



BLIN MACHINERY

TAIWANESE/JAPANESE TECHNOLOGY

S PRECISE SERIES

SLANT BED CNC LATHE
CNC TURNING CENTER



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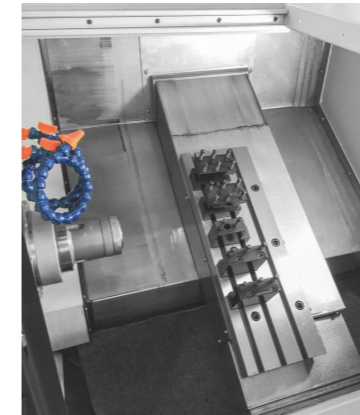
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Machines' design and specification are subjected to update without notice

2021A

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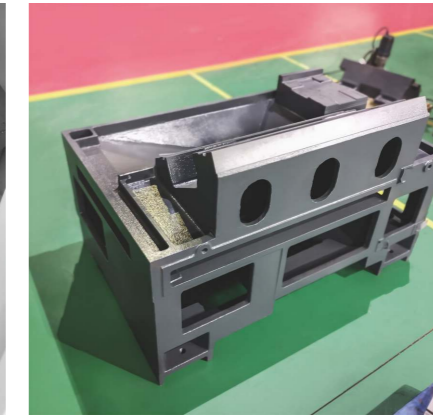
TAIWAN TECHNOLOGY, 5"/6" COLLET/CHUCK, GANG TOOL/8T TOOL TURRET,WITHOUT TAILSTOCK



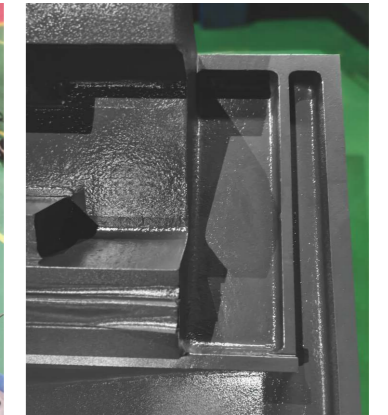
S32 mount collet+gang tool



S32T mount chuck+8T servo tool turret



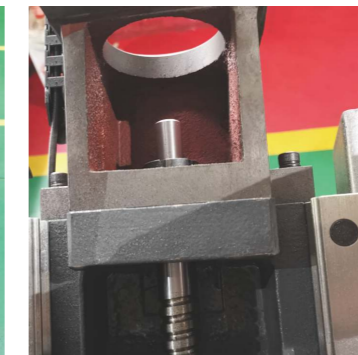
Mono-block frame



Oil-coolant separation



Symmetry spindle



Mono-block motor seat



Double nuts ball screw



SCHNEIDER electricity parts

Features:

- New generation high precision slant bed cnc lathe after optimization based on old S32/32T model
- S32 mount gang tool device, S32T mount 8 station HYDRAULIC-SERVO tool turret
- Super compact structure(similar as JAPAN machine), big inside space, modern appearance
- Adopt TAIWAN technology, designed by TAIWAN engineer, most parts adopt GERMANY/JAPAN/TAIWAN brand
- Adopt 30°mono-block slant bed design, high rigidity, good machining flexibility,easy for chip conveying
- Adopt modularization design, has strong extended function, easy for various especial configuration choice, such as tool setter, robot etc
- Adopt HT300 resin sand cast iron, after aging treatment and FEA analysis, small distortion, good torsional strength, good heat stability
- Frame adopt oil-coolant separation design, adopt independent coolant tank
- Adopt high precision integral spindle unit, spindle motor adopt high performance servo motor, big output torque, high speed,wide adjustment range
- Adopt high precision pre-stretched ball screw(double-nuts), coupled with feeding motor directly by linkager, no gap, high transmission rigidity, can realize μ class precise turning
- Adopt high precision wide linear guideway, high rigidity and long using lifespan, fast moving speed, good accuracy holding, suitable for precise machining

Main parts list:

