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Infinite Possibility For Customization



In the never ending evolution in the World of Manufacturing Setting.

Creating products that take advantage of original technology are in big demand.

TAKAMAZ can offer solid customized oriented demands to meet the needs of all manufacturing sectors.

TAKAMAZ is asking you to build one-of-a-kind product from the infinite selection of designs that meets your specific need.



X series

Our total production count is a proof of reliability. This is a TAKAMAZ standard that has evolved for single lathes.

sides of the parts for total complete process machining. The functions of two units within

One spindle performs loading while the other is machining. Production rates doubled within the

With 2 spindle and 2 turret, there are lots of possible cutting methods

A futuristic slim design with an incredible space-saving design and with high quality

The CNC Linear Turret lathe that provides

Strategy Lathe

A simple machine hest in its class among manual operated machines focusing the cost performance.

OPTION system

LOADER system





XC-150

XC-100

"Starting Point of TAKAMAZ" Integration of the Power of Technology.

Our total production count is proof of reliability. This is a TAKAMAZ standard that has evolved for single lathes.







Xseries Mac	hine Spe	ecifications										
Item	Unit	XC-100	XC-150	XL- Standard	100 Power tool type	XL- Standard	150 Power tool type	XL- Standard	200 Power tool type	X-1: Main-spindle	20 Sub-spindle	X-S700
Chuck Size	inch	Collet,6	Collet,8	Collet,6(8)	Collet,6	Collet,8(10)	Collet,8	Collet,8(10)		Collet,6	Collet,5	Collet,8 (10)
Spindle bearing I.D.	mm	φ75	φ100	φ75 (φ85)	φ75	φ100 (φ120)	φ100	φ100 (φ120)		φ75 (φ85)	φ65	φ100 (φ120)
Spindle speed	min-1	Max.4, 500	Max.3, 500	Max.4, 500(6,000·3,500)	Max.4, 500(6,000)	Max.3,500(5,000·4,000)	Max.3,500(5,000)	Max.3,500 (5,000·4,000)		Max.4,500 (6,000)		Max.3, 500 (3,000)
Tool post type		8-station turret	8-station turret	8-station (12-station)turret	12-station turret	8-station (12-station)turret	12-station turret	12-station turret		12-station turret		10-station turret ×2
Max. stroke	mm	X:120 Z:230	X:175 Z:250	X:120 Z:280	X:120 Z:250	X:190	Z:400	X:225 Z:800		X:170 Z:300 A:350		X:115 Z:650
Rapid traverse	m/min	X:12 Z:18	X:18 Z:24	X:12	Z:18	X:18	Z:24	X:18 Z:24		X:18 Z:24 A:18		X:16 Z:30
Spindle motor	kW	AC7.5/5.5	AC11/7.5	AC7.5/5.	5(11/7.5)	AC11/7.	5(15/11)	AC11/7.5	(18.5/15)	AC5.5/3.7 (7.5/5.5)	AC3.7/2.2	AC15/11 (18.5/15)
Power Milling	mm	_	_	_	φ10	_	φ20	_	φ20	_	_	
tools ———— capacity ^{Tap}	mm	_	_	_	M4 ~ M6	_	M4~M16	_	M4~M16	_	-	_
Dimensions(L×W)	mm	1,150 × 1,360	1,250 × 1,480	1,360 × 1,360	1,480 × 1,360	1,600 × 1,535	1,690 × 1,535	2,900(3,10	0 ^{*1}) × 1,845	2,000 × 1,630		1,960 × 1,720
Controller		TAKAMAZ & FANILIC OLTD	TAKAMAZ & FANI IC OLTD	TAKAMAZ S.	FANILIC OLTD	TAKAMAZ &	FANILIC OLTD	TAKAMAZ & EANLIC OLTD		TAKAMAZ S FANIJO OJ TO TAKAMAZ S FANIJO OJ TO		TAKAMAZ & FANILIC OLT

Display of Main Attachments



















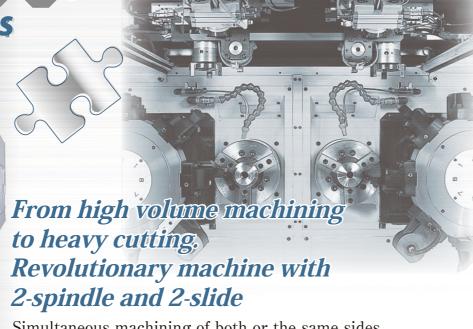












Simultaneous machining of both or the same sides of the parts for total complete process machining. The functions of two units within the space of a single unit.



