / 1,6 kW	1,4 / 2,2 kW	1,4 / 2,2 kW
Spindle Rpm range	120-2200 rpm	100-1800 rpm	100-1800 rpm
Price of the machine without options	11.869,00 €	13.483,00 €	19.990,00 €
Motor: n = 750/1500 rpm	1,0 / 1,6 kW	1,4 / 2,2 kW	
Spindle Rpm range	120-2200 rpm	100-1800 rpm	
Price of the machine with options 37.3	14.114,00 €	15.728,00 €	

* Drilling performance and capacity only with motor 750/1500 rpm

The "Autodigit" version includes the basic machine with option 37.3.
Drilling heads for Multi-Head-Systems RFT, page 32/34/35.

Standard Equipment

Electro-magnetic feed clutch with overload protection and Electrical Cross Handle Switches Main switch lockable Motor heat-protected Self-Locking Mushroom Button for Emergency-Off Right rotation through protective control Infinitely variable speed drive , mechanical variator Digital RPM Read-out Protection class IP 54	Motor Isolation Class „F” (155°) Connection terminal in the electrics cabinet. Without cable. (All versions with tapping option.) Cable w/o plug , 2 m. (All versions without tapping option.) Spindle protection electrically secured Lacquer : DD-structured signal white RAL 9003, PANTONE 7545c, black. Machine oil
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OPTIONS

10.	Spindle Reverse switch for counter-clockwise rotation with 0-position	35,00 €
12.	LED machine light , adjustable angle, 230 V, IP 65	420,00 €
20.0	Tapping Attachment w/o foot switch , max. 6 tapped holes per minute (tapping capacity depending on Rpm speed), auto-reverse at end stop	1.019,00 €
20.1	Tapping Attachment with reverse foot switch , max. 6 tapped holes per minute (tapping capacity depending on Rpm speed), auto-reverse at end stop	1.220,00 €
24.	Coolant Attachment A* , consisting of: Coolant Base plate with machined surface 320 x 320 mm, and 2 slots, overload protected pump, check valve and accessories (for AB 26/SV and AB 34/SV only)	1.017,00 €
25.	Coolant Attachment B , consisting of: separate container (33 l), with overload protected pump, check valve and accessories	545,00 €
37.1	Digital Depth Read-Out 0-fixation (drill start), 5 position LED-Display, characters 13 mm high	730,00 €
37.3	Automatic Drill Depth Control (Autodigit) : Simple Drill Depth programming, interval drilling and free cutting possibility. Settings by means of Digi-Pot, Digital Read-Out, includes Position 37.1	2.245,00 €
42.	Column extension + 200 mm (tall operators, tapping devices, multi-spindle heads, turrets, reducer sleeves, etc.) (for AB 26/SV and AB 34/SV only)	660,00 €
50.6	Precision Depth Adjuster and fixed stop , Precision adjustment to 0,1 mm	340,00 €
03.	Anchoring set	240,00 €
07	Wooden packing, disposable for AB 34/HST L x W x H 2400 x 1000 x 1600 mm, Package weight approx. 135 kg	256,00 €
08.	Wooden packing, disposable for AB 26/SV + AB 34/SV L x W x H 1200 x 800 x 2100 mm, Package weight approx. 75 kg	129,00 €

*) = net weight increases with 80 kg at AB 26/SV
net weight increases with 60 kg at AB 34/SV


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COLUMN AND SEMI-BOX COLUMN DRILLING MACHINES

Drilling capacity 50 mm

Photos with options



	Column Drilling Machine AB 40/SV	Semi-Box Column Drilling Machine AB 40/HST
Drilling performance steel E 335* (St 60)	40 mm	40 mm
Drilling performance Cast iron EN-GJL-200* (GG 20)	46 mm	46 mm
Drilling capacity steel E 335* (St 60)	50 mm	50 mm
Tapping performance steel E 335* (St 60) (Option 20.0 or 20.1 required)	M 30	M 30
Tapping performance Cast iron EN-GJL-200* (GG 20) (Option 20.0 or 20.1 required)	M 36	M 36
Short spindle	MT 4	MT 4
Distance spindle to column	300 mm	330 mm
Table clamping area (width x depth)	615 x 430 mm	742 x 460 mm
T-Slots, number x width x distance	2 x 14 x 224 mm	2 x 14 x 224 mm
Distance spindle/table min./max.	147/688 mm	266/928 mm
Column diameter / Box Column width	145 mm	290 mm
Z-travel of spindle	160 mm	160 mm
Feed(s)	0,1-0,2-0,3-0,4 mm/Rot.	0,1-0,2-0,3-0,4 mm/Rot.
Height of the machine without options approx.	1885 mm	2110 mm
Net weight approx.	470 kg	760 kg
Drive System	infinitely variable	infinitely variable
Motor: n = 750/1500 rpm	1,8 / 2,9 kW	1,8 / 2,9 kW
Spindle Rpm range	100-1600 rpm	100-1600 rpm
Price of the machine without options	16.725,00 €	21.867,00 €
Motor: n = 750/1500 rpm (with gear)	1,8 / 2,9 kW	1,8 / 2,9 kW
Spindle Rpm range	70-4000 rpm	70-4000 rpm
Price of the machine without options	17.908,00 €	23.050,00 €
	AB 40/SV Autodigit	
Motor: n = 750/1500 rpm	1,8 / 2,9 kW	
Spindle Rpm range	100-1600 rpm	
Price of the machine with options 37.3	18.970,00 €	

* Performance data are for motor n=750/1500 rpm (with gear).
The "Autodigit" version includes the basic machine with option 37.3.
Drilling heads for Multi-Head-Systems RFT, page 32/34/35.

