



# BLIN MACHINERY

CHINESE/TAIWANESE TECHNOLOGY

## SLANT BED CNC LATHE CNC TURNING CENTER

- Z ECONOMICAL SERIES
- H STANDARD SERIES
- B HEAVY-DUTY SERIES



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Machines' design and specification are subjected to update without notice

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NINGBO BLIN MACHINERY CO.,LTD.

# History

## Our advantages:

[www.blincnc.com](http://www.blincnc.com)



## SLANT BED CNC LATHE/ CNC TURNING CENTER

### • Z ECONOMICAL SERIES

<b>Z5/Z6</b>	01/02
Economical .5/6" collet/chuck, Gang tool/8T tool turret, without tailstock	
<b>Z6T/Z8T</b>	03/04
Economical .8/8"/10" chuck, 8T/10T tool turret, hydraulic tailstock	

### • H STANDARD SERIES

<b>H5/H6</b>	05/06
TAIWAN technology, 5/6/8"/10" collet/chuck, gang tool/8T tool turret, without tailstock	
<b>H6Y</b>	07/08
TAIWAN technology, 6/8" collet chuck, 8T tool turret & 4+4 Live tool with Y axes, without tailstock	
<b>H40T/TC/TY</b>	09/10
TAIWAN technology, 6/8" chuck, 8T/12T tool turret,hydraulic tailstock	
<b>H40L</b>	11/12
TAIWAN technology, 6/8" chuck, 10T tool turret, hydraulic tailstock	
<b>H50Q</b>	13/14
TAIWAN technology, 8/10" chuck, 10T tool turret,hydraulic tailstock	
<b>H50T/TC/TY</b>	15/16
TAIWAN technology, 8/10"/12" chuck, 12T tool turret, hydraulic tailstock	

### • H LINEAR-GUIDEWAY LONG-AXES SERIES

<b>H50L/LC PLUS</b>	17/18
TAIWAN technology, Roller type linear guideway, HEAVY-DUTY type, suitable for LONG AXES turning	
<b>H60L/LC</b>	19/20
TAIWAN technology, Roller type linear guideway, HEAVY-DUTY type, suitable for LONG AXES turning	

### • B BOX-GUIDEWAY LONG-AXES SERIES

<b>CBK50/63</b>	21/22
CHINA TOP quality, BOX guideway, Economical type, suitable for LONG AXES turning	

### • B BOX-GUIDWEAY HEAVY-DUTY SERIES

<b>CK7516A/7520A/7525A/7530/7550</b>	23/24
CHINA TOP quality, BOX guideway, HEAVY-DUTY type, suitable for LONG AXES turning	



#### Features:

- Super high performance-price ratio
- Mono-block 45° slant bed



Z5 Z6 spindle



Z5 Z6 own-made collet and gang tool



8T tool turret for Z6(opt.)



GSK980iMS(980TB3i)



TAIWAN CL collet chuck(opt.)

#### Specification:

Item	Specification	Unit	BL-Z5	BL-Z6
Capacity	Chuck size	/	Collet/5" chuck*	Collet/6" chuck*
	Max. swing dia. over bed	mm	Φ400	Φ450
	Max. machining dia.(disc type)	mm	Φ200	Φ300
	Max. machining dia.(shaft type)	mm	Φ100	Φ120
	Max. turning length	mm	160	250
Spindle	Max. bar through dia.	mm	Φ35	Φ45
	Spindle speed	rpm	4500	4000
	Spindle bore	mm	Φ45	Φ56
	Spindle nose	/	A2-4	A2-5
Tool turret	Spindle motor	kw	5.5(Servo)	
	Tool turret type	/	Gang tool	Gang tool/8 station tool turret*
X/Z axes	X axes travel	mm	300	360
	Z axes travel	mm	250	310
	X/Z axes servo motor	Nm	7.5/7.5(GSK)	
	X/Z axes Linear guideway width	mm	25/25	25/30
	X,Z axes ball screw O.D./pitch	mm	Φ25/10	Φ32/10
	X/Z axes rapid moving speed	m/min	20	
	X/Z axes positioning precision	mm	+/-0.006	
Tailstock	X/Z axes repeatable positioning precision	mm	+/-0.005	
	Tailstock	/	N/A	
Others	Toolshank size	mm	16×16,Φ25	20×20,Φ25
	Overall size	mm	1830×1390×1480	2000×1450×1600
	N.W.	kg	1500	2000

\* As option

#### Main parts list:

Item	Brand
CNC controller	CHINA-GSK
Servo motor&driver	CHINA-GSK
Spindle Unit	CHINA Top
Spindle bearing	CHINA Top-HRB
Ball screw bearing	JAPAN-THT
Linear guideway	Joint venture-HTPM
Ball screw	JAPAN-LAIEN
Tool turret	TAIWAN
Chuck&oil cylinder	TAIWAN(Opt.: CHINA brand)

#### Standard configuration:

- GSK CNC controller
- Hydraulic collet
- Gang tool

#### Optional configuration:

- Hydraulic chuck
- Chip conveyor



#### Features:

- Super high performance-price ratio
- Mono-block 45° slant bed
- For Z8T X,Z axes adopt ROLLER type linear guideway



Spindle



Hydraulic chuck



Hydraulic tool turret& hydraulic tailstock



GSK980iMS(980iTB3)



GSK988TD(opt.)

