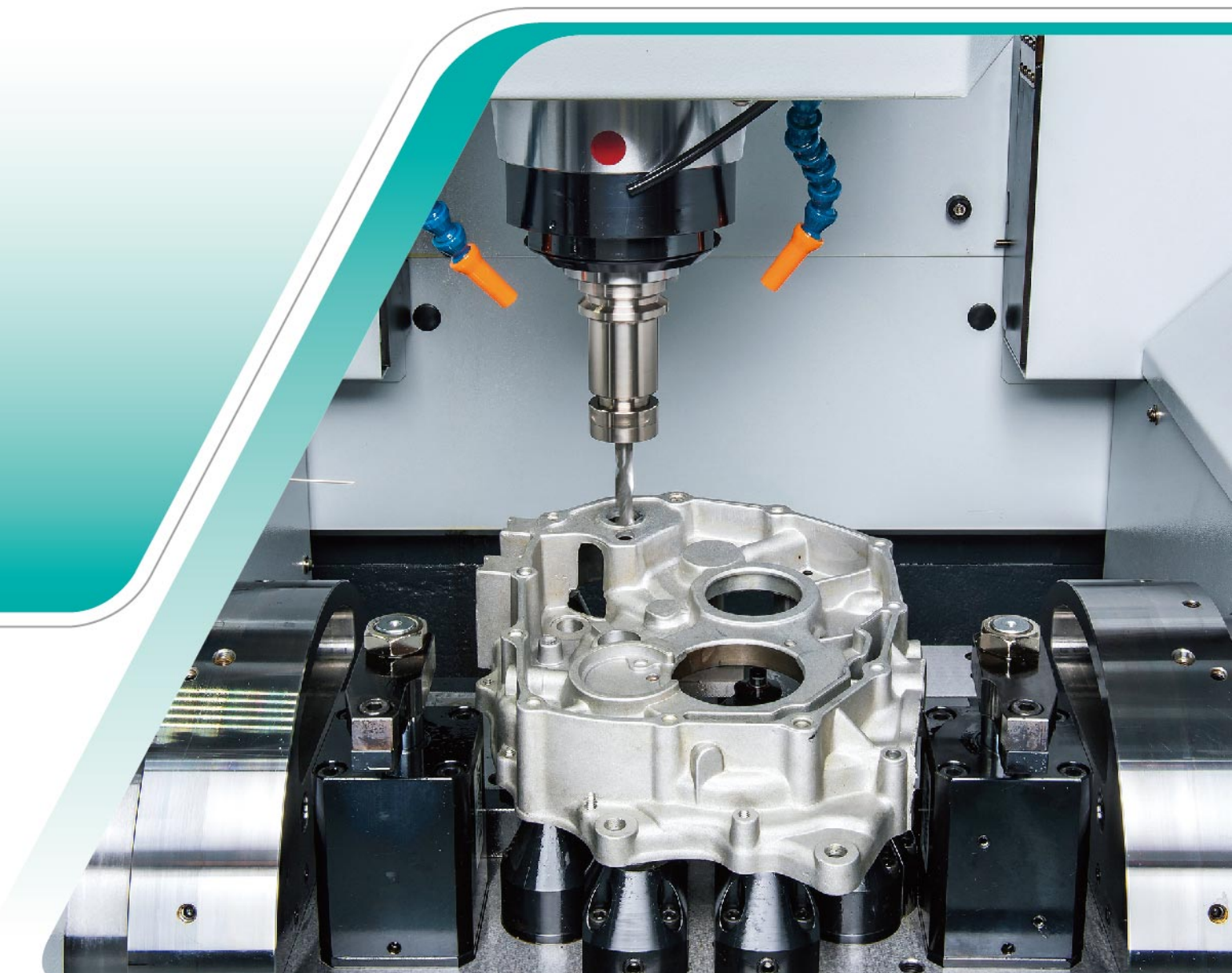


Specifications

MODEL	SV350
TRAVEL	
X AXIS TRAVEL	350
Y AXIS TRAVEL	300
Z AXIS TRAVEL	250
SPINDLE NOSE TO TABLE SURFACE	175~425
TABLE SURFACE TO FLOOR	820
TABLE	
TABLE DIMENSION	450X350
MAX.LOADING WEGHT	300
T-SLOTS (W×NO.×P)	12X3X125
SPINDLE	
SPINDLE SPEED	10000
SPINDLE NOSE	7/24Taper No.30
SPINDLE MOTOR	3.7/5.5
FEEDRATE	
RAPID TRAVERSE X AXIS	36
RAPID TRAVERSE Y AXIS	36
RAPID TRAVERSE Z AXIS	36
AUTOMATIC TOOL CHANGER	
NO. OF TOOLS	10
PULL STUD	P-30T(45°)
MAX. TOOL WEIGHT/total tool	3
MAX. TOOL LENGTH	150
MAX. TOOL DIAMETER	Ø 60
FLOOR SPACE	1330 X3300
MACHINE WEIGHT	4000
MAX. MACHINE HEIGHT	2550
POWER CAPACITY	18 (KVA)
AIR SOURCE	6~8(bar)

Standard and Optional Accessories

Function	STD	OPT
DDS10000(3.7/5.5kW)	•	
BBT30 interface	•	
BT-30 (Y Lock type)/10T	•	
G00 : 36/36/36 m/min	•	
Coolant nuzzles on spindle	•	
LED work light	•	
Heat exchanger	•	
Lubrication (grease, manual)	•	
Spindle air blow	•	
Spindle unclamping air blast	•	
Full guarding cover	•	