Standard Equipment

Electro-magnetic feed clutch
with Overload Protection and Electrical Cross Handle Switches
Control and Light Transformer 24 Volts
Main switch lockable
Motor heat-protected
Self-Locking Mushroom Button for Emergency-Off
Right rotation through protective control
Infinitely variable speed drive, mechanical variator
Digital RPM Read-out

Rpm setting by potentiometer (w/o lever)
Protection class IP 54
Motor Isolation Class „F“ (155°)
Cable w/o plug, 2 m
Spindle protection electrically secured
Lacquer: DD-structured signal white RAL 9003,
PANTONE 7545c, black.
Machine oil

OPTIONS

10.	Spindle Reverse switch for counter-clockwise rotation with 0-position	234,00 €
12.	LED machine light , adjustable angle, 230 V, IP 65	420,00 €
20.0	Tapping Attachment w/o foot switch , max. 6 tapped holes per minute (tapping capacity depending on Rpm speed), auto-reverse at end stop	601,00 €
20.1	Tapping Attachment with reverse foot switch , max. 6 tapped holes per minute (tapping capacity depending on Rpm speed), auto-reverse at end stop	801,00 €
24.	Coolant Attachment A* , consisting of: Coolant Base plate with machined surface 320 x 320 mm and 2 slots, overload protected pump check valve and accessories (for AB 40/SV only)	1.017,00 €
25.	Coolant Attachment B , consisting of: separate container (33 l), with overload protected pump, Check valve and accessories	545,00 €
37.1	Digital Depth Read-Out , 0-fixation (drill start), 5 position LED-Display, characters 13 mm high	730,00 €
37.3	Automatic Drill Depth Control (Autodigit) with: Drill Depth programming, interval drilling and free cutting possibility. Settings by means of Digi-Pot, Digital Read-Out, includes Position 37.1	2.245,00 €
42.	Column extension + 200 mm (tall operators, tapping devices, multi-spindle heads, turrets, reducer sleeves, etc.) (for AB 40/SV only)	660,00 €
50.6	Precision Depth Adjuster and fixed stop , Precision adjustment to 0,1 mm	340,00 €
51.1	Special feeds 0,05 - 0,10 - 0,15 - 0,20 mm/Rot.	526,00 €
03.	Anchoring set	240,00 €
07	Wooden packing, disposable for AB 40/HST L x W x H 2400 x 1000 x 1600 mm, net weight approx. 135 kg	256,00 €
08.	Wooden packing, disposable for AB 40/SV L x W x H 1200 x 800 x 2100 mm, net weight approx. 75 kg	129,00 €

*) = net weight increases with 60 kgs (AB 40/SV)

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COLUMN AND SEMI-BOX COLUMN DRILLING MACHINES

Drilling capacity 60 mm

Photos with options



	Column Drilling Machine AB 50/SV	Semi-Box Column Drilling Machine AB 50/HST
Drilling performance steel E 335* (St 60)	50 mm	50 mm
Drilling performance Cast iron EN-GJL-200* (GG 20)	60 mm	60 mm
Drilling capacity steel E 335* (St 60)	60 mm	60 mm
Tapping performance steel E 335* (St 60) <i>(Option 20.0 or 20.1 required)</i>	M 42	M 42
Tapping performance Cast iron EN-GJL-200* (GG 20) <i>(Option 20.0 or 20.1 required)</i>	M 60	M 60
Short spindle	MT 4	MT 4
Distance spindle to column	350 mm	330 mm
Table clamping area (width x depth)	720 x 510 mm	742 x 460 mm
T-Slots, number x width x distance	2 x 14 x 224 mm	2 x 14 x 224 mm
Distance spindle/table min./max	159/884 mm	257/919 mm
Column diameter / Box Column Width	200 mm	290 mm
Z-travel of spindle	200 mm	200 mm
Feeds mm/Rev.	0,15-0,2-0,3-0,36	0,15-0,2-0,3-0,36
Machine height without options approx.	1950 mm	2135 mm
Net weight approx.	605 kg	850 kg
Drive System	infinitely variable with gear box	
Motor: n = 1500/3000 rpm	3,6 / 4,3 kW	3,6 / 4,3 kW
Spindle Rpm range	60-1530 rpm	60-1530 rpm
Price of the machine without options	20.413,00 €	25.623,00 €
Motor: n = 1500/3000 rpm	3,6 / 4,3 kW	3,6 / 4,3 kW
Spindle Rpm range	50-1280 rpm	50-1280 rpm
Price of the machine without options	20.413,00 €	25.623,00 €

* **Please note:** Performance data relating to rpm range n = 50-1280 rpm only.

Standard Equipment

Electro-magnetic feed clutch with Overload Feed Protection and Electrical Cross Handle Switches
Main switch lockable
Overload Protection Switch
Protective control for clockwise rotation
Self-Locking Mushroom Button for Emergency-Off
Infinitely variable speed drive, mechanical variator
Digital RPM Read-out
Protection class IP 54

Motor Isolation Class „F“ (155')
Connection terminal in the electrics cabinet. Without cable.
Machined Base Plate, with T-slots (AB 50/SV only), clamping area 380 x 450 mm (width x depth)
Spindle protection electrically secured
Lacquer: DD-structured signal white RAL 9003, PANTONE 7545c, black.
Machine oil

OPTIONS

10.	Spindle Reverse switch for counter-clockwise rotation with 0-position	35,00 €
12.	LED machine light , adjustable angle, 230 V, IP 65	420,00 €
20.0	Tapping Attachment w/o foot switch , max. 6 tapped holes per minute (tapping capacity depending on Rpm speed), auto-reverse at end stop	1.126,00 €
20.1	Tapping Attachment with reverse foot switch , max. 6 tapped holes per minute (tapping capacity depending on Rpm speed), auto-reverse at end stop	1.324,00 €
24.	Coolant Attachment A* , consisting of: Coolant Base plate with machined surface 450 x 460 mm and 2 slots, overload protected pump, check valve and accessories (for AB 50/SV only)	1.017,00 €
25.	Coolant Attachment B , consisting of: separate container (33 l), with overload protected pump, check valve and accessories	545,00 €
42.	Column extension + 200 mm (tall operators, tapping devices, multi-spindle heads, turrets, reducer sleeves, etc.) (for AB 50/SV only)	792,00 €
50.6	Precision Depth Adjuster and fixed stop . Precision adjustment to 0,1 mm	340,00 €
03.	Anchoring set	240,00 €
07	Wooden packing, disposable AB 50/HST L x W x H 2400 x 1000 x 1600 mm, net weight approx. 135 kg	256,00 €
08.	Wooden packing, disposable AB 50/SV L x W x H 2200 x 800 x 1600 mm, net weight approx. 105 kg	223,00 €

*) = net weight increases with 115 kgs (AB 50/SV)

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COLUMN DRILLING MACHINE FOR BOTH FLOW DRILLING AND STANDARD DRILLING

