

SY2-26B

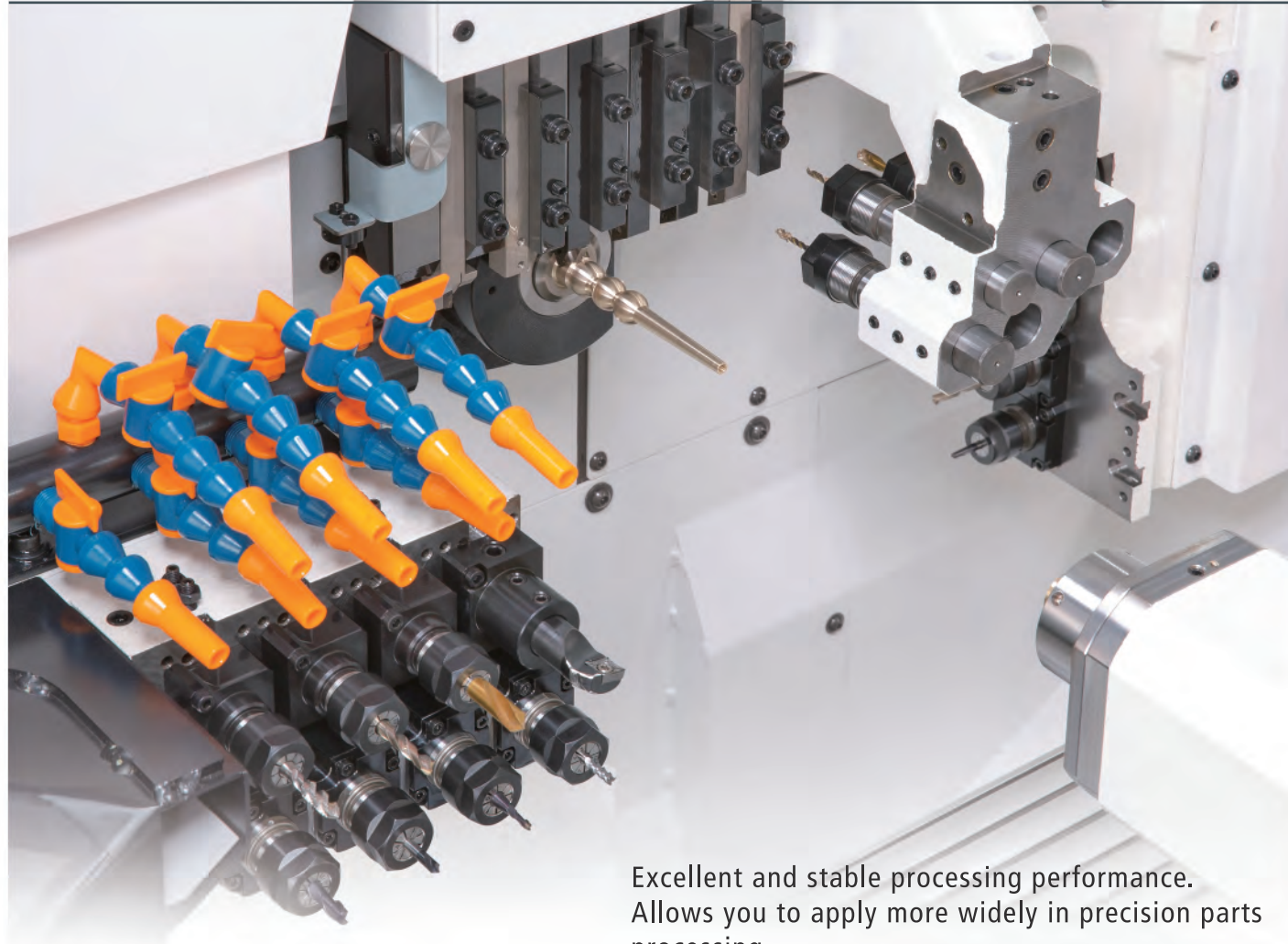


Double built-in spindle.
Maximum 30 tool position & Y2 axis.
Removable guide bush.



