

NX-2500 Series

NX-2500MT / NX-2500MS / NX-2500YT / NX-2500YS **CNC Turning Center**

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NX-2500 series

NX-2500 series is new generation high-rigidity and high-precision turning centers developed by Taiwan Takisawa. NX-2500 is adopts slant bed and box guide way design which increase structural rigidity and stability, 4 different turret specifications with optional Y-axis, and tailstock or sub-spindle configurations which can meet variant application requirements. Moreover, it can be equipped with various high-precision accessories and loading/unloading accessories to achieve automatic production.



01 Specification Options

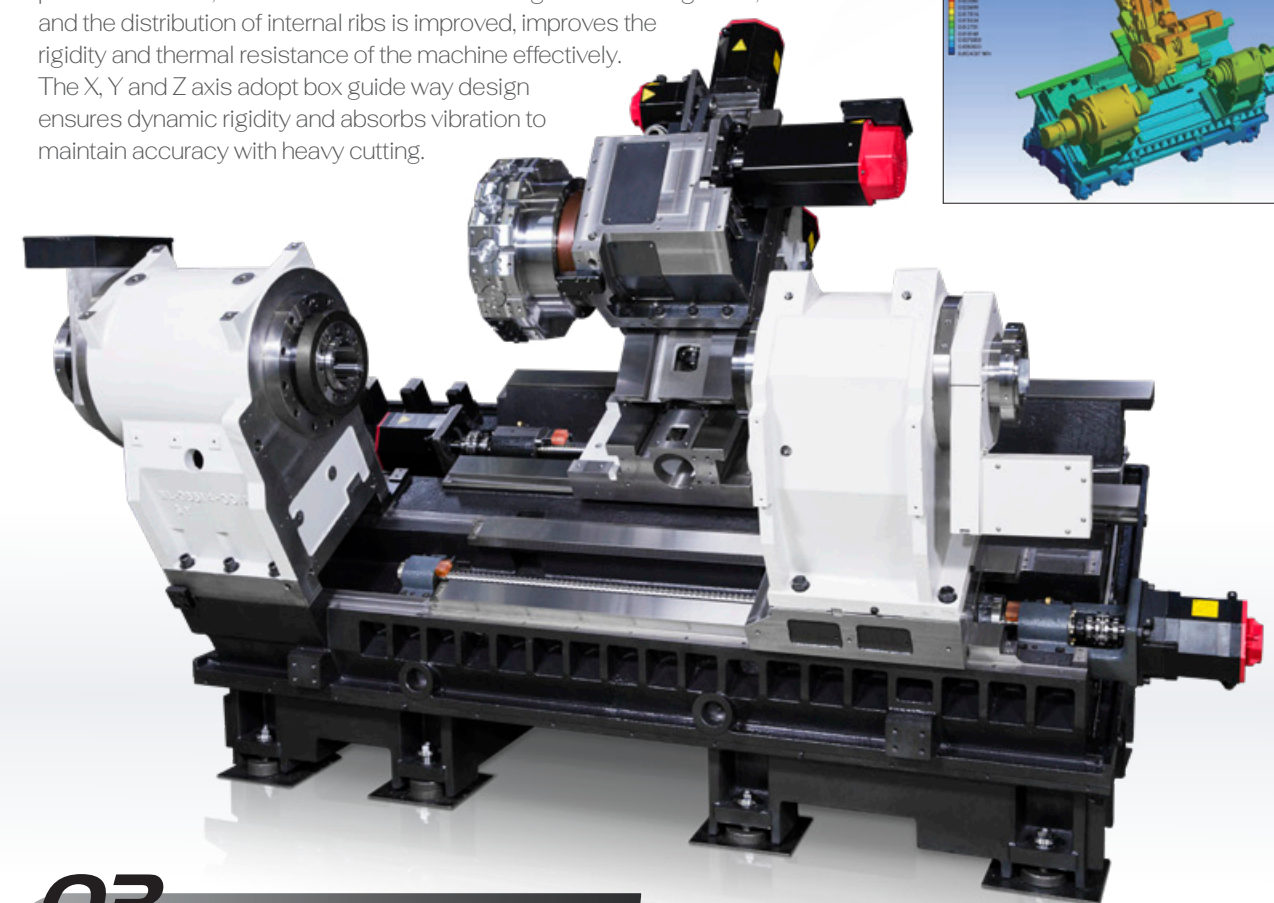
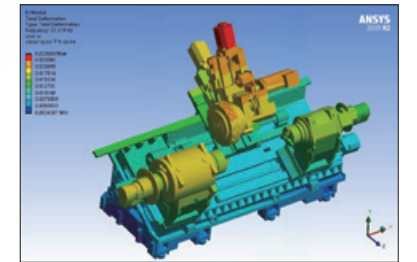
	NX-2500MT	NX-2500YT	NX-2500MS	NX-2500YS
Built-In Motor Spindle	●	●	●	●
Left C Axis	●	●	●	●
Right C Axis	-	-	●	●
Milling Turret				
T15 Standard	●	●	●	●
T15 BMT65	◎	◎	◎	◎
T12 Standard	◎	◎	◎	◎
T12 BMT65	◎	◎	◎	◎
Y-Axis	-	●	-	●
Servo Tailstock	●	●	-	-

