

# FX-1500 FX-2000 Series

FX-1500/FX-1500M2/FX-1500Y/FX-1500Y2  
FX-2000/FX-2000M2/FX-2000Y/FX-2000Y2

CNC Turning Center

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# FX-1500 FX-2000 series

The configuration of the new generation FX-1500, FX-2000 series dual-turret, dual-spindle multi-tasking center is various.

The upper and lower turrets can be individually selected for Y-axis or milling functions. The bed is slanted with a 60-degree angle, and through finite element analysis (FEA) and practical experience design, which shown a better ability to suppress thermal displacement, remove chips, and reduce the floor space requirement.

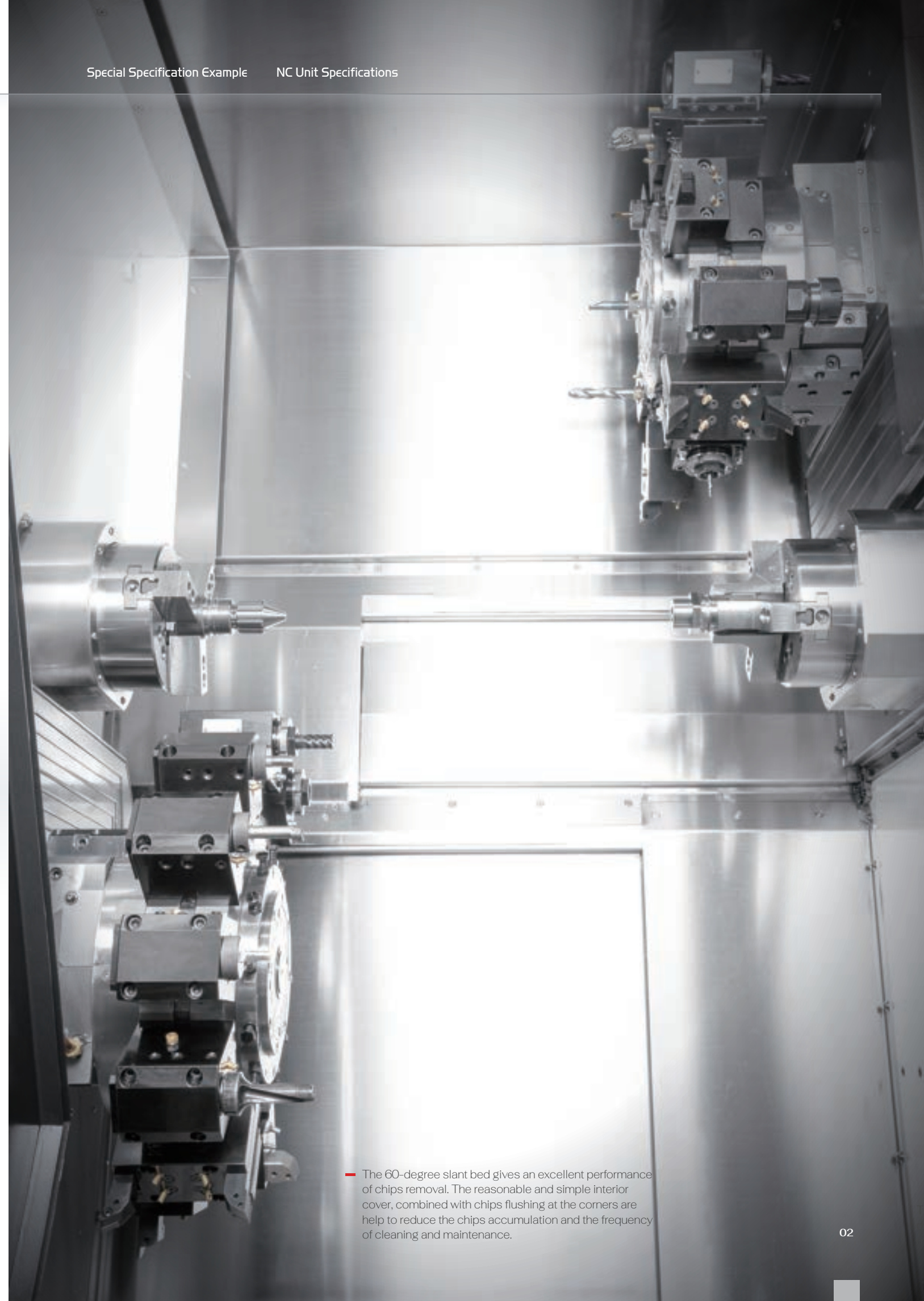
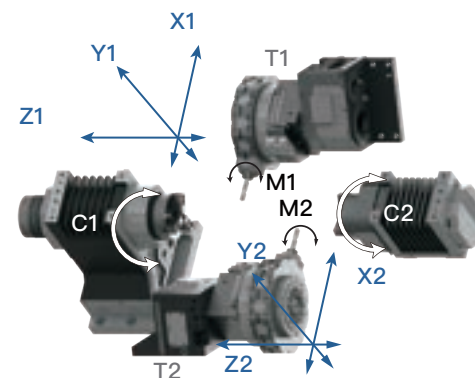
The flexibility of tool position and processing sequence is improved with the both of the upper and lower Y-axes' configuration.



## 01 Specification Options

	FX-1500 FX-2000	FX-1500M2 FX-2000M2	FX-1500Y FX-2000Y	FX-1500Y2 FX-2000Y2
C1-Axis	-	●	●	●
C2-Axis	-	●	●	●
M1-Axis	-	●	●	●
M2-Axis	-	●	●	●
Y1-Axis	-	-	●	●
Y2-Axis	-	-	-	●

● Standard - Nope

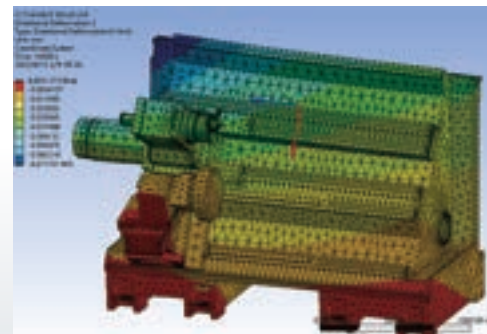
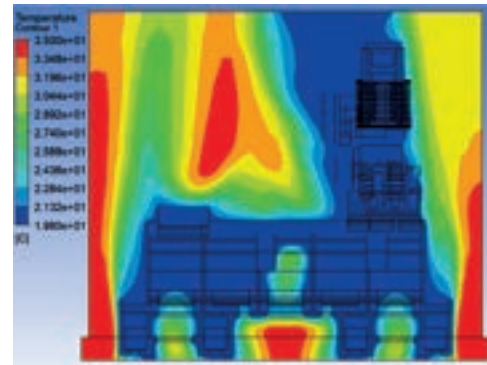
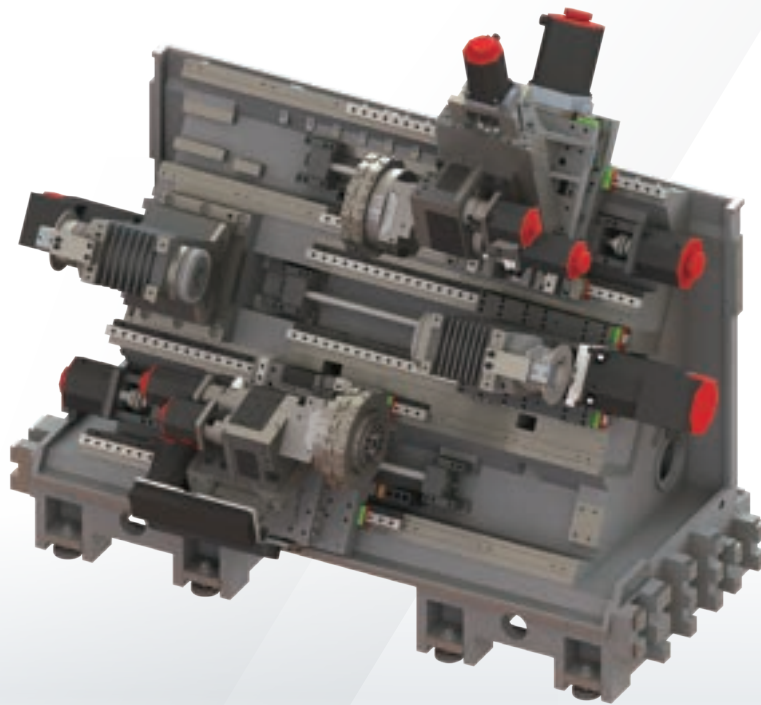


— The 60-degree slant bed gives an excellent performance of chips removal. The reasonable and simple interior cover, combined with chips flushing at the corners are help to reduce the chips accumulation and the frequency of cleaning and maintenance.



## 02 Workpiece Size

	FX-1500 Series	FX-2000 Series	
Max. Turning Diameter	220	220	mm
Max. Turning Length	537	509	mm
Max. Bar Work Capacity Diameter	42 / 42	52(65) / 42(52)	mm

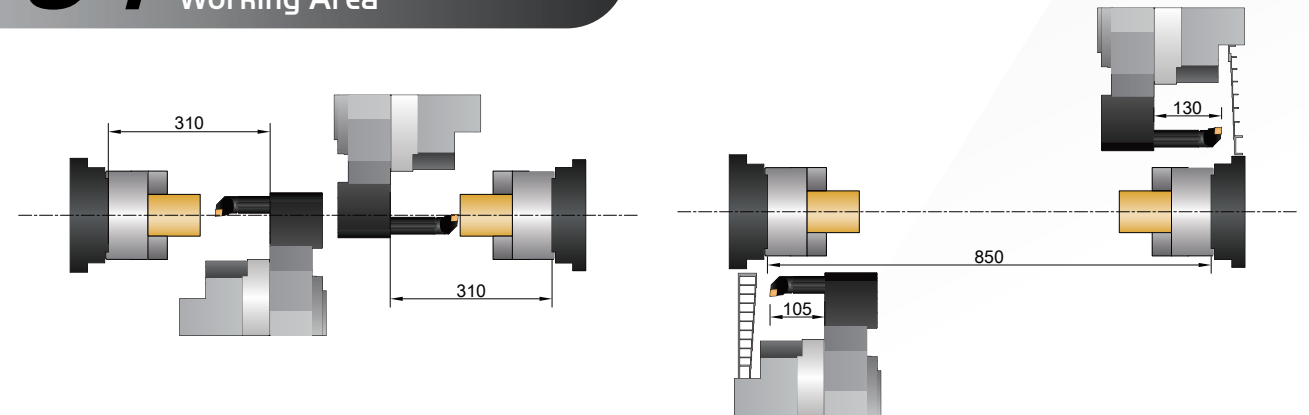


— TAIWAN TAKISAWA is aimed at the basic research of machinery. Through finite element analysis (FEA), adjusting the thickness of the structural casting and the configuration of ribs, to achieve higher rigidity and outstanding thermal deformation performance.