Item	Brand	Item	Brand
CNC controller	GERMANY-SIEMENS	Isolation transformer	CHINA top-CHINT/JIUKO
X,Z axes driver&motor	GERMANY-SIEMENS	Circuit breaker	FRANCE-SCHNEIDER
Spindle driver&motor	GERMANY-SIEMENS	AC contactor	FRANCE-SCHNEIDER
Spindle unit	TAIWAN-VOLIS/KENTURN	Relay	JAPAN-OMRON
Tool turret	INDIA-PRAGATI/GERMANY-SAUTER*	DC switch power supply	TAIWAN-MEANWELL
Ball screw	TAIWAN-PMI/HIWIN	Terminal block	GERMANY-WEIDMULLER
Ball screw bearing	JAPAN-NSK/NTN	Synchronous belt	USA-GATES
Linear guideway	TAIWAN PMI/HIWIN	Synchronous belt wheel	TAIWAN-PTP
Lubrication system	TAIWAN-ISHAN	Nuts	TAIWAN-YINSH
Rotary oil cylinder&chuck	TAIWAN-AUTOGRIP	Shaft coupling	GERMANY-KTR/R+W
Hydraulic parts	TAIWAN/JAPAN	Scrapping plate & Extensible cover	TAIWAN-WANHE
Coolant pump	Joint-venture	Chip conveyor	TAIWAN-WANHE
MPG	USA-HEDSS	Coolant pipe	TAIWAN-WEIDING
Tri-color indication lamp	KOREA-QLIGHT	Collet, Gang tool holder	Own-made

Specification:				
Item	Specification	Unit	BL-S32	BL-S32T HOT
Capacity	Chuck size	/	5" collet	5"/6" chuck
	Max. swing dia. over bed	mm	Φ360	Φ430
	Max. swing dia. over slide	mm	Φ90	Φ250
	Max. turning length	mm	200	180
Spindle	Max. turning dia.	mm	Φ200	Φ250
	Spindle bore	mm	Φ46	Φ46/Φ56*
	Spindle end type	/	A2-4	A2-4/A2-5*
	Spindle speed	rpm	5000	
	Max. bar through dia.	mm	Φ32	Φ32/Φ44*
X/Z axes	Spindle motor power	kw	5.5	
	X axes travel	mm	290	150+20
	Z axes effective travel	mm	250	180
	X/Z axes motor	Nm	6/6	
	X/Z axes linear guideway width	mm	30/30	
Tool post	X/Z axes rapid moving speed	m/min	28/28	
	Tool turret type	/	Gang tool	Hydraulic-Servo tool turret
	Tool qty	/	5	8
	Vicinal tool changing time	s	/	0.4
	Farthest tool changing time	s	/	0.57
Tailstock	Toolshank size	mm	16×16(20×20*), Φ25	20×20, Φ25
	Tailstock quill taper	/	None	
Accuracy	Ex-circle finish turning accuracy	/	IT6	
	Finish turning roughness	mm	Ra0.4~1.6	
	Finish turning roundness	mm	≤0.003	
	Positioning accuracy(X/Z)	mm	0.005/0.008	
Others	Repeat positioning accuracy(X/Z)	mm	0.002/0.004	
	Coolant motor	w	480	
	Coolant liquid flux	m ³ /h	2.5	
	Overall size	mm	1800×1400×1500/2500×1400×1500 (exclude/include chip conveyor)	
N.W.	kg	1700	1800	

*As option

Standard configuration:

- SIEMENS 808D ADVANCED CNC controller
- S32: Hydraulic collet
S32T: Hydraulic chuck
- S32: Gang tool
S32T: 8 station Hydraulic-servo tool turret

Optional configuration:

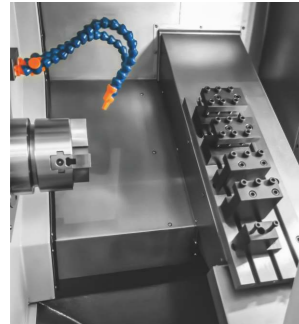
- SIEMENS 828D CNC controller
- FANUC Oi TF CNC controller
- CL collet chuck
- Automatic chip conveyor
- Air conditioner
- Automatic tool setting probe



Features:

- S36 mount gang tool device, S36T mount 8 station HYDRAULIC-SERVO tool turret
- Super compact structure, big inside space, modern appearance
- Adopt TAIWAN technology, designed by TAIWAN engineer, most parts adopt GERMANY/JAPAN/TAIWAN brand
- Bed adopt flat bed, slide board adopt 30°slant design(structure similar as JAPAN TSUGAMI M06/08), high rigidity, good machining flexibility, easy for chip conveying
- Adopt modularization design, has strong extended function, easy for various especial configuration choice, such as tool setter, robot etc
- Adopt HT300 resin sand cast iron, after aging treatment and FEA analysis, small distortion, good torsional strength, good heat stability
- Frame adopt oil-coolant separation design, adopt independent coolant tank
- Adopt high precision integral spindle unit, spindle motor adopt high performance servo motor, big output torque,high speed,wide adjustment range
- Adopt high precision pre-stretched ball screw(double nuts), coupled with feeding motor directly by linkager, no gap,high transmission rigidity, can realize μ class precise turning
- Adopt high precision wide linear guideway, high rigidity and long using lifespan, fast moving speed, good accuracy holding, suitable for precise machining
- For S36T, mount energy-storage tank,reduce pressure fluctuation during tool change
- Can mount right-setting or back-setting chip conveyor

TAIWAN TECHNOLOGY, 6" CHUCK, GANG TOOL/8T TOOL TURRET, WITHOUT TAILSTOCK



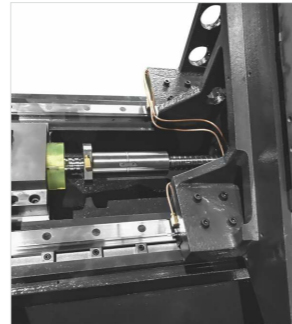
S36 mount gang tool



S36T mount 8T servo tool turret



JAPANESE style structure



Double nuts ball screw



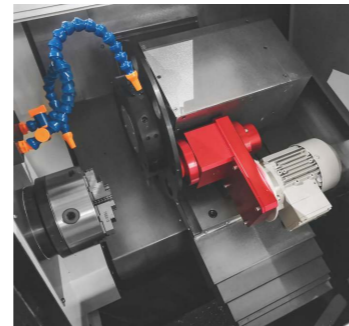
Spindle



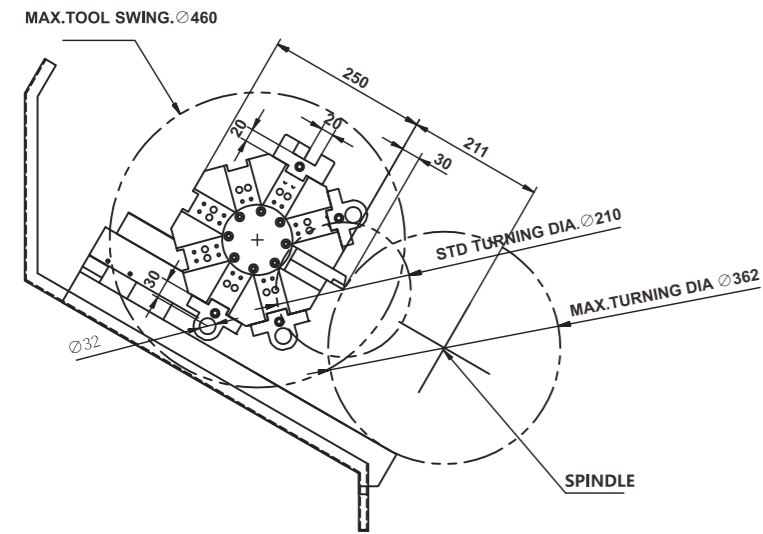
SCHNEIDER electricity parts



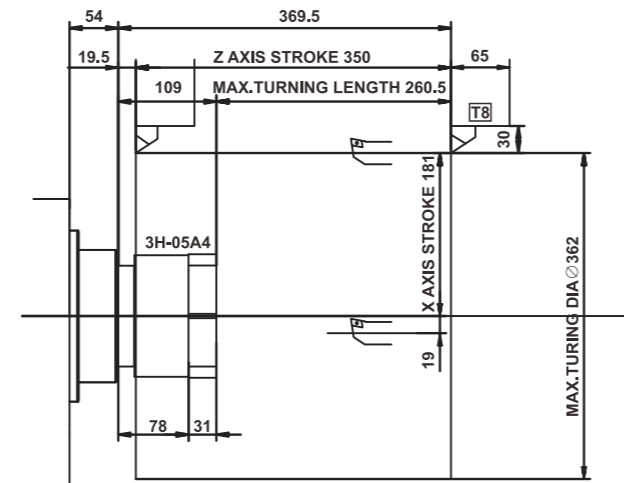
Automatic Tool setting probe



Solution for SEALS process(opt.)