#### Specification:

Item	Specification	Unit	BL-Z6T	BL-Z8T	
Capacity	Chuck size	/	6"/8"	6"/8" 8"/10"	
	Max. swing dia. over bed	mm	Φ360	Φ500	
	Max. machining dia.(disc type)	mm	Φ250	Φ400	
	Max. machining dia.(shaft type)	mm	Φ180	Φ250	
	Center distance	mm	350	500	
	Max. turning length	mm	300	390	380
Spindle	Max. bar through dia.	mm	Φ45	Φ45	Φ51
	Spindle speed	rpm	4000	4000	4000
	Spindle bore	mm	Φ56	Φ56	Φ62
	Spindle nose	/	A2-5	A2-5	A2-6
Tool turret	Spindle motor	kw	5.5(Servo)	7.5(Servo)	11(Servo)
	Tool turret type	/	8 station Hydraulic tool turret	10 station Hydraulic tool turret	
X/Z axes	Toolshank size	mm	25×25,Φ32	25×25,Φ32	
	X axes travel	mm	200	220	
	Z axes travel	mm	330	480	
	X/Z axes servo motor	Nm	10/10(GSK)	15/15(GSK)	
	X/Z axes Linear guideway width	mm	25/30	30/35(Roller type)	
	X,Z axes ball screw O.D./pitch	mm	Φ32/10	Φ32/10	
	X/Z axes rapid moving speed	m/min		20	
	X/Z axes positioning precision	mm		+/-0.006	
Tailstock	X/Z axes repeatable positioning precision	mm		+/-0.005	
	Tailstock quill travel	/	80	80	
	Tailstock quill taper	/	MT4#	MT5#	
Others	Overall size	mm	2210×1660×1620	2430×1830×1680	
	N.W.	kg	2500	2800	3000

\* As option

#### Main parts list:

Item	Brand
CNC controller	CHINA-GSK
Servo motor&driver	CHINA-GSK
Spindle Unit	CHINA Top
Spindle bearing	CHINA Top-HRB
Ball screw bearing	JAPAN-THT
Linear guideway	Joint venture-HTPM
Ball screw	JAPAN-LAIEN
Tool turret	TAIWAN
Chuck&oil cylinder	TAIWAN(Opt: CHINA brand)

#### Standard configuration:

- GSK CNC controller
- Hydraulic chuck
- 8/10 station hydraulic tool turret
- Hydraulic tailstock

#### Optional configuration:

- Chip conveyor



### Features:

- Adopt TAIWAN technology, most parts adopt GERMAN/JAPAN/TAIWAN brand
- Adopt 45° mono-block slant bed design
- Adopt wide linear guideway, high rigidity
- Adopt modularization design, easy for various especial configuration choice, such as tool setter etc
- Adopt MEEHANITE class cast iron, after aging treatment, small distortion, good torsional strength, good heat stability
- Base adopt multilayer strengthening rib, ensure bed's strength and stability
- Adopt high precision spindle unit(H5 can choose 6000rpm synchronous servo electro-spindle), spindle motor adopt high performance servo motor, big output torque, high speed, wide adjustment range
- Adopt high precision C3 class pre-stretched ball screw, coupled with feeding motor directly by linkager, no gap



H6 strong frame



H6 mount gang tool



H6 mount 8T tool turret



H6 mount 1+1 live tool



SCHNEIDER electricity parts

### Specification:

Item	Specification	Unit	BL-H5		BL-H6	
			collet/5" chuck*		6" chuck/8" chuck*	8" chuck/10" chuck*
Capacity	Max. swing dia. over bed	mm	Φ320		Φ400	
	Max. swing dia. over slide	mm	Φ126		Φ126	
	Max. turning length	mm	320		340(Gang tool);300(8T tool turret)	
	Max. turning dia.	mm	Φ300		Φ300	
	Standard turning dia.	mm	Φ120		Φ150	
Spindle	Spindle bore	mm	Φ36	Φ46	Φ56	Φ66
	Spindle end type	/	A2-4		A2-5	A2-6
	Max. bar through dia.	mm	Φ24	Φ35	Φ45	Φ51
	Spindle speed	rpm	6000		5000	4000
	Spindle motor power	kw	5.5		7.5	11
X/Z axes	X axes travel	mm	420		460	
	Z axes travel	mm	320		340	
	X/Z axes linear guideway width	mm	30/30		35/35	
	X axes ball screw O.D/pitch	mm	Φ25/10		Φ32/10	
	Z axes ball screw O.D/pitch	mm	Φ32/10		Φ32/10	
	X/Z axes rapid moving speed	m/min			30/30	
Tool post	Tool turret type	/	Gang tool		Gang tool/8T hydraulic tool turret*	
	Toolshank size	mm	20×20, Φ25		20×20, Φ25	25×25, Φ32
Tailstock	Tailstock quill taper	/			None	
Accuracy	Positioning accuracy(X,Z)	mm			0.008/1000	
	Repeat positioning accuracy(X,Z)	mm			≤0.005	
Others	Overall size	mm	1750×1590×1800		2140×1780×1780	
	N.W.	kg	1900		2700	2800

\* As option

### Main parts list:

Item	Brand
Spindle unit	CHIAN top brand synchronous servo electro-spindle/TAIWAN-ROYAL
Tool turret	TAIWAN-GSA/YULIN/SWIFT
Ball screw	H5: TAIWAN-HIWIN C3 class H6: JAPAN-THK
Ball screw bearing	GERMANY-FAG
Linear guideway	H5:TAIWAN-HIWIN P class H6: JAPAN-THK
Lubrication system	TAIWAN-ISHAN
Rotary oil cylinder&chuck	TAIWAN-AUTOGRIP
Hydraulic parts	TAIWAN/JAPAN
Heat exchanger	Joint-venture
Main electricity parts	FRANCE-SCHNEIDER

### Standard configuration:

- SIEMENS 808D ADVANCED CNC controller
- Hydraulic collet/chuck
- Gang tool/8T hydraulic tool turret

### Optional configuration:

- SYNTec/FANUC CNC controller
- Live tool
- Chip conveyor
- Bar feeder



#### Features:

- Adopt TAIWAN technology, most parts adopt GERMANY/TAIWAN brand
- Adopt 30° mono-block slant bed design, super-heavy bed, high stability
- Adopt modularization design, easy for various especial configuration choice, such as parts catcher etc
- Adopt MEEHANITE class cast iron, after aging treatment, small distortion, good torsional strength, good heat stability
- Base adopt multilayer strengthening rib, ensure bed's strength and stability
- Adopt high precision integral spindle unit, spindle motor adopt high performance servo motor, big output torque, high speed, wide adjustment range
- Adopt high precision C3 class pre-stretched ball screw(double nuts), coupled with feeding motor directly by linkage, no gap, high transmission rigidity
- Mount 8T hydraulic tool turret and 4+4 independent live tools with Y axes