● Standard ◎ Optional - Nope

02 Workpiece Size

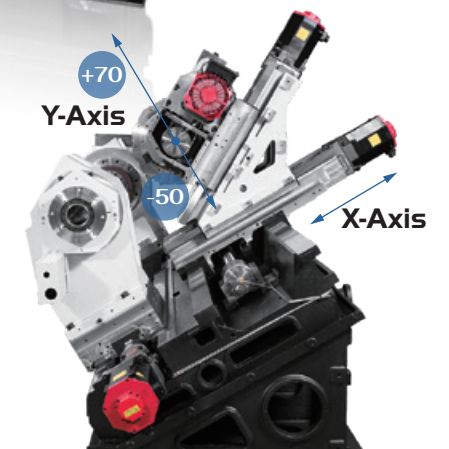
	NX-2500	MT	YT	MS	YS	
Max. Turning Diameter				15.75		inch
Max. Turning Length		T15 Std.: 29.21 (T12 Std.: 28.78 / T15 BMT65: 28.98 / T12 BMT65: 28.98)				inch
Max. Bar Work Capacity Diameter		2.95 (3.19 / 3.58)		2.95 (3.19 / 3.58) / 2.05 (2.56)		inch

A finite element analysis is introduced in the design phase, compared with previous models, the X-axis is reduced to 30 degrees with the ground, and the distribution of internal ribs is improved, improves the rigidity and thermal resistance of the machine effectively. The X, Y and Z axis adopt box guide way design ensures dynamic rigidity and absorbs vibration to maintain accuracy with heavy cutting.



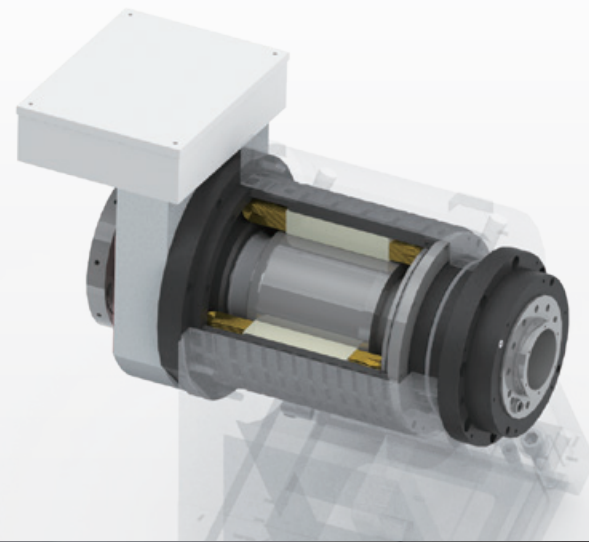
03 Travel & Rapid Traverse

	NX-2500MT	NX-2500YT	NX-2500MS	NX-2500YS	
X-Axis Travel	10.63	10.63	10.63	10.63	inch
X-Axis Rapid Traverse	984	984	984	984	ipm
Z-Axis Travel	31.5	31.5	31.5	31.5	inch
Z-Axis Rapid Traverse	984	984	984	984	ipm
Y-Axis Travel	-	+2.76 ~ -1.97	-	+2.76 ~ -1.97	inch
Y-Axis Rapid Traverse	-	492	-	492	ipm
B-Axis Travel	31.89	31.89	31.89	31.89	inch
B-Axis Rapid Traverse	787	787	1181	1181	ipm