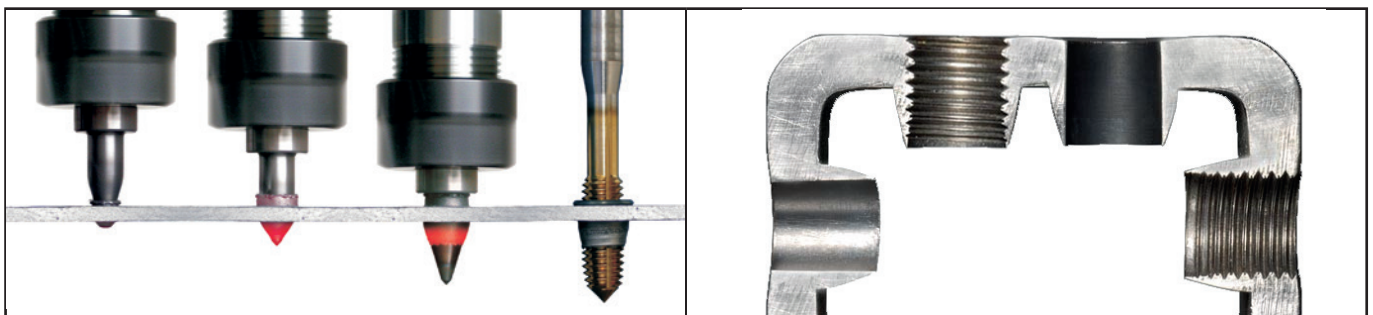
Flow Drilling capacity 12 mm

Photos with options



	Column Drilling Machine ALZFLOW 30/S
Flow Drilling capacity steel DC 01A (St 12.03) (sheet metal thickness 2,5 mm)	12 mm
Tapping performance steel DC 01A (St 12.03) (Option 20.0 or 20.1 required)	M 12 mm
Drilling capacity steel E 335 (St 60)	30 mm
Tapping performance steel E 335 (St 60) (Option 20.0 or 20.1 required)	M 16
Tapping performance Cast iron EN-GJL-200 (GG 20) (Option 20.0 or 20.1 required)	M 20
Short spindle	MT 3
Z-travel of spindle	140 mm
Distance spindle to column	293 mm
Column diameter	115 mm
Table clamping area (width x depth)	514 x 360 mm
T-Slots, number x width x distance	2 x 14 x 224 mm
Distance spindle/table min./max.	132/724 mm
Feed	Manual
Height of the machine without options approx.	1790 mm
Net weight approx.	260 kg
Drive System	infinitely variable
Motor: n = 750/1500 rpm	1,0/1,6 kW
Spindle Rpm range	225-4300 rpm
Price of the machine without options	7.518,00 €

Chipless Flow Drilling and Cold roll threading



Process sequence

Examples

Standard Equipment

Main switch lockable Self-Locking Mushroom Button for Emergency-Off switch Reverse switch for tapping Motor heat-protected Infinitely variable speed drive , mechanical variator Digital RPM Read-out Protection class IP 54 Motor Isolation Class „F“ (155°) Connection terminal in the electrics cabinet. Without cable. (All versions with tapping option.)	Cable w/o plug , 2 m. (All versions without tapping option.) Spindle protection electrically secured Lacquer : DD-structured signal white RAL 9003, PANTONE 7545c, black. Plug (fully assembled, cable length 2m) Spindle protection electrically secured Lacquer : DD-structured signal white RAL 9003, PANTONE 7545c, black.
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OPTIONS

12.	LED machine light , adjustable angle, 230 V, IP 65	420,00 €
20.0	Tapping Attachment w/o foot switch , max. 6 tapped holes per minute (tapping capacity depending on Rpm speed), auto-reverse at end stop	1.465,00 €
20.1	Tapping Attachment with reverse foot switch , max. 6 tapped holes per minute, auto-reverse at end stop	1.664,00 €
25.	Coolant Attachment B , consisting of: separate container (33 l), with overload protected pump, check valve and accessories	545,00 €
50.6	Precision depth adjustment and fixed stop , precision adjustment to 0,1 mm	340,00 €
03.	Anchoring set	240,00 €
08.	Packing, disposable , L x W x H 1200 x 800 x 2100 mm, net weight approx. 75 kg	129,00 €

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COLUMN DRILLING MACHINE FOR BOTH FLOW DRILLING AND STANDARD DRILLING

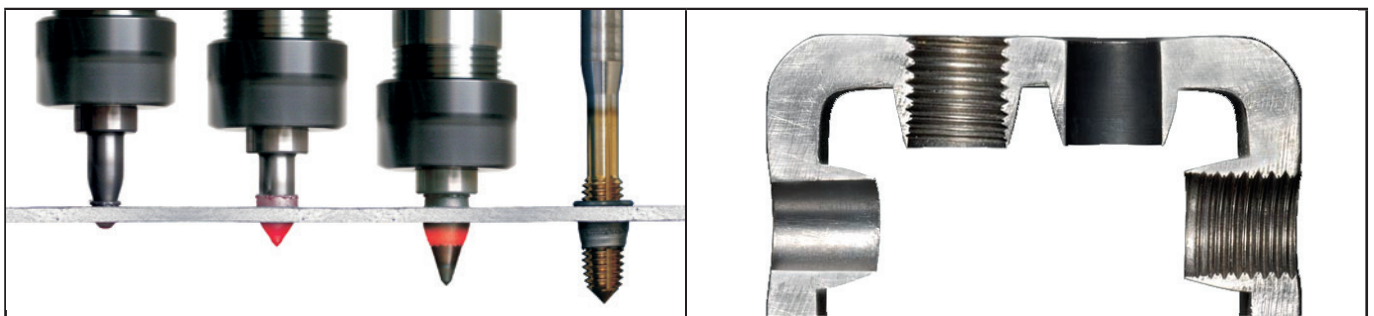
Flow Drilling capacity 20 mm

Photos with options



	Column Drilling Machine AB-FLOW 40/SV	Semi Box Column Drilling Machine AB-FLOW 40/HST
Flow Drilling capacity steel DC 01A (St 12.03) (sheet metal thickness 2,5 mm)	20 mm	20 mm
Tapping performance steel DC 01A (St 12.03) <i>(Option 20.2 or 20.3 required)</i>	M 20 mm	M 20 mm
Drilling capacity steel E 335 (St 60)	40 mm	40 mm
Tapping performance steel E 335 (St 60) <i>(Option 20.2 or 20.3 required)</i>	M 30	M 30
Tapping performance Cast iron EN-GJL-200 (GG 20) <i>(Option 20.2 or 20.3 required)</i>	M 36	M 36
Short spindle	MT 4	MT 4
Z-travel of spindle	160 mm	160 mm
Distance spindle to column	300 mm	330 mm
Column diameter/ box column width	145 mm	290 mm
Table clamping area (width x depth)	615 x 430 mm	742 x 460 mm
T-Slots, number x width x distance	2 x 14 x 224 mm	2 x 14 x 224 mm
Distance spindle/table min./max.	147/688 mm	266/928 mm
Feed	0,1-0,2-0,3-0,4 mm/Rot.	0,1-0,2-0,3-0,4 mm/Rot.
Height of the machine without options approx.	1885 mm	2110 mm
Net weight approx.	470 kg	760 kg
Drive System	infinitely variable	infinitely variable
Motor: n = 1500 rpm	4,0 kW (with gear)	4,0 kW (with gear)
Spindle Rpm range	140-4000 rpm	140-4000 rpm
Price of the machine without options	18.004,00 €	23.564,00 €