XWseries N	lachine S	Specifications

Awseries Machine Specifications									
Item	Unit	XW-30	XW-30 PLUS	XW-80 Standard Power tool type		XW-130 Standard Power tool type		XW-200	
Chuck Size	inch	Collet,3 (Air) × 2	Collet,4 × 2	Collet,6 × 2		Collet,8 × 2		10×2	
Spindle bearing I.D.	mm	φ50	<i>φ</i> 60	φ75		φ100		φ120	
Spindle speed	min-1	Max.10,000*1	Max.8,000	Max.4,500 (6,000)		Max.4,000		Max.2,800	
Tool post type		Gang type × 2	Gang type × 2	8-station turret × 2		8-station turret × 2	10-station turret × 2	8-station turret × 2	
Max. stroke	mm	X:160 Z:200	X:160 Z:230	X:120 Z:160		X:150 Z:160	X:170 Z:220	X:170 Z:220	
Rapid traverse	m/min	X:12 Z:15	X:12 Z:20	X:18	X:18 Z:18		X:24 Z:24		
Spindle motor	kW	AC3.7/2.2 × 2	AC5.5/3.7 × 2	AC5.5/3.7 (7.5/5.5) × 2		AC11/7.5×2		AC18.5/15 × 2	
Power Milling	mm	_	_	_	φ10	_	φ16	_	
tools ———————————————————————————————————	mm	_	_	_	M4~M6	_	M10	_	
Dimensions(L×W)	mm	1,300 × 2,000	1,340 × 2,120	1,720(2,000) × 1,825	1,720(2,140) × 1,850	1,890 × 2,140	1,990(2,350*2) × 2,330	1,990(2,350 *2) × 2,330	
Controller		TAKAMAZ & MITSUBISHI M70	TAKAMAZ & MITSUBISHI M70V	TAKAMAZ & FANUC Oi-TD		TAKAMAZ & FANUC 0i-TD(0i-TF*3)		TAKAMAZ & FANUC Oi-TF	



XDseries Machine Specifications

ADSCITES III	Absertes Machine Specifications								
Item	Unit	XD-8(t) PLUS	XD-10 i					
Chuck Size	inch	Collet	Collet,6 (8) × 2						
Spindle bearing I.D.	mm	Φθ	65	φ75					
Spindle speed	min ⁻¹	Max.4,50	0 (8,000)	Max.4, 500 (6,000)					
Tool post type		Gang type	6-station turret	10-station turret					
Max. stroke	mm	X:200 Z:380 (±190)	X:140 Z:380 (±190)	X:120 Z:520					
Rapid traverse	m/min	X:18 Z:24		X:18 Z:24					
Spindle motor	kW	AC3.7/2.2 (5.5/3.7*1) ×2		AC3.7/2.2 (5.5/3.7*1) ×2		AC5.5/3.7 ×2			
Dimensions(L×W)	mm	1,580×1,550		2,310×1,695					
Controller		TAKAMAZ & FANUC 0i-TD		TAKAMAZ & FANUC 0i-TD					







TAKAMAZ Compact Machines Suitable for Compound Machining

With 2 spindle and 2 turret, there are lots of possible cutting methods. Complex parts can be processed at shorter amount of time.



XYseries Machine Specifications								
Item	Unit	XY-12	0 PLUS	XY-2000 PLUS				
1000	Oiiic	Main-spindle	Sub-spindle	Main-spindle	Sub-spindle			
Chuck Size	inch	Collet,6	Collet,5	Collet,8				
Spindle bearing I.D	mm	φ85(φ100)	φ65	φ100(φ120)	φ100			
Spindle speed	min ⁻¹	Max.5,000 (4,000)	Max.5,000	Max.4	4,000			
Tool post type		12-station t	turret、24ST	12-station turret				
Max. stroke	mm	X:150 Z:330 Y:±3	35 X2:150 Z2:440	X:175 Z:510 Y:±40	X:175 Z:510 A:570			
Rapid traverse	m/min	X:18 Z:24 Y:±1	2 X2:18 Z2:18	X:18 Z:24 Y:12	X:18 Z:24 A:30			
Spindle motor	kW	AC7.5/5.5 (AC11/7.5)	AC5.5/3.7	AC18.5/15	AC11/7.5			
Power Milling	mm	φ13		φ16				
capacity Tap	mm	M8		M16				
Dimensions(L×W)	mm	2,630	×1,950	3,050×2,125				
Controller		TAKAMAZ &	FANUC Oi-TD	TAKAMAZ & FANUC 31i-A				



A futuristic slim design with an incredible space-saving design and with high quality and low price.



1-spindle 1-slide





series

The CNC Linear Turret lathe that provides thorough solutions for all requirements.









A simple machine best in its class among manual operated machines, focusing the cost performance.

