EX-2000 Series

EX-2000MT / EX-2000MS / EX-2000YT / EX-2000YS

CNC Turning Center

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Please make an inquiry to our sales representatives for more details of the product.

EX-2000 series

EX-2000 series is TAIWAN TAKISAWA new generation of high rigidity and high precision turning center capable of handling varieties of parts.

Space-saving design and faster traverse rate achieve high productivity.

High modular design with 6 types of axial configurations. In addition, turning or milling turret, Y axis, tailstock or sub-spindle are available. Variant high precision accessories and parts loader /unloader to achieve automatic production.

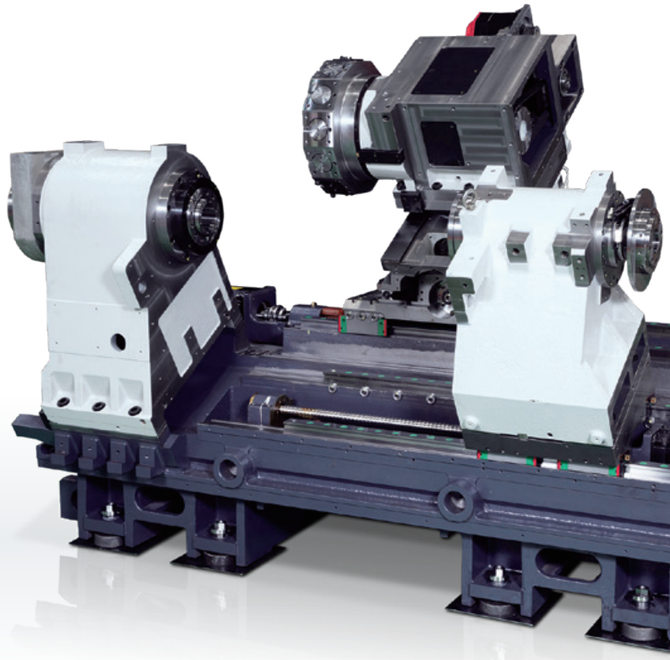
01 Specification Options

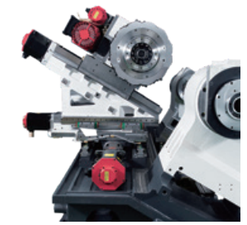
	EX-2000					
	T	MT	YT	S	MS	YS
Built-In Motor Left Spindle	◎	●	●	◎	●	●
Belt Motor Left Spindle	●	◎	◎	●	◎	◎
Built-In Motor Right Spindle	-	-	-	●	●	●
Left C Axis	-	●	●	-	●	●
Right C Axis	-	-	-	-	●	●
T12 Turning Turret	●	-	-	●	-	-
T12 Milling Turret	-	●	●	-	●	●
Y-Axis	-	-	●	-	-	●
Servo Tailstock	●	●	●	-	-	-

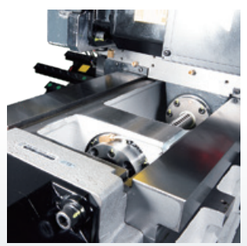
● Standard ◎ Optional - Nope

02 Workpiece Size

	EX-2000T	EX-2000MT	EX-2000YT	EX-2000S	EX-2000MS	EX-2000YS	
Max. Turning Diameter	15.35						inch
Max. Turning Length	Turning Turret: 20.11 / Std. Milling Turret: 20.11 / BMT65 Milling Turret: 19.89						inch
Max. Bar Work Dia. (L Sp. / R Sp.)	2.56	2.56	2.56	2.56 / 2.05	2.56 / 2.05	2.56 / 2.05	inch







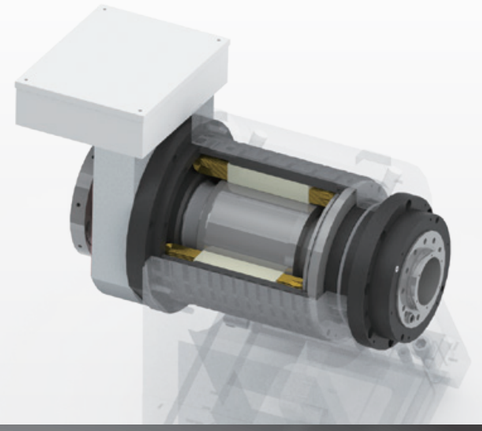
The guideways introduces the concept of hybrid design. The X-axis with box ways to provide good vibration attenuation and dynamic rigidity. The Y-axis, Z-axis and B-axis with roller linear guides to achieve high precision, high rigidity and high speed.

03 Travel & Rapid Traverse

	EX-2000						
	T	MT	YT	S	MS	YS	
X-Axis Travel	9.84	9.84	9.84	9.84	9.84	9.84	inch
X-Axis Rapid Traverse	1181	1181	1181	1181	1181	1181	ipm
Z-Axis Travel	23.23	23.23	23.23	23.23	23.23	23.23	inch
Z-Axis Rapid Traverse	1417	1417	1417	1417	1417	1417	ipm
Y-Axis Travel	-	-	± 1.97	-	-	± 1.97	inch
Y-Axis Rapid Traverse	-	-	394	-	-	394	ipm
B-Axis Travel	22.44	22.44	22.44	22.44	22.44	22.44	inch
B-Axis Rapid Traverse	1417	1417	1417	1417	1417	1417	ipm

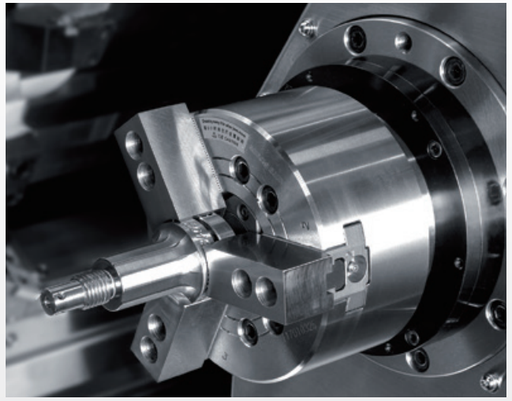
Spindle

The left and right spindles are equipped with built-in motors for high precision, low vibration and low noise, which provide better surface roughness of the workpiece. For left spindle, a reliable and cost-effective belt-type spindle is available.