Leveling bolt and blocks	•	
3-color indicator	•	
Rigid tapping	•	
<hr/>		
DDS12000		•
G00 : 48/48/48 m/min		•
CTS		•
A axis		•
Lubrication (grease, auto)		•
Auto door + light grid		•
Auto tool measuring		•
Workpiece measuring		•
Coolant gun		•
Chip conveyor		•
Spindle cooler		•
Transformer		•
Air gun		•



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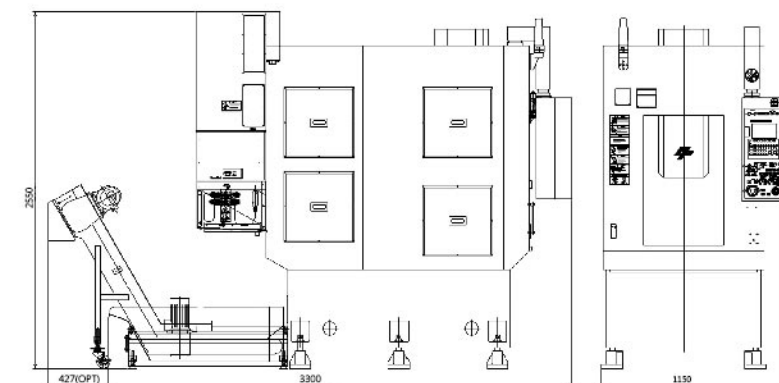
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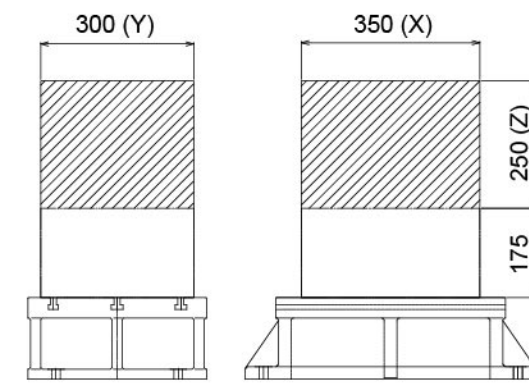
ISO 9001
ISO 14001



Dimensions



Working Area



www.feeler.com

SV SERIES

VERTICAL MACHINING CENTER
COLUMN TRAVELING TYPE

15.01.1000-S601000001

SV series

High Efficiency • High Stability • High Productivity



WORLD STANDARD MACHINE

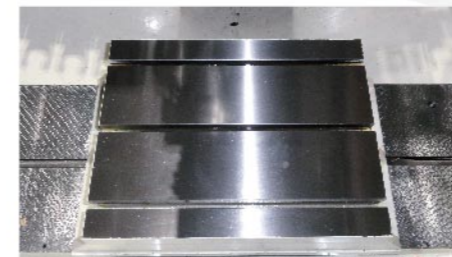
Design Concept

Column traveling structure

- ▶ Separated axes movement and machining areas
- ▶ Compact dimensions for minimum floor space requirement
- ▶ Multiple units connected to set up production line for mass production