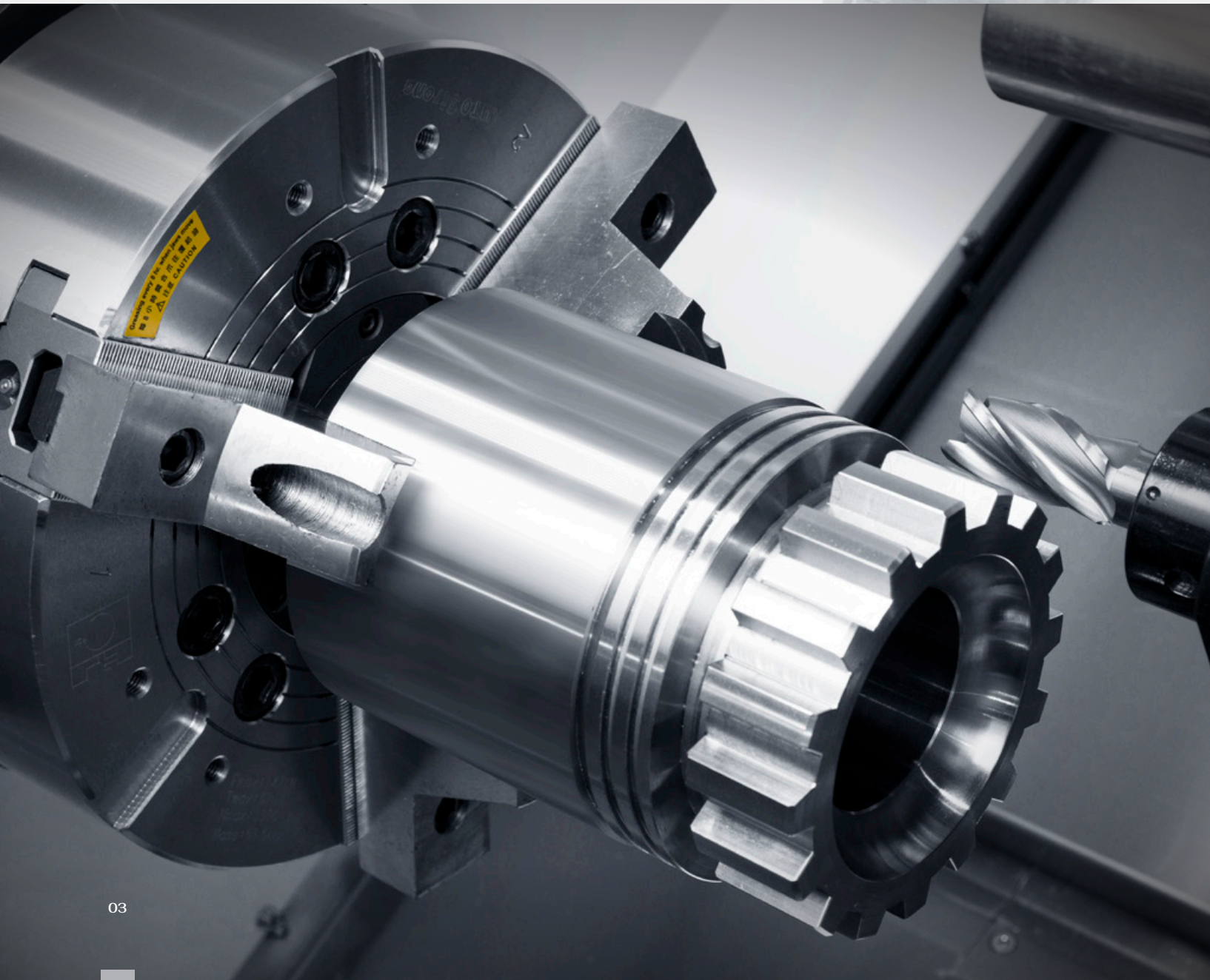
Spindle

The left and right spindles are equipped with built-in motors, provide high precision, low vibration and low noise, capable to achieve better surface roughness of the workpiece.

