CNC2Spindle2Slide Precision Lathe







Full Lineup of 2-Spindle and 2-Slide Lathe Machines!



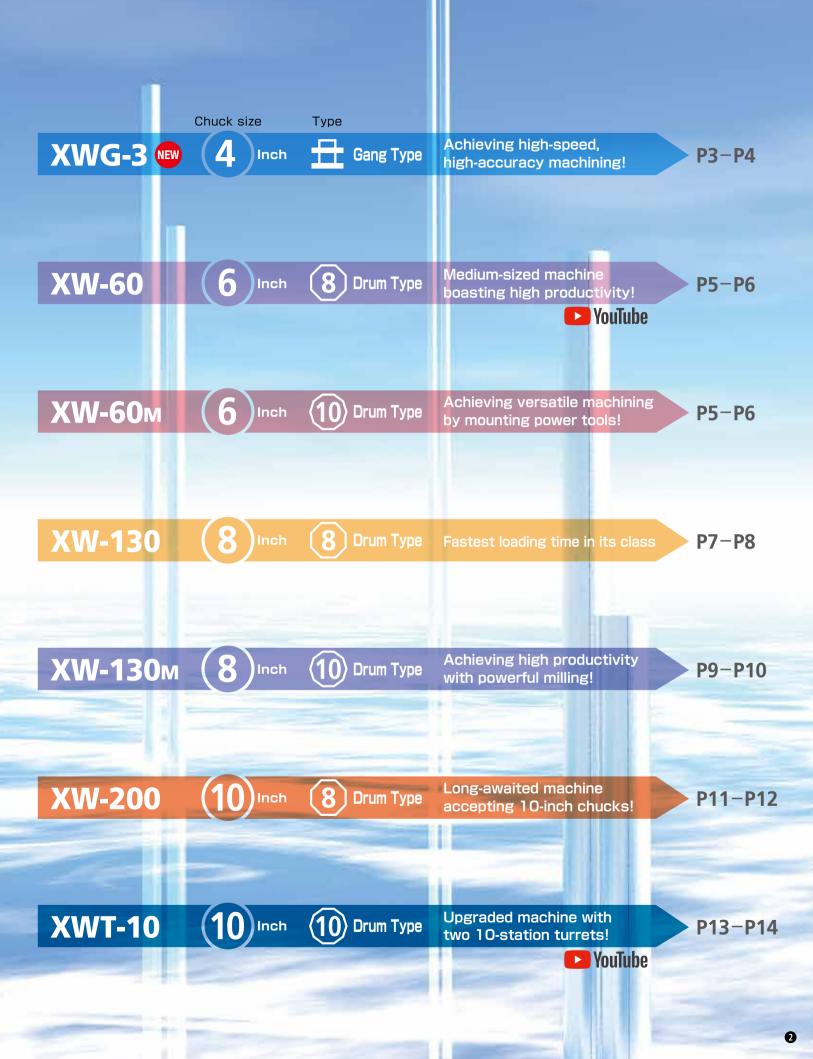
Simultaneous same process machining



Simultaneous machining of both sides of the part

Depending on the production requirements, separate left and right cutting is possible.

Independent production form





CNC 2-Spindle 2-Slide Precision Lathe





Chuck size 3/4 Inch







TAKAMAZ's proposal for contributing to carbon neutrality and building a new style of production

Built-in motor spindles for stable accuracy

5.5/3.7kW high-efficiency motors are used.

The machine can be equipped with up to 4-inch chucks, and optionally hydraulic cylinders, enabling stable mass production of workpieces that could not be cut previously due to insufficient gripping force. In addition, a review of the cooling circuit has made the oil controller that was previously required for short-cycle machining unnecessary*, resulting in cost and space savings.

*An oil controller may still be required for some specifications.

Targeting high accuracy with the in-machine cooling unit

Two-spindle machines are prone to unstable accuracy due to thermal imbalance when different machining is performed on the right and left, but this machine has a cooling tank for the two built-in motor spindles inside the bed to suppress thermal displacement and achieve stable change over time. (Patented technology)

Reduction of the number of parts and enhanced energy saving effect

The new MG loader installed in this machine uses far less parts compared to previous loader systems by integrating parts such as the control PCB, display

unit, and battery which is



a maintenance part, into the machine.

In addition, the new adoption of a power regeneration system along with higher-speed movements gives greater energy savings than previous models.

Innovation in the mode of production

Featuring a footprint of a mere 2.75 m², this machine needs only enough space for installing a single lathe.

We promise high-precision and high-efficiency production with two built-in motor spindles.

In contrast to machines requiring linking, these machines can be integrated with auxiliary units such as chip conveyors, coolant units or mist collectors.

Large-sized touch panel for improved operability

A large 19-inch touch screen with great visual comfort is adopted to improve operability during setup. The 2-screen multi-display can be switched over according to the purpose of operation. The home screen can be used to check for causes of machine downtime, such as low lubricating oil and counters reaching preset values, before they occur and thereby improve the machine availability rate.In addition, machine status data and traceability data can be saved and utilized such as for



quality control and investigating the cause of a machine error, and therefore contribute to enabling stable operation of the equipment.

Revamped design for easier setup

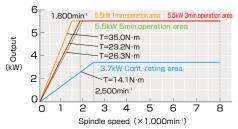
During setup changes, the machine front cover can be opened across the entire width of the machine, enabling safe and speedy setup.



Increased productivity with faster speeds

Slide rapid traverse rate are increased by 33%. The time spent before starting machining can be shortened. The machine is equipped with two new MG30H loaders (optional) that support high-speed operation, enabling shorter cycle times.

XWG-3 Spindle power characteristic curve ■ Max.8,000min¹ Standard type





CNC 2-Spindle 2-Turret Precision Lathe

V-60/60M

Chuck size (6) Inch





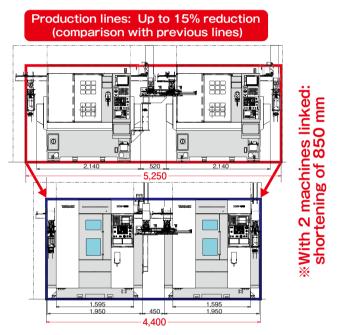
Scan the QR code with your camera phone or smartphone to see videos on YouTube.



6-inch-chuck medium-sized machine ticking all three boxes: space savings, compound machining, and high-speed automation

Space savings in production lines

Reducing the machine width has expanded the space available for installing peripheral equipment, and also helps to shorten production lines.



Evolved high-speed automation system

The optimum transfer system is configured by integrating a transfer loader with the machine body, contributing to cycle time reduction. (Y-axis rapid traverse rate: 60% higher than on previous models, Loading time: 10% shorter than on previous models, Shortest cycle time for front and back machining with processes 1 and 2: 8% reduction compared to previous models)

More extensive machining possibilities

A single-tool drive system is used for power tools, which increases the transmission efficiency and improves the machining capacity. Up to 20 power tools can be mounted and with a greater mountable tool size the range of selectable tools is broadened.



