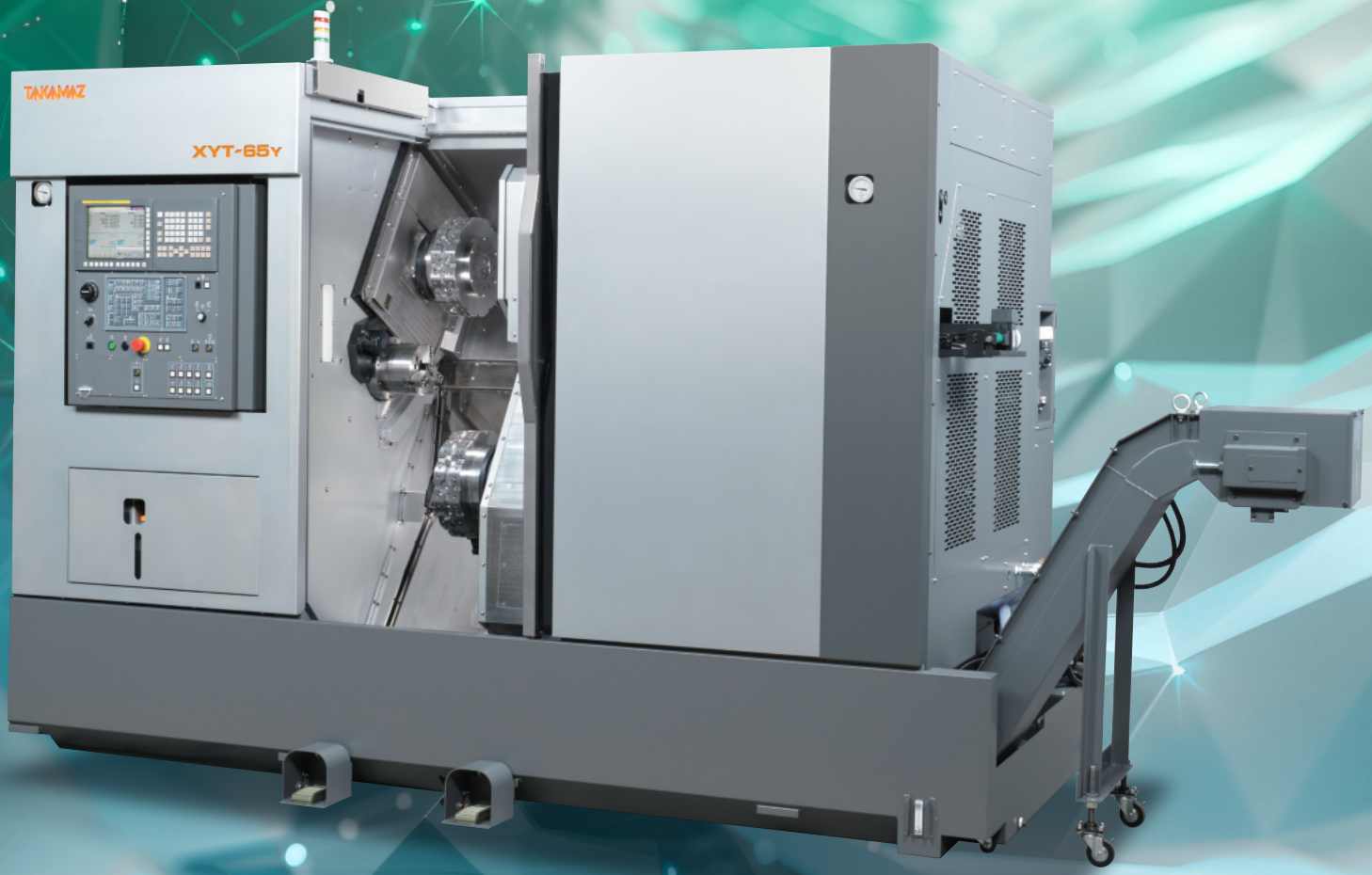
CNC Precision Multi-Tasking Lathe

XYT-65Y

TAKAMAZ

Compound machining for optimal use

NEW



"Ideal level of compound machining ability for the workshop" with upper and lower turret Y-axis

Rather than relying on excessive multi-axis configurations, the necessary level of Y-axis functionality has been allocated in a well-balanced manner to the upper and lower turrets.
By focusing on the machining capabilities that are really needed on the shop floor, we have achieved streamlined, practical compound machining ability.

Direct link between process integration and reduction in numbers of units

Integrating multiple machining processes on a single machine is directly linked to reducing the number of machines required. It simplifies the line configuration, and achieves space savings and labor savings simultaneously. This allows the configuration of highly cost-effective production systems.

Range of applications expanded by a maximum turning diameter of 65 mm

A maximum turning diameter of 65 mm allows a wide range of workpieces to be handled.
While thoroughly competent for general-purpose applications, the machine can also realistically replace existing equipment and handle process integration, so it can help to optimize production systems.

Optimal balance of cost and function

The design strikes a balance that delivers reliable results in day-to-day production while avoiding the excessive features and costs typically associated with high-end machines.
This is an extremely practical machine that offers a solid return on investment with its post-installation performance.

