CNC2Spindle2Slide Precision Lathe







Full Lineup of 2-Spindle and 2-Slide lathe machines!



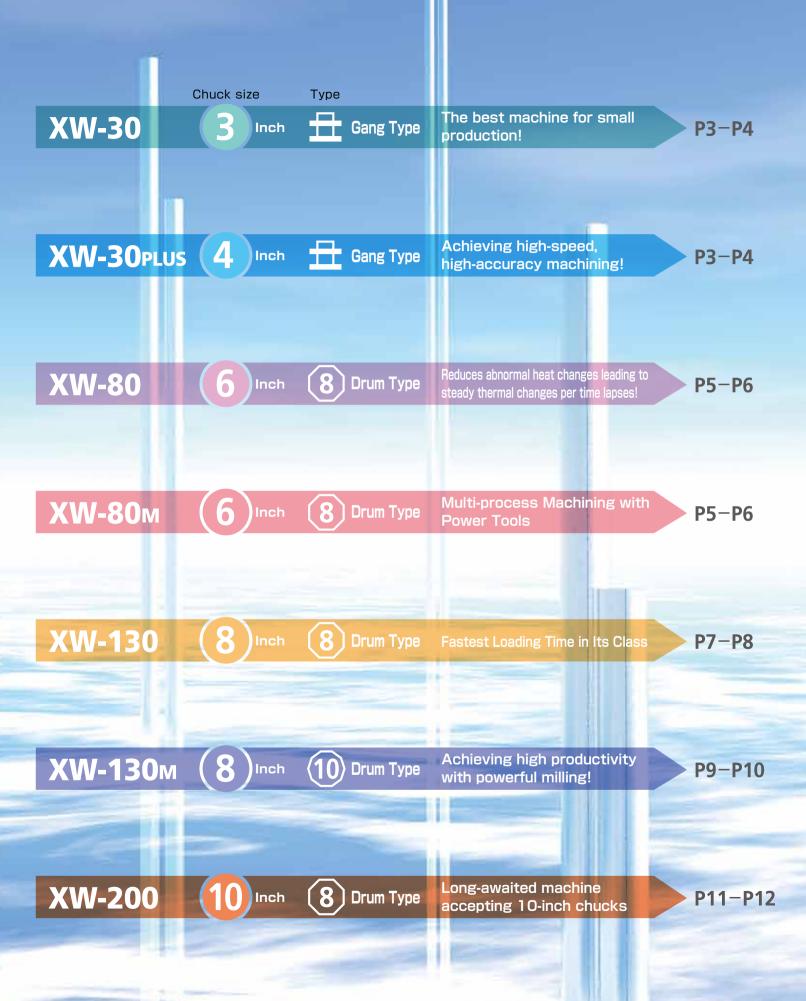
Simultaneous same process machining



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

XVI-30/30Chuck size (3) / (4) Inch PLUS

*The XW-30 accepts 3-inch chucks only.







High-speed, high-accuracy machining achieved in an elegant, compact body!

Incorporating a new-type spindle unit (XW-30PLUS)

A high-efficiency motor with an output of 5.5/7 kW is adopted as the built-in motor. The unit is compatible with chucks up to 4 inches, and a hydraulic cylinder can also be equipped as an option to enable stable mass production machining of workpieces that require a strong gripping force. The reviewed cooling circuit has made the oil controller that used to be essential for short-cycle machining unnecessary**, reducing the cost and space requirements.

*An oil controller is still required with some specifications.

Pursuing high precision cutting by incorporating a cooling system in the machine

Generally on a machine with 2 spindles, a heat imbalance arises in cases where different cutting is performed at the left and right sides. This leads to unstable accuracy. The XW-30 series is built with a cooling tank inside the bed for the two spindles to suppress thermal displacement, achieving stable accuracy over the long term (patented).

Production improved by a high-speed loader

Either a compact " Σ iW loader" or high-speed compact " Σ iWH loader" (option) can be selected. These smallest ever Takamaz loaders have been realized through a 2-stage configuration on the vertical axis. High productivity is assured by a loading time of 4 seconds with the Σ iW loader and 2 seconds with the Σ iWH loader (not including shutter operation). In addition, placing the intermediate turnover unit in the center and providing two reversing hands makes it possible to receive and deliver workpieces simultaneously without the loader going outside the machine at any time, so substantial shortening of cycle times has been achieved. **The intermediate turnover unit is located in the center on the XW-30pus only.

New design with consideration for quick changeover

For setup changes, the top part of the front cover can be opened across the full width of the machine. The door opening has been scaled up from a width of 550mm on existing machines to 900mm, improving the working environment. The shutter also opens up well to the



rear, allowing setup work to be performed safely and speedily.

Higher performance control system

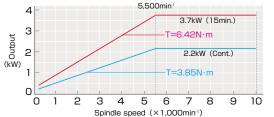
The general NC function that was previously an optional setting has been made standard, providing a high level of functionality. Operating convenience is also improved by making the operation box more compact and adopting a touch panel monitor.

Space-saving design and long-awaited addition of CE specifications (XW-30PLUS)

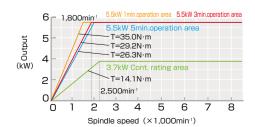
Space savings have been realized with a machine 1,340mm wide (bed width: 1,040mm), 2,120mm deep and 1,500mm high. Compliance with CE standards has been made possible too, enabling safe usage in Europe as well.

*Machines with CE specifications have different dimensions.





XW-30PLUS Spindle motor torque diagram





CNC 2-Spindle 2-Turret Precision Lathe

-80/80M

Chuck size 6 Inch





Suitable for a mass production using 6 inch chuck class machines! Achieved zero "work in process" inventory and equipped with a rotary tool.

Corresponds to every type of production

Diverse process requirements including simultaneous machining of the same process, of both surfaces, and of different processes, can be handled by one machine. Multi-process machining for mass production such as drilling and tapping can also be achieved with power tools and the Cs-axis. (Power tool available on XW-80M)

Stable precision machining

The Z-axis slide base and the bed support of this machine are combined resulting to a higher rigid design. The slide is equipped with high rigid roller guide for good tracking, capable of sliding more smoothly as it is controlled by a new CNC. These improvements are aimed at improving machine accuracy. By conducting a thorough analysis of thermal displacement, a symmetric bed structure has been introduced. A cooling unit has been installed as standard to restrict relative displacement due to temperature change during machining and maintain stable dimensional accuracy.