C axes hydraulic brake system



Collet chuck with 8T tool turret



4+4 Live tool group



Gang tool with live tool group



SYNTEC 21TB

#### Specification:

Item	Specification	Unit	BL-H6Y	
Capacity	Collet chuck size	/	6"	8"
	Max. swing dia. over bed	mm	Φ350	
	Max. turning length	mm	250	
	Max. turning dia.	mm	Φ200	
	Standard turning dia.	mm	Φ150	
Spindle	Spindle bore	mm	Φ56	Φ66
	Spindle end type	/	A2-5	A2-6
	Spindle speed	rpm	4500	4000
	Max. bar through dia.	mm	44	51
	Spindle motor power	kw	11	
X/Z axes	X/Y/Z axes linear guideway width	mm	30/30/30	
	X,Y,Z axes ball screw O.D./Pitch	mm	Φ32/10,Φ25/10,Φ32/10	
	X axes travel	mm	350	
	Y axes travel	mm	220	
	Z axes travel	mm	300	
Tool post	X/Y/Z axes rapid moving speed	m/min	24/16/24	
	Tool turret type	/	8T Hydraulic tool turret & 4+4 Independent live tool group with Y axes	
	Live tool collet size	/	ER25	
	Live tool speed	rpm	3000	
	Tool shank size	mm	20×20, Φ25	
Tailstock	Tailstock	/	N/A	
	Positioning accuracy(X/Y/Z)	mm	0.008/1000	
Accuracy	Repeat positioning accuracy(X/Y/Z)	mm	≤0.005	
	Overall size	mm	2270×1940×2070	
Others		kg	3000	
	N.W.		3000	

#### Main parts list:

Item	Brand
Spindle unit	TAIWAN-ROYAL
magnet ring encoder	TAIWAN-SYNTEC
Brake system	JAPAN-SANVO
Tool turret	TAIWAN-GSA/YULIN/SWIFT
Live tool group	CHINA top
Ball screw	TAIWAN-HIWIN C3 class
Ball screw bearing	GERMANY-FAG
Linear guideway	TAIWAN HRWIN
Lubrication system	TAIWAN-ISHAN
Rotary oil cylinder	TAIWAN-AUTOGRIP
Hydraulic parts:	TAIWAN/JAPAN
Heat exchanger	Joint-venture
Main electricity parts	FRANCE-SCHNEIDER

#### Standard configuration:

- SYNTEC 21TB CNC controller
- Hydraulic collet chuck
- 8T hydraulic tool turret
- 4+4 independent live tool group with Y axes

#### Optional configuration:

- FANUC Oi TF CNC controller
- Automatic chip conveyor
- Parts catcher
- Bar feeder



### Features:

- Adopt TAIWAN technology, designed by TAIWAN engineer, most parts adopt GERMANY/TAIWAN brand
- Adopt 30° integral slant bed design
- Z axes adopt ROLLER type linear guideway, super high rigidity
- Adopt modularization design, easy for various especial configuration choice, such as tool Setter etc
- Adopt MEEHANITE class cast iron, after aging treatment, small distortion, good torsional strength, good heat stability
- Base adopt multilayer strengthening rib, ensure bed's strength and stability
- Adopt high precision integral spindle unit, spindle motor adopt high performance servo motor, big output torque, high speed, wide adjustment range
- Adopt high precision C3 class pre-stretched ball screw (double nuts), coupled with feeding motor directly by linkage, no gap, high transmission rigidity
- H40T mount 8T hydraulic-servo tool turret
- H40TC mount C axes and 12T Powered tool turret
- H40TY mount C axes and 12T Powered tool turret with 90° Y axes



H40T frame



Z axis ROLLER type linear guideway



H40T SAUTER 8T tool turret



H40TC SAUTER 12T VDI30 powered tool turret



H40TY TAIWAN 12T BMT40 powered turret with Y axes



SCHNEIDER electricity parts

### Specification:

Item	Specification	Unit	BL-H40T	BL-H40TC	BL-H40TY
Capacity	Chuck size	/	6"(8")		
	Max. swing dia. over bed	mm	Φ400		
	Max. swing dia. over saddle	mm	Φ300		
	Max. turning length	mm	300(6"chuck);290(8"chuck*)	260/245(BMT40 6"/8" chuck) 250/235(VDI30 6"/8" chuck)	240
	Max. turning dia.	mm	Φ310	Φ240(6"chuck);Φ320(8"chuck*)	Φ225
Spindle	Standard turning dia.	mm	Φ150(6"chuck);Φ200(8"chuck*)		
	Spindle bore	mm	Φ56(Φ66*)		
	Spindle end type	/	A2-5(A2-6*)		
	Spindle speed	rpm	5000(4000*)		
	Max. bar through dia.	mm	44(51*)		
	Spindle motor power	kw	11		
	X/Y/Z axes linear guideway type	/	BALL type/BALL type/ROLLER type		
X/Z axes	X/Y/Z axes linear guideway width	mm	30/30/30		
	X/Y/Z axes ball screw O.D.	mm	Φ32		
	X/Y/Z axes ball screw pitch	mm	10		
	X axes travel	mm	180	160	110
	Y axes travel	mm	/	/	70
	Z axes travel	mm	320	280	250
	X/Z axes rapid moving speed	m/min	30		
	Y axes rapid moving speed	m/min	8		
Tool turret	Tool turret type	/	8T/12T* Hydraulic-servo tool turret	12T BMT40 Powered tool turret; 12T VDI30 Powered tool turret*	12T BMT40 Powered tool turret with Y axes
	Toolshank size	mm	25×25, Φ40(SAUTER 8T); 20×20, Φ25/32(SAUTER 12T*); 25×25, Φ32(GSA 8T*)	20×20, Φ32	20×20, Φ32
Tailstock	Live tool type	/	ER20(BMT40);ER25(VDI 30)		
	Tailstock quill taper	/	MT4#		
Accuracy	Tailstock quill dia./travel	mm	Φ70/70		
	Positioning accuracy(X/Z)	mm	0.008/1000		
Others	Repeat positioning accuracy(X/Y/Z)	mm	±0.005		
	Overall size	mm	2180×1830×1710		
	N.W.	kg	3100	3200	3300

