

TAKAMAZ

CNC Precision Lathe

XL-200

NEW



10 Inch Class Machine that can handle 720mm long shaft workpiece with heavy cutting + variety of complex machining capability

Longer workpiece machining capability with Z-axis stroke extension

- The standard Z-axis stroke specification is increased by about 40% from 550mm to 800mm. It can handle long shaft workpiece of up to 720mm, and provides a wide range of machining capability.

Reduction of idle time by mounting a tailstock driven by a servo unit.

- The hydraulic type driven tailstock on the standard machine is replaced with a servo driven type that is controlled with the change in the cutting program resulting to having a capability to handle different types of workpieces with significant reduction in cycle time.

Improved Machine Operation

- In order to achieve improved workability when replacing chuck or workpiece as compared with the standard model, the length from the front door to the center of the spindle is reduced from 510mm to 450mm.

Machine Specifications

Item		Unit	Main-Spindle	(Sub-Spindle)	
Capacity	Max. turning diameter	mm	φ340	φ300	
	Max. turning length	mm	720	560	
	Max. bar diameter	mm	φ65	φ35	
Spindle	Chuck size	inch	8(10)	6	
	Spindle nose	JIS	A2-6(8)	A2-5	
	Spindle bearing I.D.	mm	φ100(120)	φ75	
	Through-hole on spindle	mm	φ61(φ80)	φ46	
	Spindle speed	min ⁻¹	Max.3,500 (Max.5,000)	Max.4,500	
	Spindle indexing		C Axis (Mechanical)	Cs Axis	
Tool post	Type		12-station turret		
	Tool shank	mm	□25		
	Boring holder I.D.	mm	φ40		
	Max. stroke		X:225 Z:800		
Motors	Rapid traverse rate	m/min	X:18 Z:24		
	Spindle motor	kW	AC11/7.5 (18.5/15)	AC7.5/5.5	
Power tools	Feed motor	kW	X:AC1.8 Z:AC2.7	A:AC1.8	
	Coolant motor	kW	AC0.25		
	Hydraulic motor	kW	AC1.5		
	Tool storage capacity	pcs.	12		
C Axis	Spindle speed	min ⁻¹	Max.4,000		
	Power tools motor	kW	AC5.5/3.7/2.2		
	Capacity	Drill	mm	φ20	
		Endmill	mm	φ20	
		Tap	mm	M16	
Rapid traverse rate	deg/min	18,000	21,600		
Tailstock	Taper size		MT-5		
	Quill O.D.	mm	φ90		
	Quill stroke	mm	120		
	Tailstock stroke	mm	500(Servo Driven Type)		
Size	Max. thrust	kN	7,000		
	Spindle center height	mm	1,050		
	L×W×H	mm	2,450(2,950*)×1,870×1,790		
	Machine weight	kg	4,400(4,900)		
Total electric capacity	KVA	24(51)			

*With Sub Spindle Mounted
(): Option

Standard Accessories

- Boring holder 2sets
- Clamp block 12sets
- Coolant block(For reverse cutting tools)..... 12sets
- Hydraulic power chuck 1set
- Work light 1set
- Hydraulic chucking cylinder 1set
- Thread cutting unit 1set
- Coolant unit 1set
- Service tool kit 1set
- Instruction manual 1set

Optional Accessories

- Tool holders
- Tail stock
- Power tool drive unit
- Power tools(C-axis)
- Collet chucks
- Chip conveyor(Rear,Side)
(Floor type/Spiral type)
- Front air blower
- Rear coolant unit
- Special coolant pump
- Signal light
- Automatic fire extinguisher
- Automatic power shut-off device
- Special color
- Others*

* For more information on attachments,consult our sales representative.