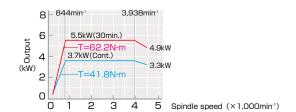
Improved Operating Ratio per Unit Area

Two-spindle simultaneous machining reduces the cycle time by half. The machine is compactly designed with the length of 1,720mm and the floor space as small as 3.1m².

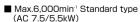
3-axis high speed loader "ΣGT60"

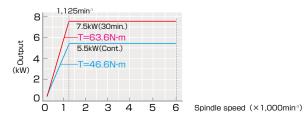
Quick release spring type shutter enables no time loss for loader entry and return realizing the fastest loading and system time available. Loading time: 5.5 seconds System cycle time: 19 seconds (10-10 flow)





XW-80_M Spindle motor torque diagram ■







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). 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. As a result of loader speed-up and shutter optimization, the previous

opening/closing time has been halved, to under 0.5 seconds.



Pursuit of accuracy and cutting capacity with 8 inch chuck

The spindles feature large-diameter 100-mm bearings and an 11/7.5 kW motor as standard, realizing powerful cutting performance. In the pursuit of stable accuracy, a vibration damping construction (patented) with built-in functional materials that suppress vibration has been adopted. A spindle base cooling system (patented) is now also installed, enabling stable machining accuracy on a sustainable basis.

Low center of gravity, space-saving ease of use

Slide strokes are X-axis 150mm and Z axis 160mm (Slide is a high rigidity slide angle), while ensuring a compact design with spindle center height 1,000mm, machine width 1,890mm, without even a room for mounting a loader. In addition, by pursuing a design for ease of use, spindle chuck and work turn device are

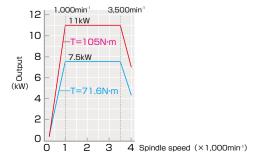


closer to reach, making tool changeover easier. Because it is also available in a wide variety of options like the previous models, meeting the specifications that users need can be achieved.

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.

XW-130 Spindle motor torque diagram Max.4,000min¹ Standard type (AC 11/7.5kW)





CNC 2-Spindle 2-Turret Precision Lathe

-130m

Chuck size 8 Inch





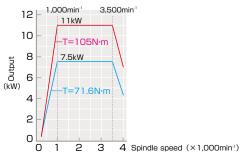
Support for Diverse Compound Machining Needs through Mounting of Power Tools

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.

	Item	Unit	
	Tool storage capacity	pcs.	10 (One side)
ols	Max. rotating speed	min ⁻¹	Max.4,000
t	Drill	mm	φ16
er	Capacity Endmill	mm	φ16
Power tools	Tap	mm	M4~M10
Ф	Drive motor	kW	AC 3.7/2.2
C-axis	Spindle indexing	deg./min	18,000
C-dXIS	Index angle	deg.	0.001

XW-130_M Spindle motor torque diagram ■ Max.4,000min⁻¹ Standard type (AC 11/7.5kW)



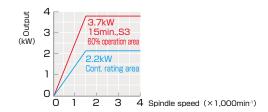
Aiming at high-accuracy machining by incorporating original technology

A unique spindle base cooling system (patented) that takes the circulation of coolant into consideration is equipped as standard and has achieved stable dimensional accuracy by suppressing thermal displacement of the bed and minimizing changes over time. In addition, a vibration damping construction (patented) with built-in functional materials that suppress vibration has been adopted, achieving high-accuracy machining. (Common with XW-130 / 200)

Improvement of working convenience at setup changes

The low-center-of-gravity construction with spindle center height restricted to 1,000 mm means that chucks and workpieces can be replaced in a comfortable posture. Overhead lighting is also installed as standard so that work can be carried out in a well-illuminated machine interior, which helps to achieve shorter working times and substantially better working efficiency. In addition, the adoption of a swiveling operation panel and a pendant operation panel for the transfer loader as standard enables simple and accurate teaching. (Common with XW-200)

XW-130_M Power tools motor diagram ■ Max.4,000min¹ Standard type (AC 3.7/2.2kW)





CNC 2-Spindle 2-Turret Precision Lathe

NEW

Chuck size 10 Inch

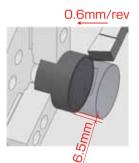




Long-awaited XW-series Machine Accepting 10-inch Chucks Excels at Compound Machining and High Productivity

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.



3 x previous area

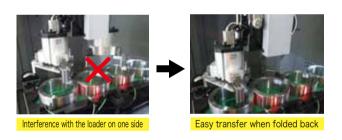
Cutting surface area(t*f) **3.9mm**²
Short time rating result

Original technology installed for high-accuracy machining

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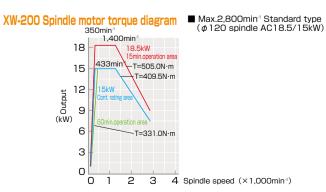
Transfer of large workpieces enabled

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. Use of the high-speed shutter, patented Takamaz technology, reduces the time for opening/closing operation to under 0.5 seconds, or half the time on existing machines, achieving high productivity and shorter cycle times.



Better operating convenience in setup changes

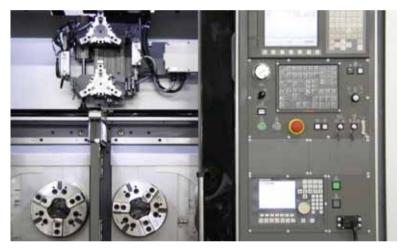
The low-center-of-gravity construction with spindle center height restricted to 1,000 mm means that chucks and workpieces can be replaced in a comfortable posture. Overhead lighting is also installed as standard so that work can be carried out in a well-illuminated machine interior, which helps to achieve shorter working times and substantially improved working efficiency. In addition, the adoption of a swiveling operation panel and a pendant operation panel for the transfer loader as standard enables simple and accurate teaching. (Common with XW-130M)



Equipped with the [Speed] and [Small Footprint] Servo Loader, "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.