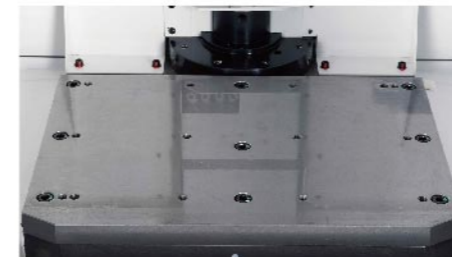
Zero malfunction

- ▶ Cam type tool clamping
- ▶ Coil spring for spindle clamping mechanism, instead of disc spring
- ▶ Spindle to tool magazine direct tool changing, without arm mechanism
- ▶ Reinforced spindle water-proof design avoids bearing damage



Single Table

The single table is mounted on the base. No limit of workpiece weight, also providing high rigidity.



Dual Tables

Dual tables for auto pallet changing (APC), provide maximum productivity while reducing loading/unloading lead time.

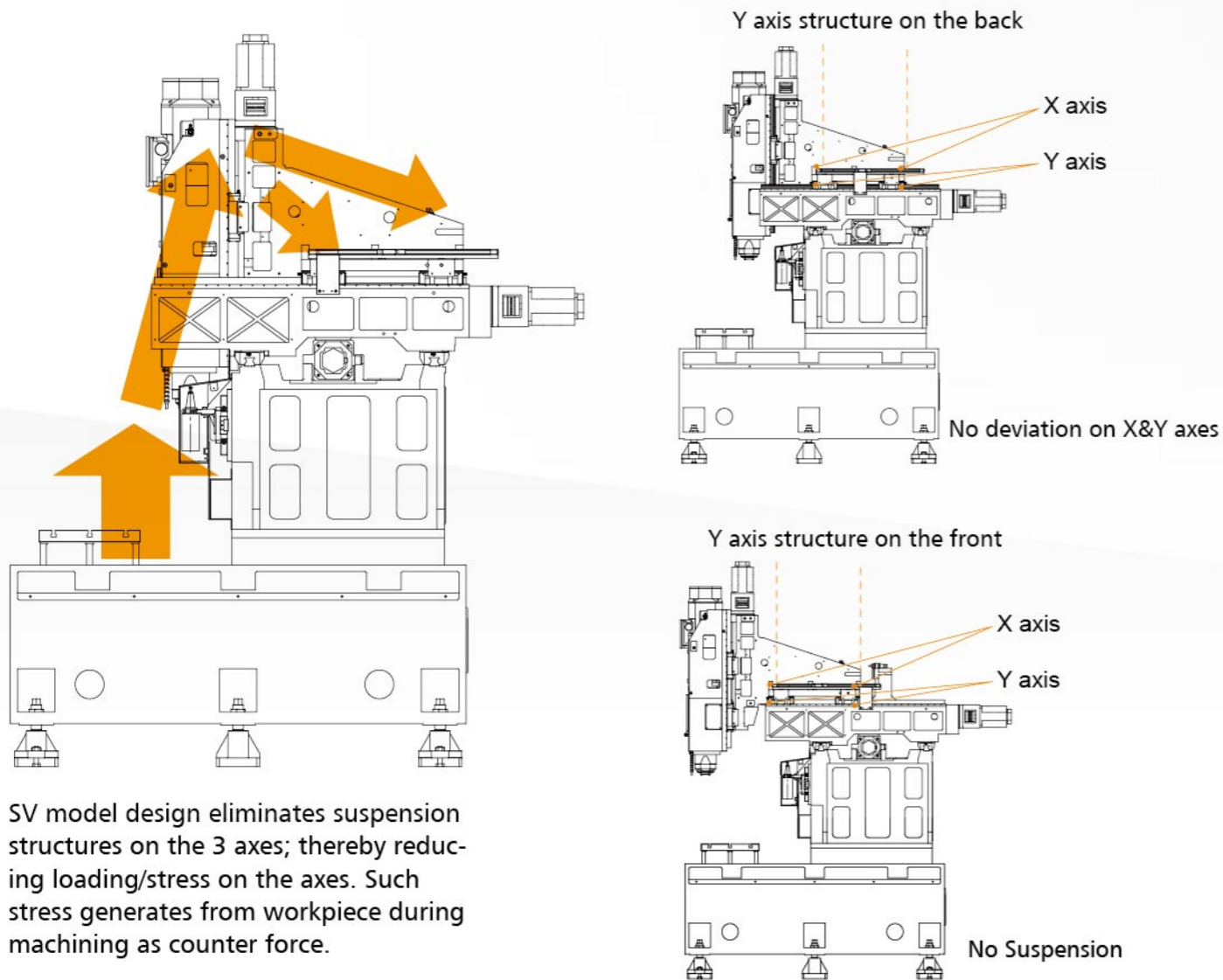


A/C axis table

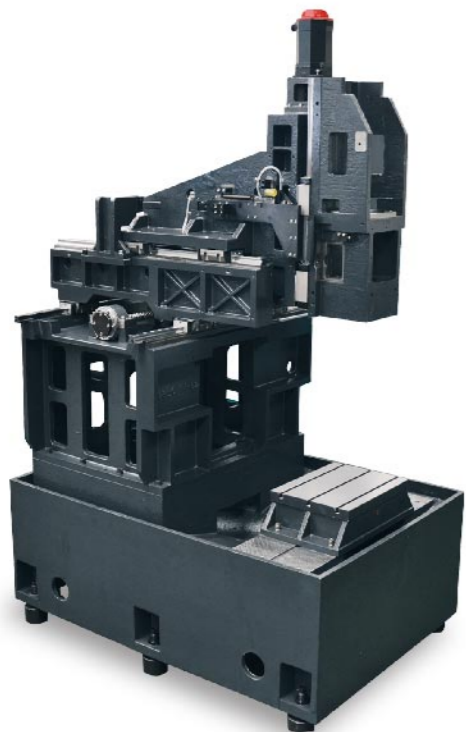
Adopts A/C axis table to enable 4+1 axis contour machining.