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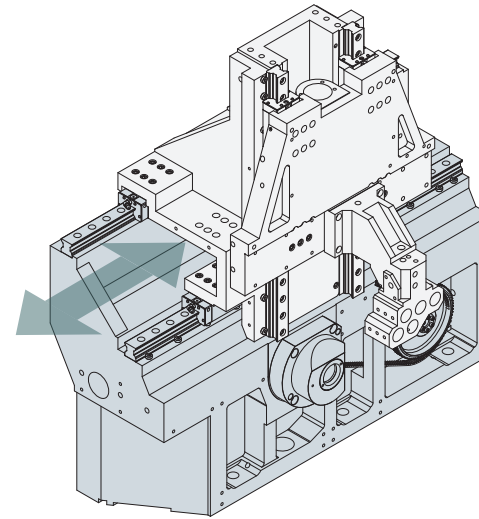
Comprehensive To Meet Your Needs



Excellent and stable processing performance. Allows you to apply more widely in precision parts processing.

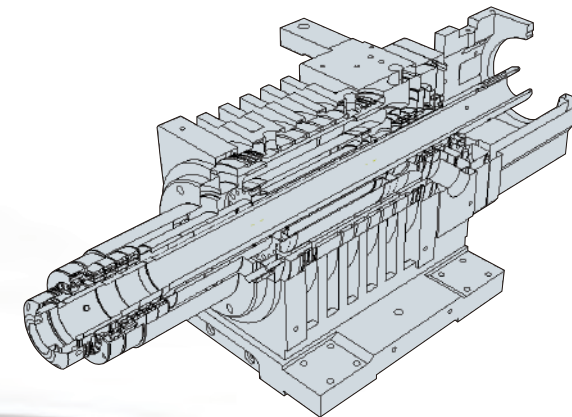
- + Double built-in spindles with high accuracy C axis, max. speed 10000 rpm.
- + The large number of available tools increases your productive time, efficiency to process turning, milling, drilling and back machining.
- + Front tooling system provides 6 O.D. tools, 5 I.D. tools and 3 radial live tools plus 2 expansion adapter live tool units.
- + Back tooling system on Y2 axis can have a max. of 8 live tools, also provide two deep drilling holders beside the sub spindle.

High Rigidity Construction And Design



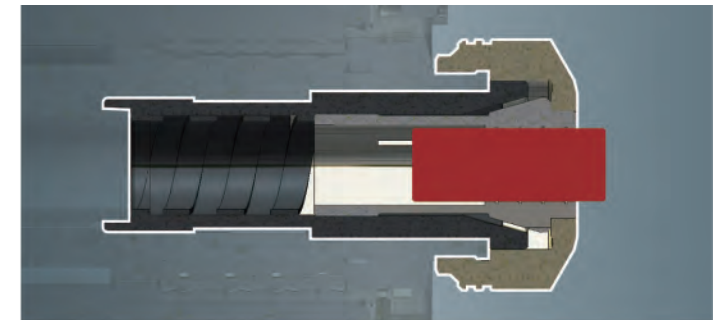
Excellent Machining Accuracy

All axes use two precision roller type linear guides to achieve high stability movement and accuracy machining.



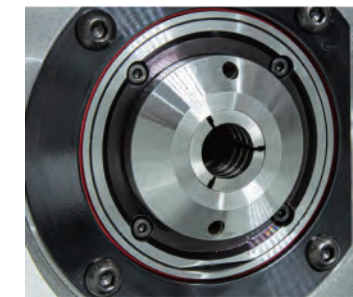
Built-in spindle motor reduces machining errors

Main and sub-spindle adopt precision built-in motors, which accelerates quickly, torques greatly, reduces processing vibration, and has a maximum speed of 10,000 rpm.

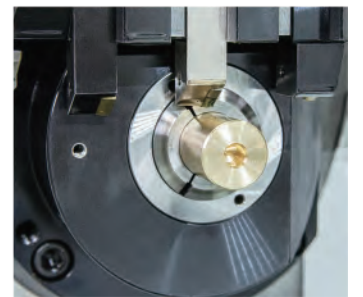


Removable guide bush

The material can be closer to the processing position to minimize the length of remnant and reduce costs.



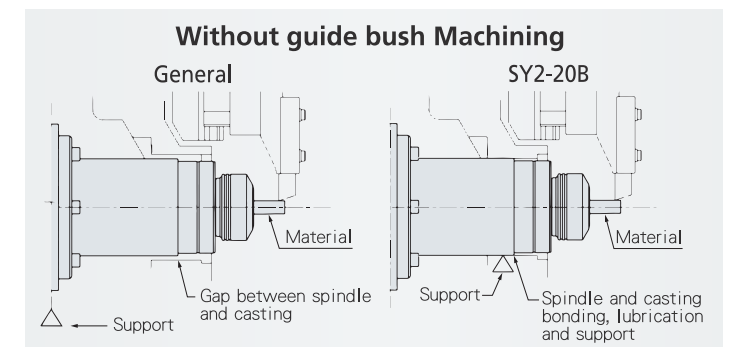
Without guide bush



With guide bush

Activity guide set

The guide sleeve and spindle rotate synchronously. Provide stable support while achieving higher machining accuracy and greatly reducing material wear.