(60_M: Power tool specifications)

Shorter machining cycles

A 7.5/5.5 kW spindle motor is installed, and the increased power reduces spindle acceleration/deceleration times by 22% at the maximum speed (4,500 min⁻¹) compared to previous models. The reduction in non-cutting time shortens cycle times and improves productivity.

Unique thermal displacement suppression construction adopted

An original spindle base cooling system that forcibly circulates coolant (patented technology) is featured as standard, suppressing thermal displacement of the bed, minimizing changes over time, and achieving stable dimensional accuracy. In addition, a vibration damping structure that suppresses vibration by incorporating functional materials in each part of the machine (patented technology) has been adopted.

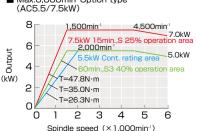
(Technology common to XW-130/XW-130M/XW-200/XWT-10)

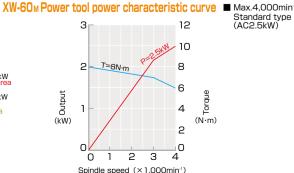
Vibration damping function installed For details, see page 10. (Technology common to XW-130/XW-130M/XW-200/XWT-10)

Improved operability for setup changes For details, see page 10. (Technology common to XW-130/XW-130M/XW-200/XWT-10)

XW-60/60_M Spindle power characteristic curve

■ Max.4,500min⁻¹Standard type ■ Max.6,000min⁻¹Option type ,125min⁻¹ 3,375min⁻¹ 7.0kW 5kW 15min.,S 25% (K) Output 5.0kW Output (kW) =47.8N·m T=46.6N·m T=35 0N·m T=26.3N·m 2 3 2 Spindle speed (X1,000min⁻¹)







CNC 2-Spindle 2-Turret Precision Lathe

Chuck size 8 Inch







A 2-Spindle 2-Turret Precision Lathe with "high-speed high-power" 8-inch chuck

Loading time with a mark of fastest class at 6 seconds

The XW-130 series is equipped with a newly-developed 3-axis loader dedicated to 2-spindle configurations. High rigidity has been achieved by increasing the rack size, and higher travel speeds have been sought, resulting in the fastest loading time in its class at 6 seconds. In addition, improvement of the intermediate turnover unit has enabled workpiece delivery to be completed in one motion instead of two as was previously necessary, allowing a cycle time of only 18 seconds for processes 1 and 2 in both-side machining (Patented technology). What is more, one of the parallel loader hands has been given an independent drive function, and a configuration that minimizes interference with the stocker, washer unit, etc., during delivery has been adopted.



High-speed shutter installed

The shutter that opens and closes when the loader enters has been made even faster. The combination of solenoid valve control with the ideal cylinder has cut the operating time of previous models in half, to under 0.5 seconds for both opening and closing operations.

Ease of maintenance

For cutting inside the machine, there is no exposure of the slide wipers. Therefore countermeasure for hot chip is perfect. In addition, because of the chip conveyor, stagnation of the chip does not occur directly under the spindle. Furthermore, coolant tank can be pulled out from the front of the machine, which is a structure for coolant tank easy cleaning. With complete opening of rear cover, and the piping concentrated in the machine side, it is the structure that ensures easy maintenance on the rear area of the machine.

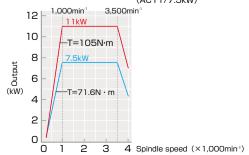
Unique thermal displacement suppression construction adopted For details, see page 6.

(Technology common to XW-60/XW-60M/XW-130M/XW-200/XWT-10)

Vibration damping function installed For details, see page 10. (Technology common to XW-60/XW-60m/XW-130m/XW-200/XWT-10)

Improved operability for setup changes For details, see page 10. (Technology common to XW-60/XW-60m/XW-130m/XW-200/XWT-10)

XW-130 Spindle power characteristic curve ■ Max.4,000min¹ Standard type (AC11/7.5kW)





CNC 2-Spindle 2-Turret Precision Lathe

-130m

Chuck size 8 Inch





Support for Diverse Compound Machining Needs through Mounting of Power Tools

High productivity with powerful milling

The machine is equipped with a power tool unit suitable for 8-inch chucks. It has a maximum capacity of 20 power tools, and supports the requirements of process integration through compound machining. In addition, in-process inventory has been reduced to zero by simultaneous front and back machining, delivering high productivity.

Tool post construction enabling sustained heavy-duty cutting

A construction with square box-way slides for exceptional rigidity, and realizing little center of gravity displacement of the tool post with the X axis resting on the Z axis, is adopted for differentiation from competitors' products. This helps to resist secular changes and to dampen chattering in cutting. (Technology common to XW-200)

Unique thermal displacement suppression construction adopted For details, see page 6.

(Technology common to XW-60/XW-60M/XW-130/XW-200/XWT-10)

Vibration damping function installed

When finish machining, commands to ameliorate the effects of vibrations due to the operation of the spindle at the other side, or reduce them to zero, are available. They can be selected and programmed in various cases (prioritizing accuracy, prioritizing cycle time).

(Technology common to XW-60/XW-60M/XW-130/XW-200/XWT-10)

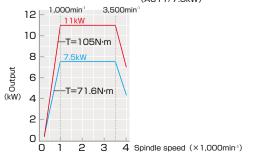
Improved operability for setup changes

A low center of gravity construction with the spindle center height restricted to 1,000 mm allows chucks and workpieces to be changed in a comfortable posture. The work can also be done in a bright machine interior since overhead lighting is featured as standard, and this helps to shorten working times and greatly improve operating efficiency. In addition, the adoption as standard of a swiveling operation panel and a pendant operation panel for the transfer loader enables simple and accurate teaching.

(Technology common to XW-60/XW-60M/XW-130/XW-200/XWT-10)



XW-130_M Spindle power characteristic curve Max.4,000min⁻¹ Standard type (AC11/7.5kW)



XW-130_M Power tool power characteristic curve ■ Max.4,000min¹ Standard type (AC3.7/2.2kW)





CNC 2-Spindle 2-Turret Precision Lathe

Chuck size 10 Inch

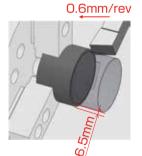




Long-awaited 10-inch chuck compatible machines in the XW series enable high productivity with large-diameter workpieces

Powerful heavy-duty cutting capability

The adoption of large-diameter ϕ 120mm bearings and an 18.5/15 kW motor has realized stable machining of large workpieces. With stable spindle output in the mid- and low-speed ranges allow cutting across three times the cutting surface area of existing models is achieved, showing their outstanding power in the heavy-duty machining of large flange-type workpieces.(Technology common to XWT-10)



3 x previous area

Cutting surface area(t*f) **3.9mm**²
Short time rating result

Transfer of large workpieces enabled

The largest workpieces that Takamaz machines can handle, measuring ϕ 200 mm and up to 8 kg, can be transferred on each side. Since hands can be folded back in addition to being turned, workpieces arranged in a line can be picked up easily without interfering with the loader on one side. (Technology common to XWT-10)







rference with the loader on one side

Easy transfer when folded back



Intermediate turnover unit that can handle large-diameter workpieces

A high-speed shutter with patented technology is used, cutting the operating time of previous models in half, to under 0.5 seconds for both opening and closing operations, so cycle times are shortened.

