



Column Drilling Machines **ZWB50F**



SKU : 470555

TRIAL MACHINE

Without CE mark, only for export to countries outside the EU

ZXB series box-column drill presses are the heavyweights of column drill presses. Their solid stability ensures superior performance for the most demanding applications. Absolutely zero vibration! They feature infinitely variable spindle speed and gear-driven quill feed. The setup table with motorized vertical movement makes handling of heavy parts easier. Table and head do not swivel for even greater rigidity and stability.

- Extremely rigid box column design
- Automatic quill feed
- Infinitely variable spindle speed
- Motorized table height adjustment
- Thread cutting unit

TECHNICAL SPECS

WORKING AREA

Drilling capacity	50 mm
Tapping capacity, steel	M 32
Table set up area	540 mm x 440 mm
Quill stroke	220 mm
Manual table travel	540 mm
Spindle nose-to-table surface distance	930 mm
Throat	340 mm

HEADSTOCK

Speed range	50-316,316-220 1/min
Spindle mount	MK 4

FEED

Quill feeds	0.08 mm/R - 0.5 mm/R
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DRIVE CAPACITY

Motor rating main drive	3 kW
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MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	1.12 m x 0.85 m x 2.12 m
Weight	1200 kg

PRODUCT DETAILS



Machine Frame

- The heavy box-column design ensures superior stability and rigidity, ensuring high precision and extremely low vibration when working with large drill diameters
- Base, stand, table, and gear head are made of thick-walled, vibration-damping cast iron
- The work table moves in wide dovetail guideways with large dimensions
- This design absorbs high axial and transverse forces caused by heavy-duty machining and very heavy workpieces
- A powerful motor positions the table at the desired height over the vertical spindle that is centered below the table
- Parallel positioned clamping slots simplify setup of workpieces on the drill table for high precision and reproducibility
- The work area of the vertical guideway is protected from chips and coolant splashes with a robust stainless steel cover
- The main spindle gears run in an oil bath, allowing for a very high torque across the entire speed range
- Manual central lubrication system simplifies regular maintenance
- The current spindle speed is shown on a digital display on the machine control panel
- The feed gear is integrated in the drill head and runs in an oil bath for low maintenance
- The automatic quill feed features an electromagnetic clutch for smooth and comfortable shifting via a button on the capstan handle
- The drill depth can be limited in the automatic feed via an electronic depth stop
- After reaching the desired drill depth, the feed will automatically shut off, and the quill will be returned to its zero position via spring force
- If the user selected the thread cutting function, this stop will also set the desired thread depth
- Upon reaching the set position, the machine will automatically reverse spindle rotation
- A powerful coolant pump is integrated in the machine base and is part of the standard equipment package
- The modern LED machine light is bright, long lasting, and provides optimum lighting for increased operator safety
- For quick tool changing, the machine features a spindle drive with an ejection function within the quill that requires no tools

Standard Equipment

- Thread cutter
- Protective shield
- LED work lights
- Coolant system

Sample product

- Only for markets outside the EU. Fully tested and fully functional machine, no warranty, but includes a 6-month warranty on replacement parts (wear parts excluded)
- For the EU market, we offer a wide portfolio of drill presses. Please visit our website for detailed information
- If you have questions regarding a product or sales limitations, please contact our sales experts



KNUTH on YouTube

Information to the point

On our YouTube channel you can find videos for nearly all machines from our program. We show the machines from current deliveries and you get an impression of the handling, the processing quality and the machining performance.

**Are you interested in a machine for which you cannot find a current video?
Please feel free to contact us!**