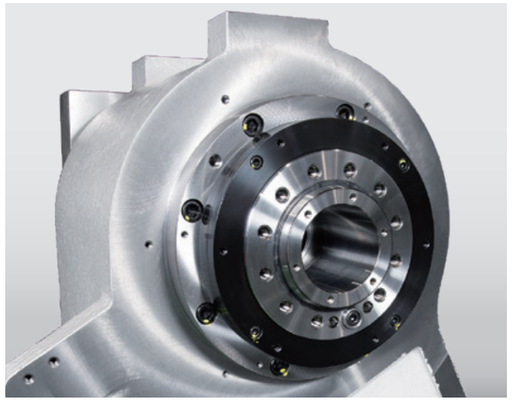


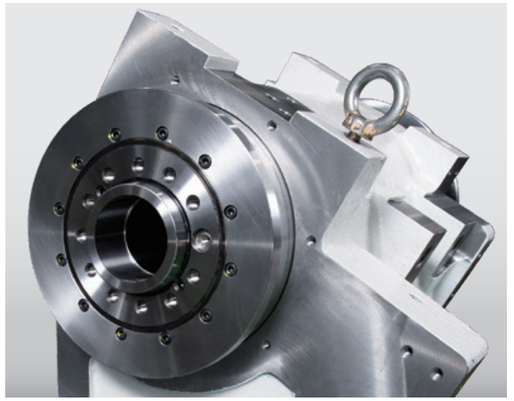
	Built-in Motor Left Spindle	Belt Motor Left Spindle	Built-in Motor Right Spindle*	
Spindle Nose	A2-6	A2-6	A2-5	
Spindle Speed	4500	4500	5000	rpm
Through Hole Diameter	3	3	2.4	inch
Bearing Inside Diameter	4.33	4.33	3.15	inch
Motor Output	20.1 / 14.8	20.1 / 14.8	20.1 / 14.8	hp
Max. Torque	165.2	105.5	43.1	ft·lb
Standard Chuck Size	8	8	6	inch

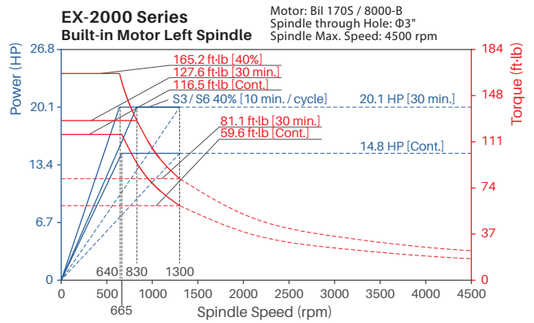
* For EX-2000S, EX-2000MS, EX-2000YS Only