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Item		Unit	XW-30/30PLUS		XW-80/80 _M	XW-130	XW-130м/200	XW-200
Loader Model			ΣiW30(2axes)	ΣiW30H(2axes)	ΣGT60(3axes)	ΣiGTH150		ΣiGTH200
Loading Time	(Reference)	sec.	4	2	6	6		7
Transport	Diameter x Length (Reference)	mm	<i>φ</i> 30	×40	φ60×60	φ150×50		φ200×120
Work Dimension	Weight	kg	0.3(Or	ne side)	1.0(One side)	3.0(Or	ne side)	8.0(One side)
Observations	Drive System		Servomotor					
Shoulder (Traverse axis : Z)	Stroke	mm		Depends on specifications				
(Travoloc and TZ)	Rapid Traverse Rate	m/min	80	150	110	17	70	100
Famuumd /	Drive System		<u>-</u>		Servomotor			
Forward/ Backward axis: X	Stroke	mm	_		200		235	
Dackward axis . X	Rapid Traverse Rate	m/min	_		45	35		30
۸ ۳۳۰۰	Drive System				Servo	motor		
Arm (Vertical axis: Y)	Stroke	mm	250	240	470	690	760	780
(Voi tioui axio. 1)	Rapid Traverse Rate	m/min	80	240	75	12	25	80
	Drive System				Air cylinder			
Hand	Angle	deg.	-	_	90			
	Jaw Stroke	mm	9(One side)	_	10(One side)	16(On	e side)	12(One side)
Hand Type			Parallel Hand	Pivoting open/close hand	L Hand	Σίζ	GTH dedicated L Ha	and

Loader transfer capacity

Different varieties of loader hand that can handle different shapes of parts

◆We offer a loader hand that can handle wide range of parts including flange and shaft parts.

Parallel Hand(CR)

XW-30 XW-30PLUS



L Hand

XW-80 XW-80м

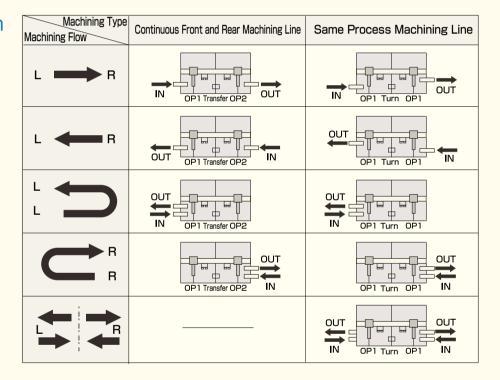


ΣiGTH dedicated L Hand

XW-130 XW-130M XW-200



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

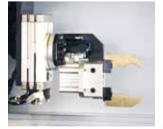


In / Out Conveyor



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
By stacking per pallet, scratches
on parts are prevented because
of better stacking resulting to an
efficient form of delivery system.



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



• Elevator Hopper Through the stocker as first process (parts supply), the stocker is suitable forproduction of short delivery cycle.



• Rotary Stocker The space-saving, low-cost stocker. The position can be adjusted easily according to the size of the part.

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) Chip disposal is done semiautomatically at a minimum 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.

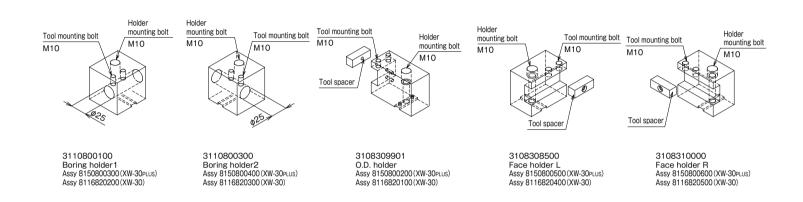


• Semi-dry machining Ultratrace, highly-lubricating vegetable coolant is applied to the correct point on the cutthing edge, realizing semi-dry machining.

TOOLING SYSTEM & STROKE

Tooling System

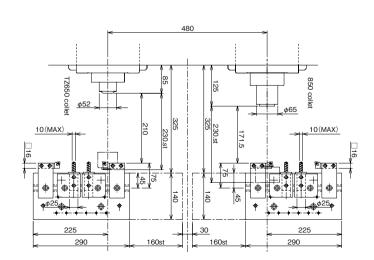
XW-30/XW-30PLUS



Stroke-Related Drawing

XW-30

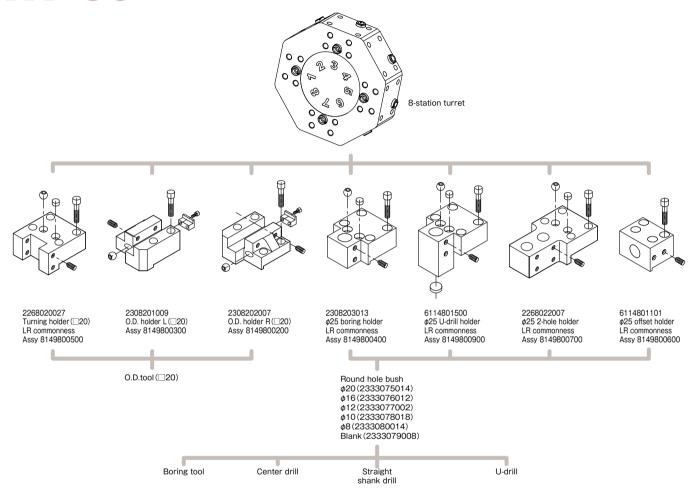
XW-30PLUS



Unit(mm)