## 03 Travel & Rapid Traverse

	FX-1500 FX-2000	FX-1500M2 FX-2000M2	FX-1500Y FX-2000Y	FX-1500Y2 FX-2000Y2	
X1/X2-Axis Travel	160 / 160	160 / 160	160 / 160	160 / 160	mm
X1/X2-Axis Rapid Traverse	24 / 24	24 / 24	24 / 24	24 / 24	m / min
Z1/Z2-Axis Travel	565 / 565	565 / 565	565 / 565	565 / 565	mm
Z1/Z2-Axis Rapid Traverse	40 / 40	40 / 40	40 / 40	40 / 40	m / min
Y1/Y2-Axis Travel	- / -	- / -	±45 / -	±45 / ±35	mm
Y1/Y2-Axis Rapid Traverse	- / -	- / -	8 / -	8 / 8	m / min
B-Axis Travel	650	650	650	650	mm
B-Axis Rapid Traverse	40	40	40	40	m / min

## 04 Working Area



## 05 Simultaneous Turning and Milling with Upper and Lower Turret



— Both of the upper and lower turret can individually proceed with milling and drilling on the single side spindle at the same time, which means the configuration is flexible for tool positioning between both of turrets. In this case, it can short idle times and improve productivity.



# Spindle

Since the spindle is made in-house, there is no doubt about the quality and reliability.

The design of the headstock body had a symmetry, which is reducing the thermal deformation influence of machining accuracy. The spindle is driven by a belt, that is the most economical and simple for maintenance.

There are various options open to spindle. For the main spindle, there are 3 specifications of the through-hole diameter: Ø56, Ø63, and Ø76; for the sub-spindle, are two specifications Ø56 and Ø63.

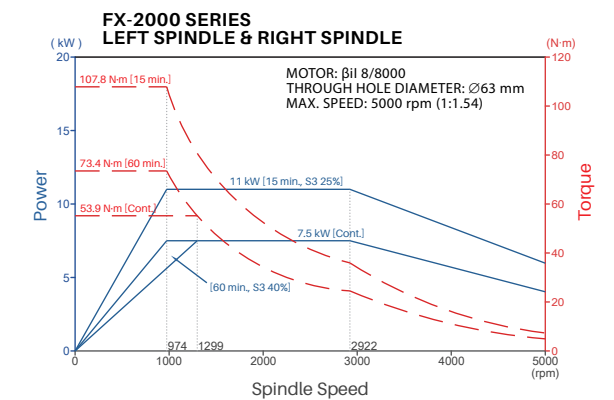
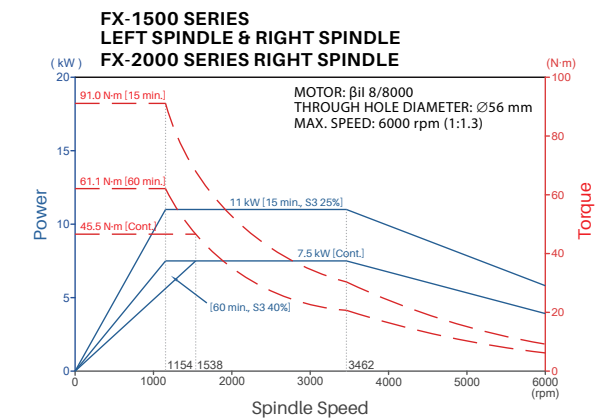
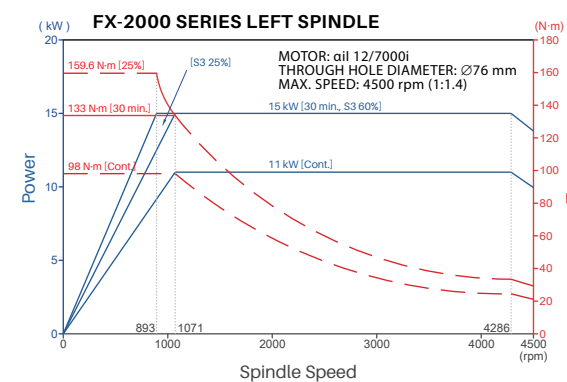
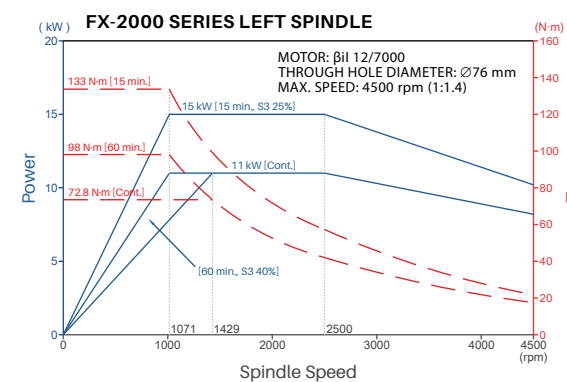
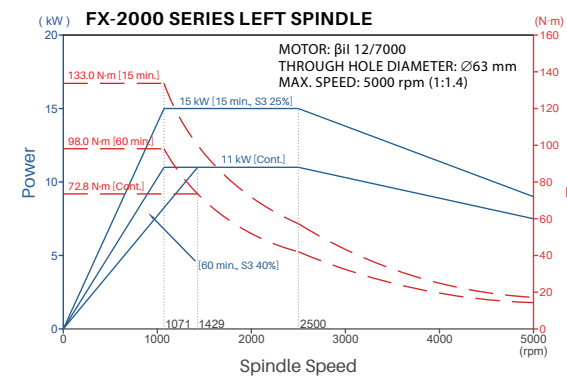


## Spindle Specification

	FX-1500 Series		FX-2000 Series	
	Left & Right Spindle	Left Spindle	Right Spindle	
Spindle Nose	FLAT140	A2-6	FLAT140(A2-6)	
Spindle Speed	6000	5000(4500)	6000(5000)	rpm
Through Hole Diameter	56	63(76)	56(63)	mm
Bearing Inside Diameter	80	100(110)	80(100)	mm
Motor Output	11 / 7.5	11 / 7.5(15 / 11)	11 / 7.5	kW
Max. Torque	91.0	107.8(133/159.6)	91(107.8)	N·m
Standard Chuck Size	6"	8"	6"(8")	



## Spindle Output Diagram





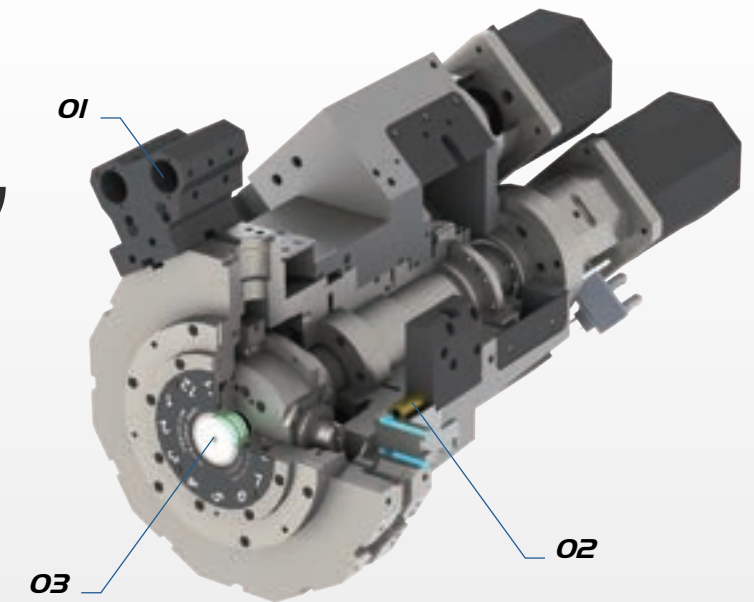
# Turret

High rigidity and high precision are characterized by the T12 milling turret of TAIWAN TAKISAWA. It can perform multiple and complex machining, such as, turning, milling, drilling, and tapping, etc., which improving the productivity and the machining accuracy. There is also a turning turret available as an option.

There are two types of tooling system available from TAIWAN TAKISAWA: STANDARD ER20, or BMT45.

## Turret Structure

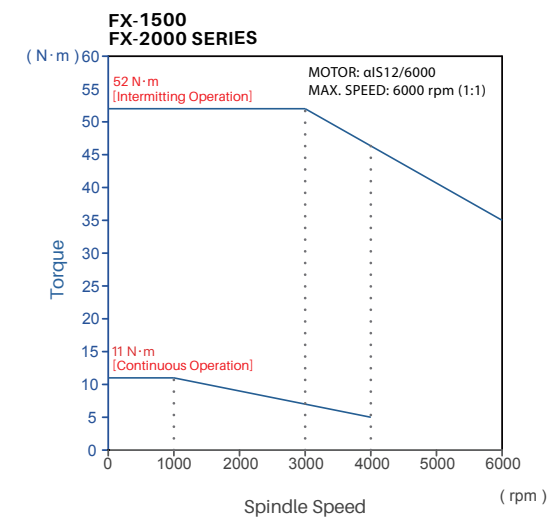
- 01** Each turret is installed with a 12-tool holder. It can install up to 48 tools with the upper and lower turrets, which contributing by the half tool positioning.
- 02** Ready for 70 bar hi-pressure coolant.
- 03** Easy to grease up.