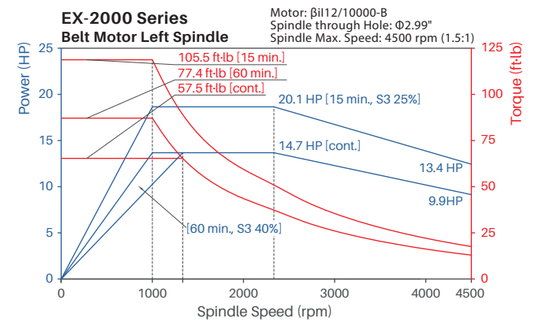


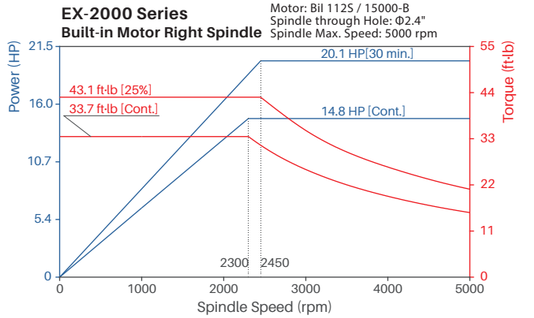
Spindle Output Diagram





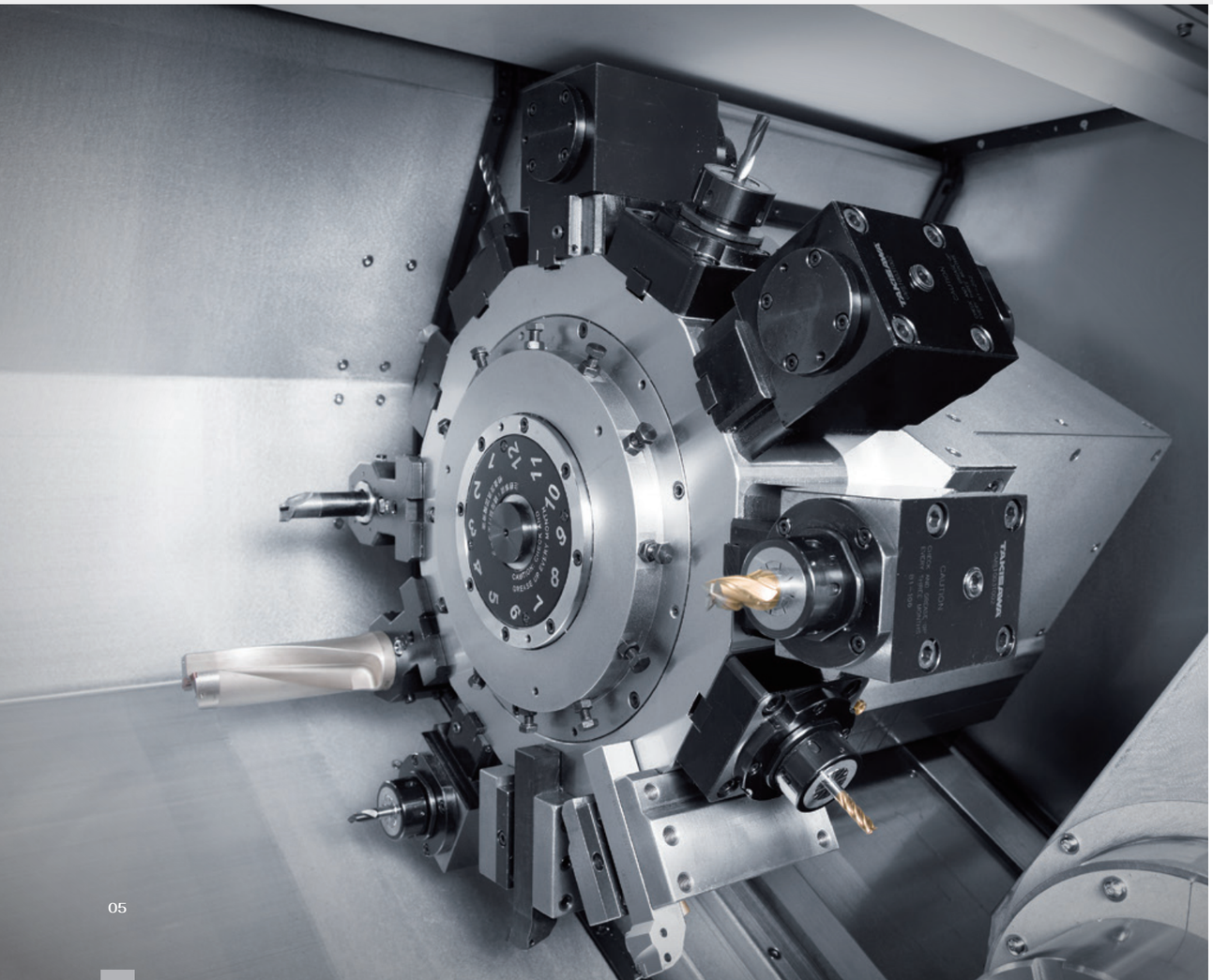






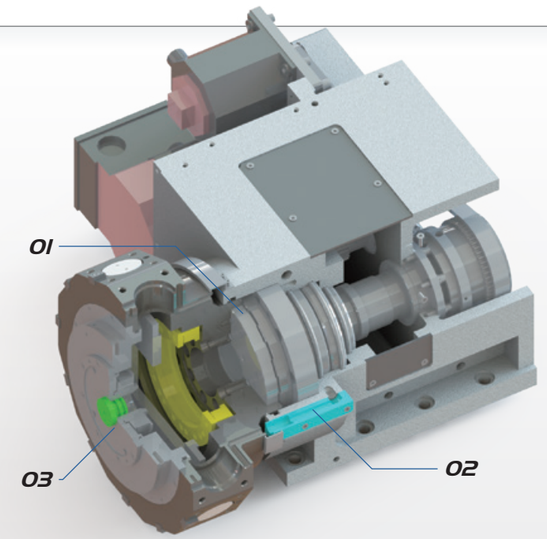
Turret

Taiwan Takisawa high-rigidity, high-precision T12 turning-milling turret adopts a large diameter of curved tooth bevel gear. Capable to handle combined machining such as milling, drilling and tapping rather than turning to improve the engineering concentration and processing accuracy of parts processing.



Turret Structure

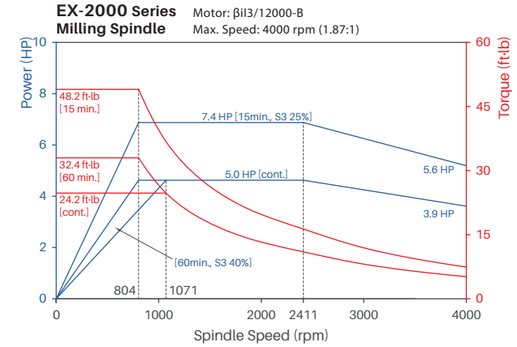
01	Curvic coupling OD 8.27 inch performs high rigidity and accuracy
02	Ready for 70 bar hi-pressure coolant
03	Easy to grease up



T12 Turret

Turret Type	Turning Turret	Standard Milling Turret	BMT65 Milling Turret	
Number of Tools	12	12	12	
OD Tool Shank Dimension	1	1	1	inch
ID Tool Shank Diameter	1-1/2	1-1/2	1-1/2	inch
Milling Shank Diameter	-	3/4	3/4	inch
Milling Collet Specification	-	ER32	ER32	
Milling Spindle Speed	-	4000	4000	rpm
Motor Output	-	7.4 / 5.0	7.4 / 5.0	hp
Max. Torque	-	48.2	48.2	ft·lb

