



SSB F Super VT Series

DRILLING MACHINES

Summary

Company Overview

Services

Series Highlights

Main Features

Intuitive all-in-one Touchscreen

Technical Data

Standard Equipment

Page

2

3

4

5

7

8

9





Everything for metalworking under one roof

KNUTH Machine Tools is a leading supplier of conventional and CNC machine tools. KNUTH is a global company with a presence in more than 30 countries.

In an area of 16.000 m² at our headquarters in Wasbek, Germany, we keep a complete selection of machines for all areas of machining and metal working ready for demos and quick delivery.



Open for you 24/7: Take a virtual tour through our warehouses, spare parts warehouses and workshop with Google Street View.

Quality Assurance for your KNUTH Machine

Quality by KNUTH Certified Quality Assurance

More than 1400 machines are shipped annually from our headquarters in Wasbek, Germany. Every machine has to pass a series of tests in our 5-level quality assurance process that covers everything from incoming quality control to alignment testing, and from functional, technical and geometric accuracy tests to the final acceptance test. These tests are conducted by our master technicians who use a dedicated customized data processing system for this purpose.

An ISO 9001 certified quality management system ensures continuous control and improvement of all quality-relevant activities. Design, development and precision of each individual machine are documented exactly in detailed inspection protocols and acceptance test logs.

All-Encompassing KNUTH Service Worldwide Reliability

Trust our global qualified staff take care of everything from installation and maintenance to repairs and upgrades quickly and professionally.



The Process of Making a KNUTH Machine Tool



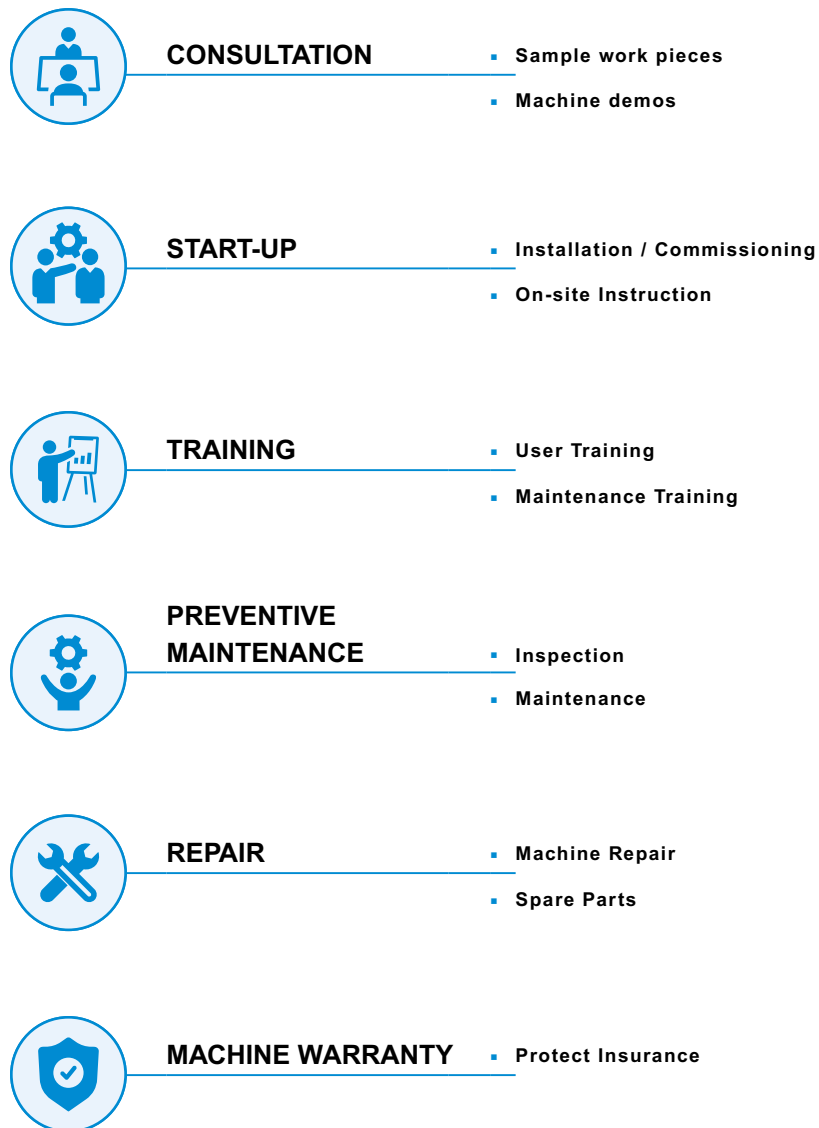
KNUTH Machines in Action

Visit our YouTube page to experience machines in action before the real-life test on site

Subscribe to our YouTube channel - Go to KNUTH Machine Tools!