S36T Tools interference(SAUTER 8T)



S36T Travel(SAUTER 8T)

Standard configuration:

- SIEMENS 808D ADVANCED CNC controller
- Hydraulic chuck
- Gang tool(S36)/8 station Hydraulic-servo tool turret(S36T)

Optional configuration:

- SIEMENS 828D/FANUC 0i TF CNC controller
- Automatic chip conveyor
- Tool setting probe

Specification:

Item	Specification	Unit	BL-S36	BL-S36T
Capacity	Chuck size	/		6"
	Max. swing dia. over bed	mm		$\varnothing 460$
	Max. swing dia. over slide	mm	$\varnothing 130$	$\varnothing 265$
	Max. turning length	mm	330	260
	Max. turning dia.	mm	$\varnothing 300$	$\varnothing 320$
Spindle	Spindle bore	mm		$\varnothing 56$
	Spindle end type	/		A2-5
	Spindle speed	rpm		5000
	Max. bar through dia.	mm		$\varnothing 44$
	Spindle motor power	kw		5.5
X/Z axes	X axes travel	mm	350	160+20
	Z axes effective travel	mm	350	300
	X/Z axes motor	Nm		6/6
	X/Z axes rapid moving speed	m/min		28
	X/Z axes ball screw dia./pitch	mm		32/12
Tool turret	X/Z axes linear guideway width	mm		30/35
	Tool turret type	/	Gang tool	Hydraulic-servo tool turret
	Tool qty	/	5	8
	Vicinal tool changing time	s	/	0.4
	Farthest tool changing time	s	/	0.57
Tailstock	Toolshank size	mm	20×20, $\varnothing 25$	20×20, $\varnothing 32$
	Tailstock	/		N/A
Accuracy	Ex-circle finish turning accuracy	/		IT6
	Finish turning roughness	mm		Ra0.4~1.6
	Finish turning roundness	mm		≤ 0.003
	Positioning accuracy(X/Z)	mm		0.005/0.008
	Repeat positioning accuracy(X/Z)	mm		0.002/0.004
Others	Coolant pump power	w		480
	Coolant flow	m ³ /h		2.5
	Overall size	mm	1650×1600×1550/2450×1600×1550 (exclude/include chip conveyor)	
	N.W.	kg	2300	2400

Main parts list:

Item	Brand	Item	Brand
CNC controller	GERMANY-SIEMENS	Tri-color indication lamp	KOREA-QLIGHT
X,Z axes driver&motor	GERMANY-SIEMENS	Breaker	FRANCE-SCHNEIDER
Spindle driver&motor	GERMANY-SIEMENS	AC contactor	FRANCE-SCHNEIDER
Spindle unit	TAIWAN-VOLIS/KENTURN	Relay	JAPAN-OMRON
Ball screw	TAIWAN-PMI/HIWIN	DC switch power supply	TAIWAN-MEANWELL
Ball screw bearing	JAPAN-NSK/NTN	Terminal block	GERMANY-WEIDMULLER
Linear guideway	TAIWAN PMI/HIWIN	Synchronous belt	USA-GATES
Tool turret	GERMANY-SAUTER/INDIA PRAGATI	Synchronous belt wheel	TAIWAN-PTP
Lubrication system	TAIWAN-ISHAN	Nuts	TAIWAN-YINSH
Rotary oil cylinder&chuck	TAIWAN-AUTOGRIP	Shaft coupling	GERMANY-KTR/R+W
Hydraulic parts	TAIWAN/JAPAN	Scrapping plate & Extensible cover	TAIWAN-WANHE
Coolant pump	Joint-venture	Chip conveyor&chip bucket	TAIWAN-WANHE
MPG	USA-HEDSS	Coolant pipe	TAIWAN-WEIDING