Spindle Output Diagram



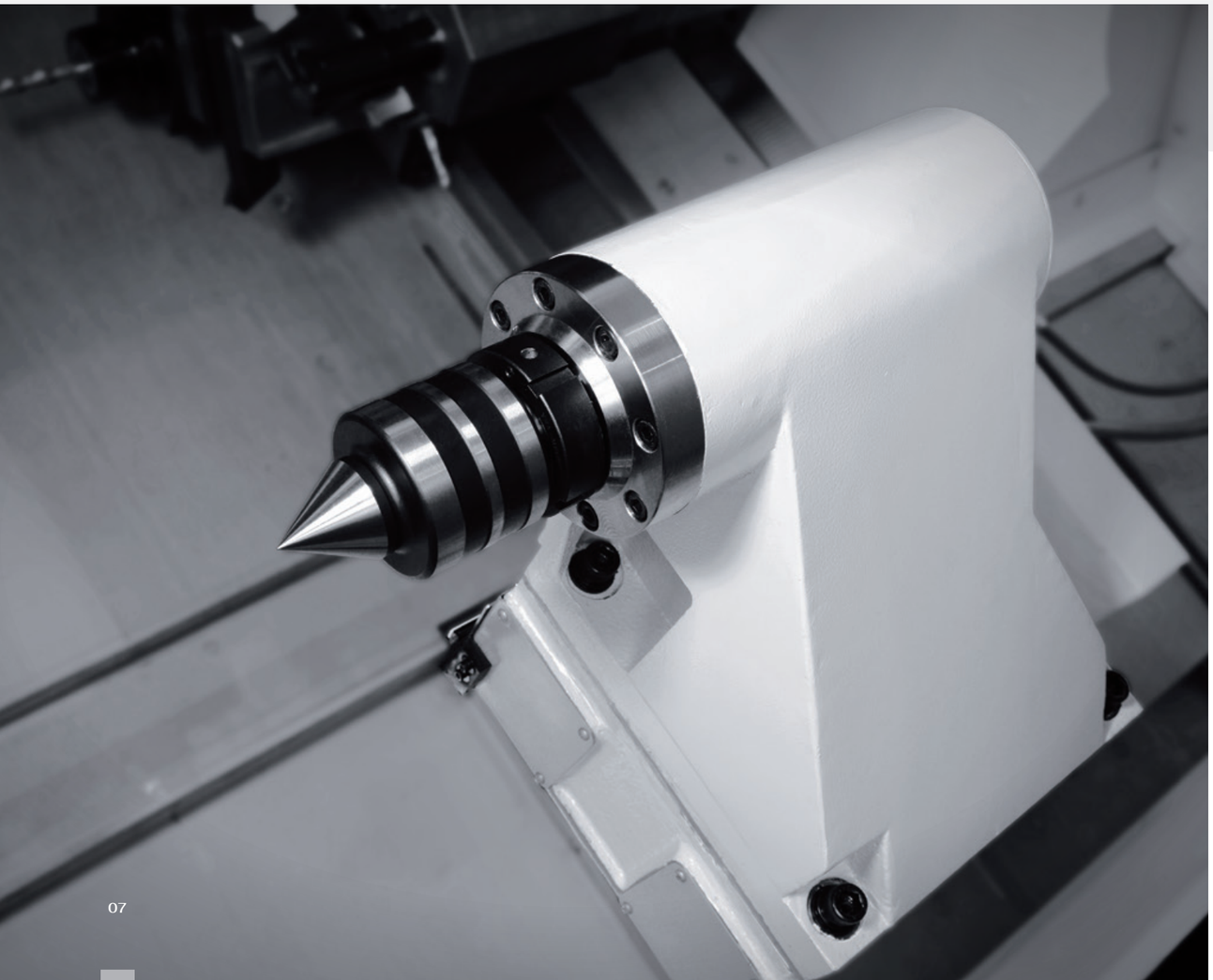
Special Tool Holders

01	Gear Hobbing*
02	Broaching
03	Power Skiving
04	Adjustable Angle Milling

*only for the turret of the milling spindle motor transmission ratio 1:1

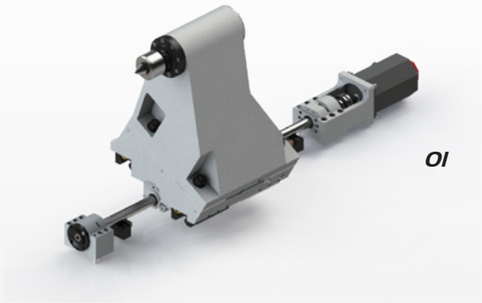
Tailstock

EX-2000T, EX-2000MT and EX-2000YT are equipped with servo tailstock. The tailstock is driven by servo motor, with advantages of easy operation and fast movement. The movement speed is up to 36 meters per minute. In case of heavy load condition, a rotary spindle of tailstock with fixed center can be selected.



01 Servo Tailstock

Tapered Bore Type	MT.5	
Tailstock Thrust	225 ~ 899	lbf
Tailstock Travel	22.44	inch
Rapid Traverse	1417	ipm
Approach	31 ~ 79	ipm
Retract	197	ipm



01

02 Servo Tailstock Function

Through the dialog UI interface, it is convenient to set the servo tailstock thrust and origin and other parameters.

02

01 Tailstock with Rotary Spindle

Recommended for heavy-duty use.

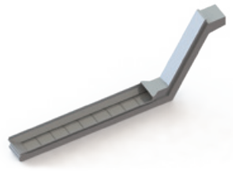
02 Chip Conveyor Type

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

03 Chip Conveyor Configuration

Optional right disposal type or rear disposal type.

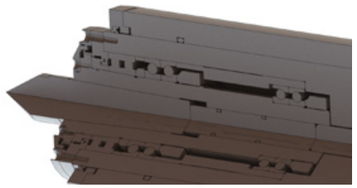
Hinge Type Chip Conveyor



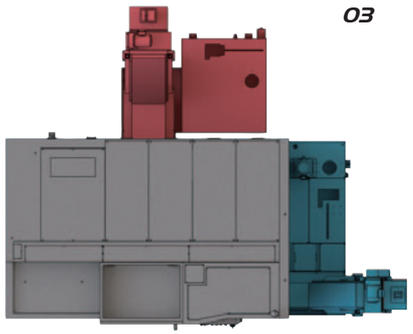
Scraper Type Chip Conveyor 02

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

01

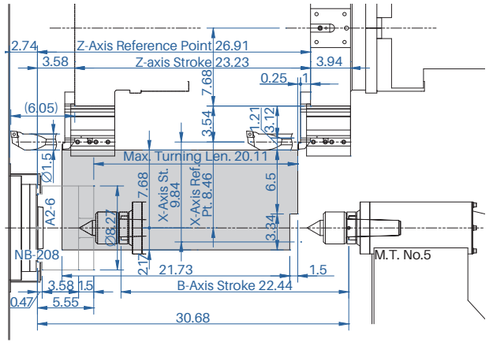


03

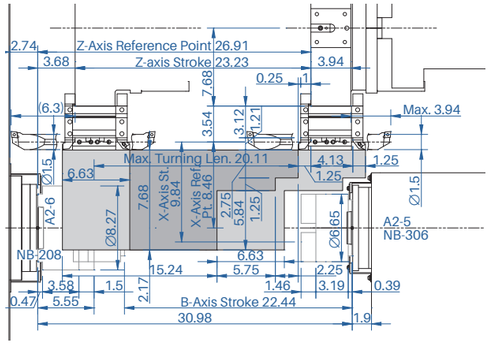


Travel Range

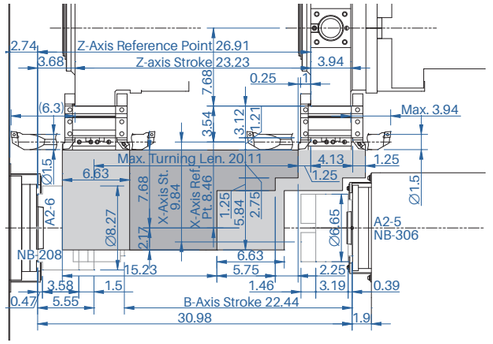
EX-2000T TURNING TURRET

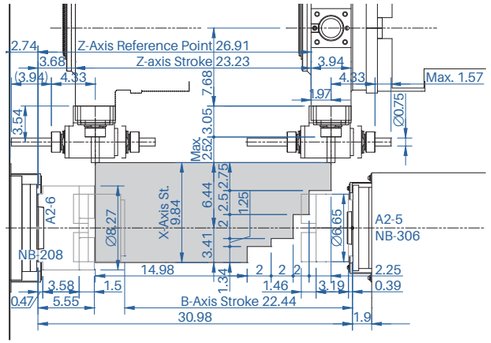


EX-2000S TURNING TURRET

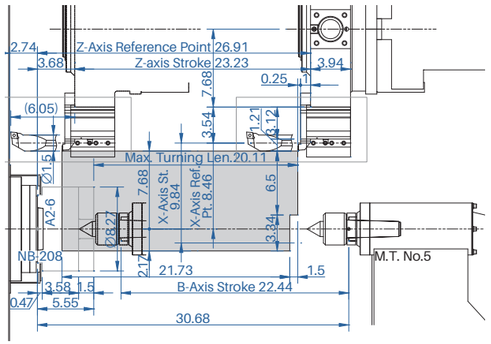


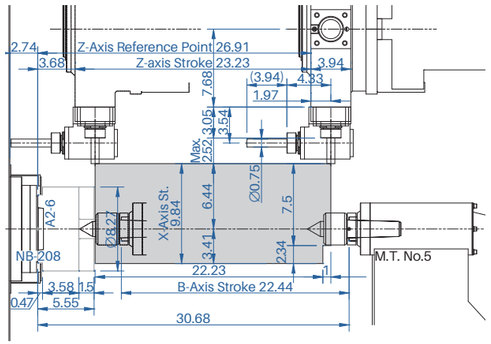
EX-2000MS / EX-2000YS STANDARD MILLING TURRET