## Turret Specification

	Standard Milling Turret	BMT45 Milling Turret	Standard Turning Turret	BMT45 Turning Turret	
Number of Tool Holder	12 / 12	12 / 12	12 / 12	12 / 12	
Number of Tool Index	24 / 24	24 / 24	24 / 24	24 / 24	
OD Tool Shank Dim.	20	20	20	20	mm
ID Tool Shank Dia.	32	32	32	32	mm
Milling Shank Dia.	-	-	13	16	mm
Milling Collet Type	-	-	ER20	ER25	
Milling Spindle Speed	-	-	6000	6000	rpm
Motor Output	-	-	2.2	2.2	kW
Max. Torque	-	-	52.0	52.0	N·m

## Spindle Output Diagram

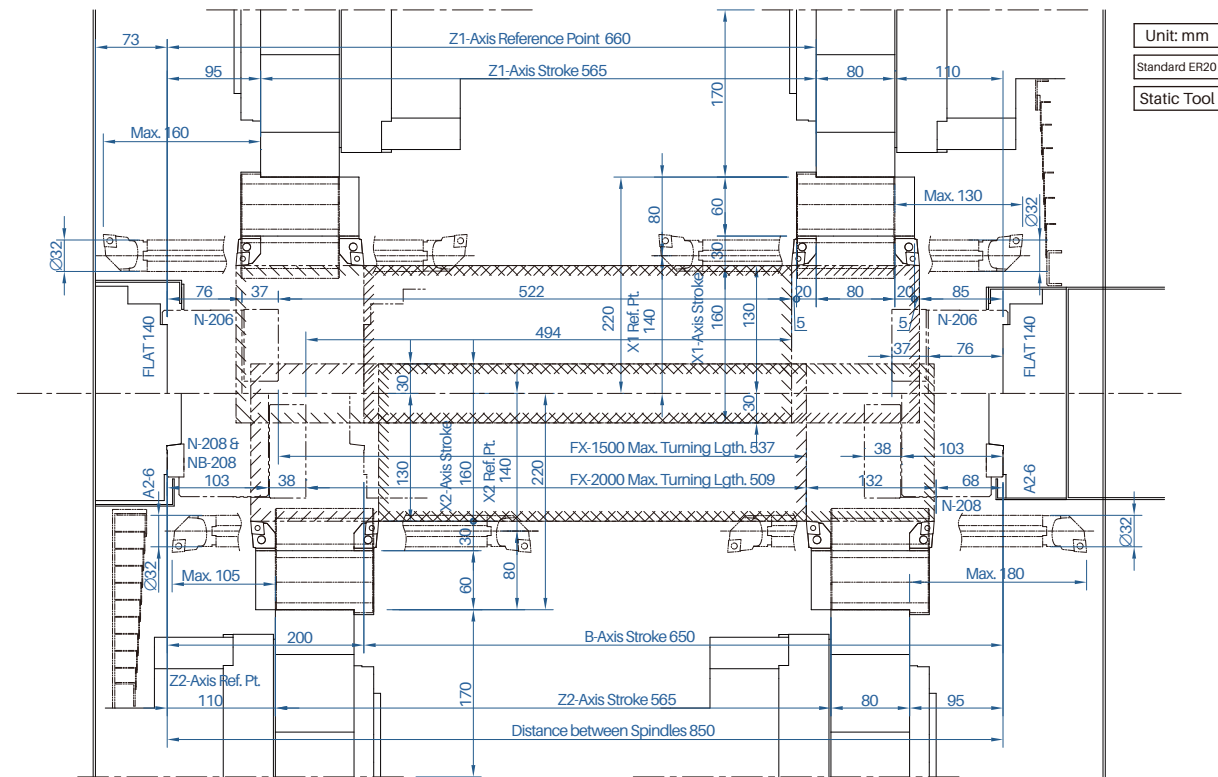


## Special Tool Holders



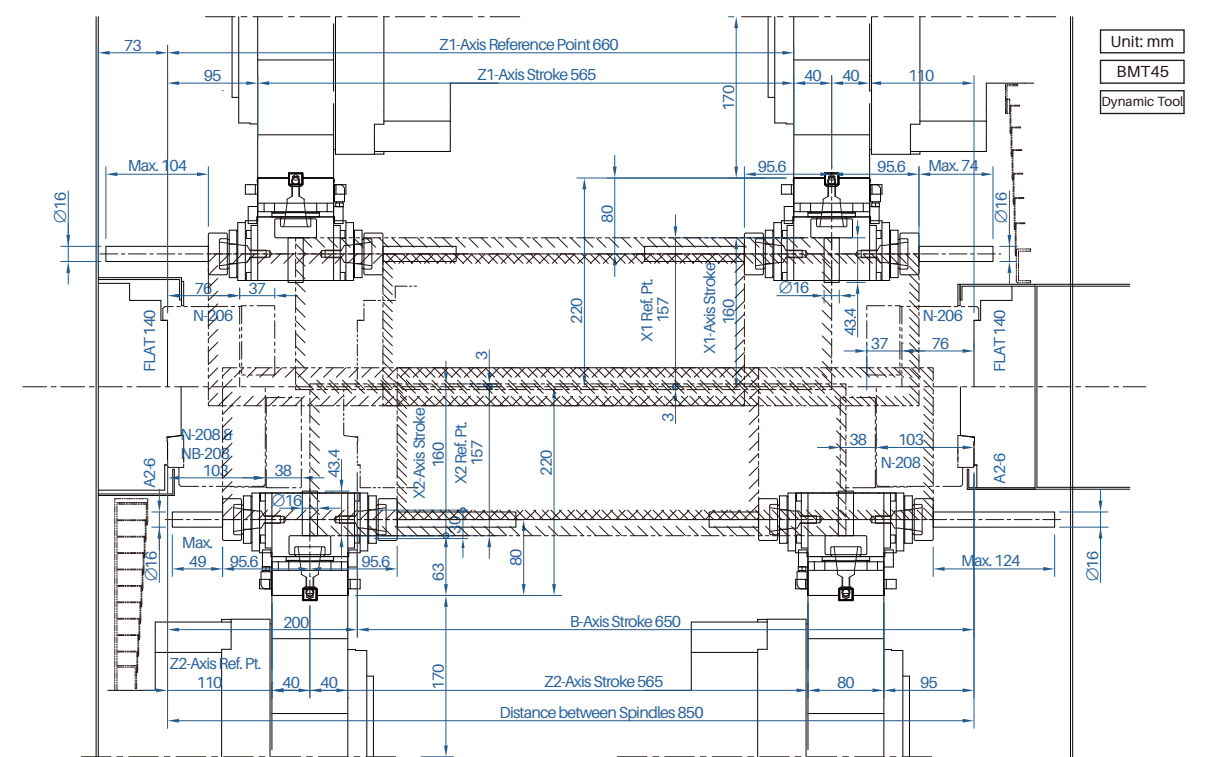
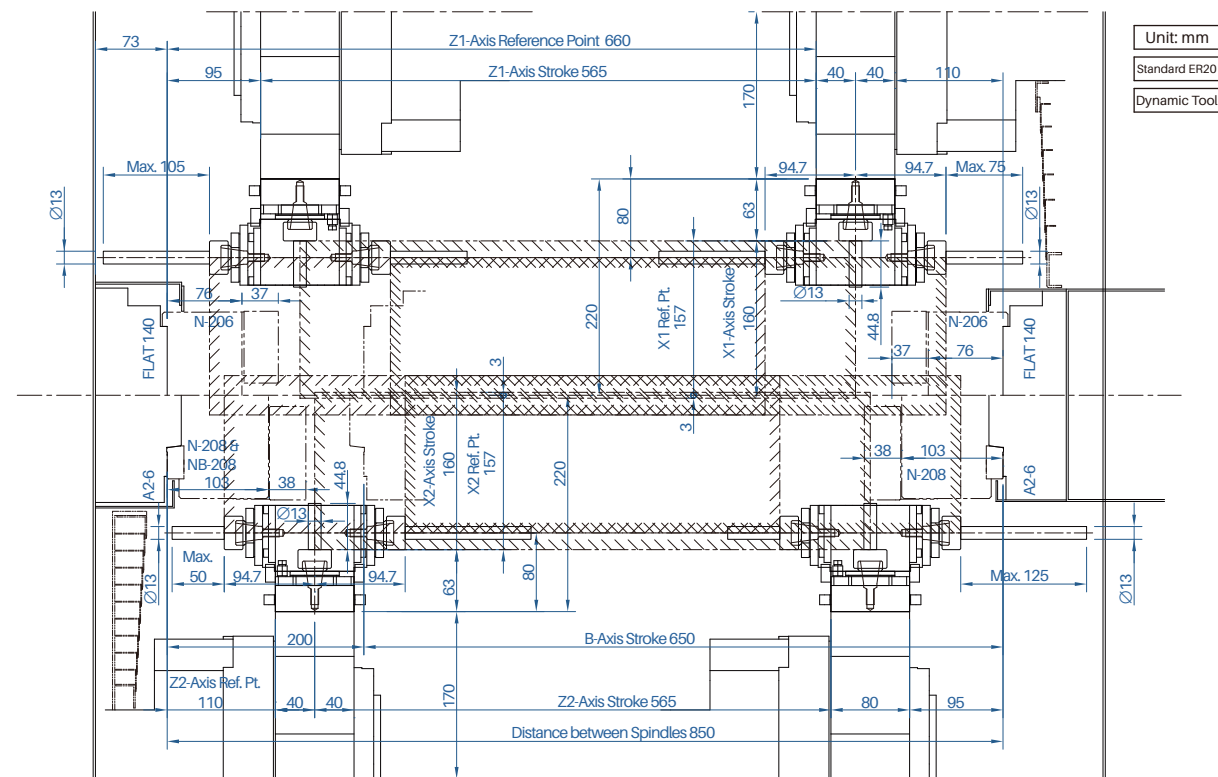
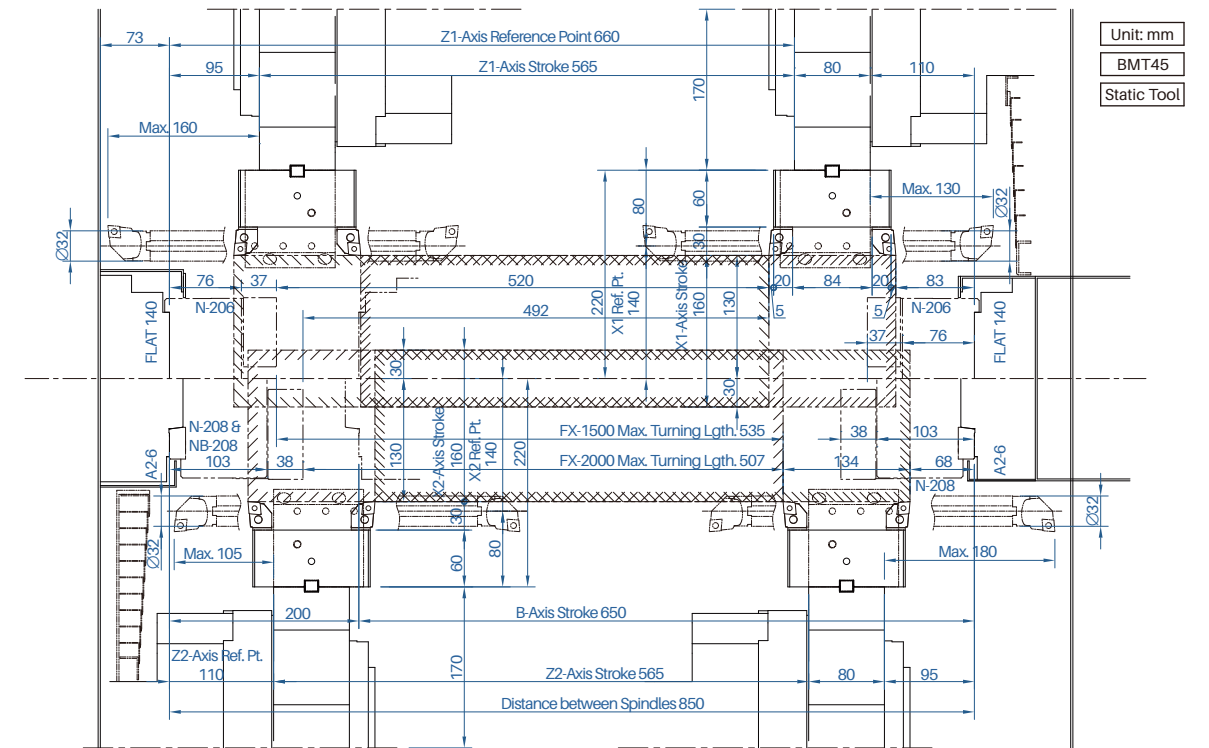
# Travel Range

