

Cincom

L20

Sliding Headstock Type CNC Automatic Lathe



Machine Specification

Item	L20			
	Type VIII (L20E-2M8) (20mm Dia., (25mm Dia. ^{OP}))	Type IX (L20E-2M9)	Type X (L20E-2M10)	Type XII (L20E-2M12)
Max. machining diameter (D)	20mm Dia. (25mm Dia. ^{OP})			
Max. machining length (L)	GB: 200mm/1chucking (188mm: 25mm Dia. spec.) GBL: 2.5D			
Max. front drilling diameter	10mm Dia.			
Max. front tapping diameter	M8 (Cut tap)			
Spindle through-hole diameter	26mm Dia.			
Main spindle speed	Max.10,000min ⁻¹			
Max. chuck diameter of the back spindle	20mm Dia.(25mm Dia. ^{OP})			
Max. protrusion length of the back spindle workpiece	30mm			
Max. protrusion length	80mm			
Max. drilling diameter for the back spindle	8mm Dia.			
Max. tapping diameter for the back spindle	M6			
Back spindle speed	Max.8,000min ⁻¹			
Gang rotary tool				
Max. drilling diameter	8mm Dia.			
Max. tapping diameter	M6(Cut tap)			
Spindle speed	Max.6,000min ⁻¹ (Rating 4,500min ⁻¹)			
Back tool post rotary tool *type X,XII				
Max. drilling diameter	OP		5mm Dia.	
Max. tapping diameter	OP		M4 (Cut tap)	
Spindle speed	OP		Max.7,500min ⁻¹ (Rating 6,000min ⁻¹)	
Front rotary tool*				
Max. drilling diameter	---		5mm Dia.	
Max. tapping diameter	---		M4 (Cut tap)	
Spindle speed	---		Max.7,500min ⁻¹ (Rating 6,000min ⁻¹)	
Number of tools to be mounted max	37	33	44	40
Gang turning tool	5			
Gang rotary tool	25	21	25	21
Front drilling tool	3			
Back drilling tool	4			
Tool size				
Gang turning tool	12mm Sq.,13mm Sq., 16mm Sq.)			
Sleeve	25mm Dia.(GDS107, 210), 19.05mm Dia.			
Chuck and bushing				
Main spindle collet chuck	FC034-M, FC071-M			
Back spindle collet chuck	FC034-M-K, FC071-M-K			
Rotary tool collet chuck	ER11, ER16			
Chuck for drill sleeves	ER11, ER16			
Guide bushing	WFG206-M			
Rapid feed rate				
All axes (except Y2)	32m/min			
Y2 axis	--			
Motors				
Spindle drive	2.2/ 3.7kW			
Gang tool post rotary tool drive	1.0kW (2.2kW Opt.)			
Back spindle drive	0.75/1.5kW			
Back tool post rotary tool drive	--			
Front rotary tool drive*	0.75kW			
Coolant oil	0.4kW			
Lubricating oil	0.003kW			
Center height	1,050mm			
Rated power consumption	7.3kVA			
Full-load current	32A (37A Opt.)			
Main breaker capacity	50A			
Air pressure	0.5MPa			
Weight	2,350kg			

*Front rotary tool drive unit is optional

Standard accessories	
Main spindle chucking unit	Door lock
Back spindle chucking unit	Cut-off tool breakage detector
Gang rotary tool driving unit	Lighting
Coolant unit (with level detector)	Main spindle coolant unit
Lubricating oil supply unit (with level detector)	Back tool post rotary unit *type X,XII
Machine relocation detector	
Special accessories	
Rotary guide bushing unit	Coolant flow rate detector
Knock-out jig for through-hole workpiece	Signal lamp
Workpiece conveyor	3-color signal tower
Chip conveyor	Front rotary tool unit *type X,XII
Medium-pressure coolant unit	Workpiece separator
LFV	
Standard NC functions	
CINCOM SYSTEM M70LPC-VU (Mitsubishi)	Interference check function
8.4 inch color LCD	Spindle speed change detector
USB slot,SD card slot	Constant surface speed control function
Program storage capacity:40m(approx,16KB)	Automatic power-off function
Tool offset pairs : 40	Main spindle indexing at 1° intervals
Product counter indication (up to 8 digits)	On-machine program check function
Operating time display function	Chamfering, corner R
Machine operation information display	Nose radius compensation
Multiple repetitive cycle for turning	Eco indication
	B axis control function *type IX,XII
Special NC functions	
Variable lead thread cutting	Optional block skip (9 sets)
Arc threading function	Back machining program skip function
Geometric function	Tool life management I
Spindle synchronized function	Tool life management II
Spindle C-axis function	Program storage capacity 600m(approx. 240KB)
Milling interpolation	External memory program driving
Back spindle 1°indexing function	Submicron commands
Back spindle C-axis function	User macros
Back spindle chasing function	Helical interpolation function
Canned cycle drilling	Hob function
Rigid tapping function	Polygon function
High speed Rigid tapping function	Inch command
Synchronized tapping phase adjustment function	Sub inch command
Differential speed rotary tool function	Network I/O function
Tool offset pairs : 80	

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