\* As option

### Main parts list:

Item	Brand
Spindle unit	TAIWAN-ROYAL
Tool turret	TAIWAN-GSA/GERMANY-SAUTER/TAIWAN-YULIN/SWIFT
Ball screw	TAIWAN-HIWIN C3 class
Ball screw bearing	GERMANY-FAG
Linear guideway	TAIWAN HIWIN P class
Lubrication system	TAIWAN-ISHAN
Rotary oil cylinder&chuck	TAIWAN-AUTOGRIP
Hydraulic parts	TAIWAN/JAPAN
Heat exchanger	Joint-venture
Main electricity parts	FRANCE-SCHNEIDER

### Standard configuration:

- SIEMENS 808D ADVANCED CNC controller
- Hydraulic chuck
- Hydraulic-servo tool turret
- Hydraulic tailstock

### Optional configuration:

- SYNTREC/SIEMENS 828D/FANUC CNC controller
- C axes& powered tool turret
- Y axes
- Automatic chip conveyor
- Tool setting probe



### Features:

- Adopt TAIWAN technology, designed by TAIWAN engineer, most parts adopt GERMANY/JAPAN/TAIWAN brand
- Adopt 45° integral slant bed design
- Adopt ROLLER type linear guideway, super high rigidity
- Adopt MEEHANITE class cast iron, after aging treatment, small distortion, good torsional strength, good heat stability
- Base adopt multilayer strengthening rib, ensure bed's strength and stability
- 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 linkage, no gap, high transmission rigidity
- Adopt especial structure programmable tailstock, tailstock quill not move, whole tailstock body driven by hydraulic cylinder on linear guideway
- Mount 10T hydraulic-servo tool turret



Frame



Spindle



Hydraulic-servo tool turret and tailstock



SCHNEIDER BRAND ELECTRICITY PARTS



SIEMENS 808D ADVANCED

### Specification:

Item	Specification	Unit	BL-H40L
Capacity	Chuck size	/	6"18"
	Max. swing dia. over bed	mm	Φ410
	Max. swing dia. over saddle	mm	Φ230
	Max. turning length	mm	400
	Max. turning dia.	mm	Φ300
Spindle	Spindle bore	mm	Φ56
	Spindle end type	/	A2-5
	Spindle speed	rpm	4000
	Max. bar through dia.	mm	44
	Spindle motor power	kw	7.5
X/Z axes	X/Z axes linear guideway type	/	ROLLER type
	X axes travel	mm	180
	Z axes travel	mm	400
	X/Z axes rapid moving speed	mv/min	30
Tool turret	Tool turret type	/	10T Hydraulic-servo
	Toolshank size	mm	25×25, Φ32
Tailstock	Tailstock quill taper	/	M74#
	Tailstock body max. travel	mm	350
Accuracy	Positioning accuracy(X/Y/Z)	mm	±0.005
	Repeat positioning accuracy(X/Y/Z)	mm	±0.003
Others	Overall size	mm	2300×1500×1700
	N.W.	kg	2800

### Main parts list:

Item	Brand
Spindle unit	TAIWAN-KENTURN
Tool turret	TAIWAN-MYKUN
Ball screw	TAIWAN-HIWIN/PMI
Ball screw bearing	GERMANY-FAG
Linear guideway	TAIWAN HIWIN/PMI
Lubrication system	JAPAN-HERG
Rotary oil cylinder&chuck	TAIWAN-AUTOGRIP
Main electricity parts	FRANCE-SCHNEIDER

### Standard configuration:

- SIEMENS 808D ADVANCED CNC controller
- Hydraulic chuck
- Hydraulic-servo tool turret
- Hydraulic tailstock

### Optional configuration:

- SYNTEC/SIEMENS 828D/FANUC CNC controller
- Automatic chip conveyor





#### Features:

- Adopt TAIWAN technology, designed by TAIWAN engineer, most parts adopt GERMANY/JAPAN/TAIWAN brand
- Adopt 45° integral slant bed design
- Adopt ROLLER type linear guideway, super high rigidity
- Adopt MEEHANITE class cast iron, after aging treatment, small distortion, good torsional strength, good heat stability
- Base adopt multilayer strengthening rib, ensure bed's strength and stability
- 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 linkage, no gap, high transmission rigidity
- Adopt especial structure programmable tailstock, tailstock quill not move, whole tailstock body driven by hydraulic cylinder on linear guideway
- Mount 10T hydraulic-servo tool turret



Frame



Linear guideway



Spindle



Hydraulic chuck and tailstock



SCHNEIDER brand electricity parts

#### Specification:

Item	Specification	Unit	BL-H50Q
Capacity	Chuck size	/	8" / 10"
	Max. swing dia. over bed	mm	Φ500
	Max. swing dia. over saddle	mm	Φ250
	Max. turning length	mm	500
	Max. turning dia.	mm	Φ400
Spindle	Spindle bore	mm	Φ62
	Spindle end type	/	A2-6
	Spindle speed	rpm	3500
	Max. bar through dia.	mm	51
	Spindle motor power	kw	11
X/Z axes	X/Z axes linear guideway type	/	ROLLER type
	X axes travel	mm	210
	Z axes travel	mm	500
	X/Z axes rapid moving speed	m/min	30
Tool turret	Tool turret type	/	10T Hydraulic-servo
	Toolshank size	mm	25×25, Φ32
Tailstock	Tailstock quill taper	/	M75#
	Tailstock body max. travel	mm	450
Accuracy	Positioning accuracy(X/Z)	mm	±0.005
	Repeat positioning accuracy(X/Y/Z)	mm	±0.003
Others	Overall size	mm	2500×1500×1700
	N.W.	kg	3800

