

TAKAMAZ

CNC2-Spindle 2-Turret Precision Lathe

XW-130M

NEW



XW-130 Launched with Long-awaited Live Tool Specifications

Zero Work-in-Progress Inventory with Front/Back Combined Cutting

- Live tool units suitable for use with an 8-inch chuck are available. Up to 20 live tools can be mounted, satisfying requirements for process integration through complex machining.

Original Vibration Damping Construction Adopted

- This machine incorporates original functional materials in the head / loader stand section and has been given a construction that dampens vibration. (Patent pending)

Reassuring Stability for Mass Production

- To restrict changes over time and achieve stable dimensional accuracy in spite of changes in the conditions of use, this machine has an original headstock base cooling mechanism that takes the coolant flow into consideration built into it. (Patent pending)

Reduced Setup Load

- The machine is designed to allow work to be done in a comfortable posture, with an easy-to-use swiveling operation panel, a portable handy teaching terminal for the loader, a restricted spindle center height of 1,000 mm and improved access to the spindle chuck and workpiece turnover unit.

Machine Specifications

Item		Unit	XW-130M
Capacity	Optimum turning size	mm	φ200
	Max. turning diameter	mm	φ320
	Max. turning length	mm	220
	Chuck size	inch	8
Spindle	Spindle nose	JIS	A2-6
	Spindle Bearing I.D.	mm	φ100
	Through-hole on spindle	mm	φ61
	Spindle speed	min ⁻¹	Max.4,000
Tool post	Type		10-station turret×2
	Tool shank	mm	□25
	Boring holder I.D.	mm	φ40
	Max. stroke	mm	X:170 Z:220
	Rapid traverse rate	m/min	X:24 Z:24
Motors	Spindle motor	kW	AC11/7.5×2
	Feed motor	kW	X:AC1.2×2 Z:AC1.8×2
	Coolant motor	kW	AC 0.25×2
	Hydraulic motor	kW	AC 0.75×2
Size	L×W×H	mm	1,990(2,350)×2,330×2,100(3,080)
	Machine weight	kg	6,500
Total electric capacity		KVA	47

():Option

Power Tools Specifications

Item		Unit	XW-130M	
Power tools	Tool storage capacity<one side>	pcs.	10	
	Max. rotating speed	min ⁻¹	Max.4,000	
	Capacity	Drill	mm	φ16
		Endmill	mm	φ16
		Tap	mm	M10
	Drive motor	kW	AC 3.7/2.2	
C-axis	Rapid traverse rate	deg./min	18,000	
	Split indexing angle	deg.	0.001	

Loader Specifications

Item	Unit	XW-130M(3 axes):1 unit
Loadable workpiece diameter	mm	φ150
Weight capacity<one side>	kg	3.0
Rapid traverse rate	m/min	X:35 Z:170 Y:125

Standard Accessories

- Boring holder..... 4 pcs.
- O.D. holder..... 4 pcs.
- TAKAMAZ loader system..... 1 unit
- Hydraulic power chuck..... 1 set
- Hydraulic chucking cylinder... 1 set
- Thread cutting unit
(Including constant surface speed control)... 1 set
- Coolant unit..... 1 set
- Work light..... 1 set
- Service tool kit..... 1 set
- TAKAMAZ instruction manual... 1 set

Optional Accessories

- Chucking system
 - Rear chip conveyor
(Spiral type/Floor type)
 - Front air blower
 - Rear coolant unit
 - Special coolant pump
 - Signal light(1-color/2-color/3-color)
 - Automatic fire extinguisher
 - Automatic power shut-off device
 - Special color
 - Others※
- ※ For more information on attachments, consult our sales representative.

Controller Specifications

Item	TAKAMAZ & FANUC Oi-TF
Controlled axes	3 axes(X,Z,C)×2
Simultaneously controllable axes	Simultaneous 3 axes×2
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 digit
Backlash compensation	0~9999μm
Part program storage length	1Mbyte(2,560m)(Dual systems total)
Tool offsets	128sets(Dual systems total)
Registered programs	800pcs. (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	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
Extended part program editing	Standard
Multiple repetitive cycle	G70~G76
Multiple repetitive cycle II	Pocket-shaped
Canned drilling cycle	Standard
Constant surface speed control	G96, G97
Thread cutting	G32
Continuous thread cutting	G32
Variable lead thread cutting	G34
Thread cutting retract	Standard
Clock function	Standard
Help function	Standard
Alarm history display	50pcs.
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
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	USBFlash Memory,Memory card,Ethernet
Alarm message	Standard
Graphic display	Standard
Conversational programming with graphic function	Standard
Abnormal load detection	Standard
Manual handle trace	Standard
Automatic data backup	Standard
Automatic screen deletion function	Standard
TAKAMAZ option functions	Work/Tool counter,Tool load monitor,Other
TAKAMAZ maintenance functions	Standard
FANUC set of manuals	CD-ROM

Optional Controller Specifications

Input/Output interface	RS232C
Spindle orientation	
Tool life management	
Multiple M codes in one block	

● Distributed by:

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