Chipless Flow Drilling and Cold roll threading



Process sequence

Examples

Standard Equipment

Electro-Magnetic automatic feed switch at cross handle with overload protection Control and Light Transformer 24 V Main switch lockable Motor heat-protected Self-Locking Mushroom Button for Emergency-Off Protective control for clockwise rotation Infinitely variable speed drive , mechanical variator Digital RPM Read-out	Cable w/o plug , 2 m Rpm setting by potentiometer (w/o lever) Protection class IP 54 Motor Protection Class „F“ (155°) Spindle protection electrically secured Lacquer: DD-structured signal white RAL 9003, PANTONE 7545c, black. Machine Oil
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OPTIONS

12.	LED machine light, adjustable angle, 230 V, IP 65	420,00 €
20.2	Tapping Attachment w/o foot switch, max. 6 tapped holes per minute, with soft reverse automate	2.298,00 €
20.3	Tapping Attachment (as 20.2) but with foot switch	2.500,00 €
24.	Coolant Attachment A*, consisting of: Coolant Base plate with machined surface 320 x 320 mm and 2 slots, overload protected pump, check valve and accessories (for AB-FLOW 40/SV only)	1.017,00 €
25.	Coolant Attachment B, consisting of: separate container (33 l), with overload protected pump, check valve and accessories	545,00 €
37.3	Automatic Drill Depth Control with: Drill Depth programming, interval drilling and free cutting possibility. Settings by means of Digi+Pot, Digital Read-Out (Autodigit)	2.245,00 €
50.6	Precision Depth Adjuster and fixed Stop precision adjustment to 0,1 mm	340,00 €
51.1	Special feeds 0,05 - 0,10 - 0,15 - 0,20 mm/Rev.	526,00 €
03.	Anchoring set	240,00 €
07.	Packaging, disposable / AB-FLOW 40/HST , L x W x H 2400 x 1000 x 1600 mm, weight approx. 135 kg	256,00 €
08.	Packaging, disposable / AB-FLOW 40/SV, L x W x H 1200 x 800 x 2100 mm, weight approx. 75 kg	129,00 €

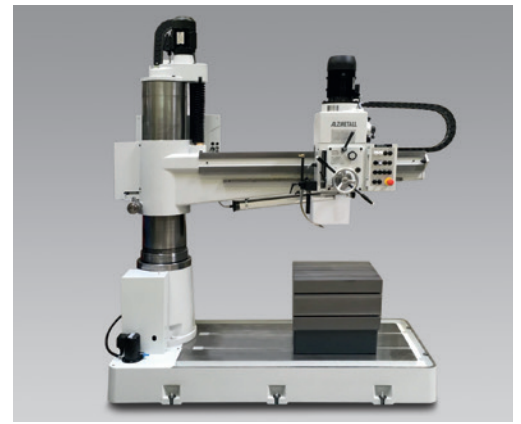
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**RADIAL DRILLING MACHINES
AB 30/R-1000 AND AB 30/R-1400**

Drilling capacity 45/50 mm

Photos with options



	Radial Drilling Machine	
	AB 30/R-1000 AB 30/R-1400 with 1,5 kW Motor	AB 30/R-1000 AB 30/R-1400 with 3,0 kW Motor
Drilling performance steel E 335 (St 60)	32 mm	40 mm
Drilling performance Cast iron EN-GJL-200 (GG 20)	45 mm	50 mm
Drilling capacity steel E 335 (ST 60)	45 mm	50 mm
Tapping performance steel E 335 (St 60) <i>(Option 20.0 or 20.1 required)</i>	M 30	M 30
Tapping performance Cast iron EN-GJL-200(GG 20) <i>(Option 20.0 or 20.1 required)</i>	M 42	M 42
Short spindle	MT 4	
Diameter of Column with AB 30/R-1000 / with AB 30/R-1400	220 mm / 300 mm	
Travel of radial arm AB 30/R-1000 / AB 30/R-1400	730 mm / 1100 mm	
Drilling radius min. max. AB 30/R-1000 / AB 30/R-1400	240/970 mm / 220/1320 mm	
Base plate, clamping area (b x t) AB 30/R-1000 / AB 30/R-1400	960 x 520 mm / 1365 x 640 mm	
Height of the base plate AB 30/R-1000 / AB 30/R-1400	190 mm / 230 mm	
T-Slots, number x width x distance	2 x 18 x 250 mm	
Distance Spindle - Base plate min./max. AB 30/R-1000 / AB 30/R-1400	510/1220 mm / 565/1305 mm	
Height of the machine without options approx. AB 30/R-1000 / AB 30/R-1400	2428 mm / 2564 mm	
Travel Motor	0,75 kW	
4 feeds	0,15-0,2-0,3-0,36 mm/Rot.	
Z-travel of spindle (Alt. Pos. 54)	160 mm	
Net weight approx. with AB 30/R-1000	1250 kg	
Net weight approx. with AB 30/R-1400	1650 kg	
Drive System	Gear box	
Motor: n = 1500 rpm	1,5 kW	3,0 kW •
Spindle Rpm range	40-56-80-112-160-224-315-450-630-900-1250-1800 rpm or 28-40-56-80-112-160-224-315-450-630-900-1250 rpm or 56-80-112-160-224-315-450-630-900-1250-1800-2500 rpm	only 56-2500 rpm
Grundpreis der Maschine mit Ausladung ca. 1000 mm	AB 30/R-1000	52.485,00 €
Grundpreis der Maschine mit Ausladung ca. 1400 mm	AB 30/R-1400	66.490,00 €
		53.257,00 €
		67.098,00 €