#### Main parts list:

Item	Brand
Spindle unit	TAIWAN-KENTURN
Tool turret	TAIWAN-MYKUN
Ball screw	TAIWAN-HIWIN/PMI
Ball screw bearing	GERMANY-FAG
Linear guideway	TAIWAN HIWIN/PMI
Lubrication system	JAPAN-HERG
Rotary oil cylinder&chuck	TAIWAN-AUTOGRIP
Main electricity parts	FRANCE-SCHNEIDER

#### Standard configuration:

- SIEMENS 808D ADVANCED CNC controller
- Hydraulic chuck
- Hydraulic-servo tool turret
- Hydraulic tailstock

#### Optional configuration:

- SYNTEC/SIEMENS 828D/FANUC CNC controller
- Automatic chip conveyor



#### Features:

- Adopt TAIWAN technology, designed by TAIWAN engineer, most parts adopt GERMANY/JAPAN/TAIWAN brand
- Adopt 30° integral slant bed design
- X,Z axes adopt 45mm big width type linear guideway, super high rigidity
- Adopt modularization design, easy for various especial configuration choice, such as tool setter, parts catcher etc
- Adopt MEEHANITE class cast iron, after aging treatment, small distortion, good torsional strength, good heat stability
- Base adopt multilayer strengthening rib, ensure bed's strength and stability
- Adopt high precision integral spindle unit, spindle motor adopt high performance servo motor, big output torque, high speed, wide adjustment range
- Adopt high precision C3 class pre-stretched ball screw(double nuts), coupled with feeding motor directly by Linkager, no gap, high transmission rigidity
- Spindle adopt double line ROLLER type bearing, high rigidity, suitable for heavy cutting
- H50T mount 12T Hydraulic-servo tool turret
- H50TC mount C axes and 12T Powered tool turret
- H50TY mount C axes and 12T Powered tool turret with 90° Y axes



Strong frame



X,Z axes 45mm THK linear guideway



Strong spindle



H50T 12T Hydraulic-servo tool turret



H50TC 12T BMT55 powered tool turret

#### Specification:

Item	Specification	Unit	BL-H50T	BL-H50TC	BL-H50TY
Capacity	Chuck size	/	8"(10",12")		
	Max. swing dia. over bed	mm	Φ560		
	Max. swing dia. over saddle	mm	Φ300		
	Max. turning length	mm	485(8" chuck); 475(10" chuck*); 440(12" chuck*)	355(8" chuck)	450(8" chuck)
	Max. turning dia.	mm	Φ400	Φ290	Φ330
Spindle	Standard turning dia.	mm	Φ200(8" chuck); Φ250(10" chuck*); Φ300(12" chuck*)	Φ200(8" chuck)	Φ200(8" chuck)
	Spindle bore	mm	Φ66(Φ66*)		
	Spindle end type	/	A2-B(A2-B*)		
	Spindle speed	rpm	4000(3500*)		
	Max. bar through dia.	mm	51(74*)		
X/Z axes	Spindle motor power	kw	11(15*)		
	X/Y/Z axes linear guideway type	/	BALL type		
	X/Y/Z axes linear guideway width	mm	45/30/45		
	X/Y/Z axes ball screw O.D.	mm	Φ32/Φ32/Φ40		
	X/Y/Z axes ball screw pitch	mm	10		
	X axes travel	mm	230	250	220
	Y axes travel	mm	/	/	90
	Z axes travel	mm	610	500	500
	X/Z axes rapid moving speed	m/min	24/24		
	Y axes rapid moving speed	m/min	/	/	8
Tool turret	Tool turret type	/	12T Hydraulic-servo tool turret	12T BMT55 Powered tool turret	12T BMT55 Powered tool turret with Y axes
	Toolshank size	mm	25×25, Φ40	25×25, Φ32(ER32)	25×25, Φ32(ER32)
Tailstock	Tailstock quill taper	/	MT4#		
	Tailstock quill dia./travel	mm	Φ80/80		
Accuracy	Positioning accuracy(X/Z)	mm	0.008/1.000		
	Repeat positioning accuracy(X/Z)	mm	±0.005		
Others	Overall size	mm	2600×1800×1900		
	N.W.	kg	4000	4100	4200

\* As option

#### Main parts list:

Item	Brand
Spindle unit	TAIWAN-ROYAL
Tool turret	GERMANY-SAUTER/TAIWAN-YULIN/SWIFT
Ball screw	JAPAN-THK
Ball screw bearing	JAPAN-NSK
Linear guideway	JAPAN-THK
Lubrication system	TAIWAN-ISHAN
Rotary oil cylinder&chuck	TAIWAN-AUTOGRIP
Hydraulic parts	TAIWAN/JAPAN
Heat exchanger	Joint-venture
Main electricity parts	FRANCE-SCHNEIDER

#### Standard configuration:

- SIEMENS 808D ADVANCED CNC controller
- Hydraulic chuck
- Hydraulic-servo tool turret
- Hydraulic tailstock

#### Optional configuration:

- SYNTEC/SIEMENS 828D/FANUC Oi TF CNC controller
- C axes& powered tool turret
- Y axes
- Automatic chip conveyor
- Tool setting probe