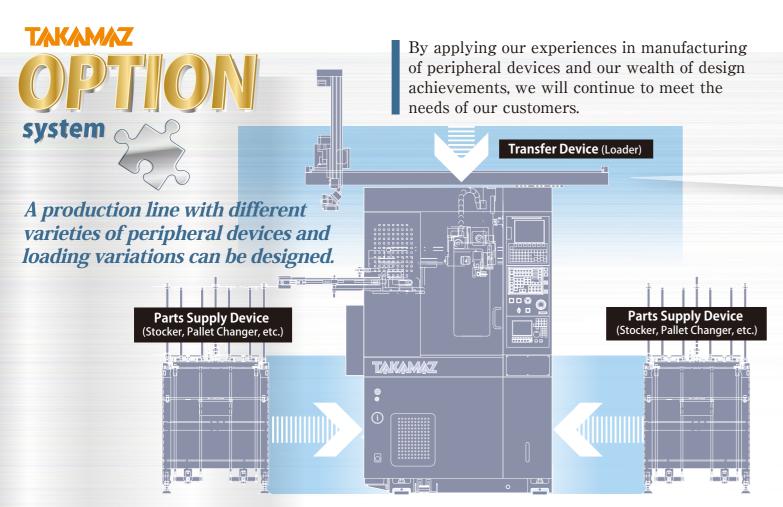






USL/WAVE/TURN/GSL Machine Specifications										
Item	Unit	USL-480	J-WAVE	TOP-TURN II Type A Type B		GSL-10	GSL-15			
Chuck Size	inch	Collet,3	Collet,4	Collet,6	Collet,8	Collet,6	Collet,8			
Spindle bearing I.D.	mm	φ50	φ65	φ75	φ85	φ75	φ100			
Spindle speed	min-1	Max.10,000	Max. 4,500	Max.6,000	Max.4,500	Max.4,500	Max.3,500			
Tool post type		Gang type	Gang type	Gang type		8-station turret	8-station turret			
Max. stroke	mm	X:160 Z:200	X:160 Z:160	X:300 Z:300		X:120 Z:230	X:175 Z:330			
Rapid traverse	m/min	X:12 Z:15	X:12 Z:12	X:12 Z:18		X:12 Z:18	X:12 Z:16			
Spindle motor	kW	AC5.5/3.7	AC3.7/2.2	AC7.5/5.5		AC5.5/3.7	AC7.5/5.5			
Dimensions(L×W)	mm	480×1,810	1,160×1,055	1,820×1,510		1,400×1,250	1,600×1,460			
Controller		TAKAMAZ & FANUC Oi-TD/ TAKAMAZ & MITSUBISHI M64	TAKAMAZ & MITSUBISHI M64	TAKAMAZ & FANUC 0i-TD		TAKAMAZ & FANUC Oi Mate-TD	TAKAMAZ & FANUC Oi Mate-TD			

():Option ():Option



Automation Peripheral Devices



Station stocker Flexible Multi-layer stocker to accommodate different part diameter sizes.



■ Stocker for Shaft ■ Parts feeder A cylindrical stocker footprint for storing the tray.



■ Tray changer Workpieces can be stored together with

Quality/Environment control unit



■ External measurement ■ Cleaning unit Without operator Dimensional errors are fed back intervention, cleaning i



high dimensional accuracy.

Oil mist collector Automatic fire facilitates a clean production

Cutting efficiency/Chip disposal













■ High-pressure coolant Constantly cooled coolant is discharged at high pressure so that the tool life is significantly



semi-automatically in





(Floor type) Chips are reliably

discharged outside

Semi-dry machining Ultratrace, highly-lubricating organic coolant is applied to the correct point on the semi-dry machining.

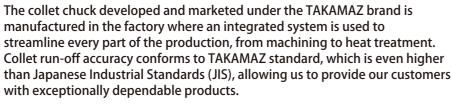
TAKAMAZ Collet Chuck

extinguisher

If fire breaks out in the machine

during automatic operations,

automatically discharged.



Standard included model

XC-100, XL-100, X-120, XW-80(M), XD-8(t)PLUS, XD-10i, XY-120PLUS, USL-480, J-WAVE---

system

Encouraged from sales of more than 65 years, with "Integral loader" design philosophy in mind, TAKAMAZ will lead the consistent support service follow up and support system built on trust, leading to increased productivity.

Space Saving Accessory Devices

Improving Durability

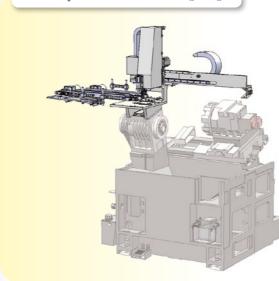
Pursuing of the Low Cost

Short **Loading Time**

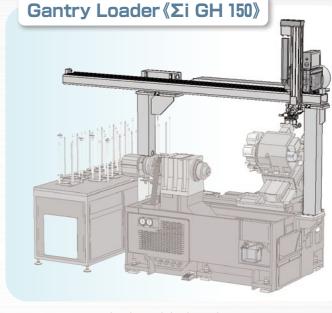
Flexible System **Line Configuration**

Improving Operability

Compact Loader ⟨∑i⟩



- Hi Speed Loader mounted on the machine to save space.
- A dedicated servo controller allows speedy setup.



- Gantry-type servo loader with high rigidity.
- The traverse distance can be extended, ensuring extremely flexible line configuration and systemization of peripheral equipment.

For Small and **Short Workpiece**



Parallel Hand XW-30,XW-30 PLUS

For Flange Workpiece



L Hand XW-80 (ΣGT:3-Axes Control)

For Front and **Back Cutting Workpiece**



Σi GTH Hand XW-130,XW-130m,XW-200 (Σi GTH: 3-Axes Control

For Shaft Workpiece



Pendulum Hand X-S700 (Σi GT700:3-Axes Control) (Max.10kg)

■Workpiece delivery from transport unit using a conveyor

To transport the workpieces with different shapes and cutting points, a variety of turn devices are available to provide a reliable workpiece delivery system.