Tool post construction enabling sustained heavy-duty cutting

For details, see page 10. (Technology common to XW-130M)

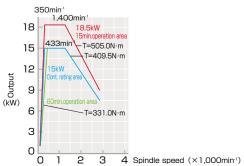
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XW-200 Spindle power characteristic curve \blacksquare Max.2,800min³ Standard type $(\phi 120 \text{ spindle AC18.5/15kW})$





CNC 2-Spindle 2-Turret Precision Lathe

XWT-10

Chuck size 10 Inch

Scan the QR code with your camera phone or smartphone to see videos on YouTube.



Upgraded machine realizing the largest OD turning range of the XW series!

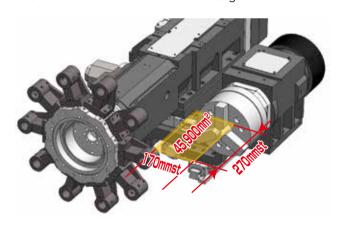
Equipped with 10-station turrets

With two 10-station turrets, tool capacity is increased, boosting production efficiency.

The largest turning range of the XW series

The maximum turning range in the XW series is secured, making it possible to handle workpieces that require simultaneous deep ID and OD turning, such as differential cases and brake calipers.

You can also take advantage of the spacious machine interior to mount chucks of various designs.



Improved chip disposal

In addition to chip flushing inside the machine, a chip flushing circuit is installed behind the cover under the door to prevent chip retention and promote a straight drop of chips into the chip conveyor (optional) below the spindle.

Powerful heavy-duty cutting capability

For details, see page 12. (Technology common to XW-200)

Transfer of large workpieces enabled

For details, see page 12.

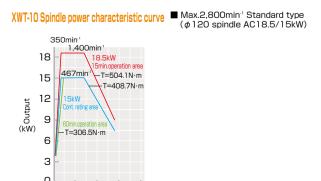
(Technology common to XW-200)

Unique thermal displacement suppression construction adopted For details, see page 6.

(Technology common to XW-60/XW-60M/XW-130/XW-130M/XW-200)

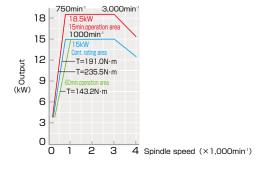
Vibration damping function installed For details, see page 10. (Technology common to XW-60/XW-60m/XW-130/XW-130m/XW-200)

Improved operability for setup changes For details, see page 10. (Technology common to XW-60/XW-60m/XW-130/XW-130m/XW-200)



4 Spindle speed (×1,000min⁻¹)

Max.4,000min⁻¹ Option type (\$\phi\$ 120 spindle AC18.5/15kW)



Equipped with the [Speed] and [Small Footprint] Servo Loader, "MG Series", "Σi Series"

As a result of machine body and loader integrated as one unit, superiority in design balance is accomplished as well as high productivity and space savings, and with after-sale service by TAKAMAZ, will benefit the customer on different aspects.

- ◆The largest three-axis control, setup is easy and can be done quickly.
- ◆Depending on the cutting time, it is possible to equip the machine with 1 or 2 loaders.
- ♦In each point, it is possible to set the interlock to prevent accidental collision.
- ♦All database, the servo parameter, the data tables, and timer setting can be uploaded and downloaded to and from the memory card.







Loader transfer capacity

	Item	Unit	XW	'G-3	XW-6	60/60м	XW-130	XW-130м/200	XW-200	XWT-10	
Loader Model		MG30	MG30H(High speed type)	ΣiGTH60 ΣiGTH60(High speed type) ΣiGTH150			ΣiGTH200				
Number of a	xes	axes	2	2		3					
Loading Tim	e (Reference)	sec.	4	2	6	2	(5	7		
Transport	Diameter x Length (Reference)	mm	<i>φ</i> 30	×40	φ60×60	φ55(φ60)×60	φ150	0×50	φ200×120	φ200×220	
Work Dimension	Weight	kg	0.3(On	e side)	1.0(01	ne side)	3.0(Or	e side)	8.0(On	e side)	
Drive System				Servomotor							
Shoulder (Traverse axis : Z)	Stroke	mm				Depends on specifications					
(Traverse axis : Z)	Rapid Traverse Rate	m/min	85	170	120		170			100	
[Drive System		_		Servomotor						
Forward/ Backward axis: X	Stroke	mm	_	_	200			235			
Dackward axis . X	Rapid Traverse Rate	m/min	_	_	45		35		3	0	
A	Drive System					Servo	Servomotor				
Arm (Vertical axis: Y)	Stroke	mm	24	40	5	90	690	760	780		
(Vortical axis. 1)	Rapid Traverse Rate	m/min	85	170	125	170	12	25	8	0	
	Drive System				Air cylinder						
Hand	Angle	deg.		_		90		0			
	Jaw Stroke	mm	9(One side)	_	10(Or	ne side)	e side) 16(One side)		12(One side)		
Hand Type		Parallel Hand	Pivoting open/close hand	ΣiGTH dedicated L Hand							

The loading time, transport and work dimensions are the indicators.

Different Varieties of Loader Hand that can Handle Different Shapes of Parts

◆Loader hands that can handle a wide range of shapes, including flange workpieces, are available.

Parallel Hand

XWG-3 Standard loader

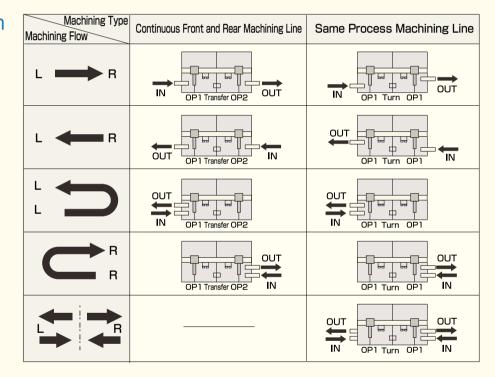


ΣiGTH dedicated L Hand

XW-60 XW-60M XW-130 XW-130M XW-200 XWT-10



Flexible Variation for Automated Large-Variety and Small-Lot Production



Automation Peripheral Devices

♦A production line with different varieties of peripheral devices and loading variations can be designed.

In / Out Stocker

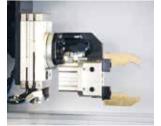


In / Out Conveyor



Auto measurement unit External turning device





Quality / Environment Control Unit



• **Signal Tower**The solid and flashing lights for the operating conditions.



• Cleaning Unit
Without operator intervention,
cleaning is performed automatically.

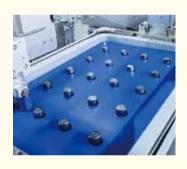


• Oil Mist Collector
Oil mist collection facilities
a clean production environment.



• Automatic Fire Extinguisher If fire breaks out in the machine during automatic operations, fire extinguishing agent is automatically discharged.

Work Stocker / Transfer Unit



• Tray Changer Workpieces can be stored in individual trays.



• "Rakuchin" Stocker Reasonably priced bucket for easy bucket transport management.



• Parts Feeder Workpieces can be stored together with the tray.