Tooling System

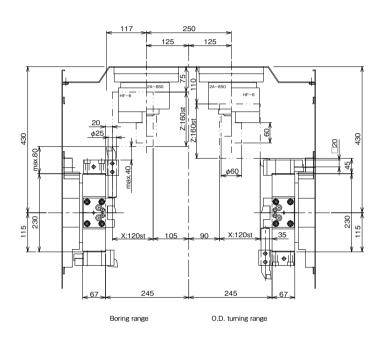
XW-80

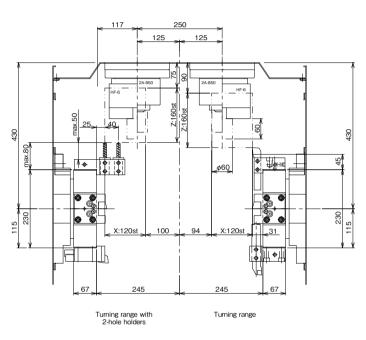


STROKE & TURRET

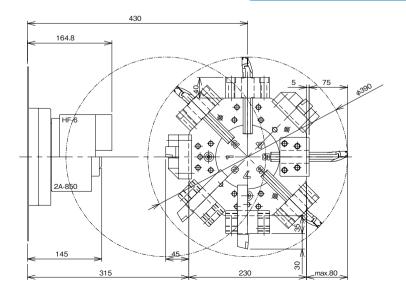
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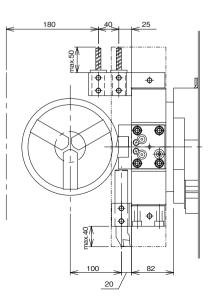
XW-80





Turret Interference

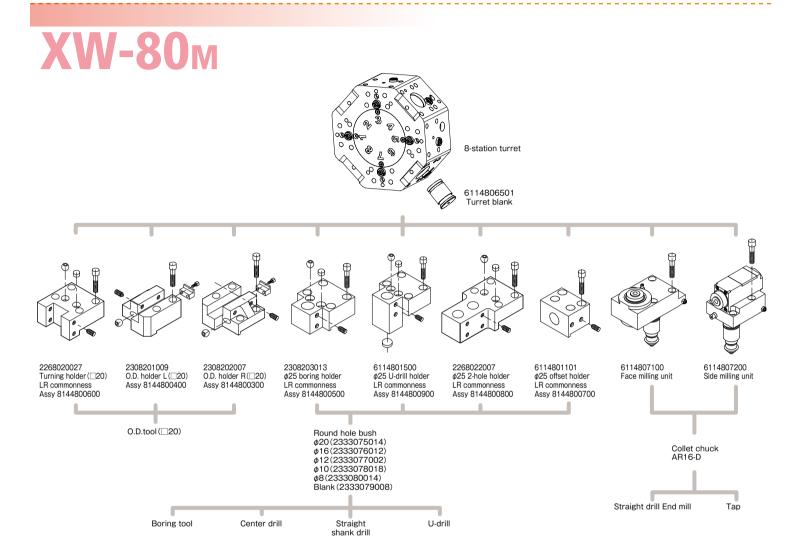




Unit(mm)

TOOLING SYSTEM

Tooling System

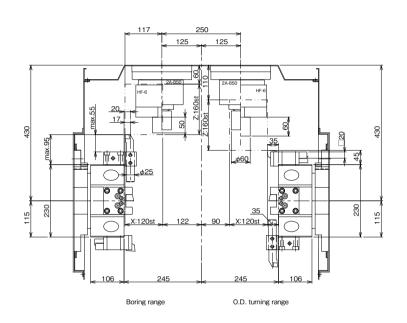


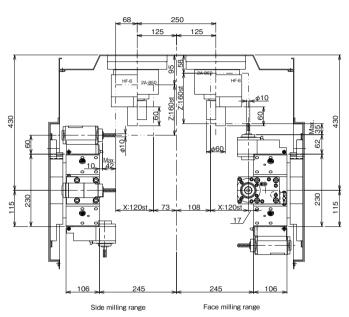
Attention

The standard holders that can be mounted on a milling unit mounting surface are basically a face and side milling units only. For special milling units, please contact our sales office.