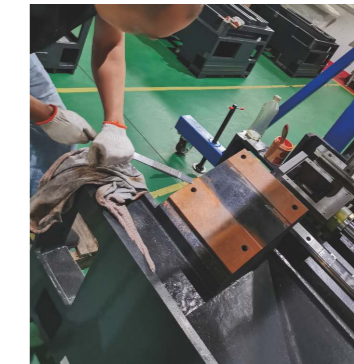
TAIWAN TECHNOLOGY, 6"/8" CHUCK, 8T/12T TOOL TURRET, HYDRAULIC TAILSTOCK



30° mono-block frame



Honeycomb shape strong structure



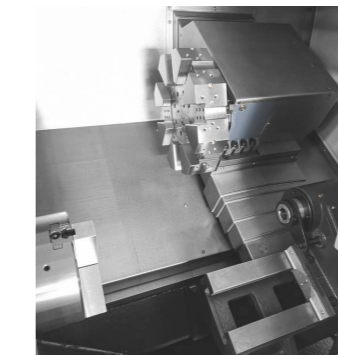
Contact face scrapping



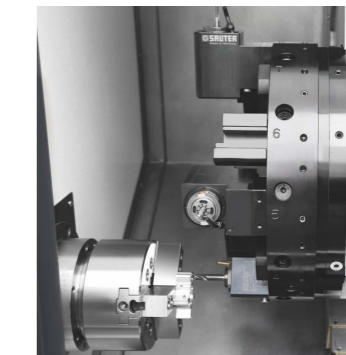
Spindle



S40M Hydraulic brake and high precision magnet ring encoder



S40 8T Hydraulic-Servo tool turret



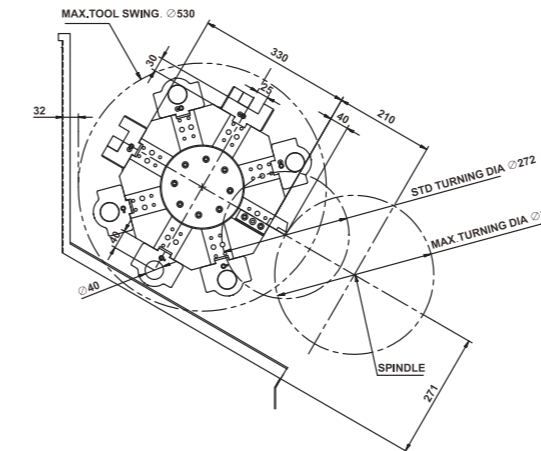
S40M VDI30 12T powered tool turret



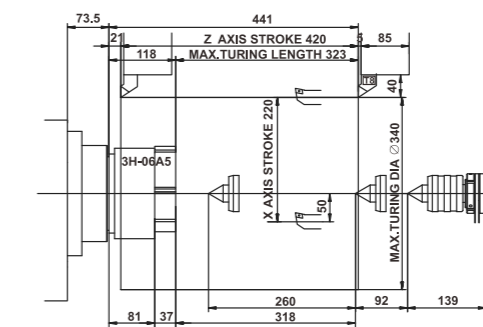
SCHNEIDER electricity parts

Features:

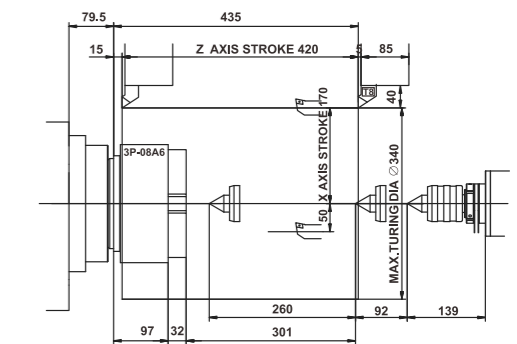
- Sup compact structure, big inside space, modern appearance
- Adopt TAIWAN technology, designed by TAIWAN engineer, most parts adopt GERMANY/JAPAN/TAIWAN brand
- Adopt 30° integral slant bed design(structure similar as JAPAN TAKISAWA 106), high rigidity, good machining flexibility, easy for chip conveying
- 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 beds strength and stability
- Frame adopt oil-coolant separation design, adopt independent coolant tank
- Adopt high precision integral spindle unit, spindle motor adopt high performance servo motor, big output torque, high speed, wide adjustment range
- Adopt high precision pre-stretched ball screw(double nuts), coupled with feeding motor directly by linkager, no gap, high transmission rigidity, can realize μ class precise turning
- Adopt high precision wide linear guideway, high rigidity and long using lifespan, fast moving speed, good accuracy holding, suitable for heavy loading and precise machining
- Mount energy-storage tank, reduce pressure fluctuation during tool change
- Can mount right-setting or back-setting chip conveyor, strong chip conveying capacity
- S40: 8T/12T Hydraulic-servo tool turret
- S40M: 12T VDI30 Servo powered tool turret and CS axes