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

Cutting Efficiency / Chip Disposal



 Alloyed Clamp Holder for vibration suppression
 Inhibiting the progression of wear boundary is expected to extend cutting tool life in high speed machining.



• Chip Conveyor (Spiral Type) Mounted on the rear side Chip disposal is done semi-automatically in minimal space. Floor type is also available.



• High-pressure coolant Constantry cooled coolant is discharged at high pressure so that the tool life is significantly prolonged.

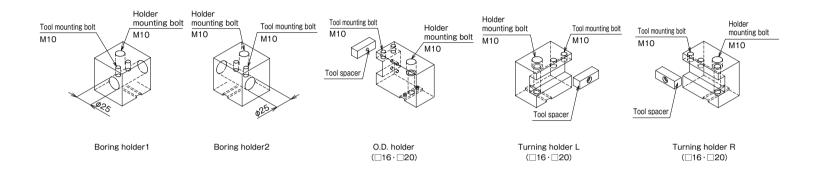


• Semi-dry machining
Ultratrace, highly-lubricating organic
coolant is applied to the correct point
on the cutting edge, realizing semi-dry
machining.

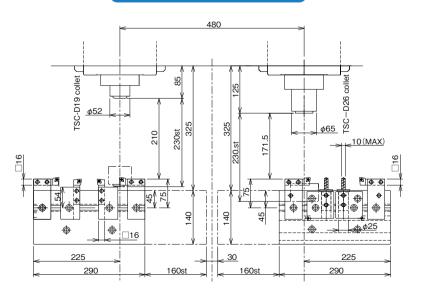
TOOLING SYSTEM & STROKE

Tooling System

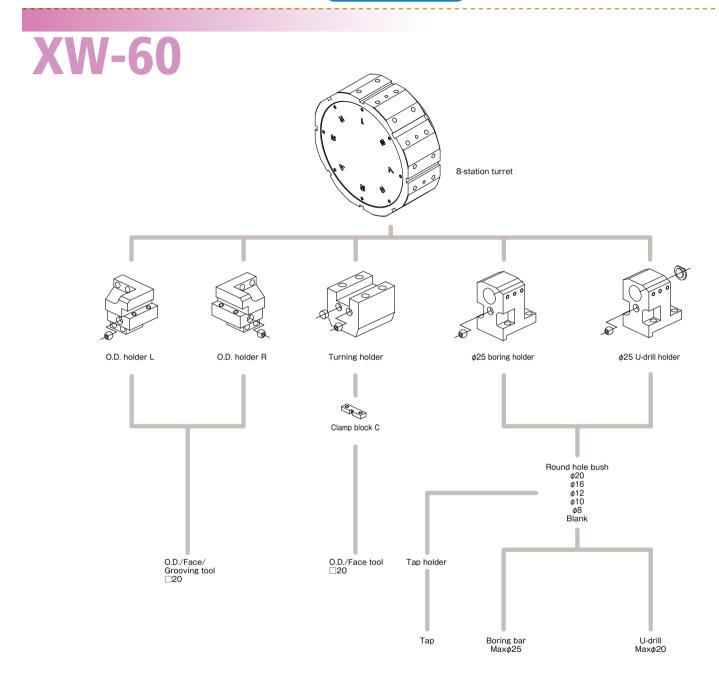
XWG-3



Stroke-Related Drawing



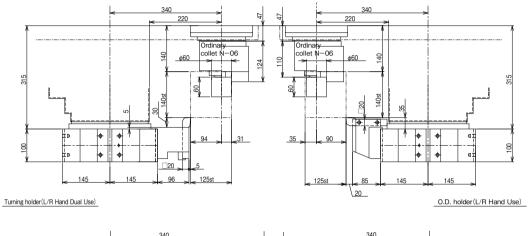
Tooling System

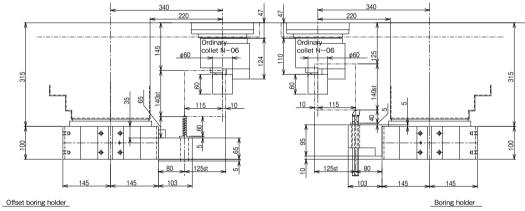


STROKE & TURRET

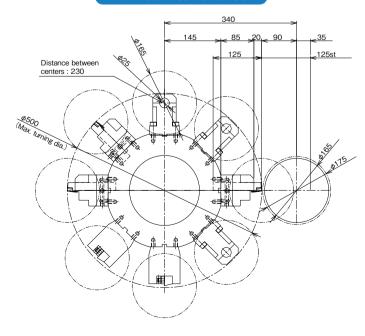
Stroke-Related Drawing

XW-60



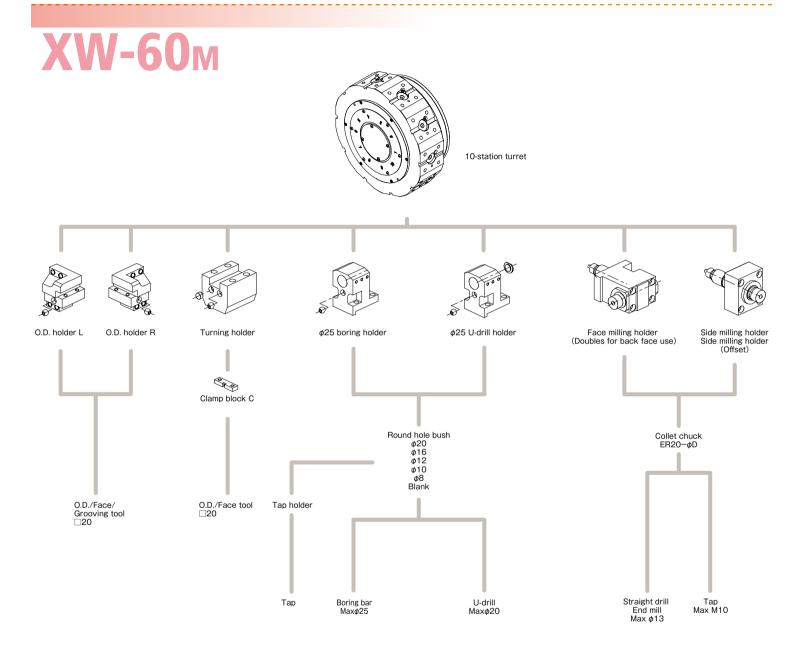


Turret Interference



Unit(mm)