• in connection with 3,0 kW motor, Pos. 42.6 is recommended

Standard Equipment

Electromagnetic Feed Clutch with overload protection and cross handle switches Contact Control for Clockwise Spindle Rotation incl. motor protection circuit breaker for spindle motor and feed motor Control Transformer (VDE 0113) Main switch lockable Motor Isolation Class „F“ (155°)	Connection terminal box provided (w/o cable) Base plate with T-slots Self-Locking Mushroom Button for EMERGENCY OFF Spindle protection electrically secured Protection class IP 54 Lacquer DD-structured signal white RAL 9003, black. Machine oil
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OPTIONS

1.11	Anchor and levelling elements (6 elements)	847,00 €
12.2	Protected tube light with LED technics	505,00 €
20.0	Tapping auto-reverse w/o foot switch , max. 6 tapped holes per minute, incl. smooth-start clutch in gear box	1.668,00 €
24.	Coolant Attachment A , integrated in standard base plate with overload-protected pump and accessories	1.015,00 €
28.	Electrically controlled free-cutting system when depth is reached cutter remains for a controllable time in position. Incl. time-limit relay and feed brake.	4.037,00 €
42.6 •	Outboard support (an extra built-in switch will cut circuit to elevating motor when outboard support is locked)	3.206,00 €
47.2.1	Long spindle MT 4 with key bore DIN 1807	398,00 €
50.6	Precision depth adjuster and fixed stop precision adjustment to 0,1 mm	421,00 €
53.2	Portable boxed clamping table , length 560 mm, width 480 mm, height 500 mm, clamping area at top 560 x 480 mm, with 3 T-slots 14 mm, at distance 150 mm, clamping area at side 560 x 330 mm, with 2 T-slots 14 mm, at distance 150 mm, weight 200 kg	3.539,00 €
54.	Spindle travel 200 mm	1.497,00 €
58	Central clamping system for sliding drill unit = mechanic, for column and arm = pneumatic/hydraulic	6.732,00 €
58.1	Central clamping system for sliding drill unit and arm = mechanic, for column = pneumatic	3.717,00 €
01.	Special Lacquer: DD-brillant	1.213,00 €
02.	Special Lacquer: DD-structured	570,00 €
05.	Special voltages	upon request

Packing: on wooden bars at no costs, Net weight approx. 100 kg

**MULTI-HEAD-DRILLS
WITH FIXED HEIGHT OF TABLE RFT 20/1**

Photo with options



	Casted table RFT 20/1-1	Casted table RFT 20/1-2
Height of Table	780 mm	780 mm
Width/Depth of table with coolant channel	915 x 935 mm	915 x 1035 mm
Clamping Area at Table (width x depth)	765 x 495 mm	765 x 670 mm
Clamping Slots (number x width x distance)	3 x 14 x 112 mm	3 x 14 x 112 mm
Approximate weight w/o head	520 kg	550 kg
Price of the table	4.643,00 €	5.561,00 €

Assembly of heads for table	RFT 20/1-1		
Drill Head , height adjustable 700 mm	AX 4/SV	AB 34/SV	AB 40/SV
Spindle	MT 4 short	MT 4 short	MT 4 short
Distance spindle to column *	322,5 mm	322,5 mm	322,5 mm
Distance Spindle Nose to Table max.	1034 mm	998 mm	998 mm
Distance Spindle Nose to Table min.	340 mm	304 mm	304 mm
Z-travel of spindle	140 mm	160 mm	160 mm
Weight	280 kg	285 kg	315 kg
Motor	750/1500 rpm	750/1500 rpm	750/1500 rpm
kW	1,8/2,9	1,4/2,2	1,8/2,9
Spindle Rpm range, mechanical variator	70-1200 rpm	100-1800 rpm	100-1600 rpm
Price per Drill Head	13.176,00 €	13.224,00 €	16.467,00 €

Assembly of heads for table	RFT 20/1-2		
Drill head , height adjustable 490 mm * with larger distance spindle to column	AX 4/SV	AB 34/SV	AB 40/SV
Spindle	MT 4 short	MT 4 short	MT 4 short
Distance spindle to column *	477,5 mm	477,5 mm	477,5 mm
Distance Spindle Nose to Table max.	949 mm	913 mm	913 mm
Distance Spindle Nose to Table min.	459 mm	423 mm	423 mm
Z-travel of spindle	140 mm	160 mm	160 mm
Weight	280 kg	285 kg	315 kg
Motor	750/1500 rpm	750/1500 rpm	750/1500 rpm
kW	1,8/2,9	1,4/2,2	1,8/2,9
Spindle Rpm range, mechanical variator	70-1200 rpm	100-1800 rpm	100-1600 rpm
Price per Drill Head	14.706,00 €	14.752,00 €	17.997,00 €

Lacquer: DD-structured signal white RAL 9003, PANTONE 7545c, black.

Standard Equipment of the drill heads and options: Please see the relevant drilling machines page.

* Attention: Drilling capacities are different due to larger distance spindle to column.

Packing: on wooden bars at no costs, Net weight approx. 70 kg.

MULTI-HEAD-DRILLS RFT 2 WITH FIXED HEIGHT OF TABLE

Photo with options



	Casted Table RFT 2/2	Casted Table RFT 2/3	Special Equipment
Tool Cabinet	see Pos. 09.1	see Pos. 09.1	09.1 Built-in Tool Cabinet with door
Height of Table	930 mm	930 mm	4 drawers (w x d x h): 3 pieces 500 x 430 x 100 mm 1 piece 500 x 430 x 150 mm door can be locked
Width of Table	900 mm	1350 mm	
Clamping Area at Table (width x depth)	750 x 330 mm	1200 x 330 mm	
Clamping Slots (number x width x distance)	2 x 12 x 224 mm	2 x 12 x 224 mm	
Approximate Weight w/o Heads	200 kg	300 kg	
Number of Drill Heads	2	3	
Price of the table	6.999,00 €	7.846,00 €	1.138,00 €

Assembly of heads for	RFT 2/2 - 2/3	
Drill head, height adjustable 500 mm	AX 2/S	
Short spindle	MT 2	
Distance spindle to column	235 mm	
Distance Spindle Nose to Table max.	660 mm	
Distance Spindle Nose to Table min.	160 mm	
Z-travel of spindle	100 mm	
Weight	75 kg	
Motor	750/1500 rpm	750/1500 rpm
kW	0,6/0,95 kW	0,6/0,95 kW
Spindle Rpm range, mechanical variator	125-2400 rpm	225-4300 rpm
Price per Drill Head	6.342,00 €	6.342,00 €

Lacquer: DD-structured signal white RAL 9003, PANTONE 7545c, black.

Standard Equipment of the drill heads and options: Please see the relevant drilling machines page.