## FX-1500 & FX-2000 Series Standard Turret



# Travel Range

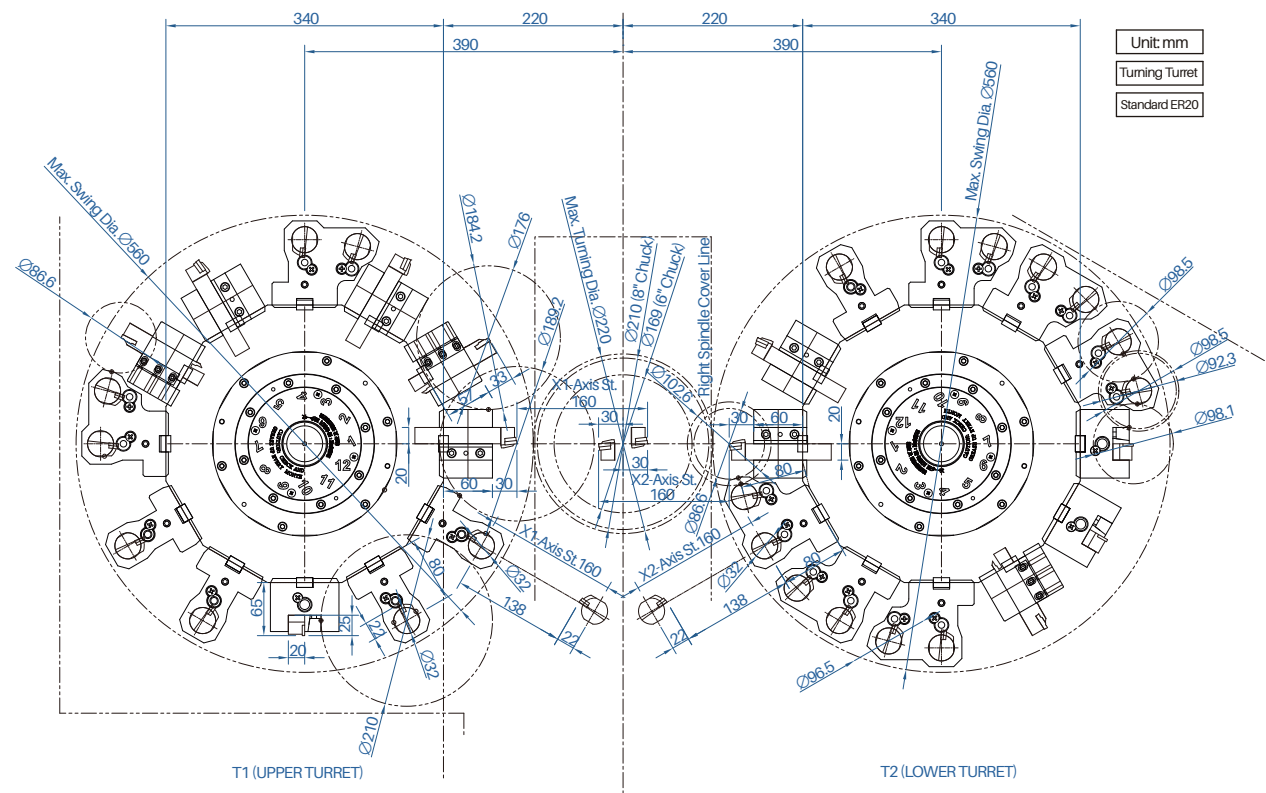
## FX-1500 & FX-2000 Series BMT45 Turret