### Features:

- Adopt ROLLER type linear guideway
- Adopt TAIWAN technology, most parts adopt GERMANY/JAPAN/TAIWAN brand
- Adopt 45° integral slant bed design
- Adopt china top class HT300 cast iron, after aging treatment, small distortion, good torsional strength, good heat stability
- Adopt high precision spindle unit, spindle motor adopt high performance servo motor, big output torque, high speed
- Adopt high precision pre-stretched ball screw(double nuts), coupled with feeding motor directly by linkage, no gap, high transmission rigidity
- Adopt especial structure programmable tailstock, tailstock quill not move, whole tailstock body driven by hydraulic cylinder on linear guideway\* If mount hydraulic steady rest, the guideway of tailstock to be BOX guideway)
- H50L PLUS mount 12T Hydraulic-servo tool turret
- H50LC PLUS mount C axes and 12T GERMAN SAUTER Powered tool turret



Hydraulic chuck



H50L PLUS 12T Hydraulic-servo tool turret



H50LC PLUS 12T BMT55 powered tool turret



Programmable hydraulic tailstock



H50L PLUS hydraulic steady rest



SIEMENS 828D

### Specification:

Item	Specification	Unit	BL-H50L PLUS	BL-H50LC PLUS
Capacity	Max. swing dia. over bed	mm		Φ520
	Max. swing dia. over slide	mm		Φ300
	Max. turning dia.	mm	Φ400	
	Max. turning length	mm		1000/1500/2000/3000
Spindle	Spindle bore	mm		Φ79(Φ92*)
	Spindle type	/		A2-6(A2-8*)
	Spindle speed	rpm		4000(2500*)
	Chuck size	/		8"(10"×12")
	Max. bar through dia.	mm		Φ51(Φ74*Φ79*)
	Spindle motor power	kw		11(15)*
X/Z axes	Spindle dividing accuracy	"		0.001*
	X axes travel	mm	220	
	Z axes travel	mm		1000/1500/2000/3000
	X axes ball screw dia./pitch	mm		Φ32/10
	Z axes ball screw dia./pitch	mm		Φ40/12
	X/Z axes linear guideway width	mm		35/45(ROLL type)
Tool post	X/Z axes rapid moving speed	m/min		24/20
	Tool post type	/	12 station hydraulic-servo tool turret	12 station servo powered tool turret BMT55
	Live tool speed	rpm	/	4500
	Toolshank size	mm		25×25, Φ40
	Tailstock quill travel	mm	/	/
	Tailstock quill dia.	mm	/	/
Tailstock	Tailstock quill taper	/		M75#
	Tailstock body travel	mm		900/1400/1900/2900
	X/Z axes positioning accuracy	mm		±0.005
	X/Z axes repeated positioning accuracy	mm		±0.003
Others	Overall size	mm	3300/3800/4300/5300×1700×1800	
	N.W.	kg	6000(for 1000mm)	6500(for 1000mm)

\* As option

### Main parts list:

Item	BL-H50L PLUS	BL-H50LC PLUS
CNC controller	GERMANY-SIEMENS	GERMANY-SIEMENS
X,Z axes servo motor&driver	GERMANY-SIEMENS	GERMANY-SIEMENS
Spindle servo motor&driver	CHINA Topi(opt.-SIEMENS)	GERMANY-SIEMENS
Tool turret index motor&driver	TAIWAN-DELTA	GERMANY-SIEMENS
Live tool motor&driver	/	GERMANY-SIEMENS
Spindle	TAIWAN-KENTURN	
Spindle encoder	CHINA brand	GERMANY-HEIDENHAIN
Bearing	JAPAN NSK/GERMANY FAG	
Ball screw	TAIWAN HIWIN/PMI	
Linear guideway	TAIWAN HIWIN/PMI	
Tool turret	INDIA-PARAGATI/TAIWAN MYKUN/GERMANY-SAUTER	GERMANY-SAUTER
Chuck&cylinder	TAIWAN-AUTOGRIP	
Hydraulic parts	TAIWAN/JAPAN	
Lubrication pump	JAPAN-HERG	
Nuts	TAIWAN-YINSH	
Main electric parts	FRANCE-SCHNEIDER	

### Standard configuration:

- SIEMENS 808D ADVANCED CNC controller
- Hydraulic chuck
- Hydraulic-servo tool turret
- Hydraulic tailstock

### Optional configuration:

- SYNTEC/SIEMENS 828D/FANUC CNC controller
- C axes& powered tool turret
- V axes
- Automatic chip conveyor
- Tool setting probe



### Features:

- Adopt ROLLER type linear guideway
- Adopt TAIWAN technology, most parts adopt GERMANY/JAPAN/TAIWAN brand
- Adopt 45° integral slant bed design
- Adopt china top class HT300 cast iron, after aging treatment, small distortion, good torsional strength, good heat stability
- Adopt high precision spindle unit, spindle motor adopt high performance servo motor, big output torque, high speed
- Adopt high precision pre-stretched ball screw (double nuts), coupled with feeding motor directly by linkager, no gap, high transmission rigidity
- Adopt especial structure programmable tailstock, tailstock quill not move, whole tailstock body driven by hydraulic cylinder On linear guideway\* If mount hydraulic steady rest, the guideway of tailstock to be BOX guideway)
- H60L mount 10T TAIWAN Hydraulic tool turret
- H60LC mount C axes and 12T GERMAN SAUTER Powered tool turret