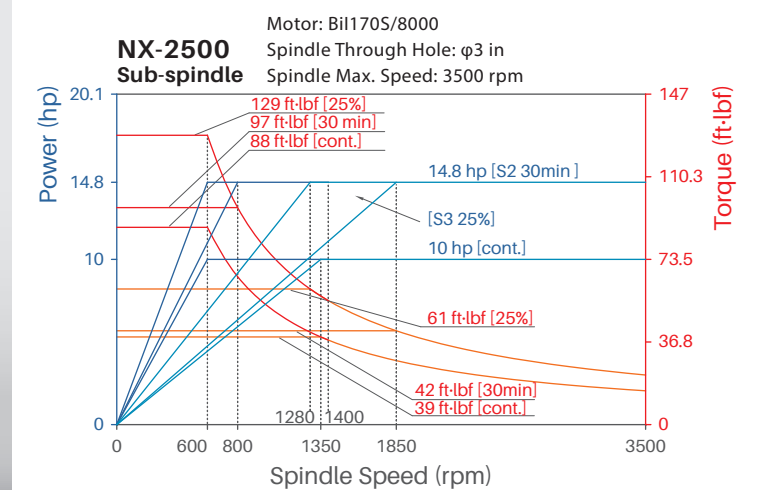
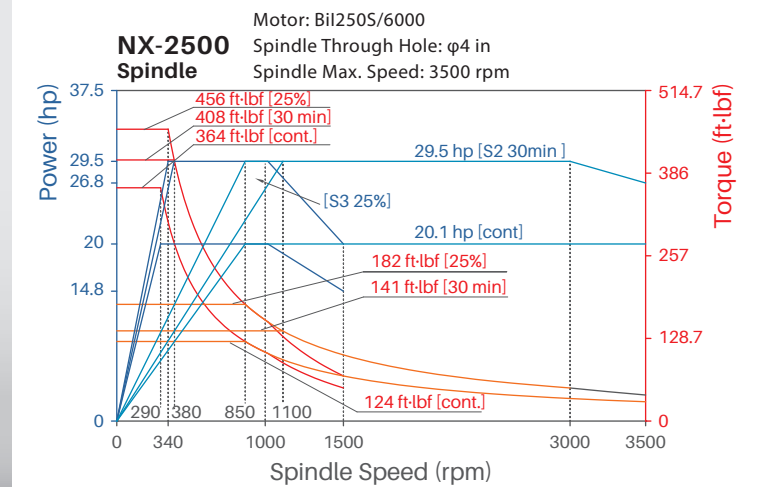
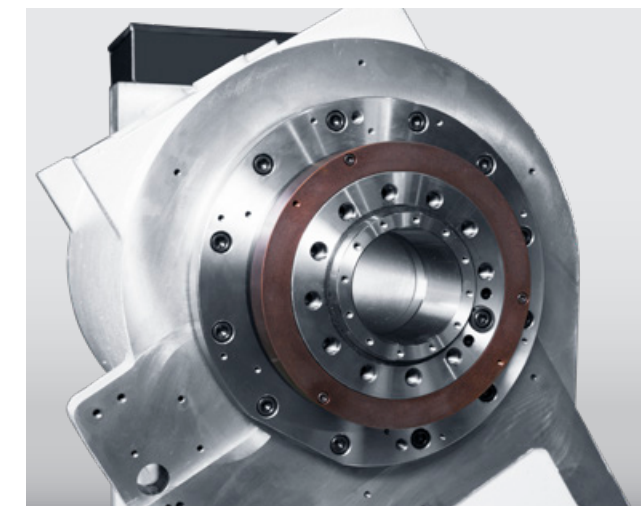


	Left Spindle	Right Spindle*	
Spindle Nose	A2-8	A2-6	
Spindle Speed	3500	3500	rpm
Through Hole Diameter	4.02	2.99	inch
Bearing Inside Diameter	5.51	4.33	inch
Motor Output	29.5 / 20.1	14.8 / 10.1	hp
Max. Torque	455.81	129.07	ft-lb
Standard Chuck Size	10	8	inch

