

Hall **016** / Stand **D14**

Exhibition Special Edition



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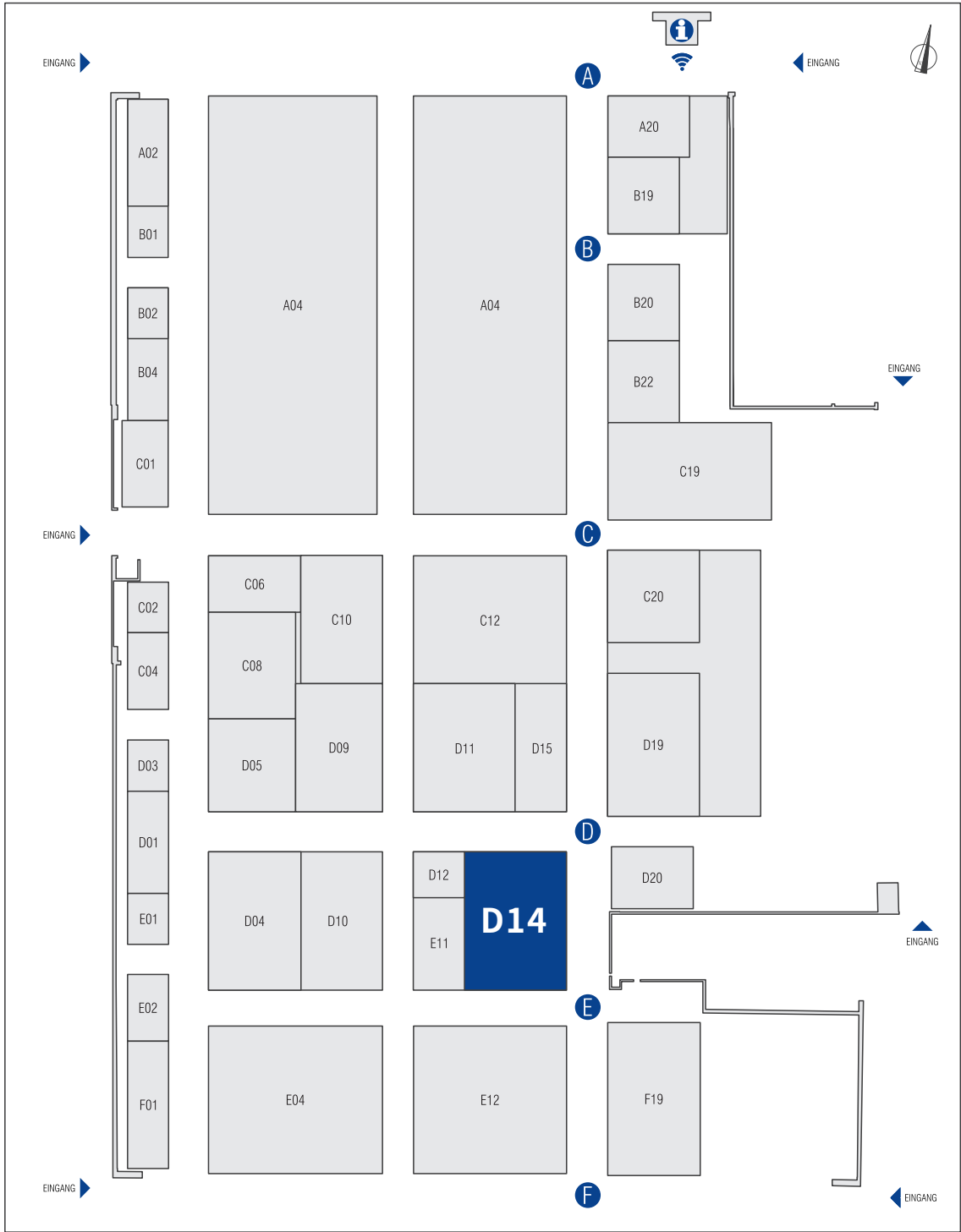
HUATENG MACHINERY (SINGAPORE) PTE. LTD.