H60L 10T Hydraulic servo tool turret



H60LC 12T BMT65 powered tool turret



Programmable hydraulic tailstock



H60L hydraulic steady rest



SCHNEIDER brand electricity parts

### Specification:

Item	Specification	Unit	BL-H60L	BL-H60LC
Capacity	Max. swing dia. over bed	mm		Φ600
	Max. swing dia. over slide	mm		Φ400
	Max. turning dia.	mm	Φ600	Φ450
	Max. turning length	mm		1000/1500/2000/3000
Spindle	Spindle bore	mm		Φ87(Φ105*)
	Spindle type	/		A2-B(A2-11*)
	Spindle speed	rpm		2500(2000*)
	Chuck size	/		10"(12")
	Max. bar through dia.	mm		Φ74(90*)
	Spindle motor power	kw	18.5/22	15(SIEMENS)
X/Z axes	Spindle dividing accuracy	"	/	0.001"
	X axes travel	mm	320	250
	Z axes travel	mm		1000/1500/2000/3000
	X axes ball screw dia./pitch	mm		Φ32/10
	Z axes ball screw dia./pitch	mm		Φ40/12
	X/Z axes linear guideway width	mm		45/55(ROLL type)
Tool turret	X/Z axes rapid moving speed	m/min		20/20
	Tool post type	/	10 station hydraulic tool turret	12 station servo powered tool turret BMT65
	Toolshank size	mm	32×32, Φ40	25×25, Φ40
	Tailstock quill travel	mm	/	/
Tailstock	Tailstock quill dia.	mm	/	/
	Tailstock quill taper	/	MT6#	MT6#
	Tailstock body travel	mm	800/1300/1800/2800	850/1350/1850/2850
	X/Z axes positioning accuracy	mm		±0.005
Others	X/Z axes repeated positioning accuracy	mm		±0.003
	Overall size	mm		3600/4100/4600/5600×2200×2360
	N.W.	kg	7000(for 1000mm)	7100(for 1000mm)

\* As option

### Main parts list:

Item	BL-H60L	BL-H60LC
CNC controller	GERMANY-SIEMENS	GERMANY-SIEMENS
X,Z axes servo motor&driver	GERMANY-SIEMENS	GERMAN-SIEMENS
Spindle servo motor&driver	CHINA Top	GERMAN-SIEMENS
Spindle	TAIWAN-KENTURIN	
Spindle encoder	CHINA brand	GERMANY-HEIDENHAIN
Bearing	JAPAN NSK/GERMANY FAG	
Ball screw	TAIWAN HIWIN/PMI C3 class	
Linear guideway	TAIWAN HIWIN/PMI P class	
Tool turret	TAIWAN-GSA/MYKUN	GERMANY-SAUTER
Chuck&cylinder	TAIWAN-AUTOGRIP	
Hydraulic parts	TAIWAN/JAPAN	
Lubrication pump	JAPAN-HERG	
Nuts	TAIWAN-YINSH	
Main electric parts	FRANCE-SCHNEIDER	

### Standard configuration:

- SIEMENS 808D ADVANCED CNC controller
- Hydraulic chuck
- Hydraulic-servo tool turret
- Hydraulic tailstock

### Optional configuration:

- SYNTEC/SIEMENS 828D/FANUC CNC controller
- C axes& powered tool turret
- V axes
- Automatic chip conveyor
- Tool setting probe



### Features:

- 45° slant bed, hard box guideway
- Bed adopt China best high strength compound resin sand cast iron
- Guideway hardened by ultrasonic frequency and precise ground, good precision keeping
- Aging treatment, has good vibration absorption and rigidity
- Guideway stick PTFE, remove creeping, obviously increase precision, wearability and anti-impact force
- Spindle use high precision bearing
- Adopt 3 class gear box, suitable for heavy turning.



Manual 3 class gear spindle



4 station tool turret



Manual tailstock



8 station tool turret(opt.)



Hydraulic steady rest(opt.)

### Specification:

Item	Specification	Unit	BL-CBK50	BL-CBK63
Capacity	Bed slant angle	°	45°	45°
	Max. swing dia. over bed	mm	Φ500	Φ630
	Max. swing dia. over saddle	mm	Φ350	Φ445
	Max. turning dia.	mm	Φ420	Φ500(Vertical 4T tool turret); Φ400(Horizontal 8T tool turret)
Max. turning length		mm	1050(Vertical 4T tool turret); 980(Horizontal 6,8T tool turret)	1000/2000/3000(Vertical 4T tool turret); 800/1800/2800(Horizontal 8T tool turret)
	Max. workpiece weight	kg	700(10" manual chuck)	1200(12" manual chuck)
Spindle	Spindle bore	mm	Φ62	Φ84
	Spindle type	/	A2-8	A1-11(manual chuck);A2-8(hydraulic chuck)
	Spindle speed	rpm	H:162-1620 M:66-660 L:21-210 Manual 3 class gears, stepless in every class	L:20-210 M:50-525 H:155-1600 Manual 3 class gears, stepless in every class
	Spindle motor power	kw	7.5	11
	Chuck size	/	10"	12"
X/Z axes	X axes travel	mm	255	350(Vertical 4T tool turret); 270(Horizontal 8T tool turret)
	Z axes travel	mm	1000	1000/2000/3000(Vertical 4T tool turret); 800/1800/2800(Horizontal 8T tool turret)
	X axes ball screw O.D.	mm	Φ32	Φ32
	Z axes ball screw O.D.	mm	Φ40	Φ50(1000mm)/50(2000mm)/63(3000mm)
	X axes ball screw pitch	mm	5	5
	Z axes ball screw pitch	mm	6	6(1000mm)/6(2000mm)/8(3000mm)
X/Z axes rapid moving speed	m/min	6/8	8/8	
Tool post	Tool turret type	/	Vertical 4T/Horizontal 6,8T(opt.)	Vertical 4T/Horizontal 8T(opt.)
	Toolshank size	mm	25×25	32×32
Tailstock	Tailstock quill taper	/	MT5#	MT5#
	Tailstock quill dia./travel	mm	Φ90/100	Φ100/150
Others	X/Z axes positioning accuracy	mm	0.026/0.036	X axes ≤0.026 Z axes ≤0.036(1000mm);0.040(2000mm); 0.048(3000mm) X axes ≤0.007mm
	X/Z axes repeated positioning accuracy	mm	0.01/0.013	Z axes ≤0.009(1000mm);0.014(2000mm); 0.020(3000mm)
	Turning workpiece roundness	mm	0.004	0.004
	Overall size	mm	3120×1900×1910	2720/3980/5050×1800×1890
	N.W.	kg	3800	5000/5500/7500