*For NX-2500MS, NX-2500YS Only

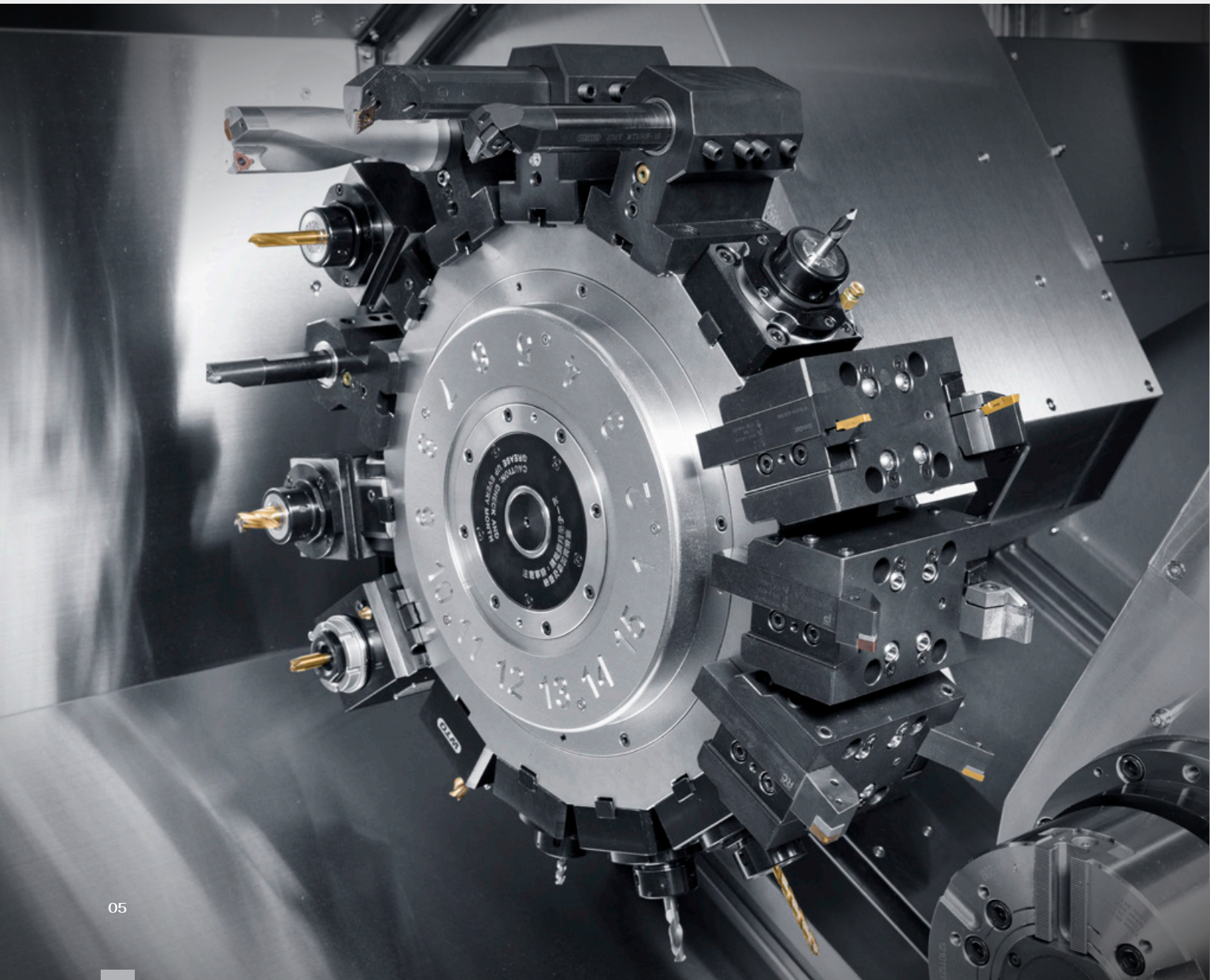


Spindle Output Diagram

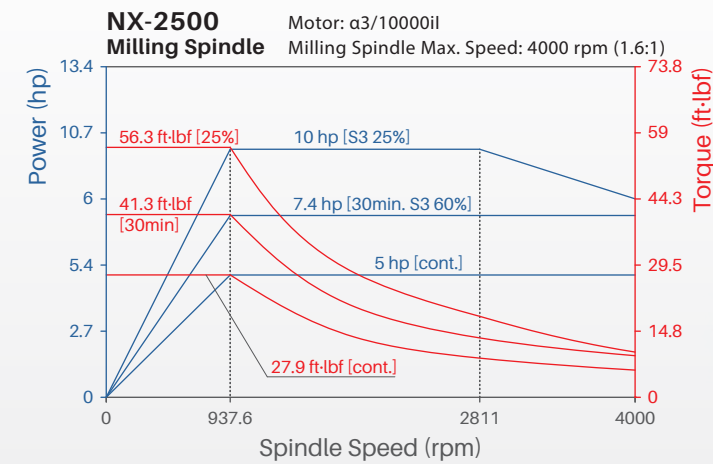


Turret

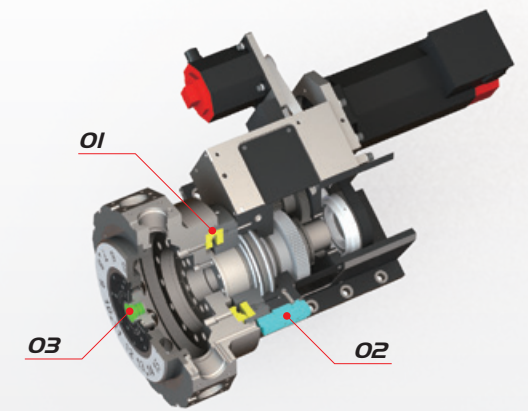
Taiwan Takisawa high-rigidity, high-precision turning-milling turrets benefit from tool change mechanism which uses a large diameter of curved tooth bevel gear. Capable to handle combined machining such as milling, drilling and tapping rather than turning to improve the engineering concentration and processing accuracy of parts processing. Variant tool systems with 12 and 15 tool stations, standard ER32, standard ER40 and BMT65, 4 specifications of milling turret are available.