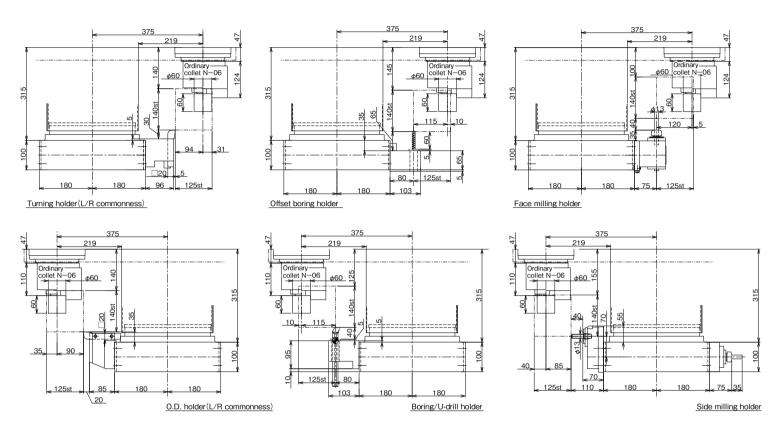
Tooling System



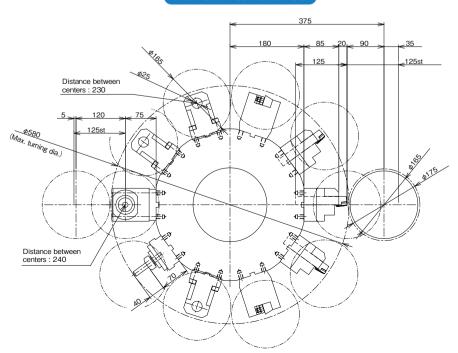
STROKE & TURRET

Stroke-Related Drawing

XW-60_M



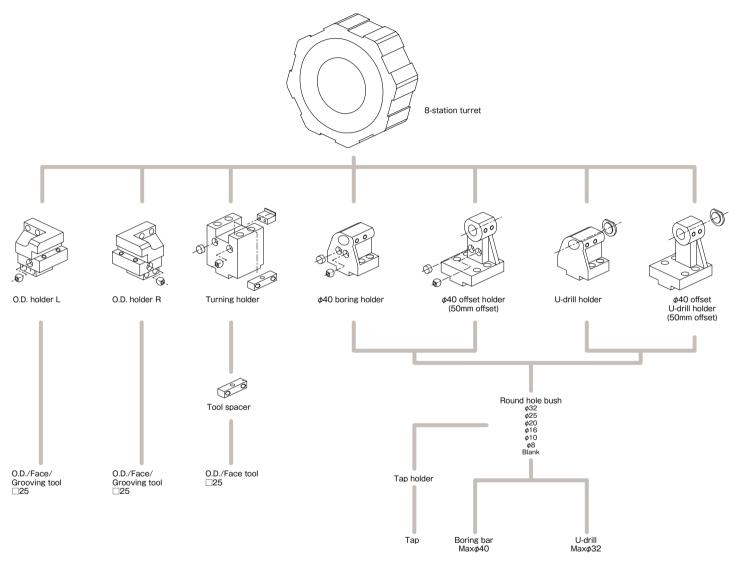
Turret Interference



Unit(mm)

Tooling System

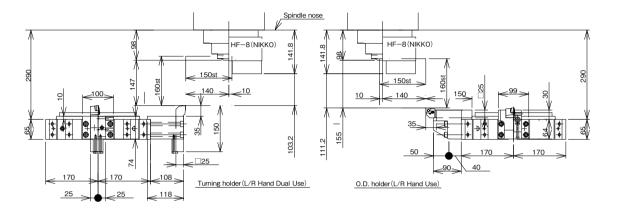
XW-130

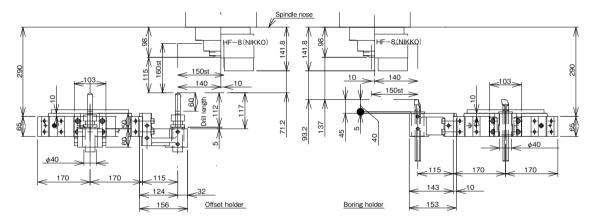


*When setup the drill, tooling space has prohibited zone. If you need more information, please contact to TAKAMAZ.

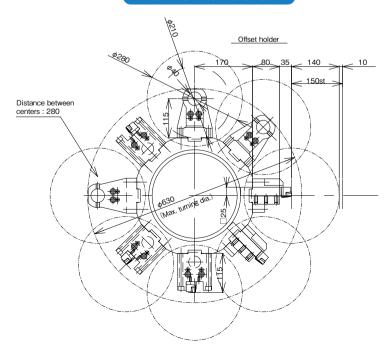
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XW-130





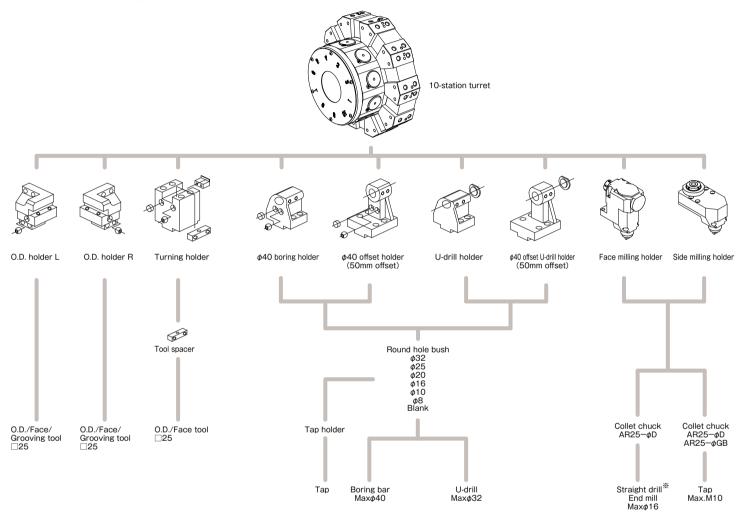
Turret Interference



Unit(mm)

Tooling System

XW-130_M



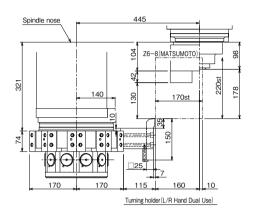
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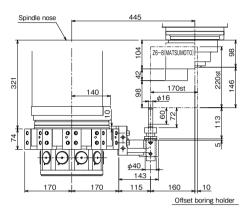
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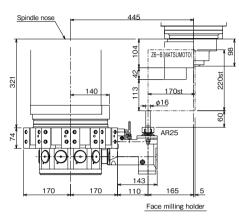
STROKE & TURRET