S40 Tools interference(SAUTER 8T)



S40 A2-5 6" chuck travel(SAUTER 8T)



S40 A2-6 8" chuck travel(SAUTER 8T)

Standard configuration:

- SIEMENS 808D ADVANCED CNC controller
- Hydraulic chuck
- S40: Hydraulic-servo tool turret
- S40M: 12T VDI30 powered tool turret
- Hydraulic tailstock

Optional configuration:

- SIEMENS 828D/FANUC 0i TF CNC controller
- Automatic chip conveyor
- Tool setting probe



Specification:

Item	Specification	Unit	BL-S40		BL-S40M	
Capacity	Chuck size	/	8"		6"	
	Max. swing dia. over bed	mm			Φ500	
	Max. swing dia. over slide	mm			Φ270	
	Max. turning length	mm	320	290	280	
Spindle	Max. turning dia.	mm	Φ360		Φ340	
	Spindle bore	mm	Φ56	Φ62	Φ56	
	Spindle end type	/	A2-5	A2-6	A2-5	
	Spindle speed	rpm	5000	4000	5000	
	Max. bar through dia.	mm	44	51	44	
	Spindle motor power	kw	7.5	11	7.5	
	CS axes division accuracy	Deg	/		0.001°	
	X/Z axes	X axes travel	mm	180+20		160+20
		Z axes effective travel	mm	360		290
		X/Z axes rapid moving speed	m/min			30
Tool turret	Tool turret type	/	HYDRAULIC-SERVO		SERVO POWERED	
	Tool qty	/	8/12*		12	
	Vicinal tool changing time	s			0.4	
	Farthest tool changing time	s			0.57	
	Toolshank size	mm	25×25(SAUTER 8T)/20×20(SAUTER 12T*), Φ40(SAUTER 8T)/Φ32(SAUTER 12T*)		20×20,Φ32	
	Live tool driven motor	kw	/		3.3(SIEMENS 828D)	
	Live tool driven motor torque	N.m	/		16(SIEMENS 828D)	
	Live tool max. speed	rpm	/		4500	
	Live tool type	/	/		VDI30	
	Tailstock	Tailstock quill taper	/			MT4#
Tailstock quill dia./travel		mm			Φ70/90	
Ex-circle finish turning accuracy		/			IT6	
Accuracy	Finish turning roughness	mm			Ra0.4~1.6	
	Finish turning roundness	mm			≤0.003	
	Positioning accuracy(X/Z)	mm			0.005/0.008	
	Repeat positioning accuracy(X/Z)	mm			0.002/0.004	
Others	Coolant pump power	w			580	
	Coolant flow	m ³ /h			2.5	
	Overall size	mm	1900×1500×1600/2700×1500×1600(exclude/include chip conveyor)			
	N.W.	kg	2700	2800	2900	

* As option

Main parts list:

Item	Brand	Item	Brand
CNC controller	GERMANY-SIEMENS/JAPAN-FANUC	Tri-color indication lamp	KOREA-QLIGHT
Servo driver&motor	GERMANY-SIEMENS/JAPAN-FANUC	Breaker&AC contactor	FRANCE-SCHNEIDER
Spindle unit	TAIWAN-VOLIS/KENTURN	Relay	JAPAN-OMRON
Hydraulic-servo tool turret(S40)	GERMANY-SAUTER/INDIA PRAGATI	DC switch power supply	TAIWAN-MEANWELL
Powered tool turret(S40M)	GERMANY-SAUTER	Terminal block	GERMANY-WEIDMULLER
Ball screw	TAIWAN-PMI/HIWIN	Synchronous belt	USA-GATES
Ball screw bearing	JAPAN-NSK/NTN	Synchronous belt wheel	TAIWAN-PTP
Linear guideway	TAIWAN PMI/HIWIN	Nuts	TAIWAN-YINSH
Lubrication system	TAIWAN-ISHAN	Shaft coupling	GERMANY-KTR/R+W
Rotary oil cylinder&chuck	TAIWAN-AUTOGRIP	Scrapping plate&Extensible cover	TAIWAN-WANHE
Hydraulic parts	TAIWAN/JAPAN	Chip conveyor&chip bucket	TAIWAN-WANHE
MPG	USA-HEDSS	Coolant pipe	TAIWAN-WEIDING