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XYT-65Y

Machine Specifications

Item		Unit	XYT-65Y	
			Main-spindle	Sub-spindle
Capacity	Max. turning length	mm	150 (440：When machining on one side)	
	Max. bar diameter	mm	ϕ65	ϕ51
	Chuck size	inch	8	
Spindle	Spindle nose	JIS	A_2-8	A_2-6
	Through-hole on spindle	mm	ϕ66	ϕ52
	Spindle speed	min^{-1}	Max. 4,000	
Tool post	Type		12-station turret 24st. BMT55	
	Tool shank	mm	□25	
	Boring holder I.D.	mm	ϕ40	
	Max. stroke	mm	X1:162.5, Z1:500, Y1:+40 −35, X2:170, Z2:500, Y2:±40 A:550	
	Rapid traverse rate	m/min	X:18, Z:30, Y:12, A:30	
Power Tools	Tool storage capacity	pcs.	12(One side)	
	Rotation speed	min^{-1}	Max.4,000	
	Capacity Drill	mm	ϕ20	
	Capacity Endmill	mm	ϕ20	
	Capacity Tap	mm	M16	
C-axis	Rapid traverse rate	deg/min	24,000	
Motors	Spindle motor	kW	AC18.5/15/11	AC9/7.5/5.5
	Feed motor	kW	X1:1.8, Z1:1.8, Y:1.4, A:1.2 X2:3.0, Z2:1.8, Y2:1.2	
	Coolant motor	kW	AC 0.4	
	Hydraulic motor	kW	AC 0.75	
	Power tools motor	kW	AC3.7/2.2	
Size	W×D×H	mm	3,000 × 2,193 × 2,158	
	Machine weight	kg	7,700	
Total electric capacity		KVA	45	

Standard Accessories

- □Boring holder ····· 2 sets
- □O.D. holder ····· 2 sets
- □Cut-off holder ····· 1 set
- □Hydraulic chucking cylinder(Main, Sub) ····· 1 set ea.
- □Chuck clamp detector ····· 1 set ea.
- □Y-axis function(Main, Sub) ····· 1 set
- □Spindle indexing device(C-axis／Main, Sub) ··· 1 set ea.
- □Power tools drive unit(Main, Sub) ··· 1 set ea.
- □Coolant unit(360lit.) ····· 1 set
- □Service tool kit ····· 1 set
- □TAKAMAZ Instruction manual··· 1 set

Optional Accessories

- □Tool holders
- □Stroke adjusting cylinder
- □Collet chucks
- □Hydraulic chucks
- □Bar feeder system
- □Work set detector
- □Cut-off check device
- □Chip Conveyor(Side) (Floor type／Spiral type)
- □Front air blower
- □Rear coolant unit
- □Signal light(1-tier／2-tier／3-tier)
- □Automatic fire extinguisher
- □Automatic power shut-off device
- □Special color
- □Others

※For information on other accessories, please contact our sales office.

Controller Specifications

Item	TAKAMAZ & FANUC 32i-B Plus
Controlled axes	9 axes (X1, Z1, C1, Y1, X2, Z2, C2, Y2, A)
Simultaneously controllable axes	Simultaneous 4 axes
Least input increment	0.001mm (X in diameter)
Least command increment	X: 0.0005mm Z, Y, A: 0.001mm C: 0.001deg.
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	1～7000 mm/min (X2, Y2-axis1～5000 mm/min)
Command system	Incremental／Absolute
Linear interpolation	G01
Circular interpolation	G02, G03
Cutting feedrate override	0～150%
Rapid traverse override	F0, 25%, 50%, 100%
Program file name	32 characters
Backlash compensation	0～9,999μm
Program memory capacity	4 Mbyte (10,240 m, Dual systems total)
Tool offsets	128 sets (Dual systems total)
Registered programs	1,000 pcs (Dual systems total)
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	Optional
Custom macro	Standard
Custom macro common variables	Optional
Nose R compensation	G40, G41, G42
Inch／Metric conversion	Optional
Programmable data input	G10
Run hour／Parts count display	Optional
Extended part program editing	Standard
Multiple repetitive cycle	G70～G76
Multiple repetitive cycle Ⅱ	Optional
Spindle synchronous control	Standard
Sub-spindle torque skip	Standard
Y-axis offset	Standard
Canned drilling cycle	Standard
Constant surface speed control	G96, G97
Continuous thread cutting	G32
Variable lead thread cutting	Optional
Thread cutting retract	Optional
Clock function	Standard
Help function	Standard
Alarm history display	50 pcs
Self-diagnosis function	Standard
Sub-program cal	up to 10 loops
Decimal point input	Standard
2nd reference point return	G30
Work coordinate system setting	G50, G54～G59
Rigid tapping	For Power Tool only
Polar coordinate interpolation	Standard
Cylindrical interpolation	Standard
Stored stroke check 1	Standard
Stored stroke check 2,3	Standard
Input／Output interface	Flash Memory, Memory card, Ethernet
Alarm message	Standard
Spindle orientation	Standard
Abnormal load detection	Standard
Balance cut	G68, 69
Manual handle trace	Standard
Automatic data backup	Max. 3
Automatic screen deletion function	Standard
TAKAMAZ option function	Work／Tool counter, Tool load monitor, Others
TAKAMAZ maintenance function	Standard
FANUC set of manuals	DVD-ROM

Optional Controller Specifications

Tool life management	
Multiple M codes in one block	Max. 3
RS232C	
Helical interpolation	
FANUC instruction manuals	Bound

※These cannot be used together

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