Reliable service from a single source

We provide highly qualified technicians and engineers all over the world to ensure reliable service from one central source. And our global supplier network ensures prompt availability of replacement parts and consumables at a local level.



KNUTH Technical Service Help Desk

Tel. +49 4321 609-273

service@knuth.de

KNUTH Parts Service

Tel. +49 4321 609-229

ersatzteile@knuth.de

Our Service Help Desk is available 24/7 online at: knuth.de/servicedesk



TOUCHSCREEN CONTROL PANEL WITH ADVANCED FUNCTIONS

INFINITELY VARIABLE SPEED CONTROL

AUTOMATIC FEED WITH MANUAL TRANSMISSION

MOTORIZED TABLE HEIGHT ADJUSTMENT

SSB F Super VT Series Column Drilling Machines

Models

SSB 40 F Super VT
SSB 50 F Super VT

- SSB Super VT Series drill presses are the right choice for any workshop, from maintenance to finishing. These rugged drill presses feature a touchscreen control panel display that also provides user support for selecting the right operating parameters.
- The spindle speed is infinitely variable, and the quill feed features a rugged manual transmission. The setup table has motorized vertical movement for easier handling of heavy parts
- These drill presses are ideal for costum and small-series machining, but also for maintenance and in the steel and industrial construction sector.

Main Features

Machine construction



- This heavy-duty drilling machine is built with a solid cast iron construction for maximum rigidity and durability.
- The thick-walled columns provide added stability and strength, while the large throat allows for the drilling of large workpieces.



- The base, column, table, and gear head are all made of premium high-quality cast iron, which ensures years of reliable performance.
- This machine is ideal for demanding industrial applications, such as metalworking and fabrication.

Working table



- This versatile drilling machine features a $\pm 45^\circ$ table swivel capability, allowing you to easily drill angled holes.
- The table can also be rotated around the column centre line to make room for tall workpieces.



- The large work table provides a stable and secure platform for your workpieces, and the table height adjustment via a powerful motorized drive makes it easy to position the table at the desired height.

Main Features

Headstock



- This drilling machine features a high-power 2-step motor and an inverter-controlled spindle speed for smooth and efficient drilling.
- The spindle speed can be adjusted in two gear stages, providing a wide range of speeds for different materials and applications.
- The gears of the main spindle drive run in an oil bath for maximum reliability and minimum wear. All transmission parts inside the headstock are made of special wear-resistant material, ensuring long life.



- This automatic drilling machine features an electromagnetic clutch that controls the automatic drill feed.
- This can be switched on and off from the button on the handle, and there are several different feed rates to choose from.
- In manual operation, the exact drilling depth can be set using the stop system on the capstan handle.

Spindle



- The touchscreen interface allows you to easily enter the desired drilling depth.
- The automatic feed switches off when reaching the selected drilling depth, which prevents the drill bit from over-traveling and damaging the workpiece.



- This series has integrated threading function. Once activated, the machine changes automatically the direction of rotation of the spindle when the selected depth is reached.

Machine Control

Intuitive all-in-one-touchscreen

- This drilling machine features a rugged 8" touchscreen specially designed for heavy daily workshop use. The touchscreen is intuitive and easy to use, requiring no programming knowledge.
- Easy handling of the machine ensures effortless operation and increases productivity.



- The current speed is displayed on the touchscreen and is infinitely variable, allowing you to fine-tune the drilling process for the best results.
- The electronic depth stop can be easily set up and the current position shown on the screen.
- The built-in operating hour counter aids in monitoring service intervals and in cost calculation, helping you to keep your machine in top condition.

Machine functions controlled from touchscreen

- Drilling assist system
- Spindle speed adjustment
- Spindle speed display
- Spindle direction of rotation
- Setting the drilling depth
- Real-time quill position display
- Switching between Drilling/Tapping
- Table height positioning
- Coolant system ON/OFF
- Changing the unit measurement mm/inch
- Counter for working hours

- Measuring units for input and display can be selected by the operator (mm or inch), making it versatile for a variety of applications.