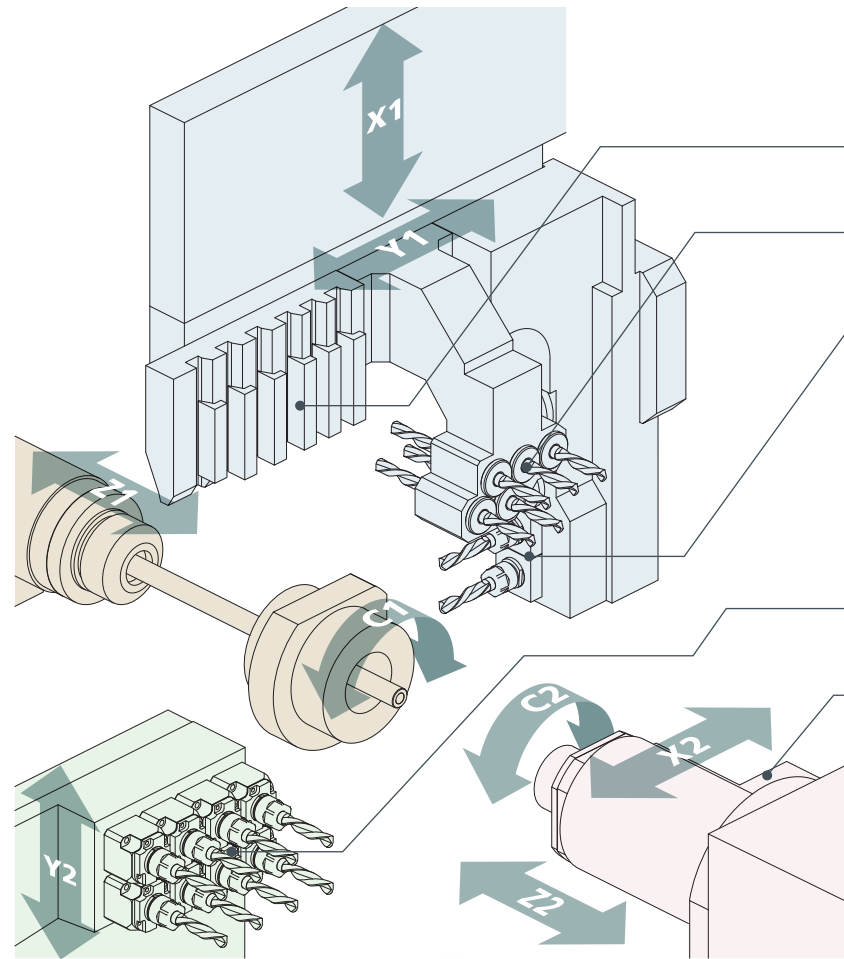
High Rigidity machine structure

Unique designed support from a highly rigid body to ease cutting vibration and increase machining stability.

Application industry

- + Pneumatic / hydraulic components
- + Automotive, motorcycle and bicycle parts
- + Sanitary and toilet parts
- + Electronic and electrical parts
- + Hardware accessories
- + Instrument parts

Processing Variation Performance



Front tooling system

- + O.D tools □12mm*6
- + I.D tools Ø22*5 (ER-16*3、ER-20*2)
- + Radial live tool system*5
(live tool holder*3 / expandable live tool holder*2)

