



# **VERTICAL LATHES**

## **VSC**

# STANDARD FEATURES

- Extremely Rigid Design
- High performance
- Fully enclosed machine
- Fixed ram on travelling cross rail
- ATC magazine outside of work area
- SK 50 tool clamping
- SIEMENS/FANUC control
- Optional „C“ Axis
- VSC 800 L features cross table bearing



# STANDARD TECHNICAL DATA

**Vertical lathes VSC are being manufactured in 3 size standards „S“, „M“ & „L“**

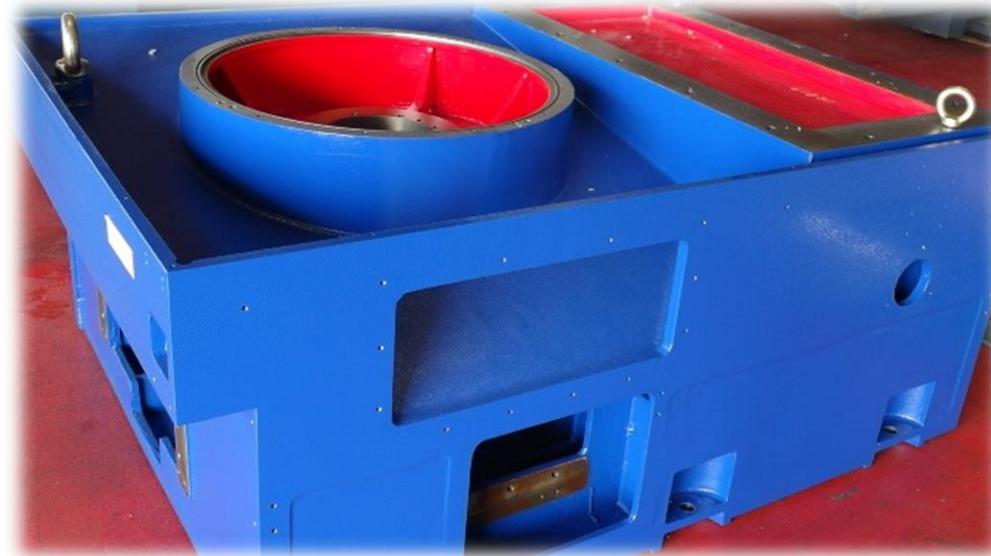
- Hydraulic chuck 380-900 mm or manual clamping plate incl. vices up to 1100 mm
- Maximum swing diameter up to 1150 mm
- Maximální turning height up to 1000 mm
- Maximální part weight up to 4000 kg
- Machine net weight 14000 to 19000 kg