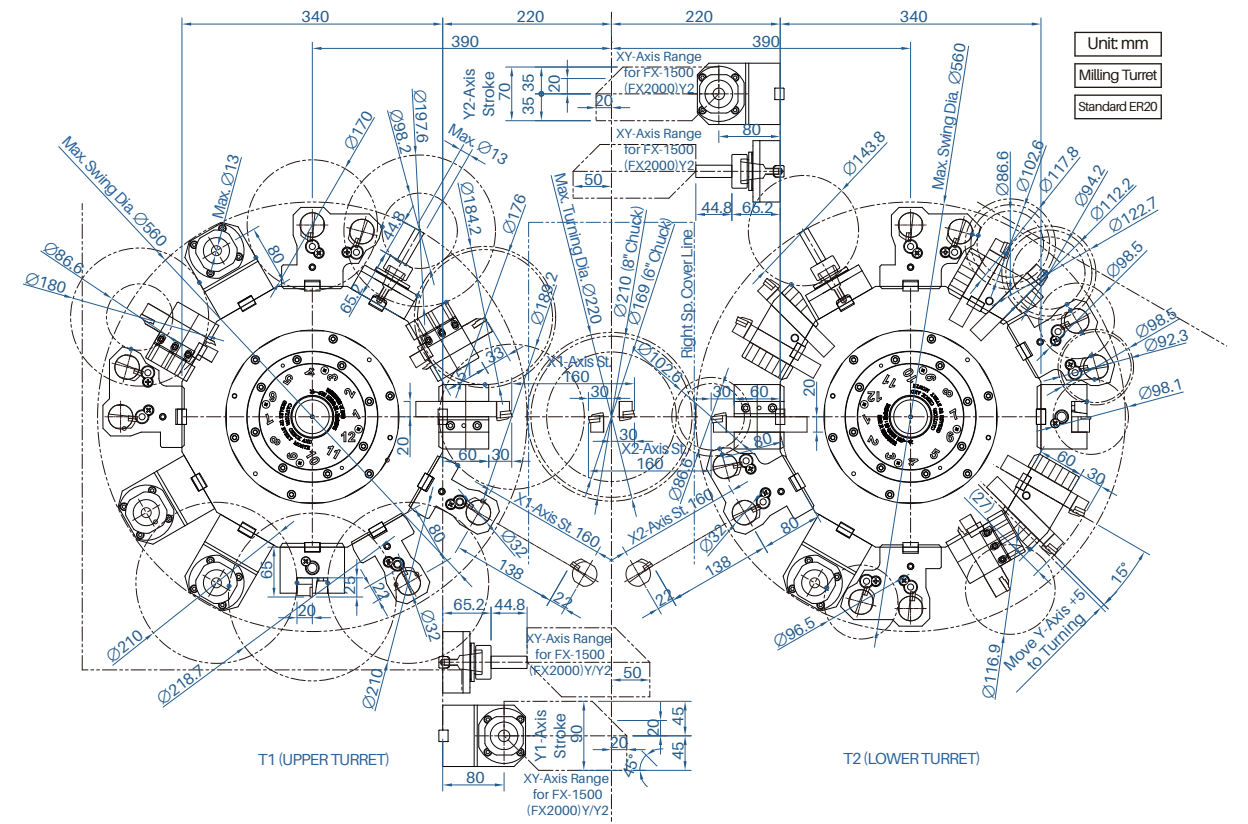


# Interference

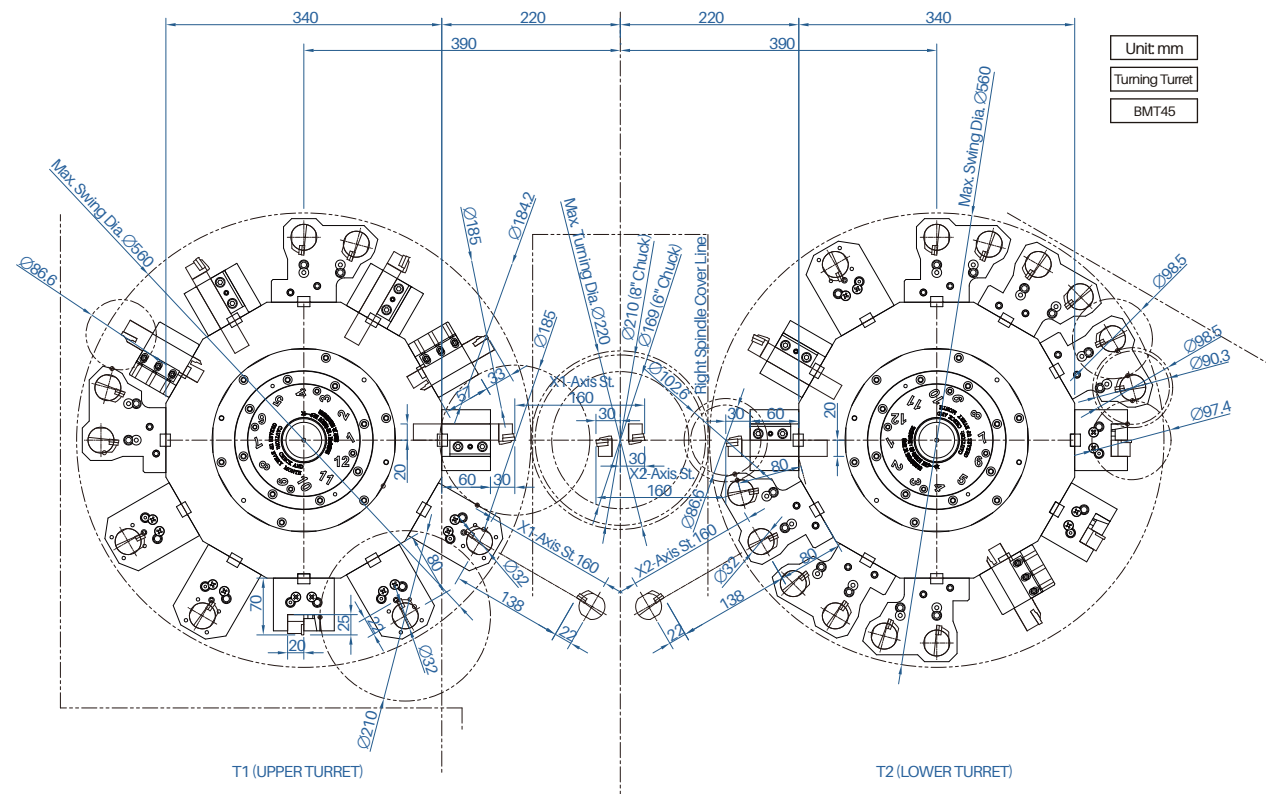
## FX-1500 Standard Turret



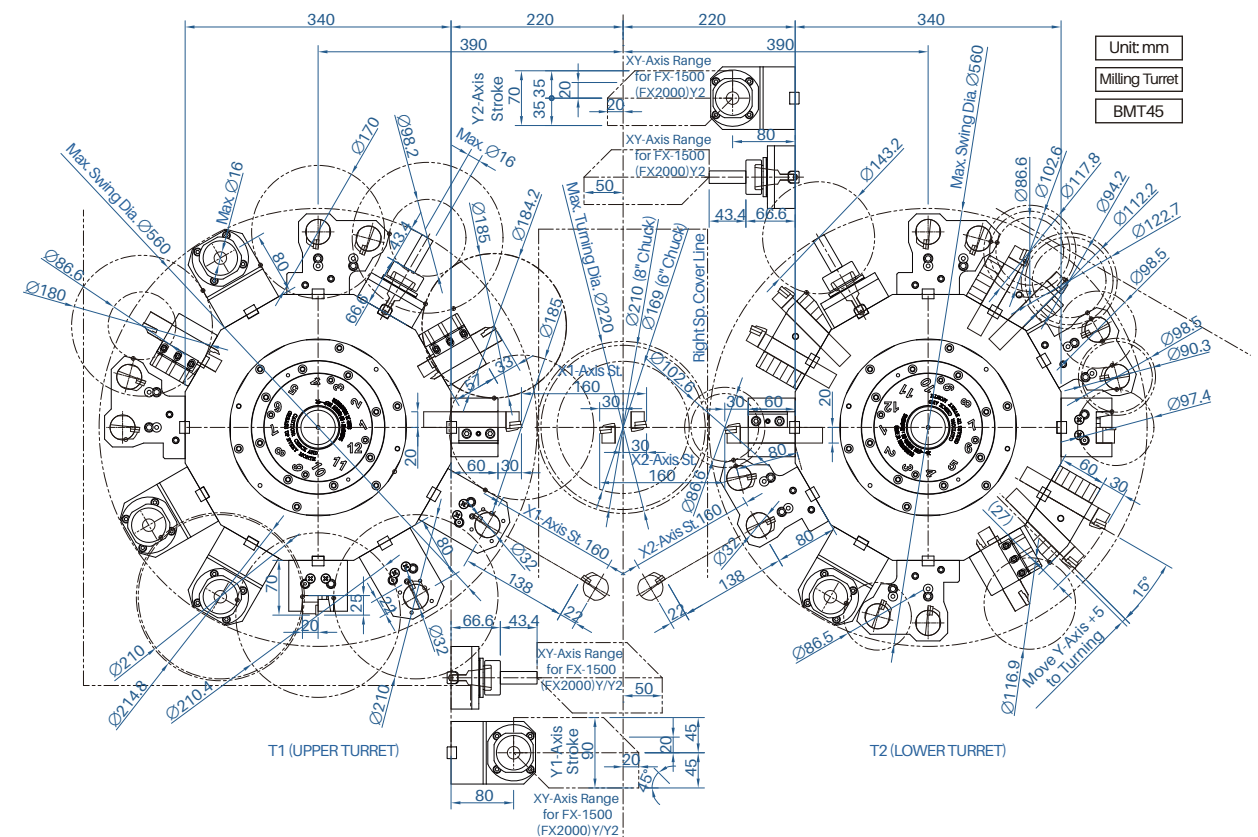
## FX-1500M2(Y/Y2) & FX-2000M2(Y/Y2) Standard Turret