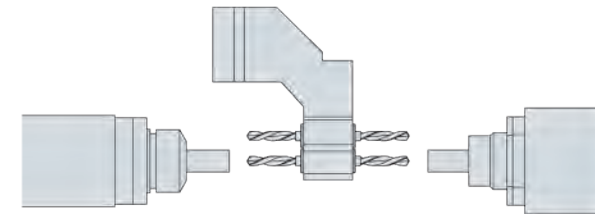
Back tooling system

- + Axial live tool system*8
- + Deep drilling holder station*2

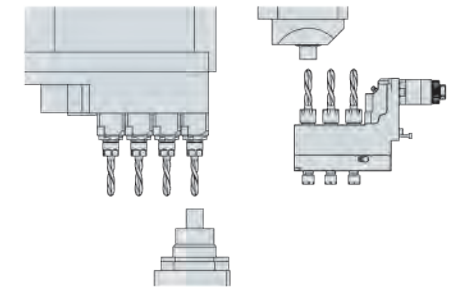


Variations

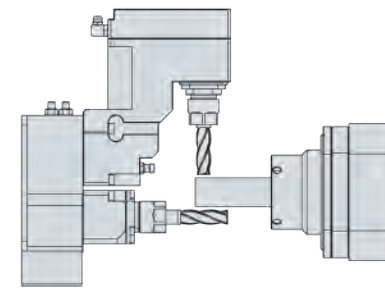
Main and sub simultaneous drilling



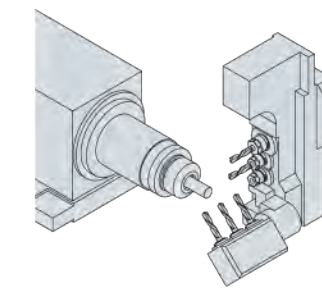
Main and sub-spindle overlap drilling



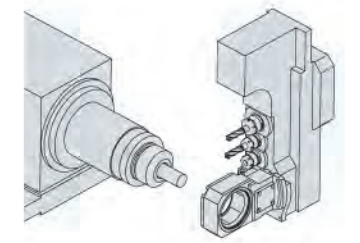
Cross-drilling at back side



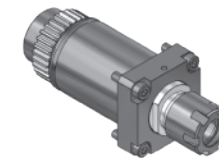
Angle Live Tool



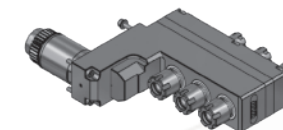
Thread Whirling tool holder