- The built-in drilling assists system helps the operator in selecting the correct machining technology values, such as the spindle speed and feed, depending on the drill diameter and material.

	Tool DIA	AXIS SPEED		MATERIAL	
	16	275		STEEL	
Processing methods	Dia mm	Casting		Steel	
		r/mm	mm/r	r/mm	mm/r
 Drilling	6	850	0.2	850	0.1
	8	660	0.2	660	0.1
	12	420	0.2	420	0.2
	16	275	0.2	275	0.2
	20	275	0.2	275	0.2
	25	185	0.3	185	0.2
	32	120	0.3	120	0.2
	40	120	0.3	120	0.2
	50	78	0.3	78	0.2

Technical Data

Technical Data		SSB 40 F Super VT	SSB 50 F Super VT
Working Area			
Drilling capacity	mm	40	50
Tapping capacity, steel		M 24	M 30
Table set up area	mm	540 x 440	570 x 460
Quill stroke	mm	190	200
Manual table travel	mm	540	530
Powered table travel	mm	430	410
Table swivel range (max.)		± 50°	± 45°
Column diameter	mm	140	180
Spindle nose-to-table surface distance	mm	595	550
Spindle nose-to-foot distance	mm	1195	1175
Throat	mm	340	360
Headstock			
Speed range	1/min	60 - 2600	50 - 2200
Spindle mount		MK 4	MK 4
Feed			
Quill feeds	mm/R	0,1; 0,2; 0,3; 0,4	0,08; 0,12; 0,17; 0,24; 0,35; 0,500 (6)
Drive Capacity			
Motor rating main drive	kW	2	2,2
Measures and Weights			
Length	m	0,88	1,15
Width	m	0,64	0,68
Height	m	2,23	2,36
Weight	kg	565	650

* Due to the process of constant improvement, products and product's data can change without notice.

Standard Equipment

Touchscreen controller



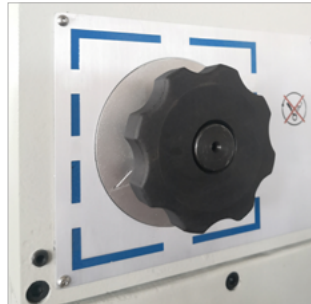
- Intuitive all-in-one 8" touchscreen with build-in drilling assist system for effortless operation and increased productivity.

Thread cutting function



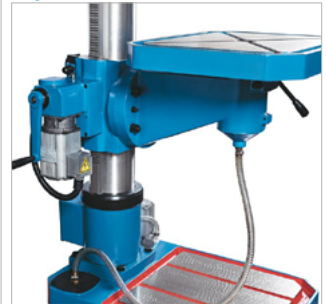
- When the selected thread depth is reached, the machine automatically changes the direction of rotation of the main spindle.

Automatic spindle feeds



- Automatic drill feeds controlled by electromagnetic clutch
- 4 drilling feeds for SSB F 40 Super VT
- 6 drilling feeds for SSB F 50 Super VT

Motorised table height adjustment



- The height adjustment of the table is done by motor and is conveniently controlled from the control panel

Accessory set for drilling



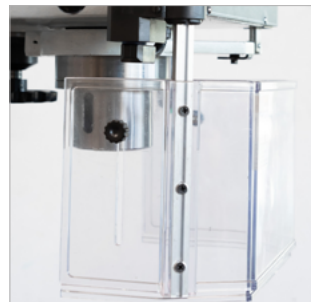
- Contains:
 - Drill chuck with key B16
 - Reduction sleeve: MT4 / MT3
 - Reduction sleeve: MT4 / MT2
 - Reduction sleeve: MT3 / MT1
 - Drift bolt.

Coolant system



- The coolant system is activated on the touchscreen, keeping the drill bit cool and preventing it from overheating.

Protective shield



- With interlock system for increased safety.
- Height adjustable.

LED work lamp



- Rugged LED work light, with protection from sprayed water, is bright, energy-efficient, and promotes safe and productive work.

Operator instructions



- Installation instructions
- Operation manual
- Maintenance plans
- Electrical diagrams
- Spare parts lists



KNUTH Werkzeugmaschinen GmbH

Schmalenbrook 14

D-24647 Wasbek / Neumünster

Tel. +49 (0)4321 - 609-0

Fax +49 (0)4321 - 68900

E-Mail info@knuth.de

www.knuth.com

Subject to change without notice. Errors and omissions excepted.