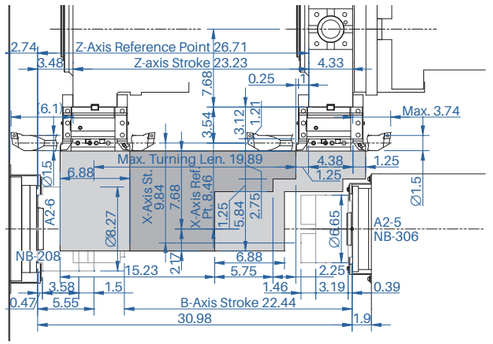


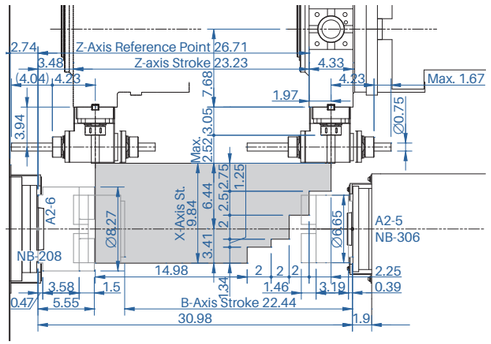
EX-2000MT / EX-2000YT STANDARD MILLING TURRET



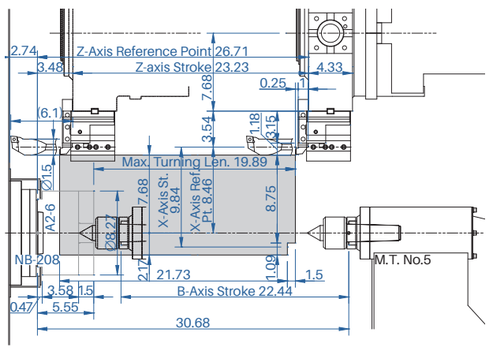


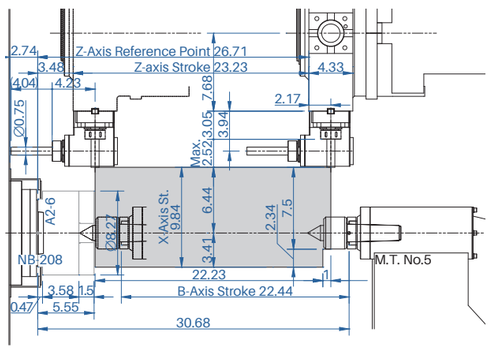
EX-2000MS / EX-2000YS BMT65 MILLING TURRET



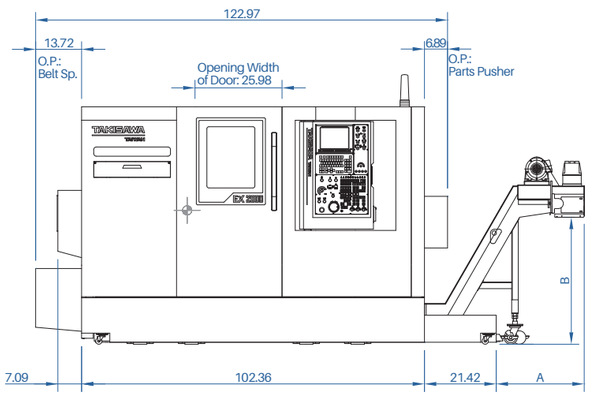


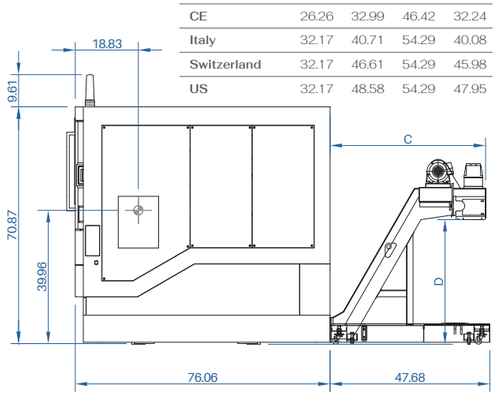
EX-2000MT / EX-2000YT BMT65 MILLING TURRET





Machine Dimensions

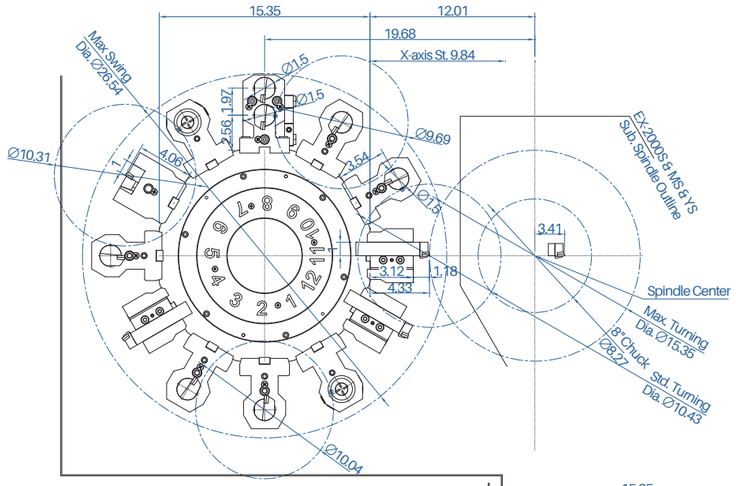




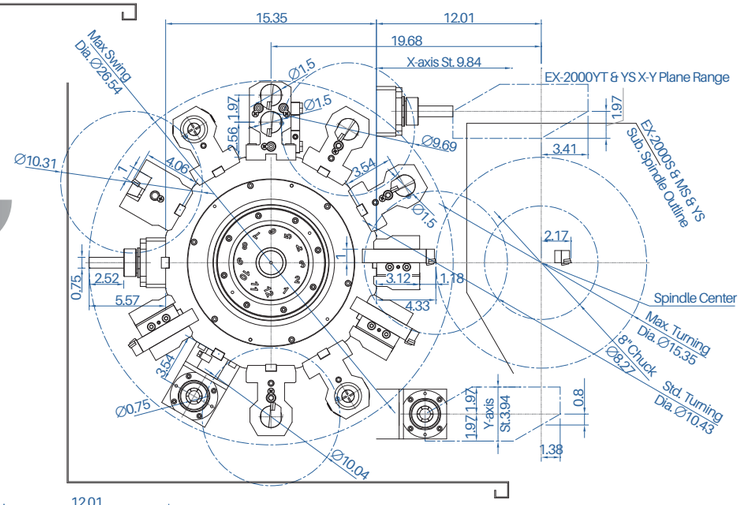
Chip Conveyor Dimension

	A	B	C	D
Standard	26.26	37.91	46.42	37.17
CE	26.26	32.99	46.42	32.24
Italy	32.17	40.71	54.29	40.08
Switzerland	32.17	46.61	54.29	45.98
US	32.17	48.58	54.29	47.95