**Available machine sizes and options allow machine customisation to meet specific requirements.**

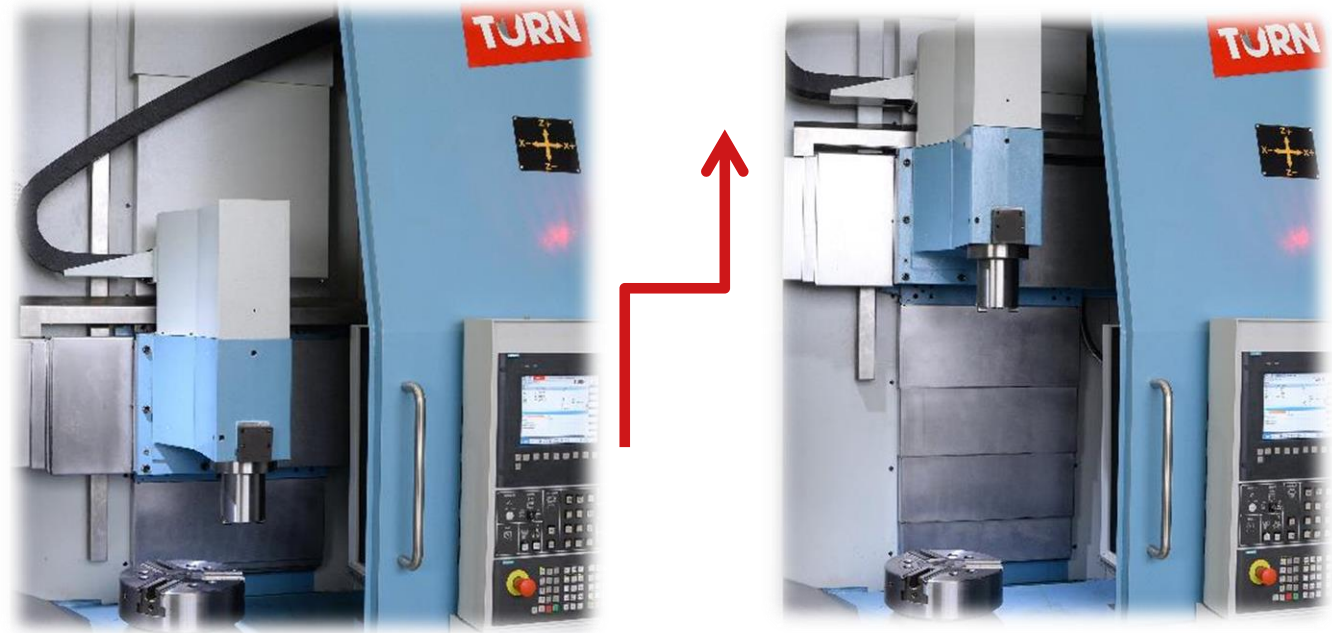
# BED AND COLUMN

- Single cast robust components
- Cast iron allowing guide ways hardening
- Ribbing to eliminate vibrations



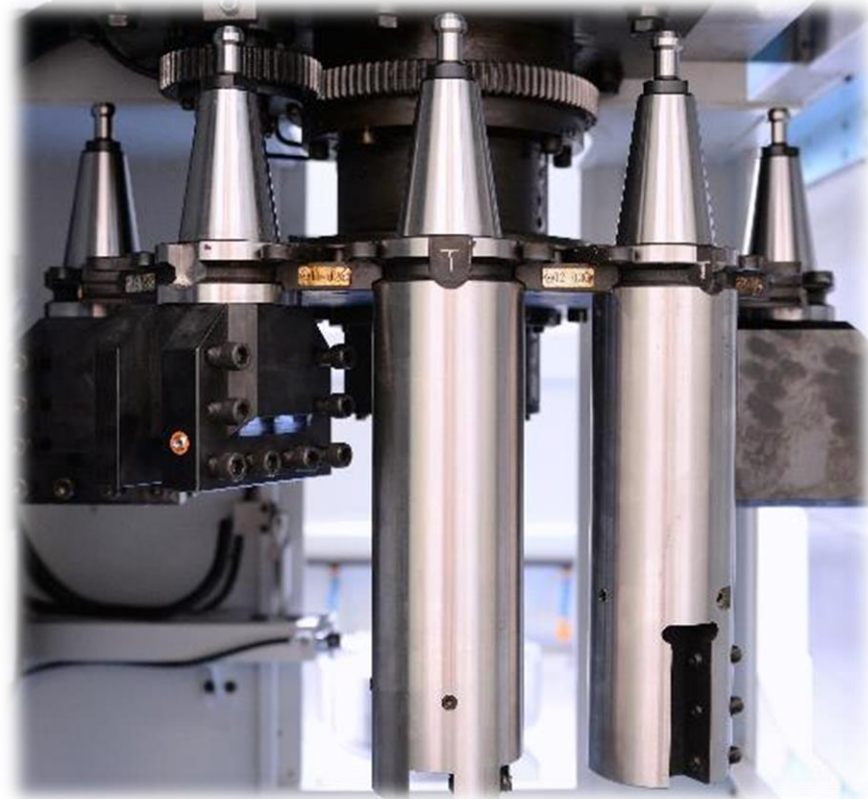
# TRAVELLING CROSS RAIL, FIXED RAM

- Z-Axis travel by movable cross rail
- High rigidity due to fixed ram
- Linear rolling guideways
- Sliding guideways optional
- 52 to 56 HRC guideway hardness
- Rapid traverse up to 30 m/min.



