HIGH ACCURACY HIGH SPEED HIGH RIGIDITY

PRECISION TSUGAMI

Space saving 1.0m² floor space Integrated all production system

CNC High Precision Automatic Lathe



Space saving machine for productive ultraprecision processing

Space saving

1.0m² floor space includes NC loader, 2 pallets and coolant tank with oil temperature controller. Investment can be reduced through more machine and

additional equipments installed in any given area. Reducing machining operating cost (room air conditioner cost)

High accuracy and high productivity

Dimensional accuracy 0.2μ m, 6σ = 0.5μ m (Material: Brass) Less thermal displacement 0.3 μ m without running operation, 0.1 μ m with short-term suspension Maximum spindle speed 15.000 min⁻¹ with 3-inch chuck

Automated system

NC loader and 2 pallets integrated into machine Machine and NC loader all controlled through machine side NC operation panel. Improved operator friendliness as 2 pallets are accessed from front side of machine



Standard Machine Specifications

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Item			C150	
	Swing over	r bed	220 mm	
Machining range	Spindle center height from X slide surface		45 mm	
	Distance between spindle and X slide face		100 to 250 mm	
	Max.main spindle speed		15,000 min ⁻¹	
Spindle	Spindle face		Dia.114 mm Flat	
opinalo	Spindle through ID		Air-tube integrated type	
	Chuck size		3" (4")	
	Туре		Gang type tool post (On T grooved plate)	
	X-axis stroke		150 mm	
Tool	Z-axis stroke		150 mm	
post	Rapid traverse	X axis	15 m/min	
		Z axis	15 m/min	
	Tool size		□13 mm	
	Spindle		1.5/2.2 kW	
Motors	X axis		0.75 kW	
	Z axis		0.75 kW	
	Coolant pump		250 W	
	Spindle cooling pump		75 W	
	Lubricating oil tank		1.8 L	
Tank	Spindle cooling tank		8 L	
	Coolant tank		210 L	
	Net weight		1,400 kg (loader, 2P included)	
_	Electric power		15 KVA	
Power source	Compressed air requirement		More than 0.4 MPa	
Source	Air discharge rate		40 NL/min	
	Width x Depth x Height		1,000 mm x 1,100 mm x 1,875 mm	

Standard NC Specifications

Specification				
FANUC 32i-B				
8.4" color LCD				
2				
0.01 <i>µ</i> m				
mm/rev, mm/min				
Absolute/incremental				
Liner/circular				
M2 digits				
S5 digits				
T4 digits				
16				
80 m (32 Kbyte)				
0 to 150 % (10 % step)				
1				
Standard				
04 digits				
N5 digits				
Standard				
Standard				

Standard Accessories

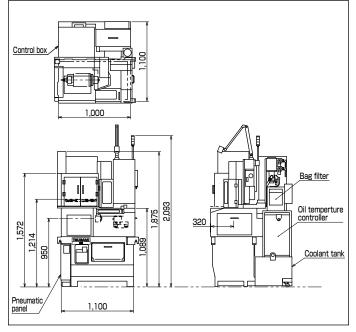
Option

NC loader
2 pallets
Automatic shutter
Coolant tank system
X-axis scale
Z-axis scale
Oil temperature controller
Automatic fire extinguisher
Illumination light
High speed chuck
Signal indicator

NC Option

Tool nose radius compensation	Tool geometry and wear offset	Tool offset 32 pairs
Custom macro B	Multiple repetitive cycle	Bach ground editing
Chamfering corner R	Inch/metric conversion	Part program storage length
Run time & parts number display	Spindle speed fluctuation	160 m (64 Kbyte) 320 m (128 Kbyte)

Appearance

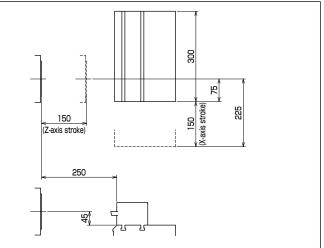


The specifications of this catalogue are subject to change without prior notice.

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Tooling Zone



Export permission by the Japanese Government may be required for exporting our products in accordance with the Foreign Exchange and Foreign Trade Law. Please contact our sales office before exporting our products.

	Specifications	Machine model name
When submitting the exporting documents,	Without scale	C150
use the following machine model name	With X-axis scale	C150 (X)
according to the machine specifications.	With X-axis scale and Z-axis scale	C150 (X·Z)

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