OPTIONS

35.	Coolant attachment system B , with 48 l container, overload protected pump with backflow valve and complete accessories for two drill heads, with central ON/OFF switch at the electrics cabinet.	1.683,00 €
35.1	- for 3 Drill heads	1.827,00 €
01.	Special Lacquer: DD-brillant, table only	1.488,00 €
02.	Special Lacquer: DD-structured, table only	718,00 €
03.	Anchoring set (set of 4 pieces) up to RFT 3/3	240,00 €

Packing on wooden bars only, no costs. Net weight approx. 40-150 kg (as per type).

**MULTI-HEAD-DRILLS RFT 3
WITH FIXED HEIGHT OF TABLE**

Photo with options



	Casted table RFT 3/2	Casted table RFT 3/3	Casted table RFT 3/4	Casted table RFT 3/5	Casted table RFT 3/6
Height of Table (mm)	780	780	780	780	780
Width of Table (incl. channel) (mm)	1150	1650	2150	2650	3150
Clamping Area at Table (width x depth) (mm)	1000 x 350	1500 x 350	2000 x 350	2500 x 350	3000 x 350
Clamping Slots (number x width x distance) (mm)	2 x 14 x 224	2 x 14 x 224	2 x 14 x 224	2 x 14 x 224	2 x 14 x 224
Approximate Weight w/o Heads	350 kg	520 kg	680 kg	840 kg	990 kg
Number of Drill Heads	1 or 2	max. 3	max. 4	max. 5	max. 6
Price of the table	8.057,00 €	10.578,00 €	11.097,00 €	14.335,00 €	17.336,00 €

Assembly of heads for	RFT 3/2 - RFT 3/3 - RFT 3/4 - RFT 3/5 - RFT 3/6		
Drill head, height adjustable 500 mm	AX 3/S	AX 3/SV	AX 4/SV
Option 700 mm	(Pos. 42.6)	(Pos. 42.6)	(Pos. 42.6)
Short spindle	MT 3	MT 3	MT 4
Distance spindle to column	293 mm	293 mm	300 mm
Distance Spindle Nose to Table max.	764 [964] mm	764 [964] mm	804 [1004] mm
Distance Spindle Nose to Table min.	264 mm	264 mm	304 mm
Z-travel of spindle	120 mm	120 mm	140 mm
Distance spindle to spindle (fix)	500 mm	500 mm	500 mm
Weight	150 kg	160 kg	265 kg
Motor n=1500 rpm	-	-	3 kW
Spindle Rpm range, mechanical variator	-	-	70-2400 rpm
Price per Drill Head	-	-	14.427,00 €
Motor n=750/1500 rpm	1,0 / 1,6 kW	1,0 / 1,6 kW	1,8 / 2,9 kW
Spindle Rpm range	80-1125 rpm	80-1125 rpm	70-1200 rpm
Motor n=1500/3000 rpm	1,45 / 1,9 kW	1,45 / 1,9 kW	-
Spindle Rpm range, mechanical variator	160-2250 rpm	160-2250 rpm	-
Price per Drill Head	7.943,00 €	9.333,00 €	13.176,00 €

Lacquer: DD-structured signal white RAL 9003, PANTONE 7545c, black.
Standard equipment of the drill heads and options: Please see the relevant drilling machines page.




Assembly of heads for	RFT 3/2 - RFT 3/3 - RFT 3/4 - RFT 3/5 - RFT 3/6		
Drill head , height adjustable 500 mm	AB 26/S	AB 34/SV	AB 40/SV
Option 700 mm	(Pos. 42.6)	(Pos. 42.6)	(Pos. 42.6)
Short spindle	MT 3	MT 4	MT 4
Distance spindle to column	293 mm	300 mm	300 mm
Distance Spindle Nose to Table max.	738 [938] mm	768 [968] mm	768 [968] mm
Distance Spindle Nose to Table min.	238 mm	268 mm	268 mm
Z-travel of spindle	160 mm	160 mm	160 mm
Distance spindle to spindle (fix)	500 mm	500 mm	500 mm
Weight	250 kg	270 kg	290 kg
Motor n = 750/1500 rpm	1,0 / 1,6 kW	1,4 / 2,2 kW	1,8 / 2,9 kW
Spindle Rpm range, mechanical variator	120-2200 rpm	100-1800 rpm	100-1600 rpm
Price per Drill Head	11.619,00 €	13.224,00 €	16.467,00 €
Motor n = 750/1500 rpm	-	-	1,8 / 2,9 kW with gear box
Spindle Rpm range, mechanical variator	-	-	70-4000 rpm
Price per Drill Head	-	-	17.653,00 €

OPTIONS

17.1	Pedal Bar as Emergency OFF switch only for RFT 3/2 to RFT 3/6	1.085,00 €
35.	Coolant attachment system B , with 48 l container, overload protected pump with backflow valve and complete accessories, with central ON/OFF switch at the electrics cabinet. - for 2 Drill heads	1.683,00 €
35.1	- for 3 Drill heads	1.827,00 €
35.2	- for 4 Drill heads	1.987,00 €
35.3	- for 5 Drill heads	2.169,00 €
35.4	- for 6 Drill heads	2.349,00 €
42.6	Drill Heads 700 mm adjustable (RFT 3)	532,00 €
01.	Special Lacquer: DD-brillant , table only	1.488,00 €
02.	Special Lacquer: DD-structured , table only	718,00 €
03.	Anchoring set (set of 4 pieces) up to RFT 3/3	240,00 €
03.	Anchoring set (set of 6 pieces) RFT 3/4 and 3/5	363,00 €
03.	Anchoring set (set of 8 pieces) RFT 3/6	488,00 €


Packing on wooden bars only, no costs. Net weight approx. 40-150 kg (as per type).