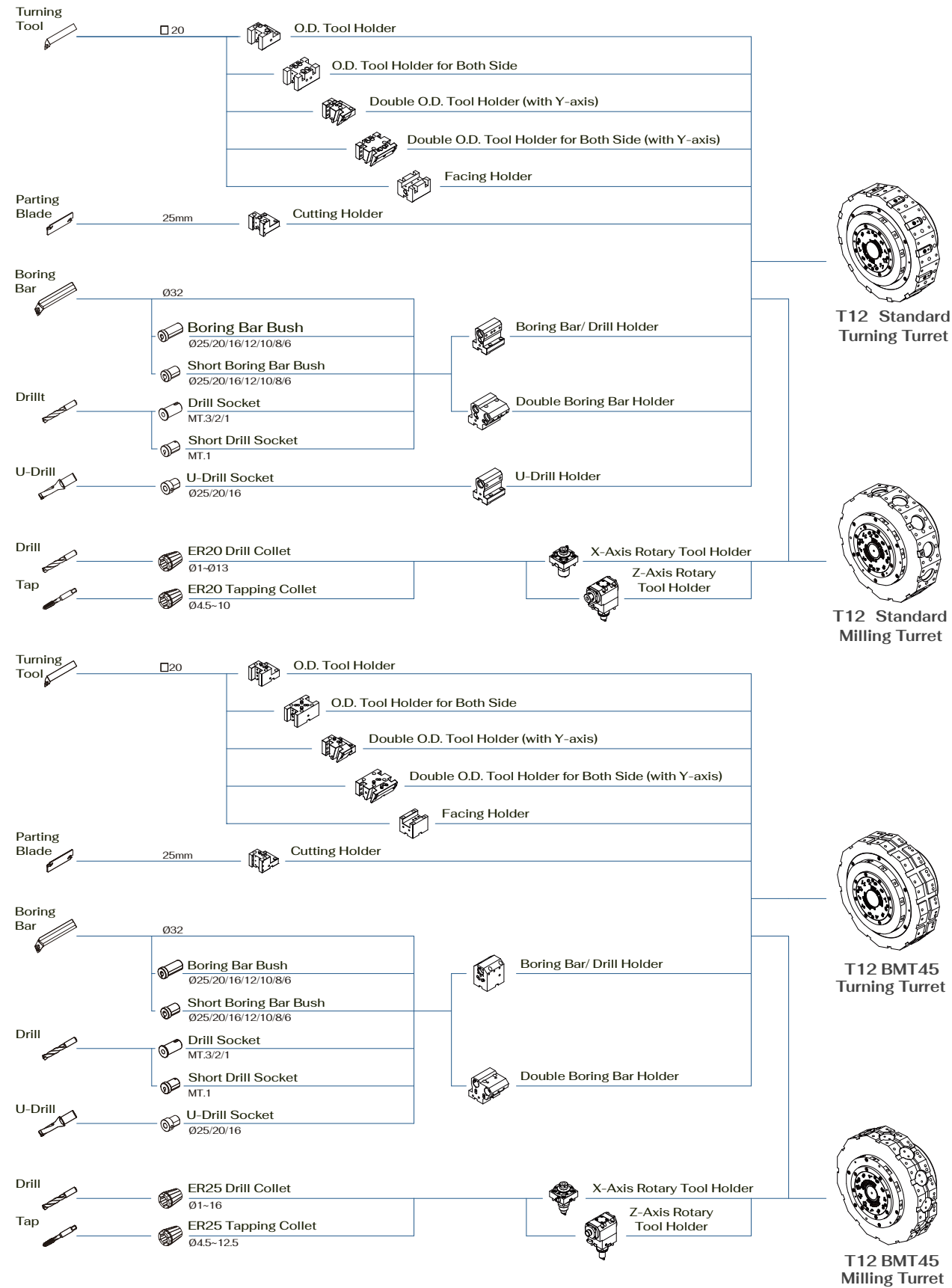
## FX-1500 BMT45 Turret



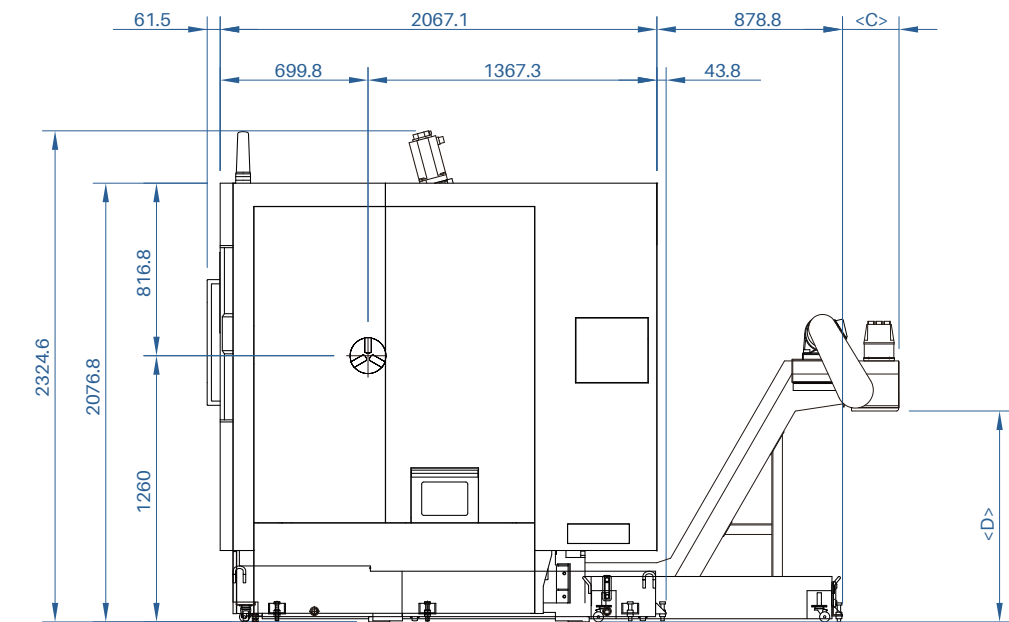
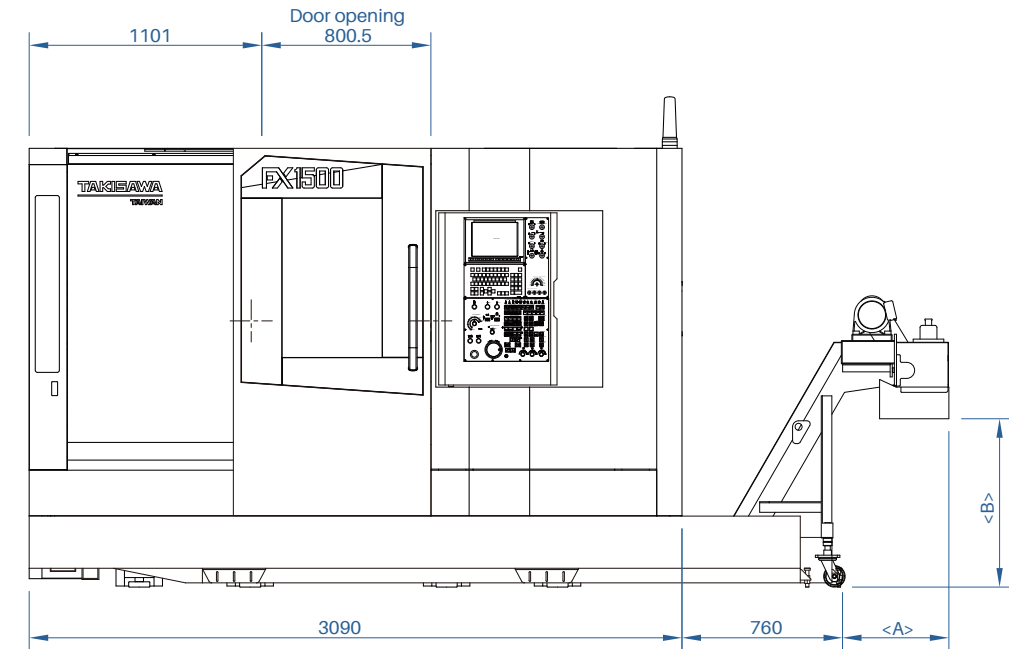
## FX-1500M2(Y/Y2) & FX-2000M2(Y/Y2) BMT45 Turret



# Tooling System



# Machine Dimensions



	RIGHT DISPOSAL		REAR DISPOSAL	
	A	B	C	D
Standard	504	922	270	873
CE · TS	504	797	270	873
ITA	754	1080	470	1070
USA	754	1230	470	1220



## Machine Specifications

Item		FX-1500	FX-1500M2	FX-1500Y	FX-1500Y2	
Capacity	Max. Swing	mm	220			
	Std. Turning Diameter	mm	220			
	Max. Turning Diameter	mm	220			
	Max. Turning Length	mm	537(Std. Turret) (535(BMT45 Turret))			
	Dist. Between Centers	mm	850			
Travel	X1 / X2 Axis Travel	mm	160/160			
	Z1 / Z2 Axis Travel	mm	565/565			
	Y1 / Y2 Axis Travel	mm	- / -	- / -	±45 / -	±45 / ±35
	B-Axis Travel	mm	650			
Left Spindle	Spindle Speed	rpm	6000			
	Spindle Nose		FLAT φ 140			
	Through Hole Dia.	mm	56			
	Max. Bar Work Capacity	mm	42			
	Bearing Diameter	mm	80			
Right Spindle	Spindle Speed	rpm	6000			
	Spindle Nose		FLAT φ 140			
	Through Hole Dia.	mm	56			
	Max. Bar Work Capacity	mm	42			
	Bearing Diameter	mm	80			
Turret	Tool System		Standard (BMT45)			
	Number of Tool Stations		12(12)			
	OD Tool Shank Dim.		20(20)			
	ID Tool Shank Dia.	mm	32(32)			
	Milling Shank Dia.	mm	13(ER20)(16(ER25))			
	Spindle Speed	rpm	6000(6000)			
Feedrate	X1 / X2 Axis Rapid Traverse	m/min	24 / 24			
	Z1 / Z2 Axis Rapid Traverse	m/min	40 / 40			
	Y1 / Y2 Axis Rapid Traverse	m/min	- / -	- / -	8 / -	8 / 8
	B-Axis Rapid Traverse	m/min	40			
Motor	Left Spindle Motor	kW	11 / 7.5(15 / 11)			
	Right Spindle Motor	kW	11 / 7.5			
	Milling Spindle Motor	kW	2.2			
	Index Motor	kW	1.2			
	X1 / X2 Axis Servo Motor	kW	3/3			
	Z1 / Z2 Axis Servo Motor	kW	2.5/2.5			
	Y1 / Y2 Axis Servo Motor	kW	- / -	- / -	1.4 / -	1.4 / 1.4
	B-Axis Servo Motor	kW	2.5			
Machine Size	Height	mm	2077			
	WxD (Right-disposal Chip Crv.)	mm	3850x2173			
	WxD (Rear-disposal Chip Crv.)	mm	3090x3008			
	Weight	kg	9200	9300	9400	9500

## Machine Specifications

Item		FX-2000	FX-2000M2	FX-2000Y	FX-2000Y2	
Capacity	Max. Swing	mm	220			
	Std. Turning Diameter	mm	220			
	Max. Turning Diameter	mm	220			
	Max. Turning Length	mm	509(Std. Turret) (507(BMT45 Turret))			
	Dist. Between Centers	mm	850			
Travel	X1 / X2 Axis Travel	mm	160 / 160			
	Z1 / Z2 Axis Travel	mm	565 / 565			
	Y1 / Y2 Axis Travel	mm	-	-	±45 / -	±45 / ±35
	B-Axis Travel	mm	650			
Left Spindle	Spindle Speed	rpm	5000(4500)			
	Spindle Nose		A2-6			
	Through Hole Dia.	mm	63(76)			
	Max. Bar Work Capacity	mm	52(65)			
	Bearing Diameter	mm	100(110)			
Right Spindle	Spindle Speed	rpm	6000(5000)			
	Spindle Nose		FLAT φ 140 (A2-6)			
	Through Hole Dia.	mm	56(63)			
	Max. Bar Work Capacity	mm	42(52)			
	Bearing Diameter	mm	80(100)			
Turret	Tool System		Standard (BMT45)			
	Number of Tool Stations		12(12)			
	OD Tool Shank Dim.		20(20)			
	ID Tool Shank Dia.	mm	32(32)			
	Milling Shank Dia.	mm	13(ER20)(16(ER25))			
	Spindle Speed	rpm	6000(6000)			
Feedrate	X1 / X2 Axis Rapid Traverse	m/min	24/24			
	Z1 / Z2 Axis Rapid Traverse	m/min	40/40			
	Y1 / Y2 Axis Rapid Traverse	m/min	- / -	- / -	8 / -	8 / 8
	B-Axis Rapid Traverse	m/min	40			
Motor	Left Spindle Motor	kW	11 / 7.5(15 / 11)			
	Right Spindle Motor	kW	11 / 7.5			
	Milling Spindle Motor	kW	2.2			
	Index Motor	kW	1.2			
	X1 / X2 Axis Servo Motor	kW	3 / 3			
	Z1 / Z2 Axis Servo Motor	kW	2.5 / 2.5			
	Y1 / Y2 Axis Servo Motor	kW	- / -	- / -	1.4 / -	1.4 / 1.4
	B-Axis Servo Motor	kW	2.5			
Machine Size	Height	mm	2077			
	WxD (Right-disposal Chip Crv.)	mm	3850x2173			
	WxD (Rear-disposal Chip Crv.)	mm	3090x3008			
	Weight	kg	9200	9300	9400	9500

## Standard and Optional Accessories

Accessories	FX-1500 FX-2000	FX-1500M2 FX-2000M2	FX-1500Y FX-2000Y	FX-1500Y2 FX-2000Y2
O.D. Tool Holder for Both Side	●	●	●	●
O.D. Tool Holder	◎	◎	◎	◎
Double O.D. Tool Holder for Both Side	-	-	◎	◎
Double O.D. Tool Holder	-	-	◎	◎
Face Tool Holder	●	●	●	●
Boring Bar Tool Holder (Only for Standard Turret)	●	●	●	●
Double Boring Bar Tool Holder (Only for Standard Turret)	◎	◎	◎	◎
U-Drill Tool Holder (Only for Standard Turret)	●	●	●	●
Boring Bar Tool Holder (Only for BMT45 Turret)	●	●	●	●
Double Boring Bar Tool Holder (Only for BMT45 Turret)	◎	◎	◎	◎
Boring Bar Bush	●	●	●	●
Short Boring Bar Bush	●	●	●	●
U-Drill Bush	●	●	●	●
Drill Bush	●	●	●	●
Short Drill Bush	●	●	●	●
X-Axis Milling Holder	-	●	●	●
Z-Axis Milling Holder	-	●	●	●
Manual Tool Setter	◎	◎	◎	◎
Linear Scales (X1-Axis, X2-Axis, Y1-Axis, Y2-Axis, Z1-Axis, Z2-Axis)	◎	◎	◎	◎
Coolant Pump for Turret (750W)	●	●	●	●
Coolant Pump for Turret (1100W)	◎	◎	◎	◎
Coolant Pump for Cover Flush(400W)	●	●	●	●
Coolant Pump for Cover Flush (750W, 1100W)	◎	◎	◎	◎
Coolant Chiller	◎	◎	◎	◎
Nut Cooling Ball Screw	◎	◎	◎	◎
Hydraulic System	●	●	●	●
Hydraulic Oil Cooling	◎	◎	◎	◎
Hydraulic Pressure Sensor	●	●	●	●
Lubrication System	●	●	●	●
Hydraulic Chuck	●	●	●	●
Collet Chuck	◎	◎	◎	◎
Foot Switch	●	●	●	●
LED Interior Light	●	●	●	●
LED TAKISAWA Light	●	●	●	●
LED Signal Tower	●	●	●	●
Chip Cart	●	●	●	●
Right Disposal Chip Conveyor	◎	◎	◎	◎
Rear Disposal Chip Conveyor	◎	◎	◎	◎
Parts Catcher	◎	◎	◎	◎
Parts Conveyor	◎	◎	◎	◎
Automatic Bar Feeder and Interface	◎	◎	◎	◎
Auto Door	◎	◎	◎	◎
Safety Door Switch	●	●	●	●
Safety Light Curtain	◎	◎	◎	◎
Air Blow	◎	◎	◎	◎
Oil Skimmer	◎	◎	◎	◎
Oil Mist Collector	◎	◎	◎	◎
Parts Counter	◎	◎	◎	◎
Automatic Power-Off	◎	◎	◎	◎