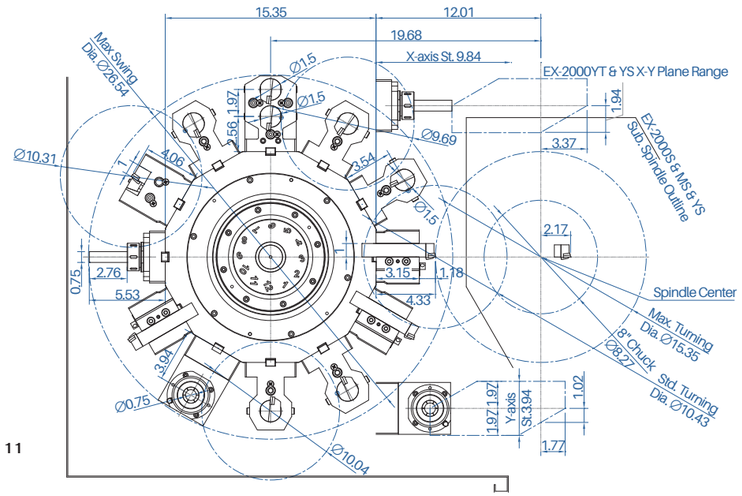
Interference



T12 Turning Turret

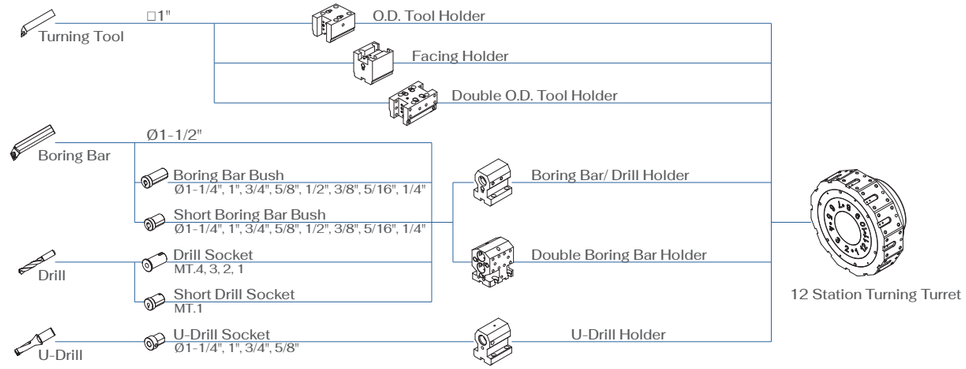


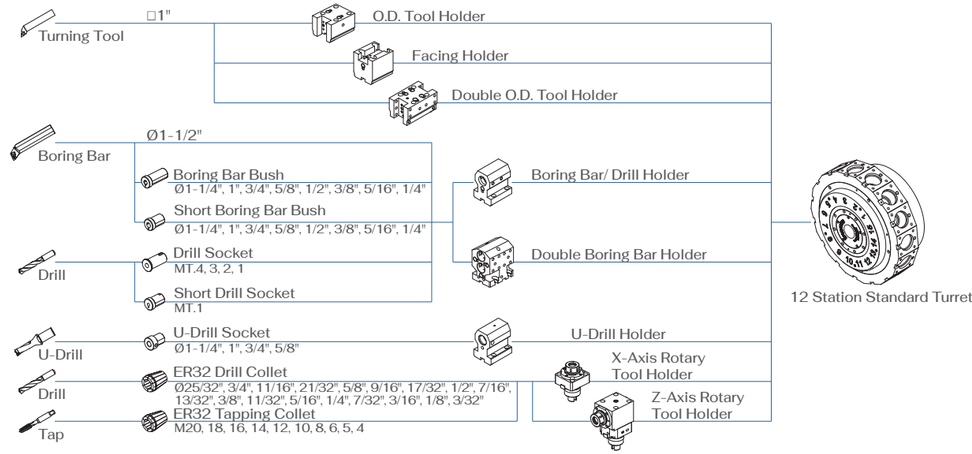
T12 Standard Milling Turret

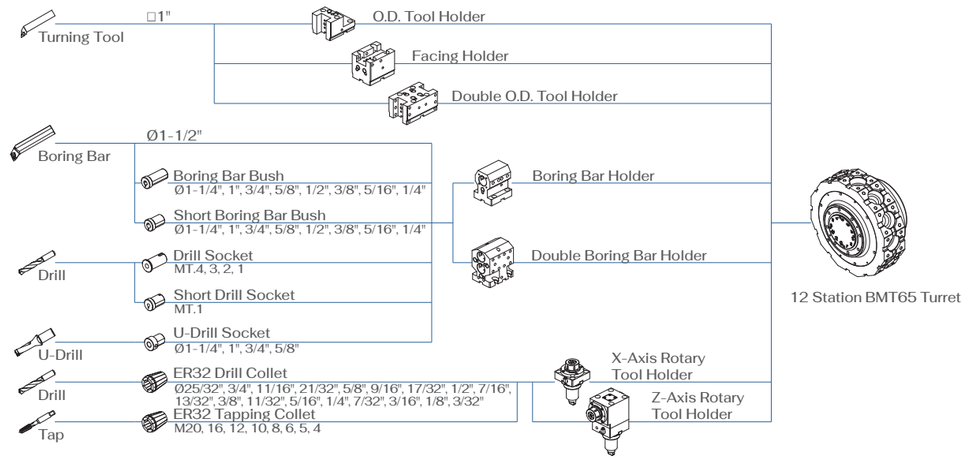


T12 BMT65 Milling Turret

Tooling System







Machine Specifications

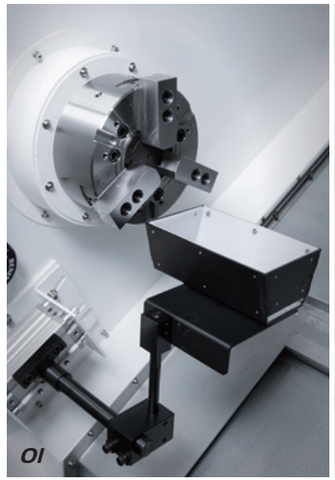
	Item		EX-2000	T	MT	YT	S	MS	YS
Capacity	Max. Swing	inch		31.50					
	Standard Turning Diameter	inch		9.84					
	Max. Turning Diameter	inch		15.35					
	Max. Turning Length	inch		Turning Turret & Std. Milling Turret: 20.11 / BMT65 Milling Turret: 19.89					
	Bar Work Capacity (Main Sp.)	inch		2.56					
	Bar Work Capacity (Sub. Sp.)	inch		–			2.05		
	Dist. Between Centers	inch		–			30.98		
Travel	X-Axis Travel	inch		9.84					
	Z-Axis Travel	inch		23.23					
	Y-Axis Travel	inch		–		±1.97	–		±1.97
	B-Axis Travel	inch		22.44					
Left Spindle	Spindle Speed	rpm		4500					
	Spindle Nose			A2-6					
	Through Hole Dia.	inch		2.99					
	Bearing Diameter	inch		4.33					
Right Spindle	Spindle Speed	rpm		–			5000		
	Spindle Nose			–			A2-5		
	Through Hole Dia.	inch		–			2.40		
	Bearing Diameter	inch		–			3.15		
Turret	Number of Tools			T12					
	OD Tool Shank Dim.			1					
	ID Tool Shank Dia.	inch		1-1/2					
	Milling Shank Dia.	inch		–	3/4		–	3/4	
	Spindle Speed	rpm		–	4000		–	4000	
Tailstock	Tailstock Type			Live Centre (Revolving Center)			–		
	Tapered Bore Type			MT.5			–		
Feedrate	X-Axis Rapid Traverse	ipm		1181					
	Z-Axis Rapid Traverse	ipm		1417					
	Y-Axis Rapid Traverse	ipm		–		394	–		394
	B-Axis Rapid Traverse	ipm		1417					
Motor	Left Spindle Motor	hp		20.1 / 14.8					
	Right Spindle Motor	hp		–			20.1 / 14.8		
	Milling Spindle Motor	hp		7.4 / 5.0					
	Index Motor	hp		1.6					
	X-Axis Servo Motor	hp		4					
	Z-Axis Servo Motor	hp		4					
	Y-Axis Servo Motor	hp		–		1.9	–		1.9
	B-Axis Servo Motor	hp		2.4					
Machine Size	Height	inch		70.87					
	Width	inch		102.36					
	Depth	inch		76.06					
	Weight	lb		11660	11660	12540	12100	12100	12980