Accessories

 Two-axis production table with copying device	810776 *)	Two-axis Production Table (sliding) 760 x 425 mm, clamping area 600 x 325 mm, Height 170 mm, Travel 400 mm in X, 200 mm in Y, with adjustable end limiters, with 2 T-Slots 14 mm at distance 160 mm, max. admissible load approx. 150 kgs, max. admissible drill force 15000 N, weight approx. 140 kg	7.483,00 €
	816600 *)	Two-axis Production Table (sliding) 880 x 425 mm, clamping area 820 x 410 mm Travel 400 mm in X, 200 mm in Y, (only for AB 50 or larger). Weight approx. 190 kg	7.945,00 €
	37721	Two-axis production table (810776) with copying device	9.327,00 €
	37804	Two-axis production table (816600) with copying device	9.788,00 €
	37648	Templates for positioning device size 1 160 x 220 mm	128,00 €
	37630	size 2 290 x 220 mm	174,00 €
	37622	size 3 420 x 220 mm	214,00 €
	101.5	Customised Hole Patterns with hardened inserts A5 x 12, DIN 179, per hole	59,00 €
 Compound table	*)	Compound Table with drum grips for X and Y, with mm scale for X, Positioning accuracy 0.1 mm	
	810854 *)	Size 200 cross traverse 160 mm, longitudinal traverse 240 mm Clamping area with coolant groove 430 x 240 mm, 3 T-slots Weight approx. 46 kg	2.504,00 €
	810856 *)	Size 300 cross traverse 160 mm, longitudinal traverse 350 mm Clamping area with coolant groove 600 x 240 mm, 3 T-slots Weight approx. 56 kg	2.802,00 €
	810858 *)	Size 400 cross traverse 240 mm, longitudinal traverse 470 mm Clamping area with coolant groove 800 x 240 mm, 3 T-slots Weight approx. 86 kg	3.122,00 €
	810860 *)	Size 500 cross traverse 300 mm, longitudinal traverse 470 mm Clamping area with coolant groove 800 x 320 mm, 4 T-slots Weight approx. 122 kg	4.046,00 €
	836682 *)	Set of Mounting Bars	253,00 €
	102.5	Numerical Position Display for Compound Table, sizes 400 and 500 with support hook for mounting to drilling machine, display in steps of 0,005 or 0.010 mm (switchable), incl. Preset and Memofix, covered incremental scales.	7.672,00 €
 Vices 125/155	10660	Machine Vice, size 125 height 85 mm, width of jaws 125 mm, clamping width 155 mm, weight 14 kgs including prism jaws (1 longitudinal and 2 cross prisms)	870,00 €
	42168	Machine Vice, size 155 height 112 mm, width of jaws 155 mm, clamping width 230 mm, weight 29 kgs including prism jaws (1 longitudinal and 2 cross prisms)	1135,00 €
		Packing Two-axis production table, B x T x H, 1200 x 800 x 450	50,00 €
		Packing Compound table 200, B x T x H, 800 x 600 x 400	50,00 €
		Packing Compound table 300-500, B x T x H, 1200 x 800 x 400	50,00 €


*) Mounting possibilities to different machines to be checked! Subject to change without notice (see page 36, matrix).
Prices are not valid for retrofitting orders and retrofitting works.

Machine vice

	137067	Machine Vice Type BON with prism jaws size 1 height 60 mm, width of jaws 80 mm, clamping width 70 mm, weight 7,5 kg	203,00 €
	137075	size 2 height 72 mm, width of jaws 100 mm, clamping width 110 mm, weight 9,5 kg	360,00 €
	137083	size 3 height 80 mm, width of jaws 125 mm, clamping width 130 mm, weight 13,5 kg	539,00 €
	137091	size 4 height 95 mm, width of jaws 160 mm, clamping width 220 mm, weight 25 kg	910,00 €


Vice BON

Quick action drill chucks SUPRA


	138107	Type 136 clamping width 1-13 mm B 16	110,00 €
	140251	Type 136 clamping width 3-16 mm B 16	130,00 €
	150466	Type 136 clamping width 3-16 mm B 18	130,00 €
	189290	Type 136 clamping width 0-10 mm B 16	128,00 €

Permitted for spindle Rpm range up to max. 5000 rpm.
Not suitable for CCW rotation.


Tapers KD, DIN 238 for quick action drill chucks SUPRA

	138115	Type 236 MT 2 B 16	15,00 €
	139048	Type 236 MT 3 B 16	15,00 €
	150474	Type 236 MT 3 B 18	15,00 €
	160820	Type 236 MT 4 B 16	19,00 €
	320283	Type 236 MT 4 B 18	19,00 €

Reduction inserts RH, DIN 2185

	161075	Type 261 N MT 2/1	20,00 €
	190256	Type 261 N MT 3/1	20,00 €
	150482	Type 261 N MT 3/2	20,00 €
	160838	Type 261 N MT 4/1	30,00 €
	160846	Type 261 N MT 4/2	30,00 €
160853	Type 261 N MT 4/3	30,00 €	

Expeller for taper DIN 228

	81950	MT 2	13,00 €
	150490	MT 3	19,00 €
	161018	MT 4	32,00 €

Semi-automatic expeller for morse taper DIN 228

	17277	MT 1 - 3	115,00 €
	18952	MT 3 - 6	133,00 €

Special equipment

Pos.	Description	AX 2-T/S	AX 2/S	AX 3/S, AX 3/SV	AX 4/SV	AB 26/SV	AB 34/SV-HST AB 40/SV-HST	AB 50/SV, AB 50/HST
17.	Foot Emergency-OFF Switch	228,-	228,-	228,-	228,-	228,-	228,-	228,-
21.	Control Transformer, for special voltages only	448,-	448,-	448,-	448,-	448,-	448,- #	448,-
22.	Light Transformer for special voltages only	448,-	448,-	448,-	448,-	448,-	448,- #	448,-
41.	° Machined Base Plate with clamp surface and 2 T-slots	-	647,-	647,-	647,-	647,-	647,-	-
44.0	° Combination Sq. Table (440 x 440 mm), for drilling under angles with an opposite-side sliding vice with clamping width 130 mm, including prism jaws, clamp surface 350 x 350 mm, Net weight increases by approx. 80 kg	-	-	2.448,-	2.448,-	2.448,-	2.448,-	2.448,-
48.2	Flange quill with double return spring for weight compensation. AX 3 up to 25 kg, AX 4 up to 40 kg, AB 50 up to 50 kg	-	-	921,-	921,-	-	-	1.120,-
48.5.1	Flange quill with stronger return spring for weight compensation up to 10 kg	-	-	-	-	1.049,-	1.049,-	-
01.	Special Painting DD-Brillant, (small parts DD-structured)	1.235,-	1.235,-	1.235,-	1.235,-	1.235,-	1.235,-	1.235,-
02.	Special Painting DD-structured	819,-	819,-	819,-	819,-	819,-	819,-	819,-
05.	Special Voltages	upon request						