Effective Design

Designed by Abbe's principle



SV model design eliminates suspension structures on the 3 axes; thereby reducing loading/stress on the axes. Such stress generates from workpiece during machining as counter force.



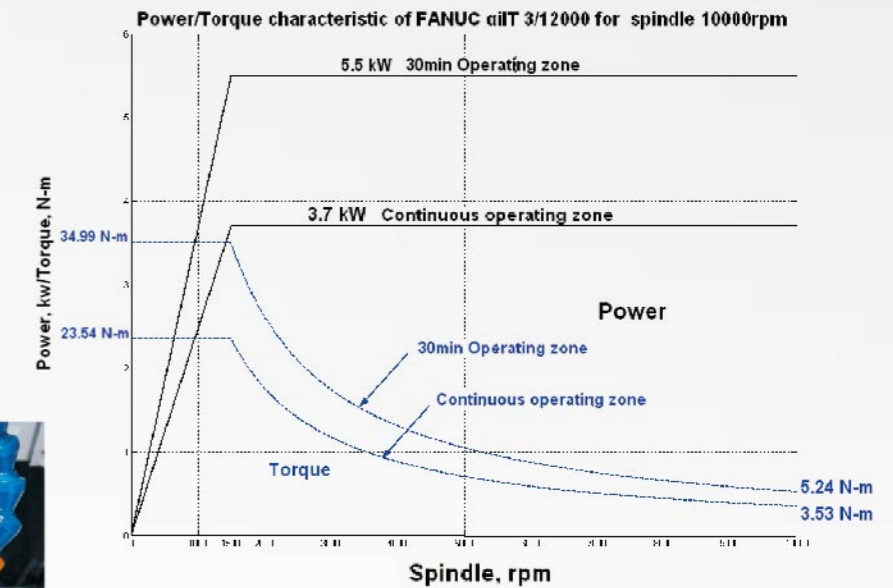
“Realizing heavy duty cutting with high rigidity and accuracy”

The overlapped-3 axes, travelling-column structural design features deviation-free movement while Y axis and X axis are travelling. The spindle is mounted on Z axis with minimum distance and suspension. Therefore, the variable loading on spindle is controlled in a low range for best possible dynamic balance.

