

CNC2-Spindle 2-Turret Precision Lathe

XW-200

Launch of the Top-of-the-range XW Series Model 10-inch chuck compatibility ideal for large flange-like work

Approximately 3 times the cutting capacity

- A spindle with a bearing bore of $\phi 120$ mm is equipped with a high-output motor (18.5/15 kW), which has increased the cutting capacity around threefold (in terms of cross sectional area) compared to existing TAKAMAZ models. The high torque assures powerful cutting capacity even in low-speed cutting such as with large-diameter flange-like work.

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)

Relief from Excessive Setup Work

- The machine is designed to allow work to be done in a comfortable posture, with an easy-to-use swiveling operation panel and a portable handy teaching terminal for the loader, combined with a low center of gravity construction with the spindle height restricted to 1,000 mm.

Machine Specifications

Item		Unit	XW-200
Capacity	Optimum turning size	mm	φ200
	Max. turning diameter	mm	φ320
	Max. turning length	mm	220
	Chuck size	inch	10
Spindle	Spindle nose	JIS	A2-8
	Spindle Bearing I.D.	mm	φ120
	Through-hole on spindle	mm	φ80
	Spindle speed	min ⁻¹	Max.2,800
Tool post	Type		8-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	AC18.5/15×2
	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	62

():Option

Loader Specifications

Item	Unit	XW-200(3 axes):1 unit
Loadable workpiece diameter	mm	φ200
Weight capacity<one side>	kg	8.0
Rapid traverse rate	m/min	X:30 Z:100 Y:80

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.

Item	TAKAMAZ & FANUC Oi-TF
Controlled axes	2 axes(X,Z)×2
Simultaneously controllable axes	Simultaneous 2 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
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	



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

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

TAKAMAZ MACHINERY EUROPE GmbH

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

TAKAMAZ MACHINERY (HANGZHOU) CO.,LTD.

■HANGZHOU HEAD OFFICE
NO.6800, JIANGDONG 3RD ROAD, JIANGDONG INDUSTRIAL PARK, XIAOSHAN, HANGZHOU, ZHEJIANG, CHINA
TEL +86-(0)571-8287-9709 FAX +86-(0)571-8215-3732

■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 (THAILAND) CO.,LTD.

888/17 MOO 19 BANGPLEE-DAMRU ROAD, BANGPLEEYAI, BANGPLEE, SAMUTPRAKARN 10540
TEL +66-(0)2-382-5372 FAX +66-(0)2-382-5373

PT.TAKAMAZ INDONESIA

JL. FESTIVAL BOULEVARD BLOK AA 11 NO.30,31 GRAND WISATA TAMBUN, BEKASI 17510
TEL +62-(0)21-8261-6431 FAX +62-(0)21-8261-6430

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

●Distributed by:



Precautions Related to Foreign Exchange and Foreign Trade Control Laws

This product (machine and ancillary equipment) may fall under the category of controlled goods by the foreign exchange and foreign trade control laws.

As such, the exportation must be authorized by the Japanese government as stipulated in the laws

This product is manufactured in accordance with the regulations and standards that prevail in the country or region of destination. The user must not export, sell, or relocate the product, to any country with different regulations or standards.



This brochure is made from 80% recycled paper.