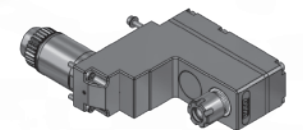
+ Power tools



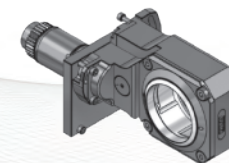
+ 1-to-3 end-face power unit



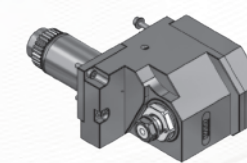
+ End-face power unit



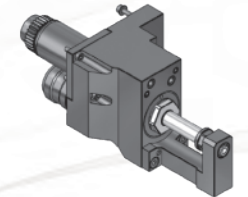
+ Thread Whirling tool holder



+ Polygonal tool holder



+ Slot milling tool holder

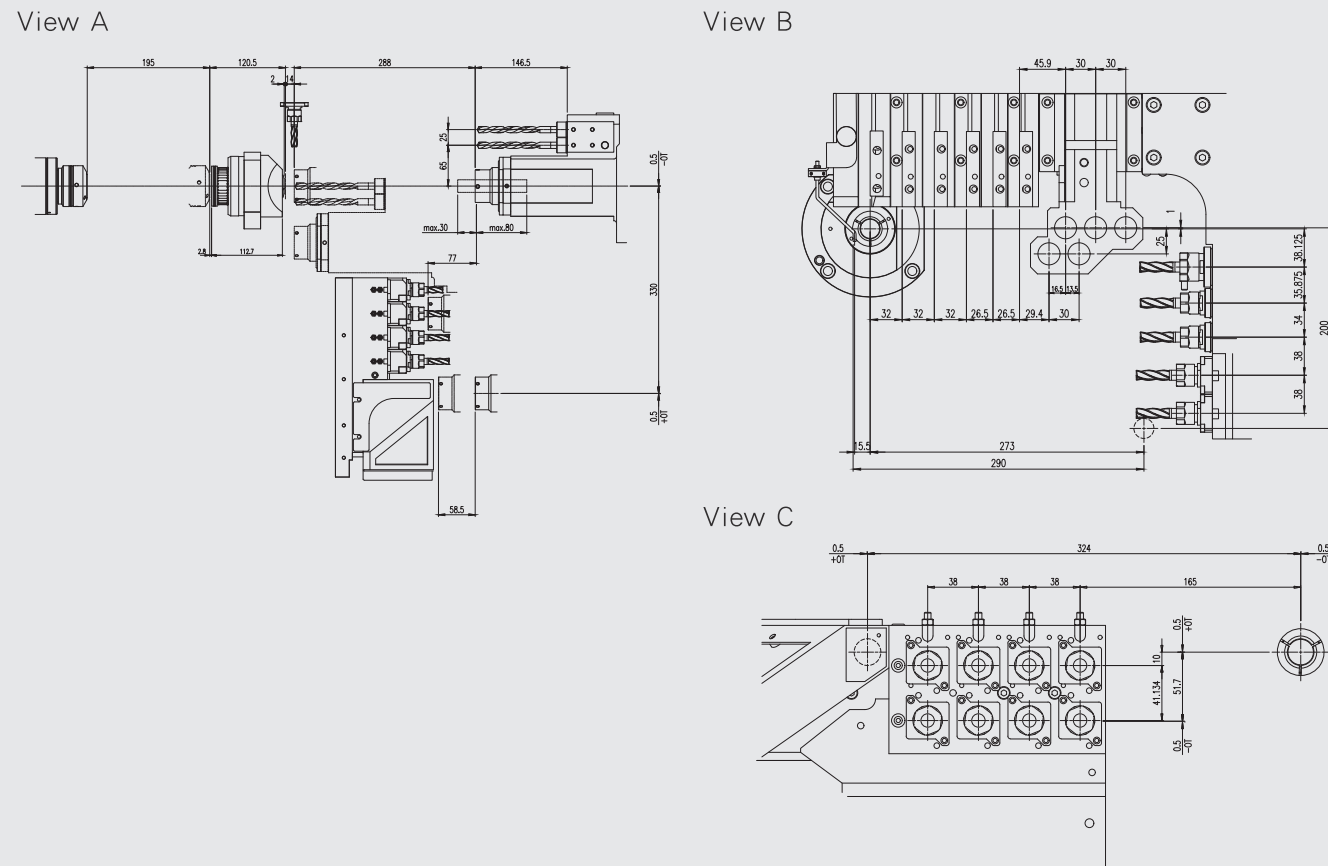


Cut off inspection

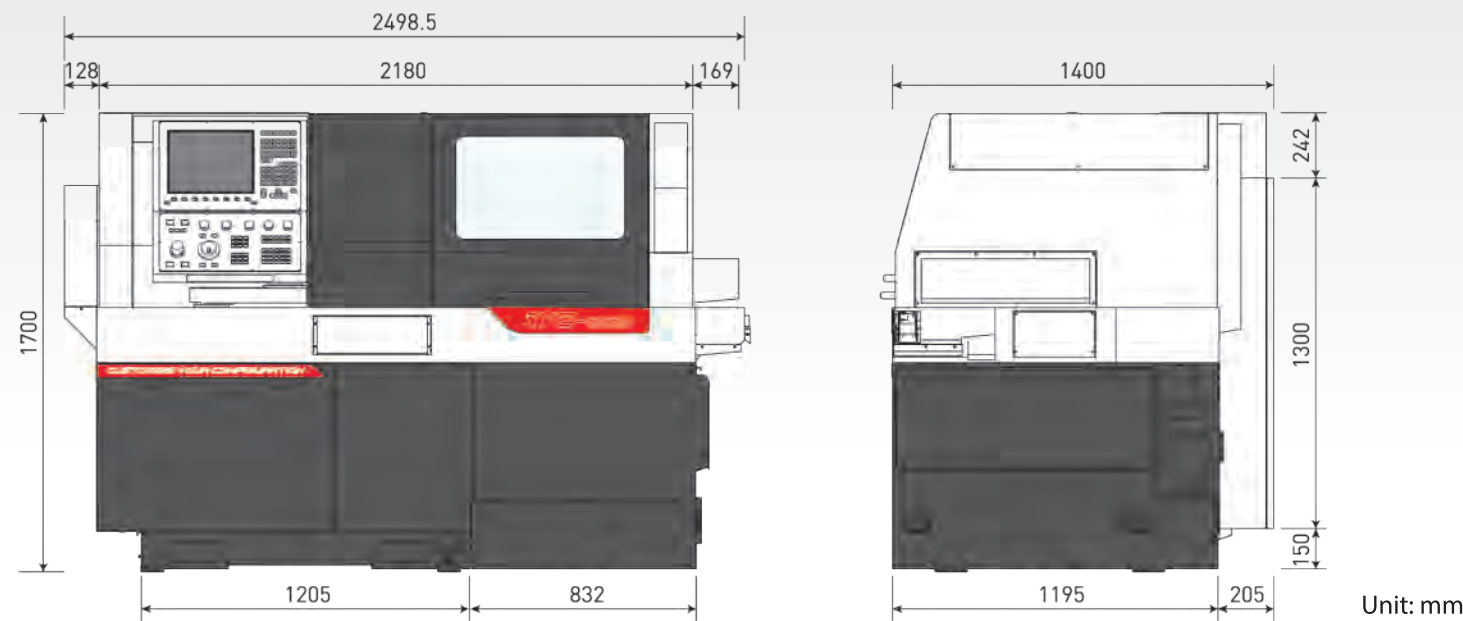
By morning axis and detecting motor current after part of, avoid crash by following tools and ensure part is secure in correct position.