Spindle Output Diagram

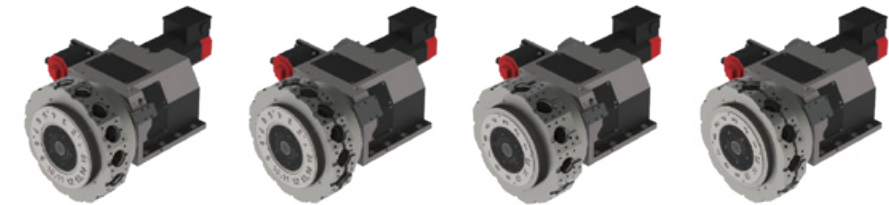


Turret Structure



- O1** Curvic Coupling O.D. 11" performs high rigidity and accuracy
- O2** Ready for 1015 psi hi-pressure coolant
- O3** Easy to grease up

Tool System



Tool System	T15 Standard	T15 BMT65	T12 Standard	T12 BMT65	
Number of Tools	15	15	12	12	
OD Tool Shank Dim.	1	1	1	1	inch
ID Tool Shank Dia.	1-1/2	1-1/2	2	1-1/2	inch
Milling Shank Dia.	3/4	3/4	1	3/4	inch
Milling Collet Specification	ER32	ER32	ER40	ER32	
Milling Spindle Speed	4000				rpm
Motor Output	10.1 / 7.4 / 5.0				hp
Max. Torque	56.3				ft-lb

