

**Features:**

- Adopt high precision ROLLER type linear guideway.
- Adopt similar structure as JAPAN TAKISAWA, bed adopt flat bed, Y axes and X axes slide board adopt 0°+45°slant design, high rigidity, good machining flexibility.
- Super compact structure, big inside space, modern appearance.
- Adopt JAPAN technology, designed by JAPAN engineer, most parts adopt GERMANY/JAPAN/TAIWAN brand.
- Adopt modularization design, has strong extended function, easy for various especial configuration choice, such as tool setter, parts catcher, robot etc.
- Adopt HT300 resin sand cast iron, after aging treatment and FEA analysis, small distortion, good torsional strength, good heat stability.
- Base adopt multilayer strengthening rib, ensure bed's strength and stability.
- Frame adopt oil-coolant separation design, adopt independent coolant tank.
- Adopt 20kw(70.7Nm) high precision built-in type electro-spindle, big output torque, high speed.
- Adopt high precision pre-stretched ball screw(double nuts), coupled with motor directly by linkager, high transmission rigidity, can realize  $\mu$  class precise turning.
- Can mount right-setting or back-setting chip conveyor, strong chip conveying capacity.
- Represent the top class of Chinese CNC turning machine.
- 12T BMT45 Servo powered tool turret+CS axes+YS axes.

JAPAN TECHNOLOGY, 6" CHUCK, 12T POWERED TOOL TURRET WITH INTERPOLATION YS AXES



S200Y inside



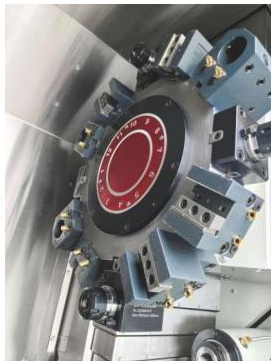
CS axes with hydraulic brake



A2-5 spindle 6" chuck



Interpolation YS axes



Own-made 12T BMT45 powered tool turret



Hydraulic tailstock



Tool setting probe(opt.)



SCHNEIDER brand electricity parts

### Main parts list:

Item	Brand	Item	Brand
CNC controller	JAPAN-FANUC/TAIWAN-SYNTEC	Tri-color indication lamp	CHINA-SUNNYSH
Servo driver&motor	JAPAN-FANUC/TAIWAN-SYNTEC	Working lamp	JAPAN-NIKKI
Spindle bearing	JAPAN-NSK/KOYO, SWEDEN-SKF	Breaker	FRANCE-SCHNEIDER
Tool turret	OWN-MADE	AC contactor	FRANCE-SCHNEIDER
Ball screw	TAIWAN-PMI/HIWIN	Relay	JAPAN-OMRON
Ball screw bearing	JAPAN-NSK/KOYO, SWEDEN-SKF	DC switch power supply	FRANCE-SCHNEIDER
Linear guideway	TAIWAN-PMI/HIWIN	Terminal block	GERMANY-WEIDMULLER
Lubrication system	TAIWAN-ISHAN	Synchronous belt	USA-GATES
Rotary oil cylinder&chuck	TAIWAN-AUTOGRIP	Synchronous belt wheel	TAIWAN-PTP
Hydraulic parts	TAIWAN/JAPAN	Nuts	TAIWAN-YINSH
Coolant pump	JOINT-VENTURE	Shaft coupling	GERMANY-R+W

### Standard configuration:

- FANUC 0i TF CNC controller
- Hydraulic chuck
- 12T BMT45 servo powered tool turret
- Hydraulic tailstock

### Optional configuration:

- SYNTEC 22TB CNC controller
- Automatic chip conveyor
- Tool setting probe
- Parts catcher

## Specification:

Item	Specification	Unit	BL-S200Y
Capacity	Max. swing dia. over bed	mm	Φ600
	Max. swing dia. over slide	mm	Φ250
	Max. turning length (from chuck's end face to tool turret's face)	mm	300
	Max. turning dia.	mm	Φ300
Spindle	Spindle transmission type	/	Built-in type electro-spindle, direct-drive
	Spindle bore	mm	Φ56
	Spindle end type	/	A2-5
	Spindle speed	rpm	5000
	Spindle max. bar through dia.	mm	Φ45
	Spindle motor power	kw	20
	Spindle chuck size	"	6"
	Spindle C axes division accuracy	Deg	0.001°
X/Y/Z axes	X/Y/Z axes linear guideway type	/	ROLLER type
	X axes travel	mm	160+10
	Y axes travel	mm	±45
	Z axes travel	mm	340
	X/Z axes rapid moving speed	m/min	30
	Y axes rapid moving speed	m/min	15
Tool turret	Tool turret type	/	BMT45 Powered tool turret
	Tool turret brand	/	Own-Made
	Tool qty	/	12T
	Vicinal tool changing time	s	0.15
	Farthest tool changing time	s	0.4
	Turning tool holder size	mm	□20×20
	Boring bar holder size	mm	Φ32
	Live tool motor power	kw	2.7/2.2*(FANUC)
	Live tool motor torque	Nm	12/11*(FANUC)
	Live tool max. speed	rpm	4000/6000*
Tailstock	Tailstock movement distance	mm	300
	Tailstock quill taper	/	MT4
	Tailstock quill dia./travel	mm	Φ75/90
Accuracy	Ex-circle finish turning accuracy	/	IT6
	Finish turning roughness	mm	Ra 0.4~1.6
	Finish turning roundness	mm	≤0.003
	Positioning accuracy(X/Y/Z)	mm	0.008/0.008/0.008
	Repeat positioning accuracy(X/Y/Z)	mm	0.004/0.004/0.004
Others	Coolant pump motor	w	480
	Coolant pump flow	m <sup>3</sup> /h	3.0
	Overall size	mm	1810×1600×1870(without chip conveyor)
	N.W.	kg	3400