Item	TAKAMAZ&FANUC Oi-TD
Controlled axes	2~5axes (X,Z,C,A,E)
Simultaneously controllable axes	Simultaneous 2~4 axes
Least input increment	0.001mm (X in diameter)
Least command increment	X: 0.0005mm Z: 0.001mm
Auxiliary function	M-code 3 digit
Spindle function	S-code 4 digit
Tool function	T-code 4 digit
Tape code	EIA(RS232C)/ISO(840)automatic recognition
Cutting feedrate	1~5,000mm/min
Command system	Incremental/Absolute
Linear interpolation	G01
Circular interpolation	G02, G03
Cutting feedrate override	0~150%
Rapid traverse override	FO,100%
Program number	4 digits
Backlash compensation	0~9999μm
Program memory capacity	512kbyte (1,280m)
Tool offsets	64 sets
Registered programs	400 pcs.
Tool geometry/Wear offset	Standard
Canned cycle	G90, G92, G94
Radius designation on arc	Standard
Tool offset measurement input	Standard
Background editing	Standard
Direct drawing dimension programming	Standard
Custom macro	Standard
Additional custom macro common variables	#100~#199, #500~#999
Pattern data input	Standard
Nose R compensation	G40,G41,G42
Inch/Metric conversion	G20/G21
Programmable data input	G10
Run hour/Parts count display	Standard
Expansion part program editing	Standard
Multiple repetitive cycle	G70~G76
Multiple repetitive cycle II	Pocket-shaped
Spindle synchronous control	Standard for Sub Spindle Specification
Sub-spindle torque skip	Standard for Sub Spindle Specification
Canned drilling cycle	Standard
Constant surface speed control	G96,G97
Continuous thread cutting	G32
Variable lead thread cutting	G34
Thread cutting retract	Standard
Clock function	Standard
Help function	Standard
Alarm history display	50 pcs.
Self-diagnosis function	Standard
Sub-program call	Up to 10 loops
Decimal point input	Standard
2nd reference point return	G30
Work coordinate system setting	G50,G54~G59
Stored stroke check 1	Standard
Stored stroke check 2,3	Standard
Input/Output interface	USB Flash Memory, Memory card, Ethernet
Alarm message	Standard (Smart Alarm Diagnostic)
Graphic display	Standard
Conversational programming with graphic function	Standard
Abnormal load detection	Standard
Manual handle trace	Standard
Automatic data backup	Max. 3
Automatic screen deletion function	Standard
Rigid tapping	For Power Tools only
Polar coordinate interpolation	Standard for Live tool Specification
Cylindrical interpolation	Standard for Live tool Specification
TAKAMAZ option functions	Work/Tool counter, Tool load monitor, Others
TAKAMAZ maintenance functions	Standard
FANUC set of manuals	CD-ROM

Optional Controller Specifications

Input/Output interface	RS232C
Tool life management	
Multiple M codes in one block	Max. 3
Dynamic graphic function*	
Manual guide i*	
Helical interpolation	
Spindle orientation	
FANUC instruction manual	Bound

*These cannot be used together.



TAKAMATSU MACHINERY CO.,LTD.

HEAD OFFICE & PLANT
1-8 ASAHIGAOKA HAKUSAN-CITY ISHIKAWA JAPAN, 924-8558 TEL +81-(0)76-274-1403 FAX +81-(0)76-274-8530

TAKAMAZ TRADING (HANGZHOU) CO.,LTD.

HANGZHOU HEAD OFFICE
120 SHIXIN NORTH ROAD, XIAOSHAN ECONOMY AND TECHNOLOGY DEVELOPMENT AREA,
HANGZHOU, ZHEJIANG PROVINCE, CHINA TEL +86-(0)571-8287-9709 FAX +86-(0)571-8286-5311

GUANGZHOU OFFICE

ROOM 1316, NO.2, KEHUI FOURTH STREET, NO.99 OF SCIENCE ROAD, LUOGANG DISTRICT, GUANGZHOU
TEL +86-(0)20-8210-9921 FAX +86-(0)20-8210-9921

TAKAMATSU MACHINERY USA INC.

CHICAGO HEAD OFFICE
1320 LANDMEIER ROAD ELK GROVE VILLAGE, IL 60007 USA TEL +1-(0)847-981-8577 FAX +1-(0)847-981-8599

CINCINNATI OFFICE

5233 MUHLHAUSER ROAD, WEST CHESTER TOWNSHIP, OH 45011 USA TEL +1-(0)513-870-9777 FAX +1-(0)513-870-0325

TAKAMATSU MACHINERY (THAILAND) CO.,LTD.

THAILAND HEAD OFFICE
888/17 MOO 19 BANGPLEE-DAMRU ROAD, BANGPLEEYAI, BANGPLEE, SAMUTPRAKARN 10540
TEL +86-(0)2-382-5372 FAX +86-(0)2-382-5373

TAKAMAZ MACHINERY EUROPE GmbH

EUROPEAN HEAD OFFICE
INDUSTRIEGEBIET, DIEPENBROICH 27 D-51491 OVERATH, GERMANY
TEL +49-(0)2206-919-3960 FAX +49-(0)2206-865-123
TEL +49-(0)2206-866-150

<http://www.takamaz.co.jp/>

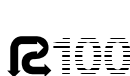
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