# AUTOMATIC TOOL CHANGE

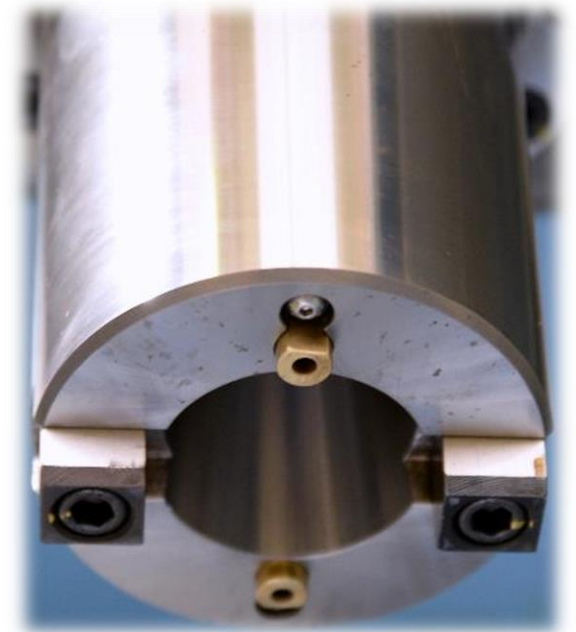
- ATC magazine outside of work area
- 12 (16) positions, more available
- Max. tool weight 40 kg
- Rotary and turning tools on one disc
- Simple and easy to access ATC also at the time of machining process
- Simple tool change



# TOOL HOLDER CLAMPING

## ACCURATE AND RIGID

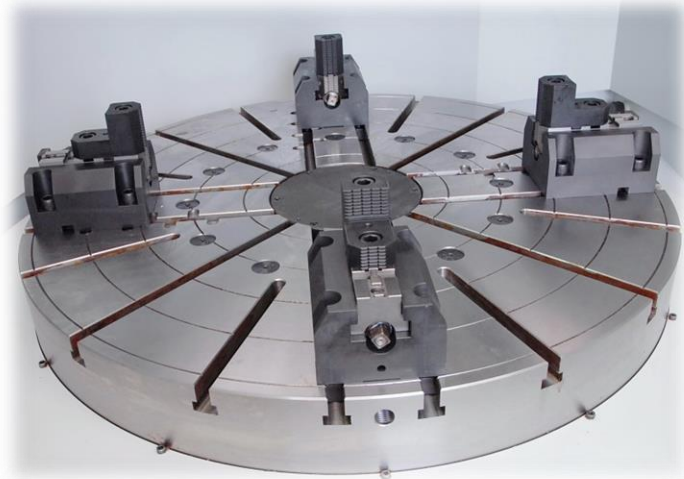
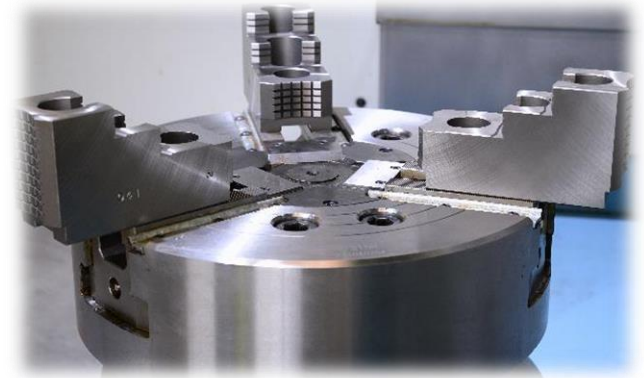
- Tool holders clamped direct into spindle by SK 50 taper
- Outside tool cooling
- Through spindle cooling (lathes „+C“ – with C-axis)



# PART CLAMPING

## ACCURATE, RIGID, VARIABLE

- Standard hydraulic chuck
- Optional clamping plate with vices





# CONTROL SIEMENS SINUMERIK

- Wide range of options in standard version
- Options and functions for specific needs
- Great support
- Simple use and amntenance
- Wide spread industry-wide
- Own PLC
- All messages in English



# DESIGN FEATURES

- Linear scale feedback HEIDENHAIN
- Efficient chip removal from work area
- A/C for main electric panel
- Linear or sliding guideways
- Powerful drives
- Efficient gearbox



## COMMON APPLICATIONS OF VSC MACHINES



VERTICAL LATHES VSC ARE SUITABLE FOR SINGLE PIECE AND SMALL SERIES MACHINING.

TYPICAL PARTS ARE:



Pegs



Stators



Pulleys



Drives



Flanges

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