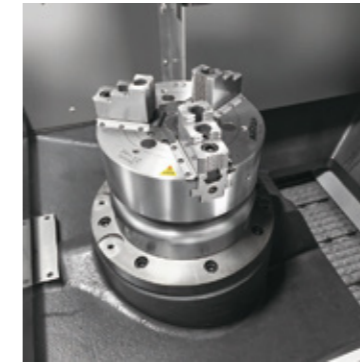


TAIWANESE TECHNOLOGY, LINEAR GUIDEWAY, 10"/12"/15"/18"/21"/24"/32"/40" CHUCK, 12T TOOL TURRET



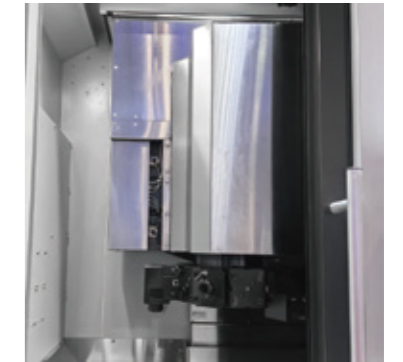
VL600M frame



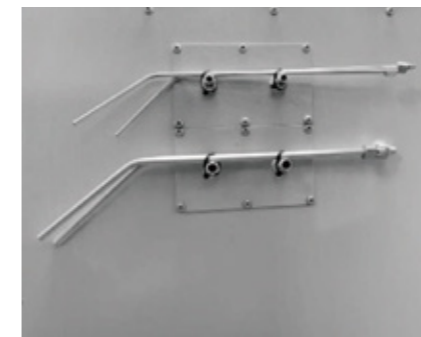
Hydraulic chuck



VL400 600 800 1000 12T hydraulic-servo turret



VL400M 600M 800M 1000M 12T BMT powered turret



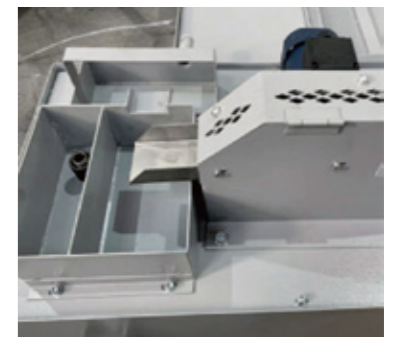
Side water & air flush



Widened & thickened chip conveyor



FANUC 0i TF CNC Controller



Oil skimmer(opt.)

**Features:**

- XZ axes adopt LINEAR guideway
- Designed by TAIWANESE engineers
- Whole production process according to TAIWANESE standard
- Most parts adopt GERMAN/JAPANESE/TAIWANESE brand
- Adopt high class cast iron, with high rigidity, excellent torsion resistance
- Column adopt symmetrical box structure, provide strong support for the slide during heavy cutting, high rigidity and high precision
- Feeding axes adopt high dynamic motor and pre-loaded ball screws with double support
- X and Z axes with absolute measuring system(encoder)
- VL1000/1000M adopts 2 class gear reduction box, high rigidity
- VL400/600/800/1000: 12T hydraulic-servo tool turret
  - VL400M: 12T BMT55 powered tool turret+CS axes
  - VL600M/800M: 12T BMT65 powered tool turret+CS axes
  - VL1000M: 12T BMT75 powered tool turret+CS axes

**Main parts list:**

Item	Brand	Item	Brand
CNC Controller	JAPAN-FANUC/GERMANY-SIEMENS	Shaft coupling	GERMANY R+W/KTR
Feeding motor&driver	JAPAN-FANUC/GERMANY-SIEMENS	Gear reduction box	GERMANY-ZF/TAIWAN-GTP
Spindle motor&driver	JAPAN-FANUC/GERMANY-SIEMENS	Chuck&cylinder	TAIWAN-AUTOGRIP
Spindle bearing	JAPAN-NSK	Relay	JAPAN-OMRON
Tool turret	GERMANY-SAUTER(GPM)/TAIWAN	Hydraulic pump&valve	TAIWAN-SEVEN OCEAN
Ball screw bearing	JAPAN-NSK/NACHI	Lubrication pump	TAIWAN-ISHAN
Linear guideway	TAIWAN-PMI	Coolant pump	TAIWAN-STAIRS
Ball screw	TAIWAN-PMI	Main electricity parts	FRANCE-SCHNEIDER

