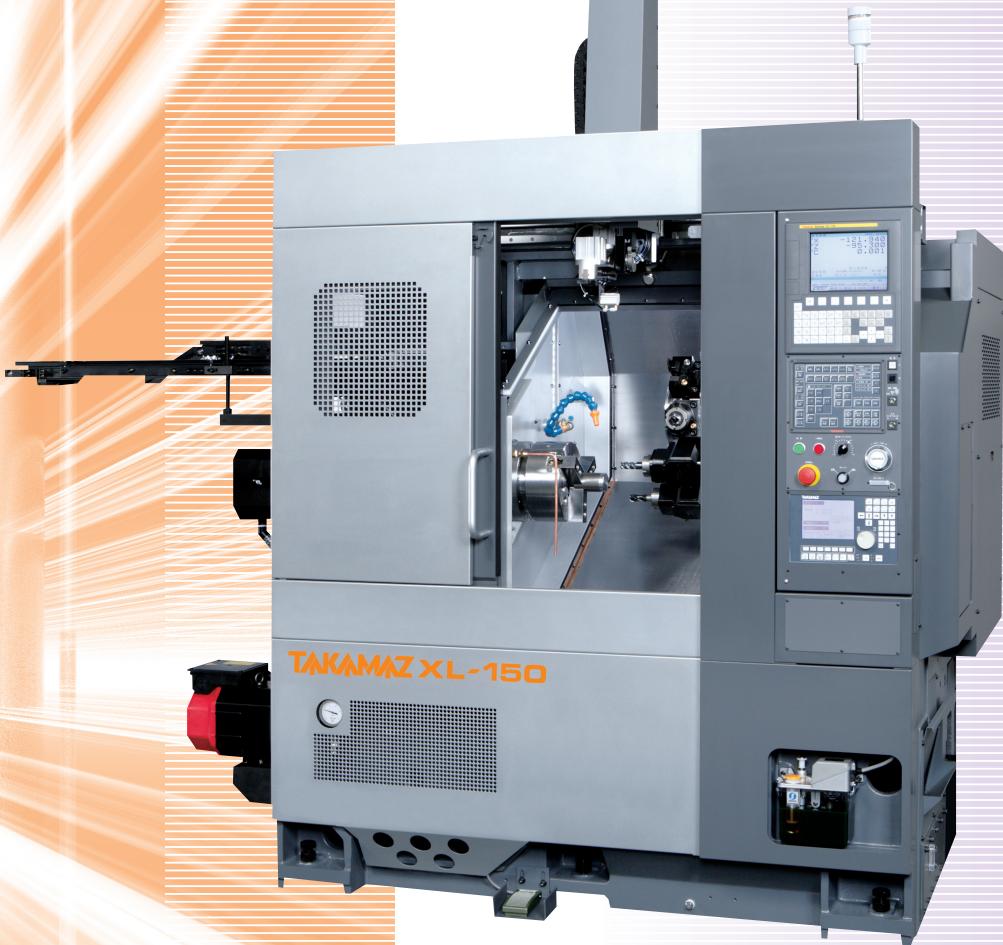


CNC1Spindle1Turret Precision Lathe

XL-150



Special Mid Size Machine with More Cutting Capacity

Larger Spindle Motor Output and Spindle Diameter

- The standard spindle motor output is 11/7.5kW (X-150PLUS: 7.5/5.5kW) . As an option, 15/11kW is available and with this increase in capacity, 60% increase in cross-sectional area processing capacity is achieved. In addition, the spindle through diameter of ϕ 65 is available as an option. With this option, larger diameter bar material can be cut.

8 inch class Maximum Livetool Capacity (As compared with other models)

- With the motor output of 5.5/3.7/2.2kW, this machine is equipped with ϕ 20 maximum tool size milling unit that is 2.5 times larger than previous models. This is better by 1.7 times the cutting removal capacity resulting in wide range of cutting application and significant reduction in machining.

Longer Z Axis Stroke

- The floor space is the same as that of the [X-150 PLUS], but the Z-axis stroke is 400mm (X-150PLUS: 330mm) . This is approximately an increase of 20% that can correspond to long work shaft of up to 370mm.

Angle Slide Tailstock (Option)

- Adopted an angle slide tailstock with high rigidity similar to the X and Z axes slides. Also, conducted a review of the bed shape and 30% increase in rigidity as compared to the previous model.