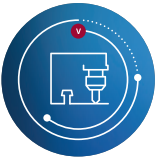
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V50U

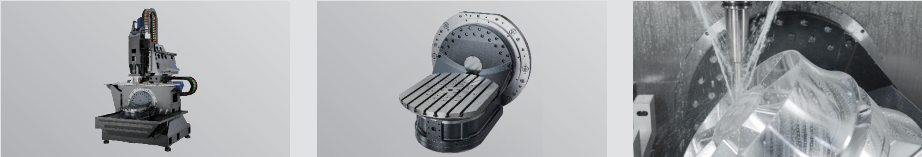
Vertical Machining Center

V50U is a newly developed vertical high-speed milling center. The deep integration of dynamic rigidity optimization and intelligent numerical control technology in machine tools enables multi-directional machining in a single clamping process, significantly reducing workpiece reversal and repeated positioning time, and greatly improving the efficiency and accuracy level of complex part machining. Suitable for processing high-order complex parts such as civil aviation and precision molds.

- Standard with a HISION 15,000rpm high-power built-in spindle delivering maximum power of 28kW, enabling efficient metal removal capabilities.
- HISION high-performance BC cradle rotary table achieves high-speed C-axis rotation, with rapid speed 100rpm.
- Equipped with full-closed-loop servo axis detection, ensuring true high-precision machining.
- Three-axis ball screw bearing and nut cooling effectively suppresses thermal displacement, maintaining precision stability during prolonged operation.
- Standard dual-servo tool magazine ensures more stable and efficient tool change.



Item		Unit	V50U
Machining Range	X/Y/Z travel	mm	650/520/475
	Spindle nose to table surface	mm	150-625
	B rotation center to table surface		50
	B swing range	°	-35/+110
	C rotation range	°	360
Table	Table size	mm	φ630×500
	Table load	kg	350
	Drive type		Built-in
Spindle	Spindle speed	rpm	15000
	Spindle power (S1/S6)	kW	17/28
	Spindle torque (S1/S6)	Nm	90/148
	Spindle taper		HSK-A63
	X/Y/Z rapid traverse	m/min	45/45/45
Feed	X/Y/Z feed rate	m/min	20/20/20
	B speed	rpm	20
	C speed	rpm	100
	Capacity	T	30
Tool magazine	Type		Servo
	Max. tool dia. (Adjacent/vacant)	mm	φ75/φ130
	Max. tool length	mm	300
Other	Machine size	mm	3750×3200×3350
	Machine weight	t	8



Standard Configuration

1. Controller: HEIDENHAIN TNC640
2. 15000rpm built-in spindle
3. B-axis mechanical drive
4. C-axis torque motor
5. Thermostatic cooling system
6. Full enclosure
7. Cutting cooling
8. Closed-loop servo feedback system
9. Automatic chip conveyor
10. 30T servo tool magazine
11. Automatic precision calibration function
12. 3-color signal lamp and working light
13. Air/water gun
14. AC for electric cabinet
15. CE Mark (EU region)

Option Configuration

1. Controller: HEIDENHAIN TNC7
2. 32/40/60T dual-servo tool magazine
3. Kessler spindle 24000rpm
4. CTS 2/3/7 MPa
5. Workpiece probe
6. Tool setter
7. Rotating window
8. Oil skimmer
9. Internal flushing
10. Oil mist collector
11. Automatic side-opening door
12. Predefined 3-in/3-out hydraulic interface



LBQ10Y

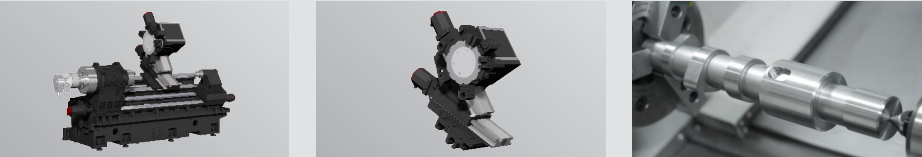
CNC Lathe

LBQ10Y is a high-performance box-guideway lathe equipped with Y-axis and interpolation function. The machine tool can be configured with 10-15 inch chucks, offering exceptional turning and milling capabilities, making it suitable for shaft-type parts in industries such as automotive, energy, shipbuilding, and construction machinery.

- 30° inclined bed with box guideway provides superior vibration absorption for enhanced machining quality.
- High-power, high-torque, high-precision built-in spindle enables higher machining efficiency.
- HISION high-performance powered turret with clamping force exceeding 6,000 kgf, paired with oil-air lubrication, effectively suppresses thermal deformation.
- Proprietary box guideway servo tailstock design ensures exceptional tailstock rigidity.
- Flexible left-side or right-side chip conveyor options to suit production layouts.