Features:

- Adopt similar structure as JAPAN MAZAK, bed adopt flat bed, slide board adopt 30°slant design, high rigidity, good machining flexibility
- 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 high precision integral spindle unit, spindle motor adopt high performance servo motor, big output torque, high speed, wide adjustment range
- Adopt high precision pre-stretched ball screw(double nuts), coupled with motor directly by linkage; high transmission rigidity, can realize μ class precise turning.
- Adopt high precision ROLLER type linear guideway, high rigidity, good accuracy holding, suitable for heavy loading and precise machining
- Adopt Hydraulic-servo tool turret/power tool turret, fast tool changing, good repeatability, high efficiency
- S205/205M/205Y adopt especial structure programmable tailstock, tailstock quill not move, whole tailstock body driven by hydraulic cylinder on linear guideway
- S205S/205SM/205SY adopt high precision electro-spindle as Sub-spindle
- Can mount right-setting or back-setting chip conveyor, strong chip conveying capacity
- S205: 8T/12T hydraulic-servo tool turret+tailstock; S205M: 12T powered tool turret+tailstock; S205Y: 12T powered tool turret+Y axes+tailstock; S205S: 12T hydraulic-servo tool turret+Sub-spindle; S205SM: 12T powered tool turret+Sub-spindle; S205SY: 12T powered tool turret+Y axes+Sub-spindle



JAPAN TECHNOLOGY, 8"/10" CHUCK, 8T/12T TOOL TURRET, HEAVY-DUTY TYPE



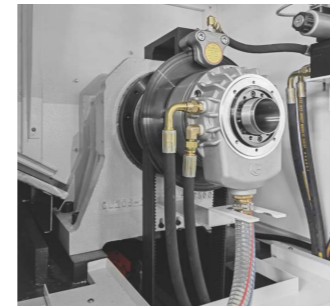
Similar structure as MAZAK



Hydraulic programmable tailstock



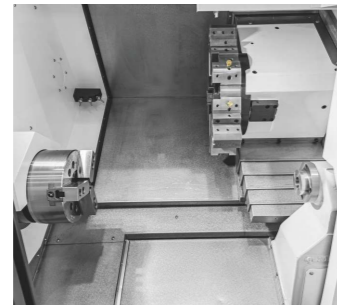
S205 Strong spindle



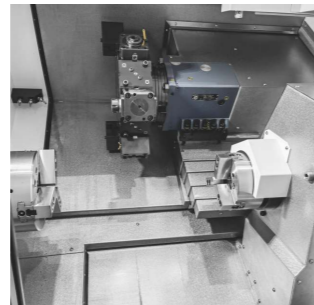
CS axes and hydraulic brake



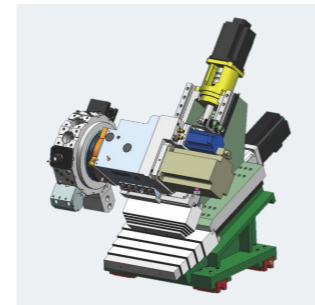
Sub-spindle CS axes and hydraulic brake



S205 8T Hydraulic-servo tool turret



S205SM 12T SAUTER powered tool turret



S205Y 205SY YS axes

Main parts list:

Item	Brand	Item	Brand
CNC controller	GERMANY-SIEMENS/JAPAN-FANUC	Working lamp	JAPAN-NIKKI
Servo driver&motor	GERMANY-SIEMENS/JAPAN-FANUC	Breaker	FRANCE-SCHNEIDER
Spindle bearing	JAPAN-NSK/NTN	AC contactor	FRANCE-SCHNEIDER
Tool turret	Own-made/GERMANY-SAUTER	Relay	JAPAN-OMRON
Ball screw	TAIWAN-PMI/HIWIN	DC switch power supply	FRANCE-SCHNEIDER
Ball screw bearing	JAPAN-NSK	Terminal block	GERMANY-WEIDMULLER
Linear guideway	TAIWAN PMI/HIWIN	Synchronous belt	USA-GATES
Lubrication system	TAIWAN-ISHAN	Synchronous belt wheel	TAIWAN-PTP
Rotary oil cylinder&chuck	TAIWAN-AUTOGRIP	Nuts	TAIWAN-YINSH
Hydraulic parts	TAIWAN/JAPAN	Shaft coupling	GERMANY-KTR/JAPAN-NBK
Coolant pump	Joint-venture	Scrapping plate & Extensible cover	JAPAN-LOCOSO
Tri-color indication lamp	KOREA-QLIGHT	Chip conveyor&chip bucket	TAIWAN-WANHE