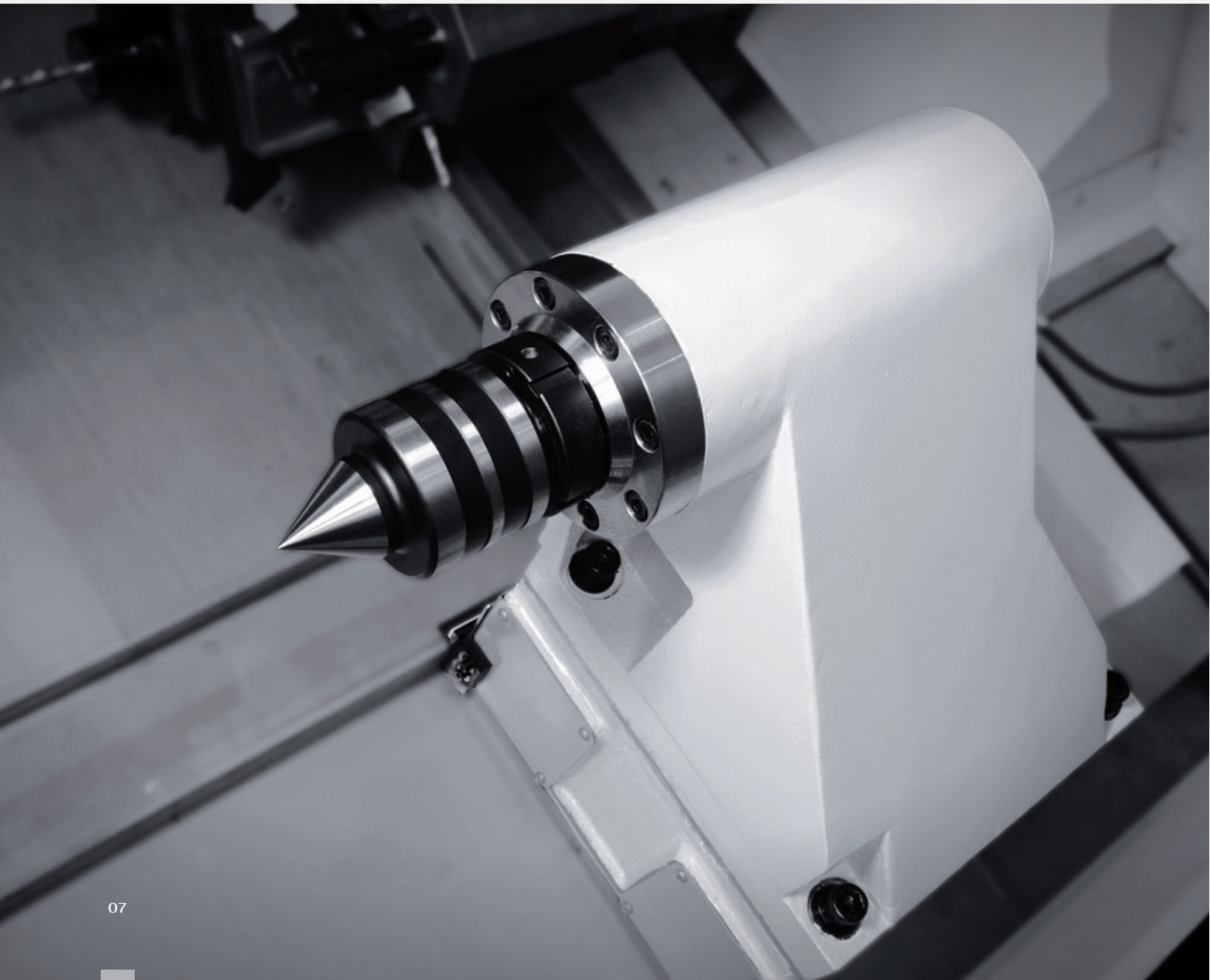
Special Tool Holders

- O1** Gear Hobbing
- O2** Broaching
- O3** Power Skiving
- O4** Adjustable Angle Milling



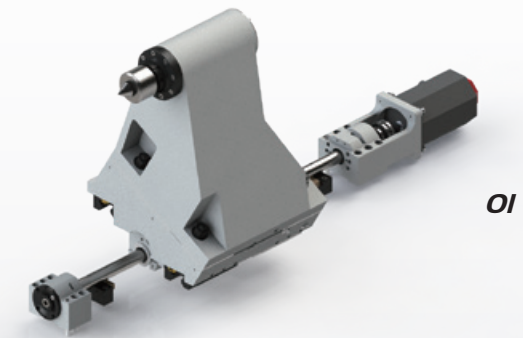
Tailstock

NX-2500MT and NX-2500YT are equipped with servo tailstock. The tailstock is driven by servo motor, with advantages of easy operation and fast movement. In case of heavy load condition, rotary spindle of tailstock with fixed center can be selected.



01 Servo Tailstock

Tapered Bore Type	MT.5	
Tailstock Thrust	741 ~ 1910	lbf
Travel	22.44	inch
Rapid Traverse	787	ipm
Approach	39	ipm
Retract	787	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

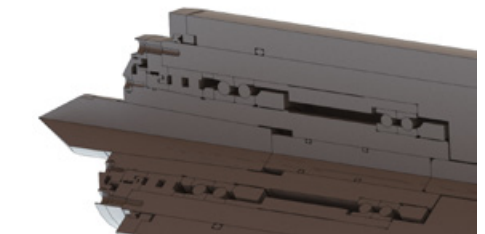
Recommended for heavy-duty use.

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.