**Standard configuration:**

- FANUC 0i TF CNC Controller
- Hydraulic chuck

**Optional configuration:**

- SIEMENS 828D CNC Controller

TAIWANESE TECHNOLOGY, LINEAR GUIDEWAY, 10"/12"/15"/18"/21"/24"/32"/40" CHUCK, 12T TOOL TURRET

Specification:							
Item	Specification	Unit	BL-VL400	BL-VL400M	BL-VL600	BL-VL600M	
Capacity	Max. swing dia. over bed	mm	Φ550		Φ700		
	Max. turning dia.	mm	Φ450		Φ600		
	Recommended max. turning diameter	mm	Φ300		Φ390		
	Chuck size	mm	10*(12**/15**)		12*(15**/18**)		
	Max. turning height(O.D.)	mm	390	350	530	500	
	Max. load capacity	kg	300		600		
Spindle	Spindle max. speed	rpm	3000		2500		
	Spindle nose type	/	A2-6		A2-8		
	Spindle front bearing dia.	mm	Φ100		Φ130		
	Spindle motor	kw	15/18.5(FANUC)				
	Spindle torque	Nm	274/453		440/544		
	C axes positioning accuracy	arcsec	/	≤20		/	≤20
X/Z axes	X axes travel	mm	260		350		
	Z axes travel	mm	425		520		
	X,Z axes guideway type	/	BALL type linear guideway(ROLLER type linear guideway*/BOX guideway*)				
	X/Z axes rapid moving speed	m/min	12/24		20/20		
	X/Z axes positioning accuracy	mm	0.008/0.010				
	X/Z axes repeat positioning accuracy	mm	0.004/0.005				
Tool turret	Tool turret type	/	12T hydraulic-servo tool turret	BMT55 12T powered tool turret	12T hydraulic-servo tool turret	BMT65 12T powered tool turret	
	Tool shank size	mm	25×25,Φ40				
	Indexing time 30°with locking	s	0.35				
	Indexing time 30°without locking	s	0.12				
	Live tool motor	kw	/	2.7(FANUC)		/	4.5(FANUC)
	Live tool max. speed	rpm	/	4000		/	4000
	Live tool max. torque	Nm	/	46		/	76
Others	Hydraulic tank capacity	L	35		40		
	Coolant tank capacity	L	200		240		
	Coolant pump power	w	500				
	Coolant pump flow	L/min	24				
	Total power	KVA	35	40	35	40	
	Acceptance test standard	/	VDI 3441				
	Air pressure	bar	6				
	Air consumption	m³/h	15				
	Overall size(L×B×H)	mm	1600×3100×3000(including chip conveyor)		1810×3580×3135(including chip conveyor)		
	N.W.	kg	4400 (including chip conveyor)	4500 (including chip conveyor)	6600 (including chip conveyor)	6700 (including chip conveyor)	

\* As option

Specification:							
Item	Specification	Unit	BL-VL800	BL-VL800M	BL-VL1000	BL-VL1000M	
Capacity	Max. swing dia. over bed	mm	Φ900		Φ1100		
	Max. turning dia.	mm	Φ800		Φ1000		
	Recommended max. turning diameter	mm	Φ500		Φ600		
	Chuck size	mm	18*(21**/24**)		24*(32**/40**)		
	Max. turning height(O.D.)	mm	730	680	880		
	Max. load capacity	kg	1200		1800		
Spindle	Spindle max. speed	rpm	2000		2 class gears 1500(high gear class)/600(low gear class)		
	Spindle nose type	/	A2-11				
	Spindle front bearing dia.	mm	Φ160		Φ200		
	Spindle motor	kw	18.5/22(FANUC)				
	Spindle torque	Nm	614/864		730(high gear class)/ 3614(low gear class)	864(high gear class)/ 3614(low gear class)	
	C axes positioning accuracy	arcsec	/	≤20		/	≤20
X/Z axes	X axes travel	mm	490	500	-50~+550	580	
	Z axes travel	mm	700		880		
	X,Z axes guideway type	/	BALL type linear guideway(ROLLER type linear guideway*/BOX guideway*)				
	X/Z axes rapid moving speed	m/min	20/20				
	X/Z axes positioning accuracy	mm	0.008/0.010				
	X/Z axes repeat positioning accuracy	mm	0.004/0.005				
Tool turret	Tool turret type	/	12T hydraulic-servo tool turret	BMT65 12T powered tool turret	12T hydraulic-servo tool turret	BMT75 12T powered tool turret	
	Tool shank size	mm	32×32,Φ50	25×25,Φ40	32×32,Φ50	32×32,Φ50	
	Indexing time 30°with locking	s	1.5	1	4	3	
	Indexing time 30°without locking	s	1	0.5	2	1.5	
	Live tool motor	kw	/	5.5kw(FANUC)		/	5.5kw(FANUC)
	Live tool max. speed	rpm	/	4000		/	4000
	Live tool max. torque	Nm	/	100		/	100
Others	Hydraulic tank capacity	L	40				
	Coolant tank capacity	L	350		500		
	Coolant pump power	w	500	500	500	750	
	Coolant pump flow	L/min	24				
	Total power	KVA	40	45	45	50	
	Acceptance test standard	/	VDI 3441				
	Air pressure	bar	6				
	Air consumption	m³/h	15				
	Overall size(L×B×H)	mm	2080×3620×3660(including chip conveyor)		2330×4150×4200(including chip conveyor)		
	N.W.	kg	11600 (including chip conveyor)	11700 (including chip conveyor)	14500 (including chip conveyor)	14600 (including chip conveyor)	

\* As option