Standard configuration:

- SIEMENS/FANUC CNC controller
- Hydraulic chuck

Optional configuration:

- Tool setting probe
- Automatic chip conveyor

Specification:

Item	Specification	Unit	BL-S205	BL-S205M	BL-S205Y	BL-S205S	BL-S205SM	BL-S205SY
Capacity	Max. swing dia. over bed	mm	Φ550					
	Max. swing dia. over slide	mm	Φ290	Φ290	Φ200	Φ290	Φ290	Φ200
	Max. turning length	mm	530					
	Max. turning dia.	mm	Φ380	Φ380	Φ300	Φ380	Φ380	Φ300
Spindle	Spindle transmission type	/	Mechanical spindle, belt-drive					
	Spindle bore	mm	Φ66					
	Spindle end type	/	A2-6					
	Spindle speed	rpm	4500					
	Spindle max. bar through dia.	mm	Φ51					
	Spindle motor power	kw	11					
	Spindle chuck size	"	8"					
Spindle C axes division accuracy	Deg	/	0.001°	0.001°	/	0.001°	0.001°	
Sub-spindle	Sub-spindle transmission type	/	Electro-spindle, direct-drive					
	Sub-spindle bore	mm	Φ56					
	Sub-spindle end type	/	A2-5					
	Sub-spindle rated/max. speed	rpm	1750/6000					
	Sub-spindle max. bar through dia.	mm	Φ44					
	Sub-spindle motor power	kw	11					
	Sub-spindle chuck size	"	6"					
X/Y/Z axes	Sub-spindle rapid moving speed	m/min	28					
	Sub-spindle travel	mm	490					
	X/Y/Z axes linear guideway type	/	ROLLER type					
	X axes travel	mm	190+10	190+10	170+20	190+10	190+10	170+20
	Y axes travel	mm	/	/	±45	/	/	±45
	Z axes travel	mm	550					
	X/Z axes rapid moving speed	m/min	30					
Tool turret	Y axes rapid moving speed	m/min	/	/	30	/	/	30
	Tool turret type	/	Hydraulic-servo tool turret	BMT55 Powered tool turret	BMT55 Powered tool turret	Hydraulic-servo tool turret	BMT55 Powered tool turret	BMT55 Powered tool turret
	Tool qty	/	8T(opt.:12T)	12T	12T	12T		
	Vicinal tool changing time	s	0.28					
	Farthest tool changing time	s	0.4					
	Toolshank size	mm	25×25, Φ40					
	Live tool motor power	kw	/	4.5	4.5	/	4.5	4.5
Tailstock	Live tool motor torque	Nm	/	15	15	/	15	15
	Live tool max. speed	rpm	/	4000	4000	/	4000	4000
	Distance from tailstock center to chuck jaw(programmable range)	mm	65~565					
	Tailstock rapid move speed	m/min	Servo tailstock:30; Hydraulic tailstock: 15					
	Tailstock quill taper	/	MT4#					
	Ex-circle finish turning accuracy	/	IT6					
	Accuracy	Finish turning roughness	mm	Ra0.4~1.6				
Finish turning roundness		mm	≤0.003					
Positioning accuracy(X/Z)		mm	0.005/0.008					
Repeat positioning accuracy(X/Z)		mm	0.002/0.004					
Others	Coolant pump motor	w	480					
	Coolant pump flow	m³/h	2.5					
	Overall size	mm	2455×1720×1740/3480×1720×1740 (exclude/include chip conveyor)			2605×1720×1840/3630×1720×1840 (exclude/include chip conveyor)		
	N.W.	kg	4100	4100	4200	4450	4450	4550