Machine Specifications

Item	Unit	XL-150 8-station turret type	XL-150 12-station turret type	XL-150 Power tools type
Capacity	Max. turning diameter	mm	φ320	φ280
	Max. turning length	mm	370	300
	Max. bar diameter	mm	Solid, φ42, φ51(φ65)	Solid, φ42, φ51
	Chuck size	inch	8(10)	8
Spindle	Spindle nose	JIS	A2-6(A2-8)	A2-6
	Spindle bearing I.D.	mm	φ100(φ120)	φ100
	Through-hole on spindle	mm	φ61(φ80)	φ61
	Spindle speed	min ⁻¹	Max.3,500 Max.5,000(Max.4,000)	Max.3,500 Max.5,000
Tool post	Type		8-station turret	12-station turret
	Tool shank	mm	□25	
	Boring holder I.D.	mm	φ40	φ32
	Max. stroke	mm	X:190, Z:400	
	Rapid traverse rate	m/min	X:18, Z:24	
Motors	Spindle motor	kW	AC11/7.5(15/11)	
	Feed motor (X axis, Z axis)	kW	X1.2, Z1.8	
	Coolant motor	kW	AC0.25	
	Hydraulic motor	kW	AC0.75, 1.5	
Power tools	Tool storage capacity	pcs.	—	12
	Spindle speed	min ⁻¹	—	Max.4,000
	Power tools motor	kW	—	AC5.5/3.7/2.2
	Capacity	Drill	mm	—
		Endmill	mm	—
		Tap	mm	—
Size	Spindle indexing	deg/min ⁻¹	—	18,000
	L×W×H	mm	1,600×1,535×1,700	1,690×1,535×1,700
	Machine weight	kg	3,200	3,400
	Total electric capacity	KVA	26(33)	29(34)

(): Option

Standard Accessories

- Service tool kit 1set
- TAKAMAZ instruction manual 1set
- Splashguard 1set
- 8inch power chuck 1set
- Hydraulic chucking cylinder(Solid) 1set
- Boring holder 2pcs.
- Coolantunit (120lit.) 1set
- Hydraulicunit 1set
- Clamp block 8pcs.
- Coolant block (For reverse cutting tools) ... 8pcs.
- Thread cutting unit 1set

Optional Accessories

- | | |
|--|--|
| <input type="checkbox"/> Tool holders | <input type="checkbox"/> Automatic door system |
| <input type="checkbox"/> Work light | <input type="checkbox"/> Spindle indexing device |
| <input type="checkbox"/> Stroke adjusting cylinder | <input type="checkbox"/> TAKAMAZ loader system |
| <input type="checkbox"/> Chuck clamp detector | <input type="checkbox"/> Shutter |
| <input type="checkbox"/> Unloader | <input type="checkbox"/> Tailstock |
| <input type="checkbox"/> Chip conveyor (Rear,Side)
(Spiral type/Floor type) | <input type="checkbox"/> Power tool drive unit
(Power tools/C-axis) |
| <input type="checkbox"/> Front air blower | <input type="checkbox"/> Others* |
| <input type="checkbox"/> Signal light | |

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

Optional Machine Specifications

Item	Unit	
Tailstock	Front taper	MT-4
	Quill O.D.	φ75
	Quill stroke	100
	Tailstock stroke	240
	Max. thrust	kN 4 (2MPa)

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Controller Specifications

Item	XL-150	XL-150 Power tools type
	TAKAMAZ&FANUC Oi-TD	
Controlled axes	2axes (X,Z)	3axes (X,Z,C)
Simultaneously controllable axes	Simultaneously 2 axes	Simultaneous 3 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/mi n	
Command system	Incremental/Absolute	
Linear interpolation	G01	
Circular interpolation	G02, G03	
Cutting feedrate override	0~150%	
Rapid traverse override	F0, 100%	
Program number	4 digits	
Backlash compensation	0~9999 μm	
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 program editing	Standard	
Multiple repetitive cycle	G70~G76	
Multiple repetitive cycle II	Pocket-shaped	
Canned drilling cycle	Standard	
Constant surface speed control	Standard	
Continuous thread cutting	G96, G97	
Variable lead thread cutting	G32	
Thread cutting retract	G34	
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, RS232C, 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	
Cylindrical interpolation	— Standard	
FANUC set of manuals	CD-ROM	
TAKAMAZ option functions	Work/Tool counter, Tool load monitor, Others	
TAKAMAZ maintenance functions	Standard	

Optional Controller Specifications

Tool life management	
Multiple M codes in one block	Max. 3
Spindle orientation	
Dynamic graphic function*	
Manual guide Oi*	
FANUC instruction manual	Bound
Helical interpolation	

*These cannot be used together.

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