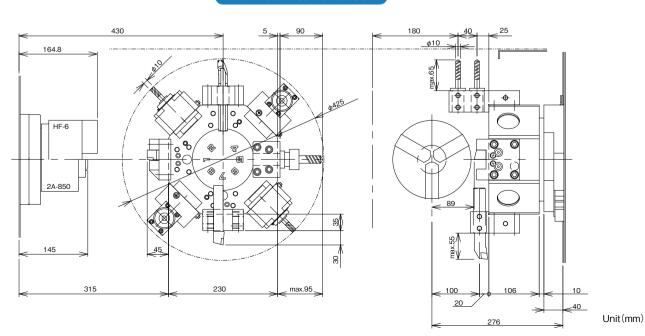
Stroke-Related Drawing

XW-80_M



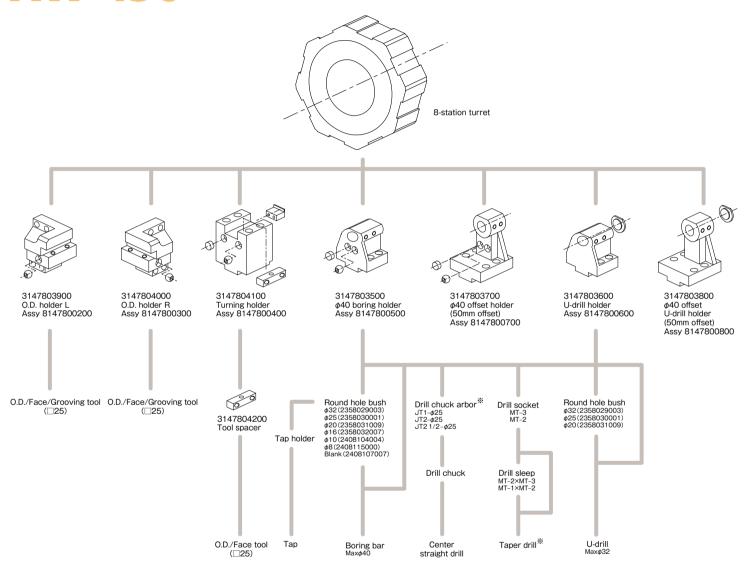


Turret Interference



Tooling System

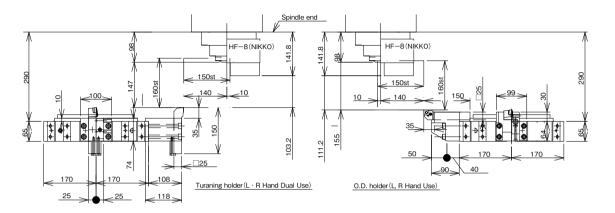
XW-130

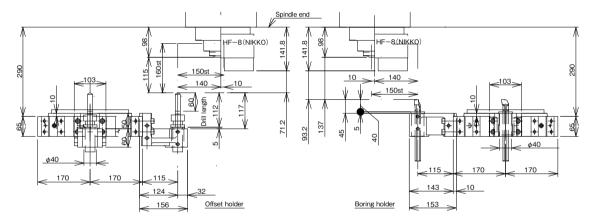


**When setup the drill, tooling space has prohibited zone. If you need more information, please contact to TAKAMAZ.

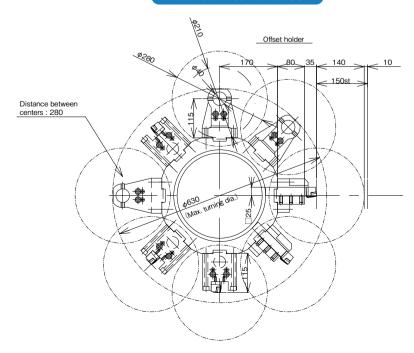
Stroke-Related Drawing

XW-130





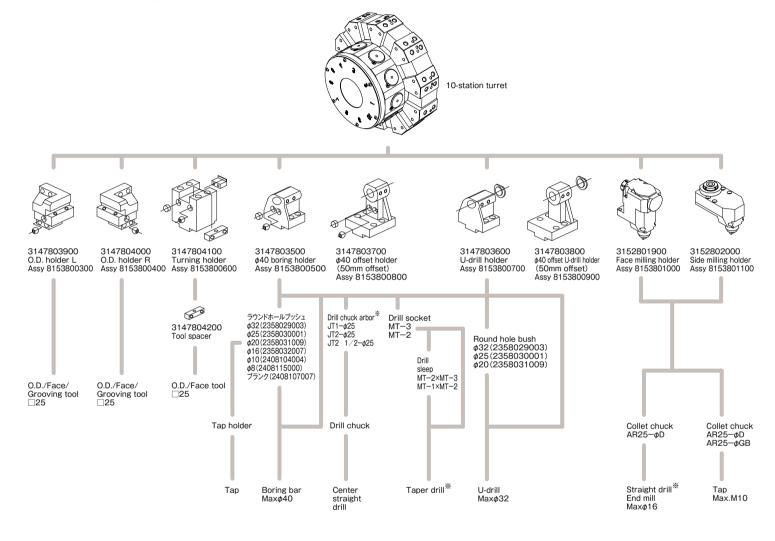
Turret Interference



Unit(mm)

Tooling System

XW-130_M

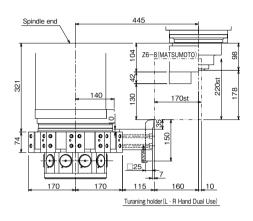


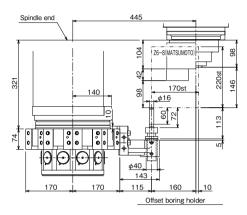
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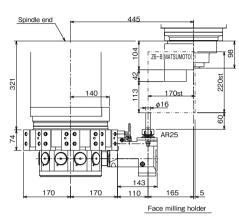
STROKE & TURRET

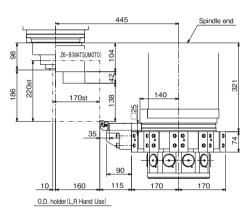
Stroke-Related Drawing

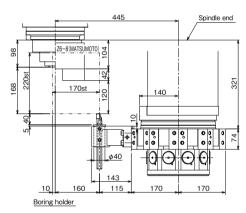
XW-130_M

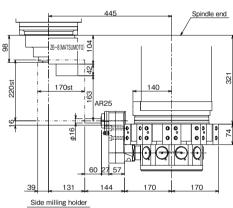




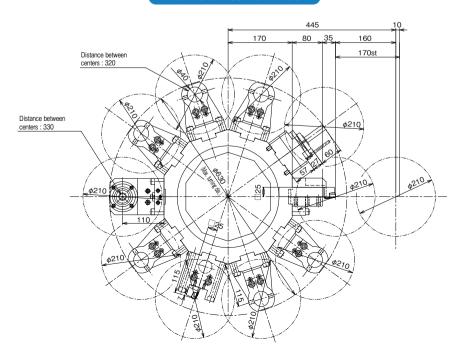








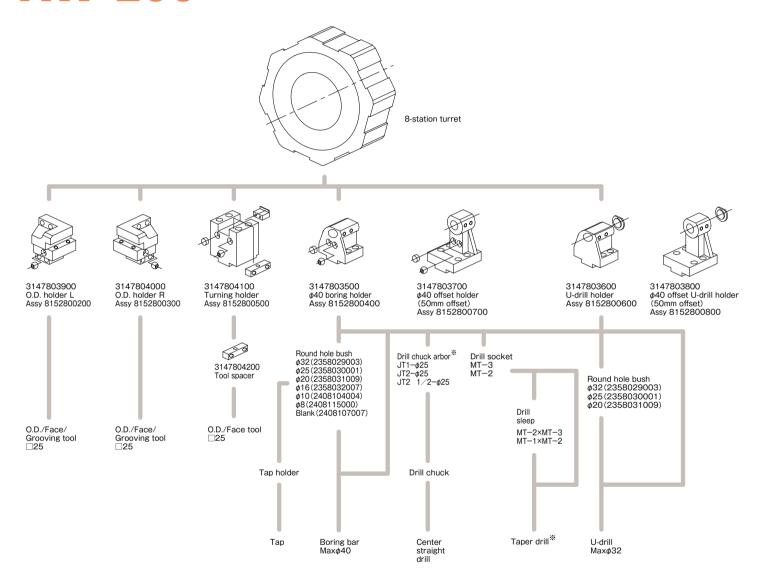
Turret Interference



Unit(mm)