SY2-26B Dimensions And Accessories

Tool Interference Diagram



Machine Dimensions



Unit: mm

Machine Specifications

Controller	Syntec	Mitsubishi	Fanuc
Axes Specification			
Max. Turning Dia. (Rotary / Non Guide Bush)	Ø26 mm		
Max. Turning Length (Rotary / Non Guide Bush)	190 / 40 mm		
X1 / Y1 / Z1 Axis Travel (Rotary Bush / Bushless)	200 / 285 / 195 (with) mm 200 / 285 / 40 (without) mm		
X2 / Y2 / Z2 Axis Travel	330 / 51.5 / 290 mm		
X1 / Y1 / Z1 Axis Motor	0.75/0.75/0.75 kw	1.0/1.0/1.0 kw	0.75/0.75/0.75 kw
X2 / Y2 / Z2 Axis Motor	0.75/0.4/0.75 kw	1.0/0.5/1.0 kw	0.75/0.5/0.75 kw
X1 / Y1 / Z1 Axis Rapid travel speed	30 m/min		
X2 / Z2 Axis Rapid travel speed	30 m/min		
Y2 Axis Rapid travel speed	5 m/min		
Spindle			
Max. Bar Feeding Dia	Ø 26 mm		
Max. of spindle speed	10000 rpm		
Collet of spindle (Rotary Bush / Bushless)	ST25		
Size of guide bush	ST25		
C-axis index positioning	0.001°		
Spindle motor	5.5kw	3.7 kw	3.7kw
Spindle type	Built-in spindle		
No. / size of O.D. tools	6 pcs / □ 12		
No. / size of I.D. tools	5 / Ø22		
Max. revolutions of the driven tool	8000 rpm		
Power tool motor	2.2 kw	2.2 kw	2.2 kw
No. / size of radial live tools	3 (ER-20*1,ER-16*2)		
Sub-spindle			
Max. Bar Feeding Dia	Ø 26 mm		
Max. of Sub Spindle speed	10000 rpm		
Collet of spindle	ST 25		
C-axis index positioning	0.001°		
Sub-spindle motor	5.5 Kw	3.7kw	3.7kw
Spindle type	Built-in spindle		
Max. revolutions of the back tool	8000 rpm		
Sub-spindle power tool motor	0.75kw	1.5 kw	1.0 kw
The number of end face live tool	8 pcs / ER-16		
Number / size of deep hole tool holder	2 / Ø 22		
Electricity			
Voltage regulators / transformers	33 KVA	30 KVA	30 KVA
Coolant pump	1.6 HP / 1.24 kw		
Machine Specifications			
Main / sub-spindle motor cooling system	Oil-cirulation cooling		
Main / Sub spindle clamping system	Pneumatic jaw		
Lub. tank capacity	2 L		
Coolant tank capacity	200 L		
Machine size (L x W x H)	2498 x 1400 x 1700 mm		
Machine N.W. (without chip conveyor)	3200 kg		
Air pressure requirment	0.6 Bar		

Standard Accessories

- + Tool Kit & Box
- + Rotary Guide Bush
- + Main Spindle-Radial Live Tool Holder (3 sets)
- + Sub spindle-live tool Holder
- + Heat exchanger for Electrical Cabinet
- + Auto Bar Feeder Interface
- + Auto Power Breaker
- + Sub Spindle Air Through & Part Ejector
- + Finished Part Catcher & Part Conveyor
- + Main & Sub Spindle Internal Air Blowing Device
- + Main&Sub Spindle Pneumatic Clamping System
- + Cutting Fluid Pump
- + Cutting Fluid Inspection Derice
- + Spindle Chiller

Optional Accessories

- + CE Marking
- + Oil Mist Extractor
- + Voltage Stabilizer / Transformer
- + Chip Conveyors
- + Auto Bar Feeder
- + High Pressure Coolant Device
- + Cutting Liquid Coolant Chiller Device
- + Chip Breaking Technology (Syntec)

※ Design and specs subject to change without notice