● Standard ◎ Optional - Nope

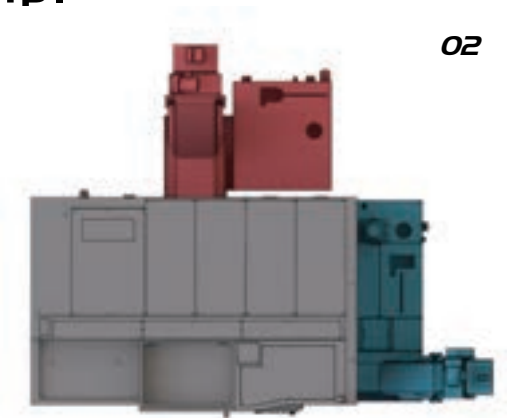
## Optional Accessories Example

### 01 Chip Conveyor Type

Depending on the part material and chip size, the hinge type or scraper type can be selected.

### 02 Chip Conveyor Configuration

Optional right disposal type or rear disposal type.



Hinge Type  
Chip Conveyor



Scraper Type  
Chip Conveyor



Chip Type	Curly Metallic Chip Steel / Aluminum	Power Metallic Chip Foundry / Aluminum / Brass	Non-Metallic
Hinge Type	○	×	○
Scraper Type	×	○	×

## Highly Accurate Optional Equipment

There are special requirements for precise machining accuracy and it is necessary to use approved high-precision optional equipment.



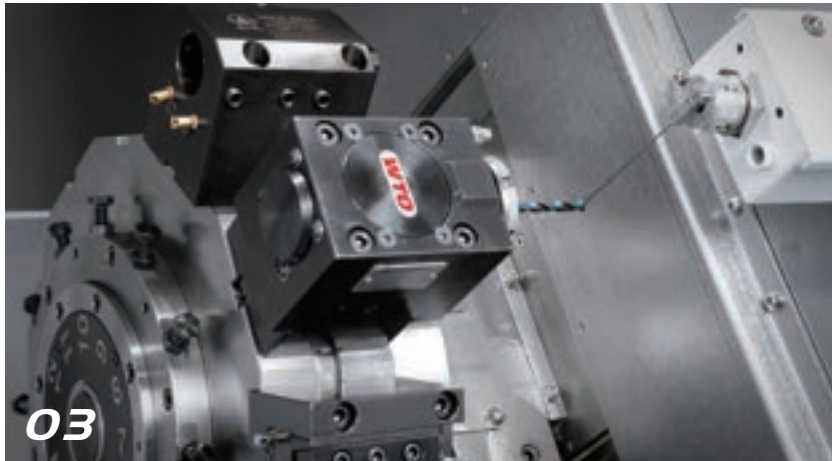
Please contact us for advice on these options.

- 01 Linear Scales
- 02 Automatic | Manual Tool Setter
- 03 Nut Cooling Ball Screw
- 04 Cutting Fluid Cooling
- 05 High Pressure Coolant
- 06 Hydraulic Oil Cooling





## Special Specification Example







**01** Parts Unloader

**02** Conveyor

Max. Parts Dia.	65	mm
Max. Parts Length	200	mm
Max. Parts Weight	3	kg

**03** Drill Breakage Detector

**04** Parts Pusher

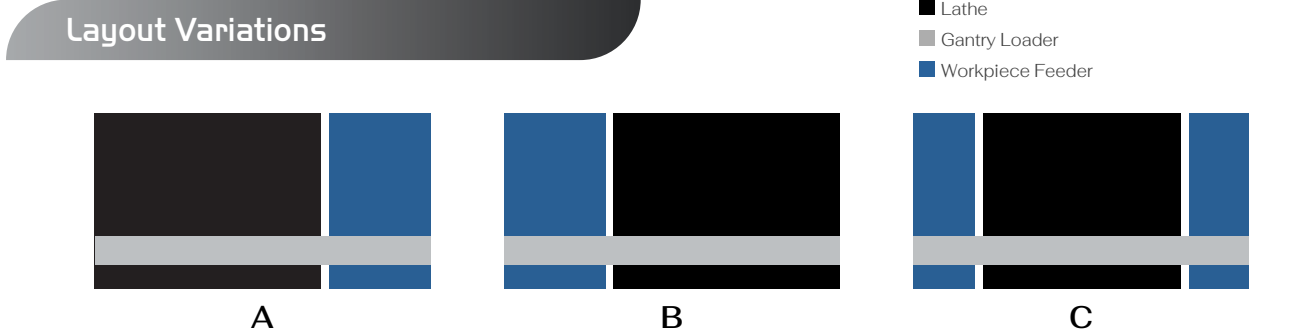
Pusher Stroke	95	mm
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**05** Parts Catcher

Max. Parts Dia.	65	mm
Max. Parts Length	180	mm
Max. Parts Weight	1	kg

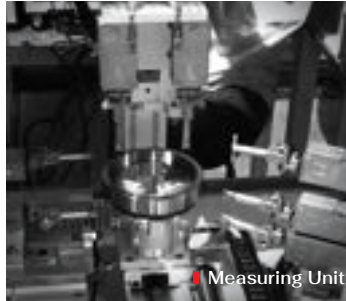
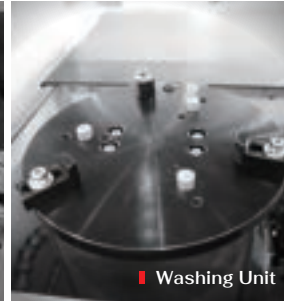
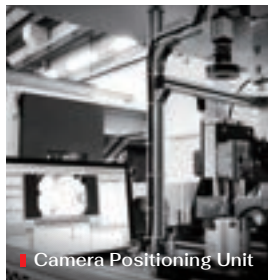

## High Speed Gantry Loader System

**Layout Variations**



Legend: ■ Lathe, ■ Gantry Loader, ■ Workpiece Feeder

**Peripheral Equipment**

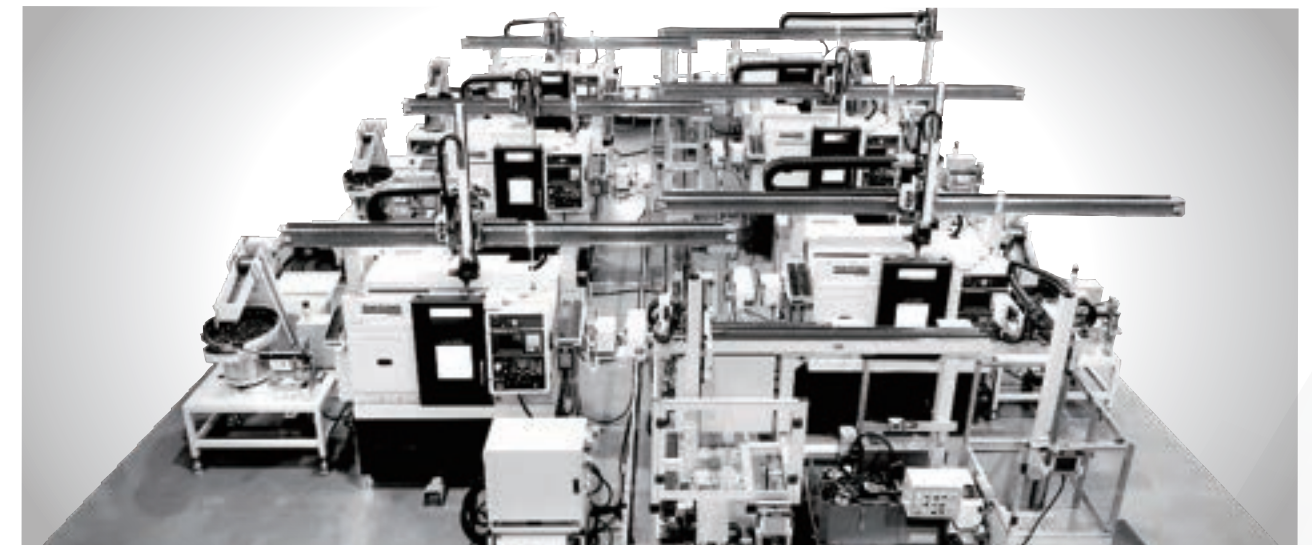
**Gantry Loader Specifications**

<b>Feedrate</b>		
X-Axis Rapid Traverse	180	m / min
Z-Axis Rapid Traverse	150	m / min
<b>Working Size</b>		
O.D	160	mm
Length	100	mm
Weight	3 (x2)	kg