Tooling System

XW-200

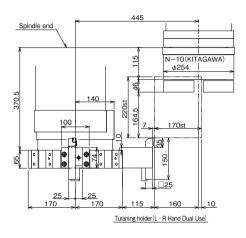


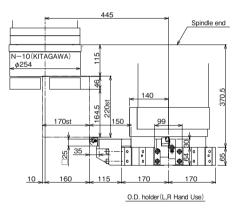
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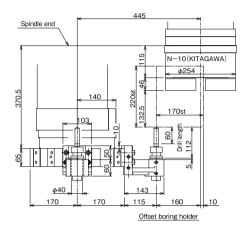
STROKE & TURRET

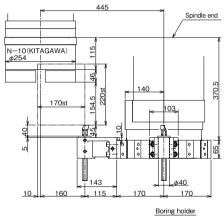
Stroke-Related Drawing

XW-200

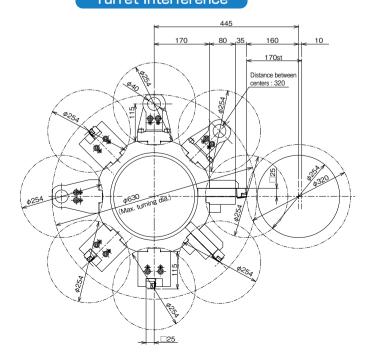








Turret Interference



Unit(mm)

SPECIFICATION

Machine Specifications ■

	Item	Unit	XW-30	XW-30 _{PLUS}	XW-80	XW-80м
>	Optimum turning size	mm	φ30*1	φ30	φ	60
Capacity	Max. turning diameter	mm	φ50	φ50	φ1	70
90	Max. turning length	mm	50	50	12	25
Ö	Chuck size	inch	3:Air ×2	Collet,3,4×2	Collet	,6 ×2
	Spindle nose	JIS	A3-S2	A2-3	Aa	2-5
Φ	Spindle bearing I.D.	mm	φ50	φ60	φ.	75
둳	Through-hole on spindle	mm	φ20 ^{∗2}	φ25		46
Spindle	Spindle speed	min-1	Max.10,000*3	Max.8,000 (6,000*4)	Max.4,500) (6,000)
S	Spindle indexing		_	_	_	Cs-axis
	Spiritule iriuexirig	deg./min		_	_	18,000
#	Type		Gang type×2	Gang type×2		turret×2
post	Tool shank	mm	□16	□16		20
=	Boring holder I.D.	mm	φ25	φ25		25
00.	Max. stroke	mm	X:160 Z:200	X:160 Z:230		Z:160
-	Rapid traverse rate	m/min	X:12 Z:15	X:12 Z:20	X:18	Z:18
<u>ග</u>	Tool storage capacity	pcs.	_	<u> </u>	-	4 (One side)
tools	Max. rotaring speed	min-1	_	_	_	Max.4,000
<u> </u>	<u>Drill</u>	mm	_	_	_	<i>φ</i> 10
Power.	Capacity <u>Endmill</u>	mm	_	_	_	φ10
ш	Tap	mm	_	_	_	M4~M6
	Spindle motor	kW	AC 3.7/2.2 ×2	AC 5.5/3.7×2		7.5/5.5) ×2
Motors	Feed motor	kW	X:AC 0.75×2 Z:AC 0.75×2	X:AC 0.4×2 Z:AC 0.75×2		Z:AC 1.2×2
ğ	Coolant motor	kW	AC 0.18 ×2	AC 0.25×2		25×2
Ž	Hydraulic motor	kW	_	_	AC O.	75×2
	Power tools motor	kW		_	_	AC 2.5
Φ	L×W×H	mm	1,000 (1,300*5) ×2,000×1,500	1,040 (1,340*5) ×2,120×1,500	1,720 (2,000*5) ×1,825×1,975 (2,500*5)	1,720 (2,140*5) ×1,825×2,000 (2,525*5)
Size	Machine weight	kg	2,700	3,400	4,500	5,500
	Total electric capacity	KVA	20	20 (23*4)	29 (36: AC 7.5/5.5)	31 (37: AC 7.5/5.5)

(): Option

Standard Accessories

Item	XW-30	XW-30 _{PLUS}	XW-80	XW-80м		
□Tool holder	450	ets	_	_		
☐Boring holder	_	_	4se	ets		
□0.D. holder	_	-	4se	ets		
☐TAKAMAZ collet chuck	(Opt	ion)	1s	set		
□Collet flange	1set (T	Z650)	1s	et		
☐Hydraulic chucking cylinder	_	(Option)	1s	lset		
☐Air chucking cylinder	1set —					
☐TAKAMAZ loader system	1 unit					
☐Spindle indexer		_		1set (Cs-axis)		
□Power tools drive unit		_		lset		
☐Spindle cooling device※		1 9	set			
☐Thread cutting unit(Including constant surface speed control)		19	set			
☐Front air blower	1set			tion)		
□Coolant unit	1set (140ℓ)	1set (160ℓ)	1set (2	1set (260ℓ)		
□Work light	(Option) 1 set			et		
☐Service tool kit	·	18	set			
☐TAKAMAZ Instruction manual		19	set			

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

Optional Accessories

ltem	XW-30	XW-30 _{PLUS}	XW-80	ХW-80 м			
□Tool holders							
□Collet chucks		()				
☐Hydraulic chucks	-	_					
☐Chuck clamp detector(with restrictions depending on the cylinder)							
☐High-speed loader system	(_	_			
☐Spindle indexing device	Electrica / Mechanical						
□Power tools		0					
☐Rear chip conveyor(Floor type/Spiral type)	0						
☐Front air blower	(Star	ndard)					
☐Rear air blower							
☐Rear coolant unit		(
□Work light	((Standard)					
☐Signal light(1-color/2-color/3-color)	0						
☐Automatic fire extinguisher	0						
☐Automatic power shut-off device		()				
□Special color							
□Others*	·)	·			

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

 ^{*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 chucking cylinder type.
 *4 The value when the hydraulic unit is mounted.
 *5 When the loader is mounted.