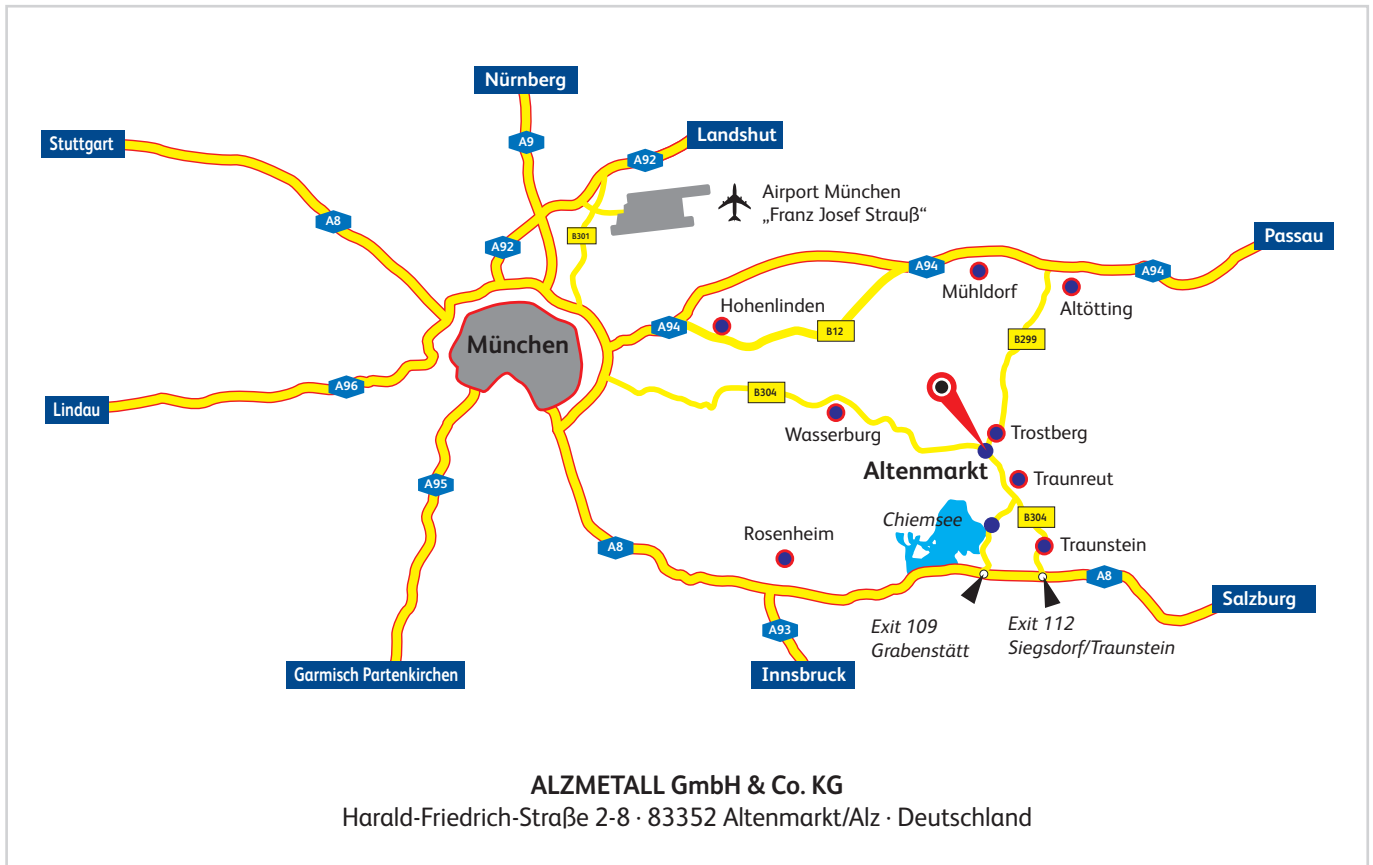
*Special equipments upon request. Prices are not valid for retrofitting orders and retrofitting works.
° only for round column types; # with AB 40 standard*

Decision matrix for mounting compound tables and two-axis production table; Versions see page 36

Size	Nr.	ALZTRONIC	ALZSTAR 18 T/S	ALZSTAR 23 T/S	ALZSTAR 23/S	ALZSTAR 30/S	ALZSTAR 40/S(V)	
200	810854	-	-	••	••	•	•	
300	810856	-	-	-	-	•	•	
400	810858	-	-	-	-	•	•	
500	810860	-	-	-	-	-	-	
Größe	Nr.	AX 2-T/S	AX 2/S	AX 3/S(V)	ALZFLOW 30	AB 26/SV		
200	810854	••	••	•	•	•		
300	810856	-	-	•	•	•		
400	810858	-	-	•	•	•		
500	810860	-	-	-	-	-		
Größe	Nr.	AX 4/SV	AB 34/SV	AB 34/HST	AB (FLOW) 40/SV	AB (FLOW) 40/HST	AB 50/SV	AB 50/HST
200	810854	-	-	-	-	-	-	-
300	810856	-	-	-	-	-	-	-
400	810858	•	•	-	•	-	•	-
500	810860	-	-	•	-	•	•	•
Production table	810776	•	•	•	•	•	•	•
Production table	816600	-	-	•	-	•	•	•

- = mounting not possible, • = mounting possible, •• = possible only with mounting bars. Surcharge for two mounting bars, see Page 34, Pos. 101.7 Attention: For models with combi table 44.0, this matrix is not valid!

Where to find us



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Short notice of our delivery terms

- All prices are in EURO.
- Former price lists are no more valid.
- All prices are in Euro, FCA Altenmarkt/Alz , and do not include insurance, packing or any taxes and duties
- Lacquer: DD-structured signal white RAL 9003, PANTONE 7545c, black.
- CE Norms are applied.
- Standardly equipped for 400 V, 50 Hz networks, (with ALZTRONIC for 230 V, 50 Hz).
- Every machine is delivered with : Operator's Manual , Conformity Declaration, grease and lubrication table, anchor plan
- Machines may be constructed and equipped according to customer's internal specifications. These are only upon request and do need special offers and pricings.
- For transport safety reasons ALZMETALL does not deliver machines that contain oil. Oil only in separate bins.
- Only our general conditions for the supply of machinery for national and international transactions are valid.
- Any prices are not applying to retrofit orders (accessories, options, spare/wear parts) or any assembly/modification works.

Machining centres



GS 600

CNC Rapid Radial Drilling Machines



Donau Werkzeugmaschinen GmbH
83352 Altenmarkt, www.donau-wzm.de

Machining centres



GS 600 / GS 800 / GS 1000 / GS 1200 / GS 1400

Foundry and processing technology



ALZMETALL is operating their proper foundry at 11.000 tons per year and is a sub-contractor for many industries. Activities consist of casting, machining, lacquering.

Your dealer



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