\* The marked accuracy just follows CHINA national standard GB/T 25659.1, actual accuracy is much higher

### Main parts list:

Item	Brand
Spindle bearing	CHINA TOP-CSC/ZWZ/HRB
Ball screw bearing	CHINA TOP-CSC
Ball screw	CHINA top
Lubrication pump	JAPAN-LUBE

### Standard configuration:

- FANUC Oi TF CNC Controller
- Manual chuck
- 4 station electric tool turret
- Manual tailstock

### Optional configuration:

- 6/8 station tool turret
- Hydraulic chuck
- Hydraulic tailstock
- Hydraulic steady rest



### Features:

- Monoblock slant bed
- HARD BOX guideway, high rigidity, heavy-duty type, suitable for long axes heavy cutting
- CHINA top quality, high stability
- Adopt FANUC controller



Strong spindle



Hydraulic tool turret and tailstock



Hydraulic steady rest(opt.)



FANUC OI TF



SCHNEIDER brand electricity parts

Specification:							
Item	Specification	Unit	BL-CK7516A	BL-CK7520A	BL-CK7525A	BL-CK7530	BL-CK7550
Capacity	Bed slant angle	°	45°	45°	45°	60°	60°
	Max. swing dia. over bed	mm	Φ400	Φ450   Φ500	Φ550	Φ670	Φ850
	Max. swing dia. over saddle	mm	Φ260	Φ320	Φ370	Φ470	Φ600
	Max. turning length	mm	1000	1000/1500	1000/1500	800/1500/2000	1500/2000/3000
	Max. turning dia.	mm	Φ285	Φ370	Φ450	Φ600/550(Electric/ Hydraulic tool turret)	Φ750
Spindle	Max. workpiece weight	kg	360(6" chuck); 550(8" chuck)	550(8" chuck); 700(10" chuck)	700(10" chuck); 900(12" chuck)	900(12" chuck); 2000(15"/18"chuck)	3000(21" chuck)
	Spindle bore	mm	Φ57	Φ62   Φ67	Φ67	Φ105	Φ135
	Spindle type	/	A2-5	A2-6   A2-8	A2-8	A2-8(opt.A2-11)	A2-11
	Spindle speed	rpm	80~3500	75~2500   75~1500	100~2000	25~2500 (opt.ZF reducer L12~830 H50~2500)	L8~530 H30~1200 (ZF reducer)
	Chuck size	/	6"	8"   10"	10"	12"	21"
X/Z axes	Max. bar through dia.	mm	Φ42	Φ51   Φ73	Φ73	Φ90	/
	Spindle motor power	kw	7.5/11	15	18.5	22/30(FANUC α)	30/37(FANUC α)
	X axes travel	mm	165	210	250	325	385
	Z axes travel	mm	1030	1010/1550	1010/1550	880/1550/2050	1540/2040/3050
	X/Z axes ball screw O.D.	mm	Φ28/40	Φ32/40(1000mm); 50(1500mm)	Φ32/40(1000mm); 50(1500mm)	Φ40/50	Φ50/63
Tool turret	X/Z axes rapid moving speed	m/min	12/16	12/16	12/16	12/16	10/12
	X/Z axes motor torque	Nm	11/20(FANUC β)	11/20(FANUC β)	20/20(FANUC β)	12/22(FANUC α)	22/30(FANUC α)
	Tool turret type	/	8/12 station	8/12 station	8/12 station	8/12 station	8/12 station
Tailstock	Toolhank size	mm	20×20, Φ32	25×25, Φ40	25×25, Φ40	32×32, Φ50	32×32, Φ63
	Tailstock quill taper	/	MT4#	MT5#	MT5#	MT6#	MT6#
	Tailstock quill dia./travel	mm	Φ70/80	Φ90/100	Φ100/100	Φ110/150	Φ150/150
Others	X axes positioning accuracy	mm	0.009	0.009	0.009	0.009	0.009
	Z axes positioning accuracy	mm	0.013	0.013(1000mm); 0.018(1500mm)	0.013(1000mm); 0.018(1500mm)	0.018(1500/2000mm)	0.018(1500/2000mm); 0.023(3000mm)
	X axes repeated positioning accuracy	mm	0.004	0.004	0.004	0.004	0.004
	Z axes repeated positioning accuracy	mm	0.006	0.006(1000mm); 0.007(1500mm)	0.006(1000mm); 0.007(1500mm)	0.005(800mm); 0.007(1500/2000mm)	0.007(1500/2000mm); 0.008(3000mm)
	Turning workpiece roundness	mm	≤0.0025	≤0.0025(1000mm); ≤0.004(1500mm)	≤0.004	≤0.004	≤0.004
	Total power	KVA	35	30	35	60	75
Overall size	mm	3200×1700×1970	3790/4600×1850×2050	3790/4600×1850×2050	3820/4820/5320 ×2120×2160	5420/5870/7360 ×2800×2770	
	N.W.	kg	4500	5000/6700	5000/6700	8330/9730/12000	14000/16000/20000

\* The marked accuracy just follows CHINA national standard GB/T 16462, actual accuracy is much higher

Main parts list:		Standard configuration:	
Item	Brand		
Spindle bearing	NSK or NTN(CK7516A/7520A/7525A);SKF or FAG(CK7530/7550)	●FANUC OI TF CNC Controller	
Ball screw bearing	NSK/FAG/NTN	●Hydraulic chuck	
Ball screw	CHINA top(CK7516A/7520A/7525A, opt.TAIWAN/JAPAN);JAPAN THK(CK7530/7550)	●8 station tool turret	
Chuck/cylinder	TAIWAN/KOREA	●Hydraulic tailstock	
Tool turret	TAIWAN LIO SHING/ITALY DUPLIOMATIC		
Lubrication pump	JAPAN-LUBE		
Optional configuration:			
		●Hydraulic steady rest	
		●Tool setting probe	