Features

Spindle

- Spindle taper **#30**
- Spindle bearing **ø60**
- Transmission **DDS**



Speed **10,000 RPM**
 Power (cont. /30min) **3.7 / 5.5KW**

2-face Tool Holding(BBF30)

2-face tool holding provides excellent dynamic rigidity and accuracy

Coolant through spindle(CTS)

Increase deep hole capability, coolant with high pressure through spindle and tools upon cutting point.

Roller Type Guide Rails

Roller type guide rails on X/Y/Z axes provide optimal rigidity and reliability

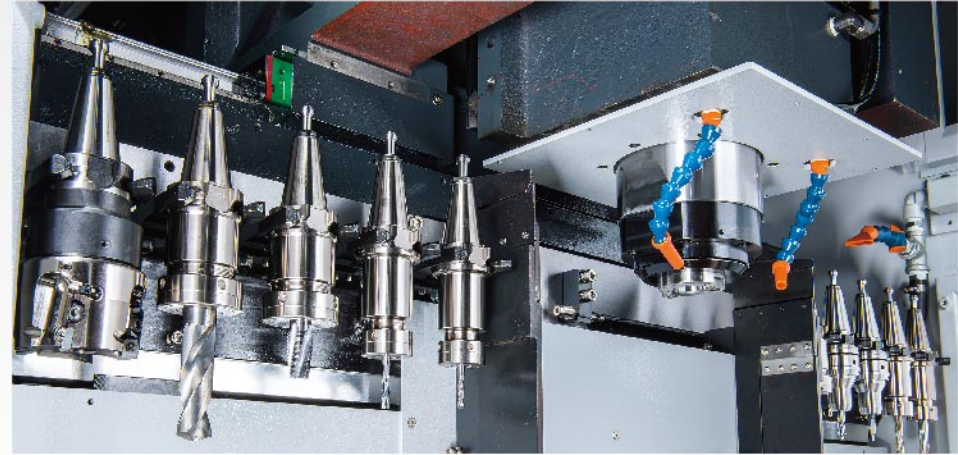
Cutting Capacity

Material : Aluminum