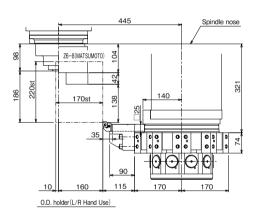
Stroke-Related Drawing

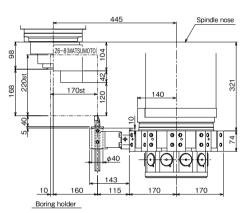
XW-130_M

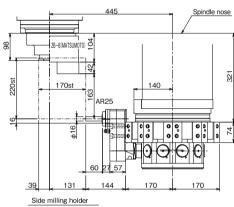




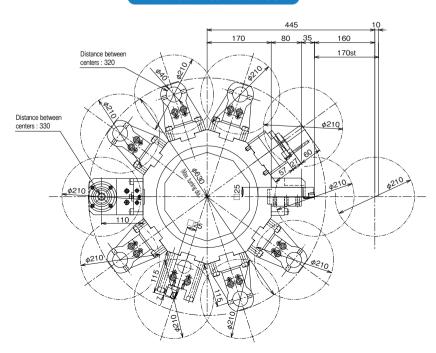








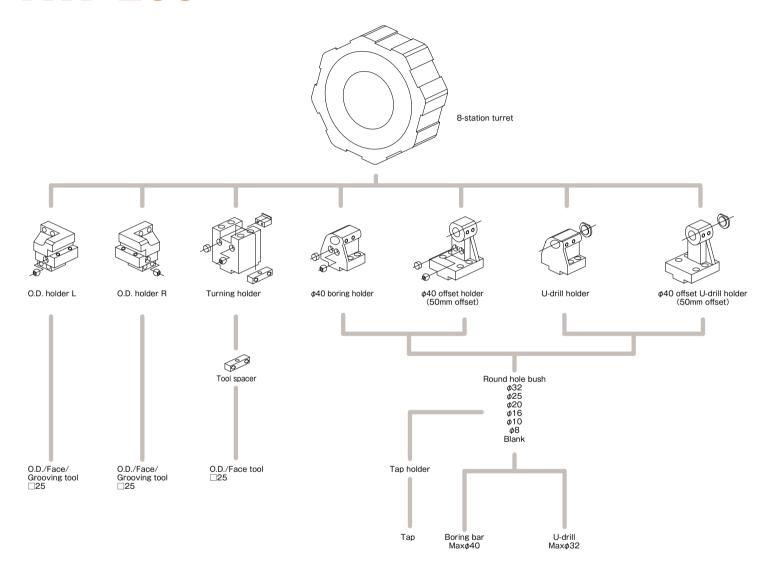
Turret Interference



Unit(mm)

Tooling System

XW-200

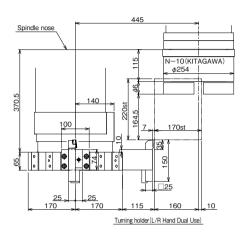


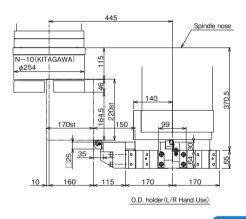
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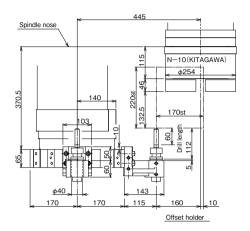
STROKE & TURRET

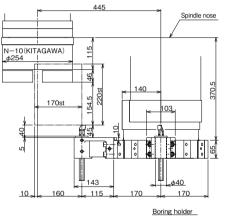
Stroke-Related Drawing

XW-200

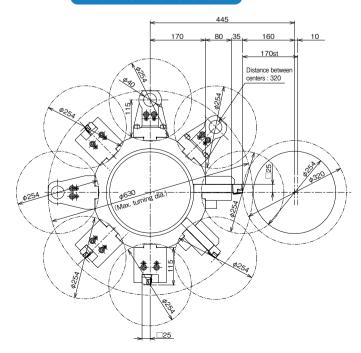








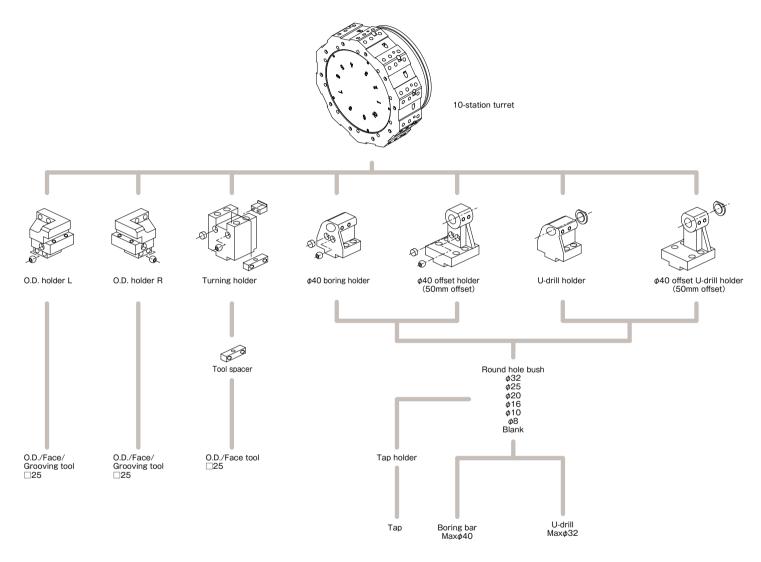
Turret Interference



Unit(mm)

Tooling System

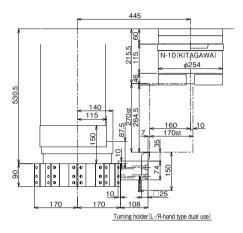
XWT-10

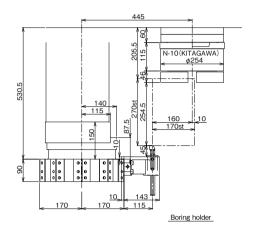


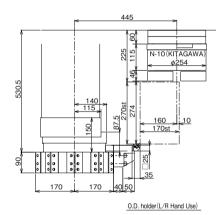
**When setup the drill, tooling space has prohibited zone. If you need more information, please contact to TAKAMAZ.

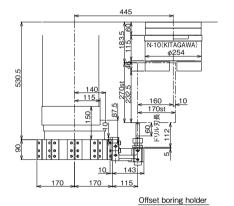
Stroke-Related Drawing

XWT-10

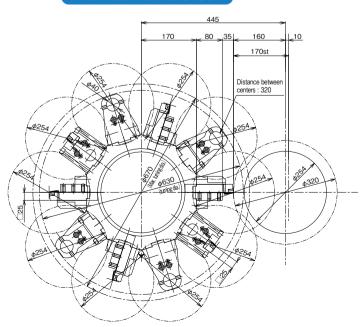








Turret Interference



Unit(mm)

SPECIFICATION

Machine Specifications

	Item	Unit	XWG-3	XW-60	XW-60м	
>	Optimum turning diameter	mm	φ30	Φ	60	
Capacity	Max. turning diameter	mm	φ50	φ175		
906	Max. turning length	mm	50	10	30	
Ö	Chuck size	inch	Collet,3,4×2	Collet,6	s (5) ×2	
	Spindle nose	JIS	A2-3	A2-5 (A2-4)	
Φ	Spindle bearing I.D.	mm	φ60	φ75 ((ø 65)	
Spindle	Through-hole on spindle	mm	φ30	φ46 ((\$ 36)	
Ξ	Spindle speed	min-1	Max.8,000 (6,000*4)	Max.4,500	(6,000)	
ഗ	Chindle indexing		(Cs-axis)	_	Cs-axis	
	Spindle indexing	deg./min	(108,000)	_	18,000	
پ	Type		Gang type×2	8-station turret×2	10-station turret×2	
post	Tool shank	mm	□16 · □20		20	
<u> </u>	Boring holder I.D.	mm	φ25	φ	25	
Tool	Max. stroke	mm	X:160 Z:230	X:125	Z:140	
—	Rapid traverse rate	m/min	X:12 Z:20	X:21	Z:18	
ဟ	Tool storage capacity	pcs.	_	_	10 (One side)	
tools	Rotation speed	min-1	_	_	Max.4,000	
효	Drill	mm	_	_	φ13	
Power.	Capacity Endmill	mm	_	_	φ13	
ď	Tap	mm	_	_	M4~M10	
	Spindle motor	kW	AC5.5/3.7×2	AC7.5/	/5.5×2	
S	Feed motor	kW	X:ACO.4×2 Z:ACO.75×2	X:AC 0.75×2	Z:AC1.2×2	
Motors	Coolant motor	kW	AC 0.25×2	AC 0.:	25×2	
ž	Hydraulic motor	kW	(AC 0.75×2)	ACO.	75×2	
	Power tools motor	kW	_	_	AC2.5	
Size	L×W×H	mm	1,040 (1,340*5) ×2,130×1,750	1,595 (1,950*5) ×2,005×2,400 (2,650*6)	1,695 (1,950*5) ×2,005×2,400 (2,650*6)	
Si	Machine weight	kg	3,500	4,700	4,800	
Т	otal electric capacity	KVA	16 (19*4)	28	30	