Machine Specifications

	Item	Unit	XW-130	XW-130 _м	XW-200
>	Optimum turning size	mm	φ150	φ200	φ200
Capacity	Max. turning diameter	mm	φ280	φ320	φ320
90	Max. turning length	mm	155	220	220
Ö	Chuck size	inch	Collet	,8 ×2	10×2
	Spindle nose	JIS	Aa	- 6	A2-8
Φ	Spindle bearing I.D.	mm	<i>φ</i> 1	00	φ120
귤	Through-hole on spindle	mm	Φθ		φ80
Spindle	Spindle speed	min-1	Max.4	1,000	Max.2,800
ഗ	Spindle indexing		_	C-axis	_
		deg./min		18,000	<u> </u>
Ħ	Type		8-station turret×2	10-station turret×2	8-station turret×2
ő	Tool shank	mm		25	□25
=	Tool shank Boring holder I.D. Max. stroke		φ40		φ40
Ö	Max. stroke	mm	X:150 Z:160	X:170 Z:220	X:170 Z:220
	Rapid traverse rate	m/min	X:24		X:24 Z:24
<u>ග</u>	Tool storage capacity	pcs.	_	10 (One side)	_
6	Max. rotaring speed	min-1		Max.4,000	_
Œ.	<u>Drill</u>	mm	_	φ16	_
Power tools	Capacity <u>Endmill</u>	mm	_	φ16	-
ш	Тар	mm		M4~M10	_
	Spindle motor	kW	AC 11/		AC 18.5/15×2
Motors	Feed motor	kW		Z:AC 1.8×2	X:AC 1.2×2 Z:AC 1.8×2
ť	Coolant motor	kW	AC 0.2		AC 0.25 ×2
Ž	Hydraulic motor	kW	AC 0.7		AC 0.75 ×2
	Power tools motor	kW	_	AC 3.7/2.2	_
ø	L×W×H	mm	1,890 (2,250*) ×2,140×2,050 (2,925*)	1,990 (2,350*) ×2,330×2,100 (3,080*)	1,990 (2,350*) ×2,330×2,100 (3,080*)
Size	Machine weight	kg	5,600	6,900	6,900
	Total electric capacity	KVA	44	47	62

^{*} When the loader is mounted.

Standard Accessories ■

Item	XW-130	XW-130м	XW-200		
☐Boring holder	4sets				
O.D. holder		4sets			
☐Hydraulic chucks		1set			
☐Hydraulic chucking cylinder		1set			
Chuck clamp detector (with restrictions depending on the cylinder)	(Option)	1 set			
□TAKAMAZ loader system		lunit			
□Spindle indexer	_	1set (C-axis)	_		
□Power tools drive unit	-	1 set	_		
□Spindle cooling device※	lset				
☐Rear chip conveyor(Floor type / Spiral type)	(Option) Floor Type				
☐Thread cutting unit(Including constant surface speed control)	lset				
□Coolant unit 1set (160ℓ) 1set (200ℓ)		(2001)			
□Work light	1set				
☐Service tool kit	1 set				
□TAKAMAZ Instruction manual	1 set				

[※] Oil Temperature Control Type is available as an option.

Optional Accessories

Item	XW-130	XW-130м	XW-200	
□Tool holders		0		
□Collet chucks	(_	
Chuck clamp detector(with restrictions depending on the cylinder)	0	(Star	ndard)	
☐Spindle indexing device		Electrica / Mechanical		
□Power tools	_	0	_	
☐Rear chip conveyor(Floor type / Spiral type)	0	(Standard : Floor type)		
☐Front air blower		0		
□Rear air blower	0	-	_	
☐Rear coolant unit		0		
☐Signal light(1-color/2-color/3-color)		0		
☐Automatic fire extinguisher		0		
☐Automatic power shut-off device	0			
□Special color		0		
□Others*		0		

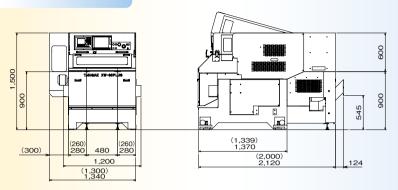
^{*} For more information on attachments, consult our sales representative.