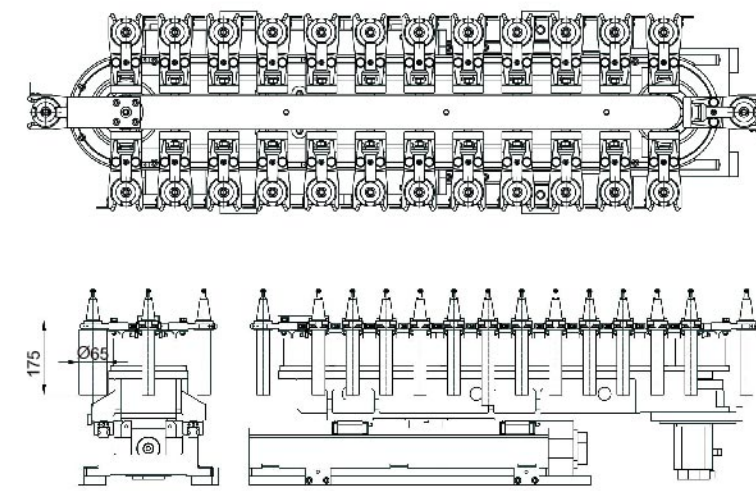
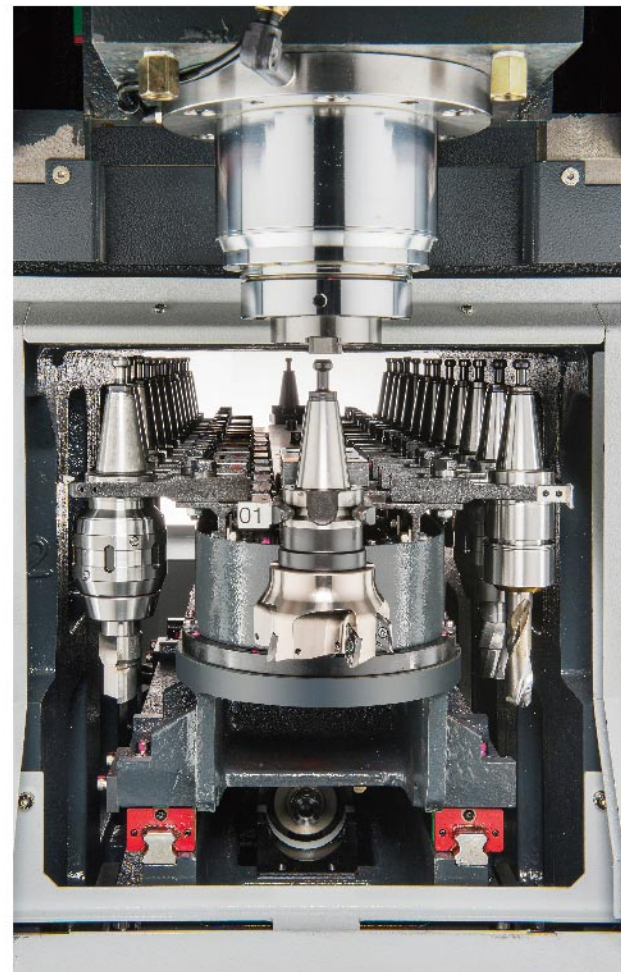
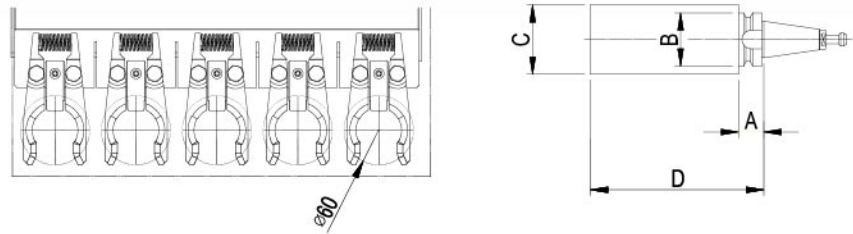
Type	
Tapping	Boring
Diameter(mm) × Pitch(mm/rev)	Width(mm) × depth(mm/rev) × federate(mm/min)
M12/M16-M20	φ 60 × 10 × 3000

Wine Rack ATC Mechanism

Equipped with front-positioned Wine Rack magazine, the spindle directly changes tools for shorter tool changing time and reduced malfunction. (10 tools)



Tool Spec (BT30-10T)	
Tool shaft	BT30
Size A	(mm) 22
Size B	(mm) 46
Max. tool diameter (mm)	ø60
Max. tool length (mm)	150
Max. tool weight (kg)	3



26 tools servo of ATC (OPT.)