Standard and Optional Accessories

Accessories	EX-2000	T	MT	YT	S	MS	YS
Built-In Motor Left Spindle		◎	●	●	◎	●	●
Belt Motor Left Spindle		●	◎	◎	●	◎	◎
Built-In Motor Right Spindle		-	-	-	●	●	●
Servo Tailstock with Live Centre		●	●	●	-	-	-
Servo Tailstock with Revolving Center		◎	◎	◎	-	-	-
O.D Tool Holder		●	●	●	●	●	●
Face Tool Holder		●	●	●	●	●	●
U-Drill Tool Holder (Not for BMT65 Turret)		●	●	●	●	●	●
Boring Bar Tool Holder (Not for BMT65 Turret)		●	●	●	●	●	●
Double Boring Bar Tool Holder (Not for BMT65 Turret)		◎	◎	◎	◎	◎	◎
BMT65 Boring Bar Tool Holder (Only for BMT65 Turret)		-	●	●	-	●	●
BMT65 Double Boring Bar Tool Holder (Only for BMT65 Turret)		-	◎	◎	-	◎	◎
Boring Bar Bush (Ø1/4", Ø5/16", Ø3/8", Ø1/2")		●	●	●	●	●	●
Boring Bar Bush (Ø5/8", Ø3/4", Ø1", Ø1-1/4")		●	●	●	●	●	●
U-Drill Bush (Ø5/8", Ø3/4", Ø1", Ø1-1/4")		●	●	●	●	●	●
Short Boring Bar Bush (Ø1/4", Ø5/16", Ø3/8", Ø1/2")		-	-	-	●	●	●
Short Boring Bar Bush (Ø5/8", Ø3/4", Ø1", Ø1-1/4")		-	-	-	●	●	●
Drill Bush (MT.1, MT.2, MT.3)		◎	◎	◎	◎	◎	◎
Short Drill Bush (MT.1)		-	-	-	◎	◎	◎
X-Axis Milling Holder		-	●	●	-	●	●
Z-Axis Milling Holder		-	●	●	-	●	●
Automatic Tool Setter (Left Spindle Only)		◎	◎	◎	◎	◎	◎
Manual Tool Setter		◎	◎	◎	◎	◎	◎
Linear Scales (X, Y, Z Axis)		◎	◎	◎	◎	◎	◎
Coolant Pump (1/2HP)		●	●	●	●	●	●
Coolant Pump (1/2HP, 3/4HP, 1HP, 1-1/2HP)		◎	◎	◎	◎	◎	◎
Coolant Chiller		◎	◎	◎	◎	◎	◎
Nut Cooling Ball Screw		◎	◎	◎	◎	◎	◎
Hydraulic System		●	●	●	●	●	●
Hydraulic Oil Cooling		◎	◎	◎	◎	◎	◎
Hydraulic Pressure Sensor		●	●	●	●	●	●
Lubrication System		●	●	●	●	●	●
Hydraulic Hollow Chuck		●	●	●	●	●	●
Hydraulic Collet Chuck		◎	◎	◎	◎	◎	◎
Foot Switch		●	●	●	●	●	●
LED Interior Light		●	●	●	●	●	●
LED TAKISAWA Light		●	●	●	●	●	●
LED Signal Tower		●	●	●	●	●	●
Galvanized Steel Interior Cover		●	●	●	●	●	●
Stainless Steel Interior Cover		◎	◎	◎	◎	◎	◎
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

NC Unit Specifications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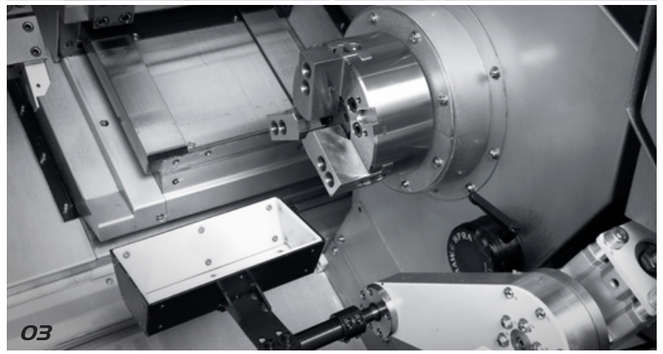
02


03

01 Left Spindle Parts Catcher

Max. Parts Dia.	2.5	inch
Max. Parts Length	7.87	inch
Max. Parts Weight	6.5	lb

02 Parts Pusher

Pusher Stroke	3.74	inch

03 Right Spindle Parts Catcher with Right Disposal Parts Conveyor

Max. Parts Dia.	2.5	inch
Max. Parts Length	7.87	inch
Max. Parts Weight	2.2	lb

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 I Manual Tool Setter
03	Nut Cooling Ball Screw
04	Cutting Fluid Cooling
05	High Pressure Coolant
06	Hydraulic Oil Cooling