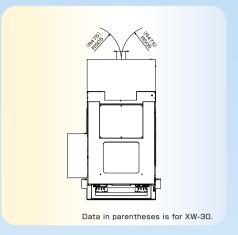
SPECIFICATION

Item	XW-30	XW-30PLUS	XW-80	XW-80M	XW-130	XW-130 _M	XW-200
Controlled axes	TAKAMAZ & MITSUBISHI M70 T.	2axes(X,Z) ×2	IAKA	MAZ & FANUC	2axes(X,Z) ×2	TAKAMAZ & Saxes(X,Z,C) ×2	2axes(X,Z) ×2
Simultaneously controllable axes	Simi	ultaneous 2 axes ×2	2			Simultaneous 3 axes ×2	
Least input increment	0.0001mm(X	in diameter)		0.0	001mm (X in diame	eter)	
Least command increment	X:0.00005mm	Z:0.0001mm		X:C	0.0005mm Z:0.00	1 mm	
Auxiliary function				M-code 3 digit			
Spindle function	S-code 5 digit			S-code	e 4 digit		
Tool function	T-code 2	2 digit			T-code 4 digit		
Tape code			EIA(RS232C)	/ISO(840)automa	atic recognition		
Cutting feedrate				1~5,000mm/min	1		
Command system			In	icremental/Absolu	ıte		
Linear interpolation				G01			
Circular interpolation				G02,G03			
Cutting feedrate override				0~150%			
Rapid traverse override				F0,100%			
Program number	Program file name			4 digit		Program file nam	e 32 characters
Backlash compensation	0~99999				0∼9999µm		
Program memory capacity		500Kbyte(1,280m)			2,560m)(Dual syst		
Tool offsets	80sets(Dual sy				sets (Dual systems		
Registered programs	400pcs.(Dual systems total) 1,	,,000pcs.(Dual systems total)			pcs.(Dual systems	total)	
Tool geometry / Wear offset				Standard			
Canned cycle	1			G90,G92,G94			
Radius designation on arc	1			Standard			
Tool offset measurement input				Standard			
Background editing	1			Standard			
Direct drawing dimension programming				Standard			
Custom macro			"10	Standard	"		
Additional custom macro common variables	Others desigl/Essained	lant Franctions	#10	0~#199,#500~;			
Pattern data input	Standard (Equivale	ent Functions)		040 041 040	Standard		
Nose R compensation				G40,G41,G42			
Inch / Metric conversion				G20/G21			
Programmable data input	Ottom double (For this call	(ant Franchisms)		G10	Ottomaloud		
Run hour / Parts count display	Standard (Equivale	ent Functions)		Ctondord	Standard		
Extended part program editing				Standard G70~G76			
Multiple repetitive cycle				Pocket-shaped			
Multiple repetitive cycle II Canned drilling cycle				Standard			
Chamfering / Corner R	Stand	lard		Stariuaru	(Option)		
Constant surface speed control	Stariu	.aru		G96,G97	(Option)		
Continuous thread cutting				G32			
Variable lead thread cutting				G34			
Thread cutting retract				Standard			
Clock function				Standard			
Help function				Standard			
Alarm history display	512p	ics		o tanaara	50pcs.		
Self-diagnosis function	012p	00.		Standard	Сорос.		
Sub-program call	Up to 8	loons		o tanaara	Up to 10 loops		
Decimal point input		.0000		Standard	Op 10 10 100p0		
2nd reference point return				G30			
Work coordinate system setting				G50,G54~G59			
Rigid tapping			_			For Power Tools only	_
Polar coordinate interpolation		_		Standard	_	Standard	_
Cylindrical interpolation				Standard	T -	Standard	_
Stored stroke check 1				Standard	1		
Input/Output interface		-	N.	Memory card,Ethern	net		
Input / Output interface(RS232C)		Standa				(Option)	
Input/Output interface(USBFlash Memory)	_			Star	ndard*		
Alarm message				Standard			
Graphic display(FANUC)							
Graphic trace(MITSUBISHI)				Standard			
Spindle orientation				(Option)			
G code guidance	Stand	lard			_		
Simple programming function(FANUC)	011	lord					
NAVI LATHE(MITSUBISHI)	Stand	aru			_		
NAVI LATHE (WITT SUBISHI)	O+=1	lord	(0	tion)			
	Stand	aru	(Up	tion)		_	
Dynamic graphic display(FANUC)					(Option)		
Dynamic graphic display(FANUC) Graphic check(MITSUBISHI)	Stand	lard			(Max. 3:Option)		
Dynamic graphic display(FANUC) Graphic check(MITSUBISHI) Tool life management Multiple M codes in one block					(IVIAX. S.UDLIUIT)		
Dynamic graphic display(FANUC) Graphic check(MITSUBISHI) Tool life management	Stand	. 3			Standard		
Dynamic graphic display(FANUC) Graphic check(MITSUBISHI) Tool life management Multiple M codes in one block	Stand Max.	. 3					
Dynamic graphic display(FANUC) Graphic check(MITSUBISHI) Tool life management Multiple M codes in one block Conversational programming with graphic function Abnormal load detection	Standa Max.	. 3			Standard	Standard	
Dynamic graphic display(FANUC) Graphic check(MITSUBISHI) Tool life management Multiple M codes in one block Conversational programming with graphic function	Standa Max.	.3	-	_	Standard	Standard Standard	
Dynamic graphic display(FANUC) Graphic check(MITSUBISHI) Tool life management Multiple M codes in one block Conversational programming with graphic function Abnormal load detection Manual handle trace	Stand Max. —	.3	-	-	Standard		
Dynamic graphic display(FANUC) Graphic check(MITSUBISHI) Tool life management Multiple M codes in one block Conversational programming with graphic function Abnormal load detection Manual handle trace Automatic data backup Automatic screen deletion function	Stand Max. —	dard	-		Standard	Standard Standard	
Dynamic graphic display(FANUC) Graphic check(MITSUBISHI) Tool life management Multiple M codes in one block Convestional programming with gaphic function Abnormal load detection Manual handle trace Automatic data backup	Stand	dard	-		Standard Standard	Standard Standard	

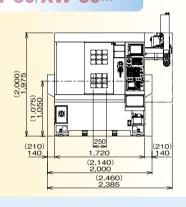
FLOOR SPACE

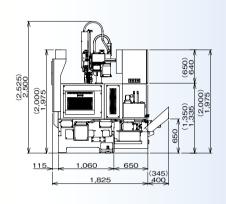
XW-30/XW-30PLUS

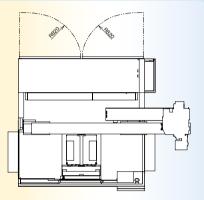


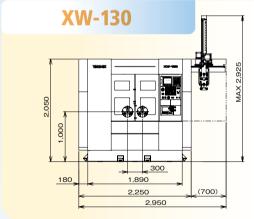


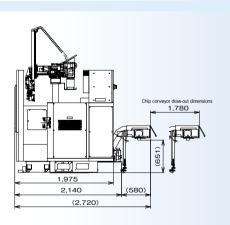
XW-80/XW-80M

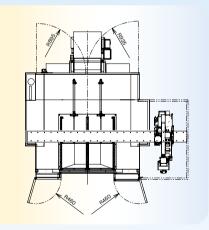




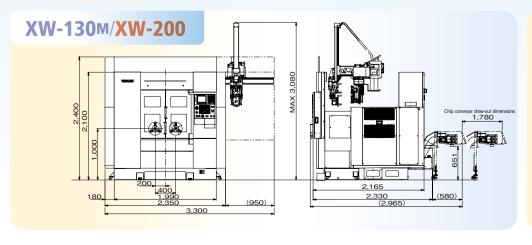


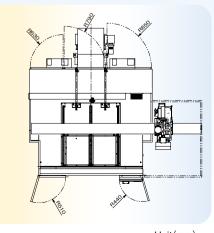






Date in parentheses is for XW-80M.





Unit(mm)



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