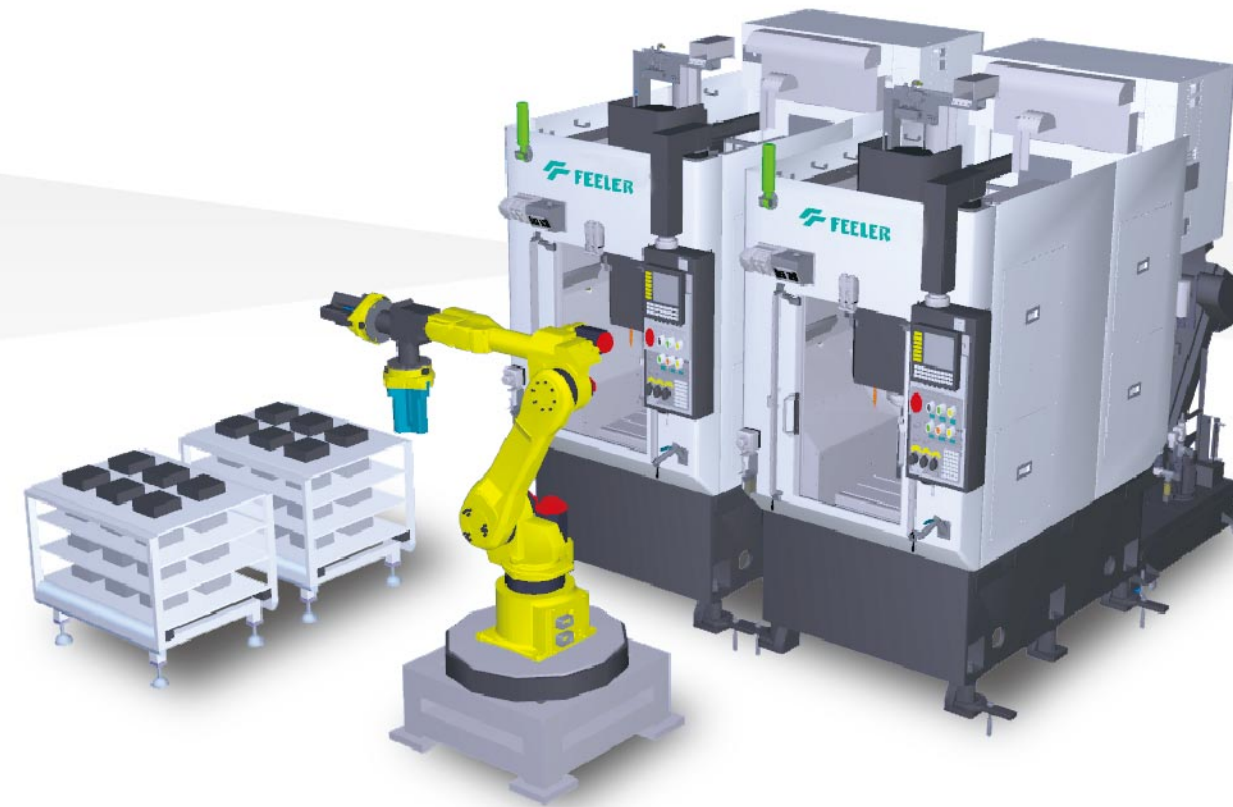
Automation and Lineup Mass Production

Automated, unmanned production when robots are employed

Multiple units lined up with gantry robot to realize a production line

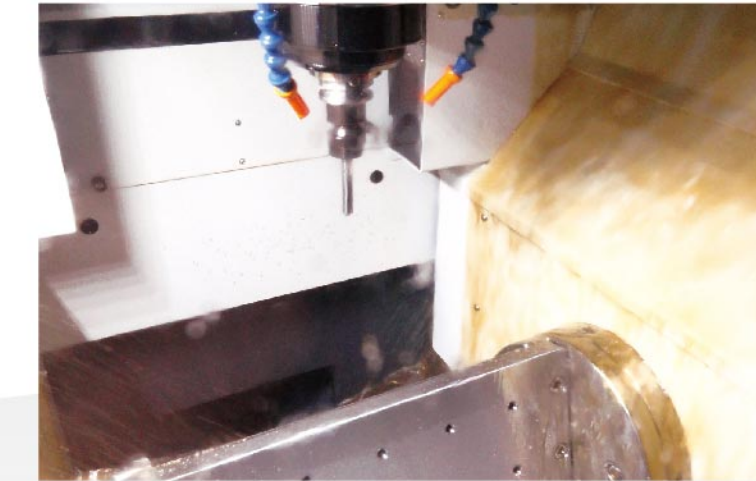


Robot Automation system



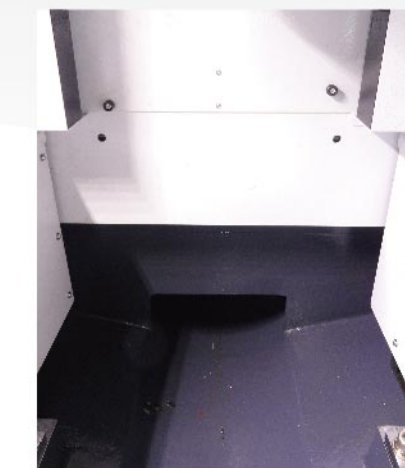
Working Area

Fully covered working area avoids oil mist spreading and prevents chip from entering mechanisms. LED light is equipped for energy-saving and bright illumination



Chip Flushing

Main flushing flows on 2 sides and nozzles on the bottom provide effective and strong chip removal. Chips are discharged from the center channel.



Centralized chip removal

High efficiency of chip removal from a center channel. Perfect solution for mass production.



Easy Maintenance

Lube and valves are placed together for easy maintenance.



Control Box

Swivel upper arm of the control box allows flexible positioning of the control box for operational needs.