^{*1} Some restrictions may apply depending on the chuck type or tool storage capacity. *2 Air blow only. Bar materials cannot be handled.

*3 Some restrictions may apply depending on the chuck type or tool storage capacity. *2 Air blow only. Bar materials cannot be handled.

*3 Some restrictions may apply depending on the chucking cylinder type. *4 The value when the hydraulic unit is mounted. *5 Machine width with loader spec. *6 Height including loader.

Standard Accessories

Item	XWG-3	XW-60	XW-60м		
□Tool holder	4sets	4sets —			
☐Boring holder	_	4se	ets		
□0.D. holder	_	4se	ets		
□Collet flange	1set (TSC-D19)	1s	et		
☐Hydraulic chucking cylinder	(Option)	1s	set		
☐Air chucking cylinder	1 set	_			
□TAKAMAZ loader system	1 u	nit			
☐Spindle indexing device	(Option)	_	1 set		
□Power tools drive unit		lset			
☐Spindle cooling device※	1s	et			
Thread cutting unit(Including constant surface speed control)	1s	et			
☐Front air blower	1set		(Option)		
□Coolant unit	1set (170lit.)	60lit.)			
□Work light	1set				
☐Service tool kit	1 set				
☐TAKAMAZ Instruction manual	lset				

^{*} Oil Temperature Control Type is available as an option.

Optional Accessories

	VIII.C 2	N/14/ CO)//// CO
Item	XWG-3	XW-60	XW-60м
☐Tool holders		Ö	
□Collet chucks		0	
☐Hydraulic chucks		0	
☐Thermony®(Thermal displacement system)	-	C)
Chuck clamp detector(with restrictions depending on the cylinder)	0	(Stand	dard)
☐High-speed loader system	○(One or two)	C)
☐Spimony®(Spindle condition monitoring system)	0	○(Consultation	on required)
☐Spindle indexing device	0	_	(Standard)
□Power tools	_		0
☐Rear chip conveyor(Floor type/Spiral type)		0	
☐Front air blower	(Standard)	C)
☐Rear air blower		0	
☐Rear coolant unit		0	
☐Signal light(1-tier/2-tier/3-tier)		0	
☐Automatic fire extinguisher		0	
☐Automatic power shut-off device		0	
□Special color		0	·
□Others*		0	

^{*} For more information on attachments, consult our sales repres entative.

^{():} Option

Machine Specifications ■

	Item	Unit	XW-130	XW-130м	XW-200	XWT-10	
>	Optimum turning diameter	mm	φ1	50	φ200		
<u>Ģ</u>	Max. turning diameter	mm	φ280	φ320	φ3	20	
Capacity	Max. turning length	mm	155	220	220	270	
Ö	Chuck size	inch	Collet		10:		
	Spindle nose	JIS		2-6	A2		
Φ	Spindle bearing I.D.	mm	φ1	00	φ1	20	
둳	Through-hole on spindle	mm	ϕ 6		φ8		
Spindle	Spindle speed	min-1	Max.4		Max.2,800	Max.2,800(4,000)	
(1)	Spindle indexing		_	C-axis	_		
		deg./min	_	18,000	_	=	
;;	Type		8-station turret×2	10-station turret×2	8-station turret×2	10-station turret×2	
post	Tool shank	mm		25		25	
=	Boring holder I.D.	mm	φ40		φ40		
Tool	Max. stroke		X:150 Z:160	X:170 Z:220	X:170 Z:220	X:170 Z:270	
	Rapid traverse rate	m/min	X:24		X:24 Z:24		
<u> </u>	Tool storage capacity	pcs.	<u> </u>	10 (One side)	_		
tools	Rotation speed	min-1	<u> </u>	Max.4,000	_		
<u> </u>	<u>Drill</u>	mm		φ16	_		
Power.	Capacity Endmill	mm	<u> </u>	φ16	_		
ш	Тар	mm	_	M4~M10	_		
	Spindle motor	kW	AC11/		AC18.5		
Motors	Feed motor	kW	X:AC1.2×2		X:AC1.2×2 Z:AC1.8×2		
Ħ	Coolant motor	kW kW	AC 0.2		AC 0.25 ×2		
ž	Hydraulic motor		AC 0.7		AC 0.75 ×2		
	Power tools motor	kW	_	AC3.7/2.2	_	=	
Size	L×W×H	mm	1,890 (2,250*1) ×2,140×2,050 (2,925*2)	1,990 (2,350*1) ×2,330×2,400 (3,080*2)	1,990 (2,350*1) ×2,330×2,400 (3,080*2)		
	Machine weight	kg	5,600	6,900	6,9		
To	otal electric capacity	KVA	44	47	6	2	

*1 Machine width with loader spec. *2 Height including loader.

(): Option

Standard Accessories

Item	XW-130	XW-130м	XW-200	XWT-10			
☐Boring holder	4sets						
□0.D. holder	4sets						
☐Hydraulic power chuck (Solid)		1s	et				
☐Hydraulic chucking cylinder	lset						
Chuck clamp detector(with restrictions depending on the cylinder)	(Option)	(Option) 1set					
□TAKAMAZ loader system	lunit						
☐Spindle indexing device	_	1set (C-axis)	_				
□Power tools drive unit	_	1set —		_			
☐Spindle cooling device※	1set						
☐Thread cutting unit(Including constant surface speed control)	1 set						
□Coolant unit	1set (160lit.) 1set (200lit.)						
□Work light	lset						
☐Service tool kit	1 set						
☐TAKAMAZ Instruction manual	lset						

X Oil Temperature Control Type is available as an option.