01

02

03

04

05

06

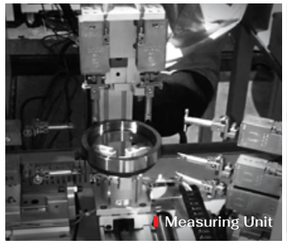
High Speed Gantry Loader System

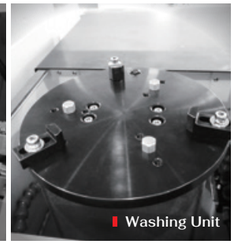
Layout Variations

Lathe
Gantry Loader
Workpiece Feeder

A B C

Peripheral Equipment


Measuring Unit


Washing Unit

Camera Positioning Unit

Quality Chute

Gantry Loader Specifications

Feedrate

X-Axis Rapid Traverse	7086.61	ipm
Z-Axis Rapid Traverse	5905.51	ipm

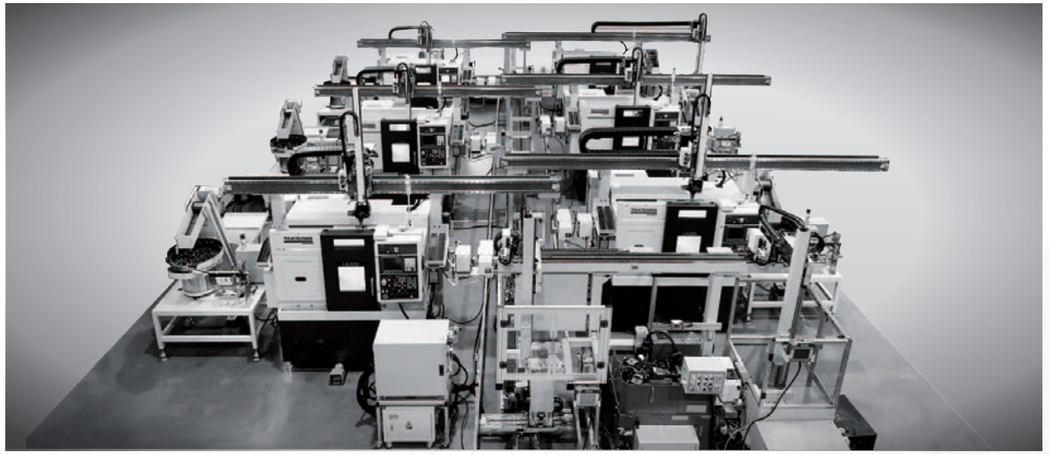
Working Size

O.D	6.3	inch
Length	3.94	inch
Weight	6.6 (x2)	lb

Work Feeder Specifications

Pallet	16	pcs
Loading Weight	88	lb
Max. Height	17.72	inch
Worker Feeder Width	24.02	inch

Turn-Key Solution



NC Unit Specifications

Specifications · Contents EX-2000	T	MT	YT	S	MS	YS
Controller						
0i-TF Plus	●	●	●	●	●	●
NC Unit						
10.4" Color LCD	●	●	●	●	●	●
15" Color LCD	◎	◎	◎	◎	◎	◎
Safety Device						
Front Door Interlock	◎	◎	◎	◎	◎	◎
Front Door Locking Mechanism	◎	◎	◎	◎	◎	◎
Safety Relay	◎	◎	◎	◎	◎	◎
Control Panel Breaker with Tripper	◎	◎	◎	◎	◎	◎
Controlled Axes						
Least Input Increment (Linear Axis: 0.0001", Rotary Axis: 0.001°)	●	●	●	●	●	●
Maximum Programmable Dimension (±99999.9999", ±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	●	●	●	●	●	●
Operation						
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	◎	◎	◎	◎	◎	◎
Interpolating Functions						
Poitioning (G00)	●	●	●	●	●	●
Exact Stop Mode (G61)	●	●	●	●	●	●
Tapping Mode (G63)	●	●	●	●	●	●
Cutting Mode (G64)	●	●	●	●	●	●
Exact Stop (G09)	●	●	●	●	●	●
Linear Interpolation (G01)	●	●	●	●	●	●
Circular Interpolation (G02/03)	●	●	●	●	●	●
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 EX-2000	T	MT	YT	S	MS	YS
Reference Point Return Check (G27)	●	●	●	●	●	●
2nd Reference Point Return (G30)	●	●	●	●	●	●
3rd, 4th Reference Point Return	●	●	●	●	●	●
Feed Function						
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	▲	▲	▲	▲	▲	▲
Program Input						
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	●	●	●	●	●	●
Miscellaneous Function / Spindle Functions						
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)	●	●	●	●	●	●
Data I/O						
RS-232C Interface for 1 ch	●	●	●	●	●	●
Fast Data Server	⊕	⊕	⊕	⊕	⊕	⊕
External Message	●	●	●	●	●	●
External Workpiece Number Search	◎	◎	◎	◎	◎	◎
Memory Card I/O	●	●	●	●	●	●

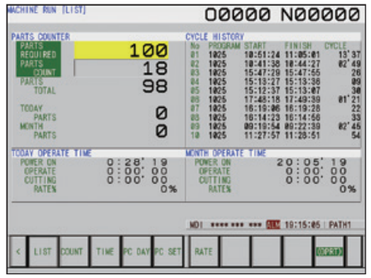
Specifications · Contents EX-2000	T	MT	YT	S	MS	YS
Tool Functions / Tool Offset Functions						
T Function (T2 + 2 Digits)	●	●	●	●	●	●
Tool Offsets, 32 Pieces	–	–	–	–	–	–
Tool Offsets, 64 Pieces	–	–	–	–	–	–
Tool Offsets, 128 Pieces	●	●	●	●	●	●
Tool Offsets, 200 Pieces	◎	◎	◎	◎	◎	◎
Tool Offsets, 400 Pieces	–	–	–	–	–	–
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	●	●	●	●	●	●
Accuracy Offset Functions						
Backlash Compensation	●	●	●	●	●	●
Backlash Compensation by Rapid Traverse / Feedrate	●	●	●	●	●	●
Editing						
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 EX-2000	T	MT	YT	S	MS	YS
Setting / Display						
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	◎	◎	◎	◎	◎	◎
Display Languages						
English	●	●	●	●	●	●
Japanese (Kanji)	▲	▲	▲	▲	▲	▲
Other Language	▲	▲	▲	▲	▲	▲
Display Language Dynamic Switching	●	●	●	●	●	●

● Standard ◎ Optional ⊕ Special
▲ Parameter setting is required – Nope

Smart Work Manager (Option)

01



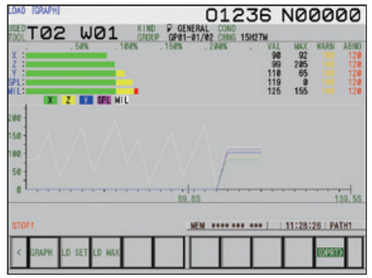
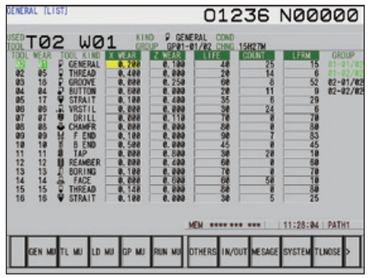
It provides simple operation and convenient function.

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

02 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.

02



03