Item		Unit	LBQ10Y
Machining Range	Max. swing over bed	mm	φ660
	Max. swing over saddle	mm	φ460
	Max. turning dia.	mm	φ410
	Max. turning length	mm	1050
	Max. bar capacity	mm	φ74
	X/Y/Z travel	mm	255/±60/1155
Turret	Type		BMT65
	OD tool size	mm	25×25
	Max. boring bar dia.	mm	φ50
	Indexing time	s	0.2
Spindle	Drive type		Built-in
	Spindle speed	rpm	3500
	Spindle power	kW	15/18.5
	Spindle nose		JISA2-8
	Spindle through hole	mm	φ91
	Spindle bearing dia. (Front)	mm	φ130
	Chuck size	inch	10
Feed	Milling spindle power	kW	3.7/5.5
	Milling spindle speed	rpm	5000
	X/Y/Z rapid traverse	m/min	30/12/30
	Quill dia.	mm	φ100
Tailstock	Quill taper		MT5
	Quill travel	mm	1100
	Machine size	mm	3480×1760×2180
Other	Machine weight	t	8.5

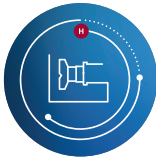


Standard Configuration

1. Controller: FANUC 0i-TF PLUS(1)
2. Hydraulic, cooling, and lubrication systems
3. 12T servo power turret
4. 10" solid hydraulic chuck
5. Tool holder
6. Hydraulic tailstock (MT5)
7. Live center
8. Soft jaw
9. Transformer
10. 3-color signal lamp and working light
11. Safty door lock
12. Buzzer
13. Chuck/tailstock foot switch
14. Chain-type chip conveyor and chip cart
15. CE Mark (EU region)

Option Configuration

1. Automatic door (pneumatic)
2. Auto bar catcher
3. 10" hollow chuck with hollow cylinder
4. Auto Bar feeder
5. Air/water gun
6. Chuck air blow
7. Chuck water flush
8. Servo tailstock (MT4)
9. Coolant through tool
10. Oil skimmer
11. Oil mist collector
12. Position detection for chuck



NQ50

Horizontal Machining Center

NQ50 is an efficient and precise horizontal machining center. Suitable for processing various materials and parts in the automotive parts, molds, and IT industries. To meet the production requirements of high precision, high efficiency, and high speed, an automated production line can be configured. Its design concept of standardization, modularization and generalization endows the machine tool with outstanding progressiveness and foresight, and provides excellent cost performance.

- Compact structure with small footprint.
- High rigidity, excellent dynamic characteristics, and superior precision retention.
- High-power spindle delivering enhanced cutting capacity and high machining accuracy.
- Grease lubrication system ensuring energy efficiency and environmental compliance.
- Highly integrated automation interfaces.
- Hollow-ball-screw cooling on three axis ensures high stability in batch part processing.



Item		Unit	NQ50
Machining Range	X/Y/Z travel	mm	730/730/800
	Spindle center to table surface	mm	80-810
	Spindle nose to table center	mm	70-870
	Table size	mm	500×500
Table	Table indexing		1°×360
	Table load	kg	500
APC	Table change type		Direct rotary
	Table change time	s	9
	Drive type		Built-in
Spindle	Spindle speed	rpm	12000
	Spindle power (S1/S3)	kW	18.5/37
	Spindle torque (S1/S3)	Nm	95.5/250
	Spindle taper		BT40
Feed	X/Y/Z rapid traverse	m/min	60
	X/Y/Z feed rate	m/min	60
	Table 90° indexing time	s	1.4
	Capacity	T	40
	Max. tool dia. (Adjacent/vacant)	mm	φ80/φ160
Tool magazine	Max. tool length	mm	500
	Max. tool weight	kg	12
	Machine size	mm	6450×3150×3250
Other	Machine weight	t	13



Standard Configuration

1. Controller: FANUC 0i
2. 12000rpm built-in spindle
3. 40T ATC
4. 1° indexing table
5. Automatic pallet change
6. Full enclosure
7. External chain type chip conveyor
8. Cutting cooling
9. Spindle oil chiller
10. Screw oil cooling
11. Spindle air blowing
12. Automatic power-off
13. 3-color signal lamp and working light
14. CE Mark (EU region)

Option Configuration

1. Controller: SIEMENS 828D
2. T slot pallet
3. NC table 0.001° indexing
4. CTS (2/3/7Mpa)
5. 40/60/77/117T double servo magazine
6. Linear scale
7. Top spray
8. Workpiece probe
9. Tool setter
10. Air gun
11. AC for electrical cabinet