Optional Accessories

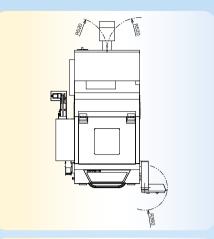
Item	XW-130	XW-130м	XW-200	XWT-10			
□Tool holders							
☐Hydraulic chucks		C)				
□Collet chucks	()	_	•			
☐Thermony®(Thermal displacement system)		0		_			
Chuck clamp detector(with restrictions depending on the cylinder)	0		(Standard)				
☐Spimony®(Spindle condition monitoring system)	_	○(Consultati	on required)	_			
□Power tools	_	0	_				
☐Rear chip conveyor(Floor type/Spiral type)		Ċ)				
□Front air blower		C)				
□Rear air blower		C)				
□Rear coolant unit	0						
☐Signal light(1-tier/2-tier/3-tier)	0						
☐Automatic fire extinguisher	0						
□Automatic power shut-off device	0						
□Special color	0						
□Others*	0						

SPECIFICATION

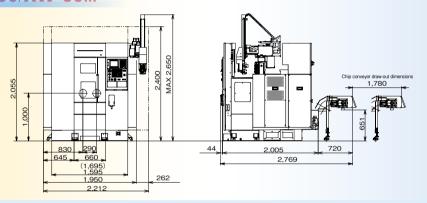
	10110	\//	V/1-1-6-	\/\	101: 151	V04: 252	\(\(\tau_1 = \tau_2 = \tau_1 = \tau_2 =
Item	XWG-3 TAKAMAZ & MITSUBISHI M830VW	XW-60 TAKAMAZ &		XW-130 TAKAMAZ & FANUC 0i-TD		XW-200 MAZ & FANUC	
Controlled axes	2axes(X,Z) ×2	VO.	3axes(X,Z,C) ×2 Simultaneous 3 axes ×2			2axes(X	
Simultaneously controllable axes Least input increment	Simultaneous 2 axes 0.0001mm(X in diameter)	^_	Simulaneous 3 axes 22		Simultaneous 3 axes ×2 (in diameter)	Simultaneous	2 axes x2
Least command increment	X:0.0001mm(X in diameter)				Z:0.001mm		
Auxiliary function	X.0.0000311111 Z.0.0001111111		M-code	9 3 digit	2.0.00 111111		
Spindle function				4 digit			
Tool function				4 digit			
Tape code		FIA/R		O)automatic reco	gnition		
Cutting feedrate	1~7.000mm/min	LIA(II	02020)/ 100(0 4		Omm/min		
Command system	1 - 7,000///////////		Increments	al/Absolute	5111117111111		
Linear interpolation				01			
Circular interpolation				,G03			
Cutting feedrate override				50%			
Rapid traverse override				00%			
Program number	Program file nam	e 32 characters		4 digit	Program	file name 32 cha	racters
Backlash compensation	0~999,999.9μm			0~9,9	99µm		
Program memory capacity	500Kbyte(1,280m)		1	Mbyte(2,560m)(I	Dual systems total	i)	
Tool offsets	64sets(Dual systems total)			128sets (Dual	systems total)		
Registered programs	1,000pcs.(Dual systems total)			800pcs.(Dual	systems total)		
Tool geometry/Wear offset			Star	ndard			
Canned cycle				92,G94			
Radius designation on arc			Star	ndard			
Tool offset measurement input				ndard			
Background editing				ndard			
Direct drawing dimension programming				ndard			
Custom macro				ndard			
Custom macro common variables			#100~#199	,#500~#999			
Pattern data input	Standard(Equivalent Functions)				ndard		
Nose R compensation				41,G42			
Inch / Metric conversion				/G21			
Programmable data input			G	10			
Run hour / Parts count display	Standard(Equivalent Functions)				ndard		
Extended part program editing				ndard			
Multiple repetitive cycle				~G76			
Multiple repetitive cycle II				-shaped			
Canned drilling cycle	Otomaloud		Star	ndard	h: \		
Chamfering / Corner R	Standard		000		tion)		
Constant surface speed control				i,G97 32			
Continuous thread cutting Variable lead thread cutting				34			
Thread cutting retract				ndard			
Clock function				ndard			
Help function				ndard			
Alarm history display	512pcs.		Otal		OCS.		
Self-diagnosis function	0 12pos.		Star	ndard	500.		
Sub-program call	Up to 8 loops				O loops		
Decimal point input			Star	ndard			
2nd reference point return				30			
Work coordinate system setting				54~G59			-
Rigid tapping	(Spindle:Option)	_	For Power Tools only	_	For Power Tools only		
Polar coordinate interpolation			Standard		Standard	_	
Cylindrical interpolation			Standard	_	Standard	_	
Stored stroke check 1				ndard			
Input/Output interface			Memory ca	ard,Ethernet			
Input/Output interface(RS232C)				tion)			
Input/Output interface(USBFlash Memory)				ndard			
Alarm message			Star	ndard			
Graphic display(FANUC)			Star	ndard			
Graphic trace(MITSUBISHI)							
Spindle orientation			(Op	tion)			
G code guidance	Standard				_		
Simple programming function(FANUC)	Standard			-	_		
NAVI LATHE (MITSUBISHI)				T.		Т	
Dynamic graphic display(FANUC)	Standard	aO)	tion)		_		(Option)
Graphic check(MITSUBISHI)		,,,,,		/=	h:\		
Tool life management	Standard				tion)		
Multiple M codes in one block	Max. 3				:Option)		
Conversational programming with graphic function	_				ndard		
Abnormal load detection	_				ndard		
Manual handle trace	_		2:		ndard		
Automatic data backup	1		Star	ndard			
Automatic screen deletion function	Work /Tool oo; := to:		187-		ndard	hor	
TAKAMAZ management support function	Work/Tool counter				ool load monitor,Ot	IEI	
TAKAMAZ maintenance functions Set of Instruction Manuals for Control Device	CD-ROM(Bound:Option)		Star ound:Option)	ndard	חות	-ROM(Bound:Option	<u></u>
		P ND-HOIM(R	ouriu.UptiON)	CD-ROM(Bound:Option)	. الالال ا	-i iOivi(Duuliu.UDTI	<i>ر</i> ا ال

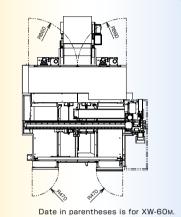
FLOOR SPACE

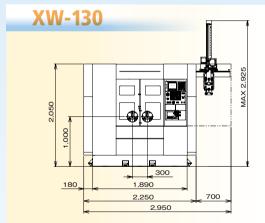
XWG-3 1.040

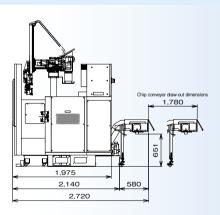


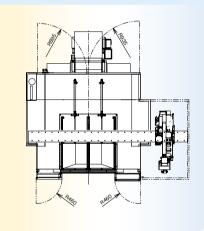
XW-60/XW-60_M



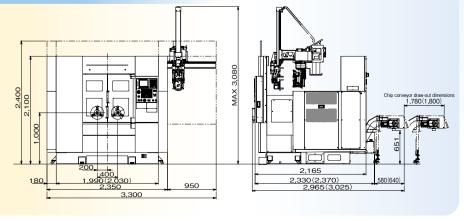


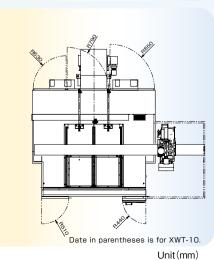






XW-130m/XW-200/XWT-10









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