**Work Feeder Specifications**

Pallet	16	pcs
Loading Weight	40	kg
Max. Height	450	mm
Worker Feeder Width	610	mm

## Turn-Key Solution





# NC Unit Specifications

Specifications · Contents	-	M2	Y	Y2
<b>Controller</b>				
Oi-TF Plus	●	●	●	●
<b>NC Unit</b>				
10.4" Color LCD	●	●	●	●
15" Color LCD	◎	◎	◎	◎
<b>Safety Device</b>				
Front Door Interlock	◎	◎	◎	◎
Front Door Locking Mechanism	◎	◎	◎	◎
Safety Relay	◎	◎	◎	◎
Control Panel Breaker with Tripper	◎	◎	◎	◎
<b>Controlled Axes</b>				
Least Input Increment (Linear Axis : 0.001mm · Rotary Axis : 0.001°)	●	●	●	●
Maximum programmable Dimension (±999999.999)	●	●	●	●
Arbitrary angular axis control	-	●	-	●
Least Input Increment C	▲	▲	▲	▲
Inch/Metric Selection	●	●	●	●
Interlock	●	●	●	●
Machine Lock	◎	◎	◎	◎
Emergency Stop	●	●	●	●
Stored Stroke Check 1	●	●	●	●
Stored Stroke Check 2,3	●	●	●	●
Stroke Limit Check Before Movement	●	●	●	●
Chuck Tailstock Barrie	▲	▲	▲	▲
Mirror Image (Each Axis)	▲	▲	▲	▲
Chamfering ON/OFF	●	●	●	●
Overload Detection	●	●	●	●
Position Switch	●	●	●	●
<b>Operation</b>				
Auto Run (Memory)	●	●	●	●
MDI Run	●	●	●	●
DNC Run	●	●	●	●
DNC Run with Memory Card	●	●	●	●
Program Number Search	●	●	●	●
Sequence Number Search	●	●	●	●
Sequence Number Collation and Stop	●	●	●	●
Wrong Operation Preventive	▲	▲	▲	▲
Buffer Register	●	●	●	●
Dry Run	●	●	●	●
Single Block	●	●	●	●
Jog Feed	●	●	●	●
Manual Reference Point Return	●	●	●	●
Dogless Reference Point Setting	●	●	●	●
Manual handle feed 2/3-units	●	●	●	●
<b>Interpolating Functions</b>				
Positioning (G00)	●	●	●	●
Exact Stop Mode (G61)	●	●	●	●
Tapping Mode (G63)	●	●	●	●
Cutting Mode (G64)	●	●	●	●
Exact Stop (G09)	●	●	●	●
Linear Interpolation (G01)	●	●	●	●
Circular Interpolation (G02/G03)	●	●	●	●
Dwell (G04)	●	●	●	●
Polar Coordinate Interpolation	●	●	●	●
Cylindrical Interpolation	●	●	●	●
Helical interpolation	◎	◎	●	●
Thread Cutting	●	●	●	●
Multiple Thread Cutting	●	●	●	●
Thread Cutting Cycle and Retraction	●	●	●	●
Continuous Thread Cutting	●	●	●	●
Variable Lead Thread Cutting	●	●	●	●
Reference Point Return (G28)	●	●	●	●

Specifications · Contents	-	M2	Y	Y2
Reference Point Return Check (G27)	●	●	●	●
2nd Reference Point Return (G30)	●	●	●	●
3rd, 4th Reference Point Return	●	●	●	●
<b>Feed Function</b>				
Rapid Traverse Override (F0,25%,50%,100%)	●	●	●	●
Feed Per Minute	●	●	●	●
Feed Per Revolution	●	●	●	●
Constant Tangential Speed Control	●	●	●	●
Cutting Feedrate Clamp	●	●	●	●
Automatic Acceleration/Deceleration	●	●	●	●
Rapid Traverse Bell-Shaped Accel/Decel	●	●	●	●
Linear Accel/Decel After Feedrate Interpolation	●	●	●	●
Feedrate Override (15 Steps)	●	●	●	●
Jog Override (15 Steps)	●	●	●	●
Override Cancel	●	●	●	●
Manual Feed Per Revolution	▲	▲	▲	▲
<b>Program Input</b>				
Tape Code (EIA/ISO Auto Recognition)	●	●	●	●
Label Skip	●	●	●	●
Parity Check	●	●	●	●
Control In/Out	●	●	●	●
Optional Block Skip, 1 Piece	●	●	●	●
Optional Block Skip (2 to 9 Pieces)	⊕	⊕	⊕	⊕
Program Number O4 Digits	●	●	●	●
Program File Name 32 Characters	●	●	●	●
Sequence Number N5 Digits	-	-	-	-
Sequence Number N8 Digits	●	●	●	●
Absolute/Incremental Command	●	●	●	●
Decimal Point Input/ Pocket Calculator Type Decimal Point Input	●	●	●	●
Diameter /Radius Programming (X-Axis)	●	●	●	●
Coordinate System Setting (G50)	●	●	●	●
Auto coordinate System Setting	●	●	●	●
Drawing Dimension Direct Input	●	●	●	●
G-Code System A	●	●	●	●
G-Code System B/C	▲	▲	▲	▲
Chamfering/Corner R Programming	●	●	●	●
Programmable Data Input	●	●	●	●
Sub Program Call (10 Levels)	●	●	●	●
Custom Macro	●	●	●	●
Additional Custom Macro Common Variables	●	●	●	●
Single Canned Cycle	●	●	●	●
Combined Canned Cycle	●	●	●	●
Combined Canned Cycle II	●	●	●	●
Drilling Canned Cycle	●	●	●	●
Circular Interpolation by R programming	●	●	●	●
Macro Executor	●	●	●	●
Coordinate System Shift	●	●	●	●
Coordinate System Shift Direct Input	●	●	●	●
<b>Miscellaneous Function/Spindle Functions</b>				
M Function (M3 Digits)	●	●	●	●
Second Miscellaneous Function (B Function)	-	-	-	-
Spindle Functions (S4 Digits)	●	●	●	●
Constant Surface Speed Control	●	●	●	●
Spindle Orientation	●	●	●	●
Rigid Tap (Spindle Center)	●	●	●	●
Rigid Tap (Rotary Tool)	-	●	●	●
<b>Data I/O</b>				
RS-232C Interface for 1 ch	●	●	●	●
Fast Data Server	⊕	⊕	⊕	⊕
External Message	●	●	●	●
External Workpiece Number Search	◎	◎	◎	◎
Memory Card I/O	●	●	●	●

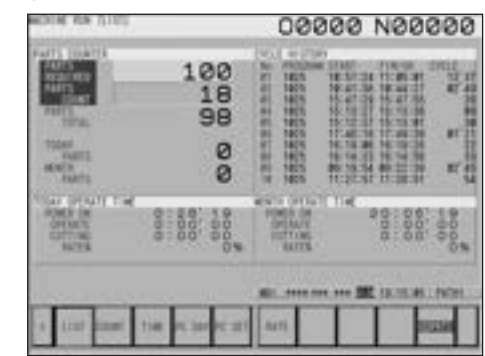
Specifications · Contents	-	M2	Y	Y2
<b>Tool Function / Tool Compensation</b>				
tT Function (T2+2 Digits)	●	●	●	●
Tool Offsets, 32 Pieces	-	-	-	-
Tool Offsets, 64 Pieces	-	-	-	-
Tool Offsets, 128 Pieces	●	●	●	●
Tool Offsets, 200 Pieces	◎	◎	◎	◎
Tool Offsets, 400 Pieces	-	-	-	-
Tool Geometry Size Data, 128 Pieces	●	●	●	●
Tool Position Offset	●	●	●	●
Tool Diameter /Nose R Compensation	●	●	●	●
Tool Geometry /Wear Compensation	●	●	●	●
Tool Offset Counter Input	●	●	●	●
Tool Offset Measured Value Direct Input	●	●	●	●
Tool Offset Measured Value Direct Input B	◎	◎	◎	◎
Tool Life Management	●	●	●	●
<b>Accuracy Compensation Function</b>				
Backlash Compensation	●	●	●	●
Backlash Compensation by Rapid Traverse/Feedrate	●	●	●	●
<b>Editing Operation</b>				
Part Program Memory Capacity 128Kbyte (320m)	-	-	-	-
Part Program Memory Capacity 320Kbyte (800m)	-	-	-	-
Part Program Memory Capacity 512Kbyte (1280m)	-	-	-	-
Part Program Memory Capacity 1Mbyte	-	-	-	-
Part Program Memory Capacity 2Mbyte	●	●	●	●
Registrable Programs, 63 Programs	-	-	-	-
Registrable Programs, 400 Programs	-	-	-	-
Registrable Programs, 1000 Programs	●	●	●	●
Program Editing	●	●	●	●
Program Protection	●	●	●	●
Extended Program Editing	●	●	●	●
Background Editing	●	●	●	●

Specifications · Contents	-	M2	Y	Y2
<b>Setting and Display</b>				
Status Display	●	●	●	●
Clock Function	●	●	●	●
Current Position Display	●	●	●	●
Program Comment Display (31 Characters)	●	●	●	●
Parameter Setting and Display	●	●	●	●
Alarm Display	●	●	●	●
Alarm Log Display	●	●	●	●
Operator Message Log Display	●	●	●	●
Operation Message Log Display	●	●	●	●
Run Hours and Parts Count Display	●	●	●	●
Actual Speed Display	●	●	●	●
Actual Spindle Speed and T Code Display	●	●	●	●
Floppy Cassette Directory Display	●	●	●	●
Optional path name display	●	●	●	●
Servo Adjustment Screen	●	●	●	●
Maintenance Information Screen	●	●	●	●
Data Protection Key, 1 Kind	●	●	●	●
Help Function	●	●	●	●
Self Diagnostic Function	●	●	●	●
Scheduled Maintenance Screen	●	●	●	●
Hardware & Software System Configuration Display	●	●	●	●
Graphic Display	●	●	●	●
Dynamic Graphic Display	◎	◎	◎	◎
<b>Display Languages</b>				
English	●	●	●	●
Japanese (Kanji)	▲	▲	▲	▲
Other Language	▲	▲	▲	▲
Display Language Dynamic Switching	●	●	●	●

● Standard ◎ Optional ⊕ Special  
▲ Parameter Setting is Required - None

## Smart Work Manager (Option)

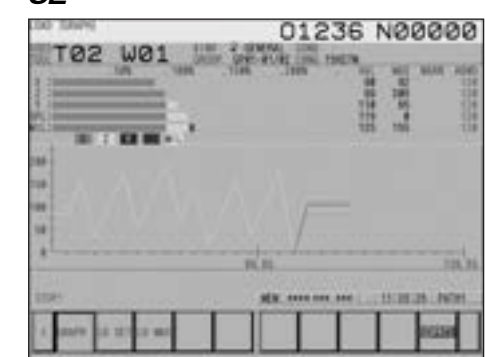
01



It provides simple operation and convenient function.

**01 Tool Life Manager**  
This function can set tool life and wear limit to manage all tools.

02



**02 Load Monitor**  
Detecting max load to check tool status.

**03 Parts and Machine Manager**  
It offers parts counter, program history, operate time for today or this month.

03

