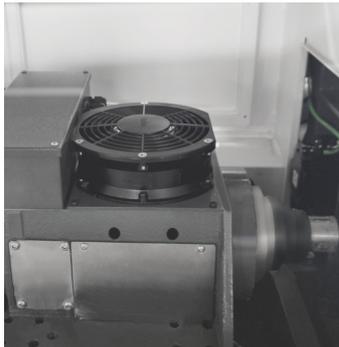
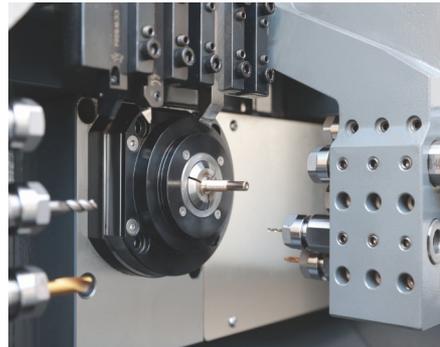


**Features:**

- Single spindle, total 3 axes
- Adopt JAPANESE technology, most parts adopt GERMANY/JAPAN/TAIWAN brand
- Adopt meehanite resin sand cast iron, after aging treatment, small distortion, good heat stability and high rigidity
- Adopt high precision built-in electro-spindle, NSK/NTN super high precise angle contact ball bearing, achieve spindle's high rigidity and good precision retention, spindle flop  $\leq 2\mu\text{m}$
- Adopt JAPAN THK/TAIWAN PMI brand high precision ball screw and linear guideway
- Can achieve turning/milling/drilling etc combined machining by side-mounted live tool and CS axes
- After mount automatic bar feeder, can realize automatic machining
- Suitable for complex, small-sized, precise, slender axles workpiece machining



CSL123 Spindle with air coolant



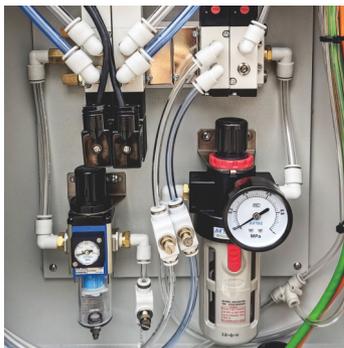
CSL123 Inside



Parts catcher



SYNTEC 22TB CNC controller



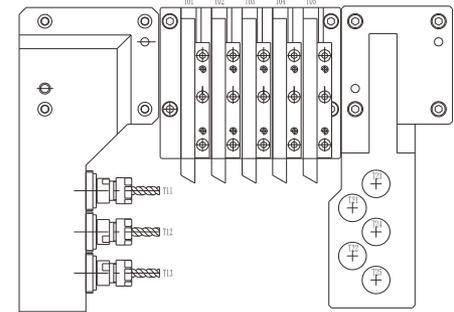
AIRTAC pneumatic parts



HERG lubrication system



CSL123 Electricity cabinet



CSL123 Tools distribution

**Main parts list:**

Item	Brand	Item	Brand
CNC controller	TAIWAN-SYNTEC	Linear guideway	JAPAN-THK/TAIWAN-PMI
Servo electro-spindle	OWN-MADE	Lubrication system	JAPAN-HERG
Servo motor&driver	TAIWAN-SYNTEC	Main electricity parts	FRANCE-SCHNEIDER
Spindle encoder	TAIWAN-SYNTEC	Pneumatic parts	TAWAN-AIRTAC
Spindle bearing	JAPAN-NSK/NTN P4 CLASS	Lock nuts	TAIWAN-YINSH
Ball screw bearing	JAPAN-NSK/NACHI	Shaft coupling	GERMANY-KTR
Ball screw	JAPAN-THK/TAIWAN-PMI		

**Standard configuration:**

- SYNTEC 22TB CNC controller
- Parts catcher

**Optional configuration:**

- High pressure coolant system
- Oil mist collection system
- Automatic chip conveyor
- Bar feeder

### Specification:

Item	Specification	Unit	BL-CSL123	BL-CSL203	BL-CSL263	
Capacity	Max. machineable bar dia.	mm	Φ12	Φ20	Φ26	
	Main spindle bore	mm	Φ16	Φ25	Φ30	
	Max. machineable length	Fixed guide bushing	mm	135(one time feed)	220(one time feed)	
		Rotary guide bushing	mm	135(one time feed)	180(one time feed)	
		Guide bushless	mm	N/A	2.5×ΦD, max. 50	
	Max. face drilling dia.	mm	Φ7	Φ10		
	Max. face tapping dia.	mm	M6	M10		
Main spindle	Main spindle type	/	Servo electro-spindle			
	Main spindle max. speed	rpm	6000	10000(Rotary guide bushing 8000)		
	Main spindle power	kw	3.7	4.2		
	Main spindle index	/	CS axes(continuation), electromagnetic brake			
	O.D. turning tool	mm	5×□10	1×□16+5×□12		
	Radial type live tool	/	3×ER11*	2×ER11+2×ER16		
	Radial type live tool max speed	rpm	5000*	6000		
	Radial type live tool motor	kw	0.4*	1		
	Max. radial drilling dia.	mm	Φ6*	Φ8		
	Max. radial tapping dia.	mm	M5*	M6		
	Axial static type drilling tool	/	5×ER11	4×ER16		
	Main spindle coolant type	/	Air coolant	Oil coolant		
	Spindle flopping	mm	≤0.002			
Others	Rapid moving speed(X/Y/Z axes)	m/min	20/20/20	20/24/24		
	Repeat positioning accuracy	mm	≤0.003			
	Coolant pump	kw	0.22	0.4		
	Overall size	mm	1510×1000×1660	1700×1300×1750		
	N.W.	kg	1300	1800		

\*As option