01

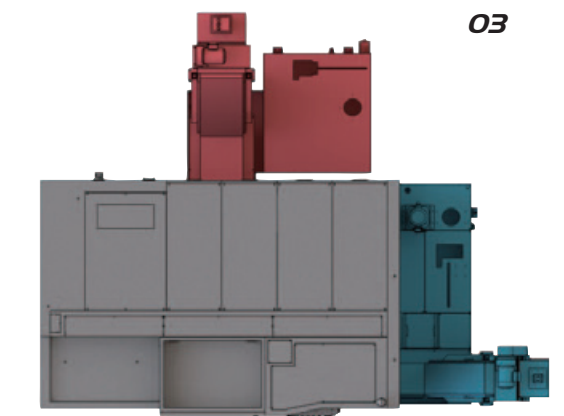
Hinge Type
Chip Conveyor

Scraper Type
Chip Conveyor

02



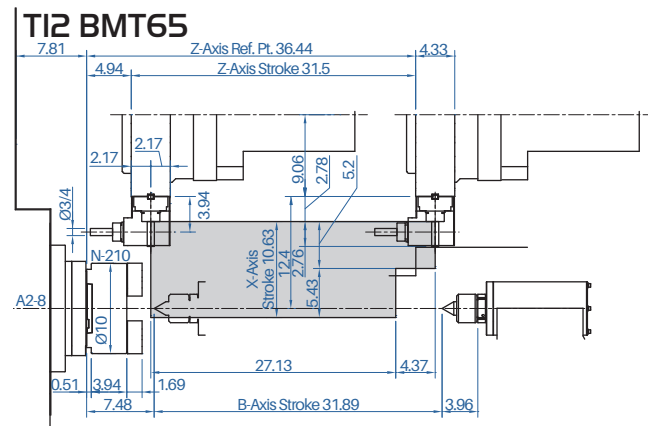
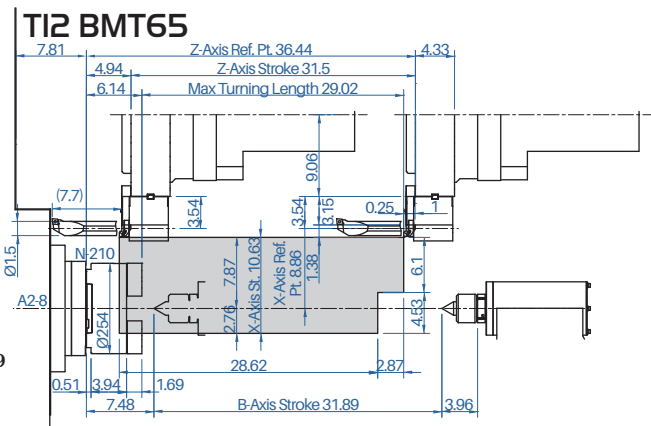
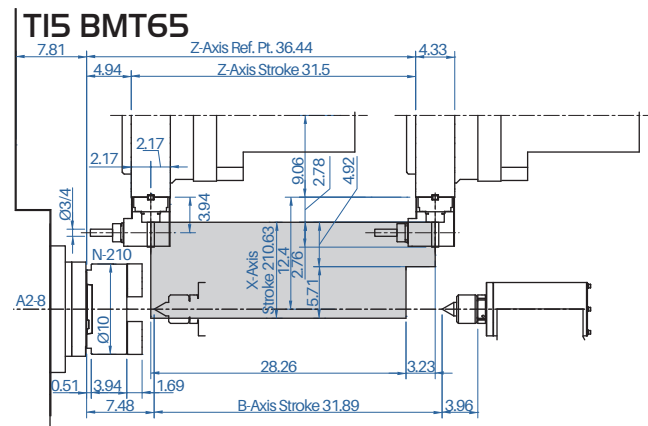
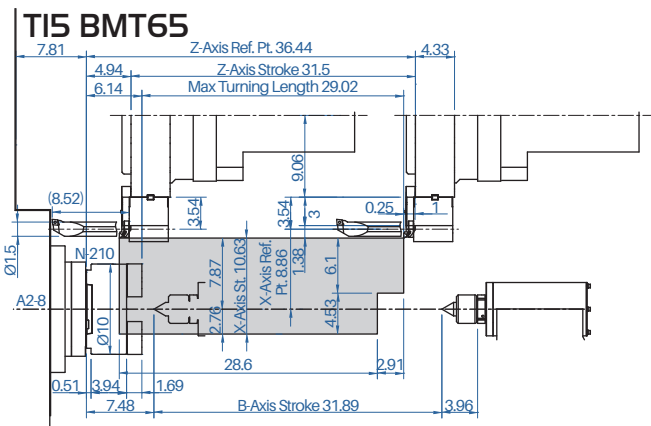
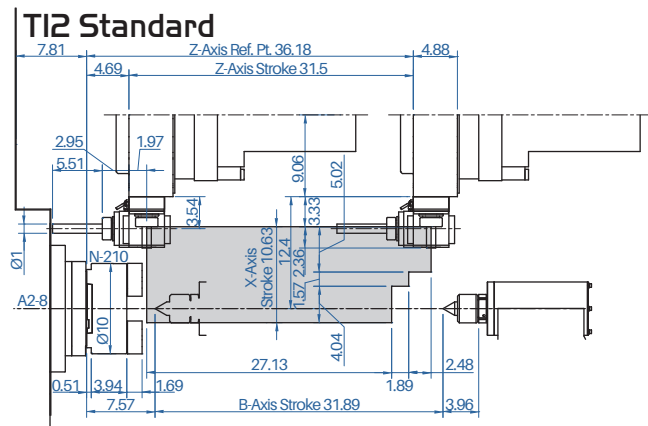
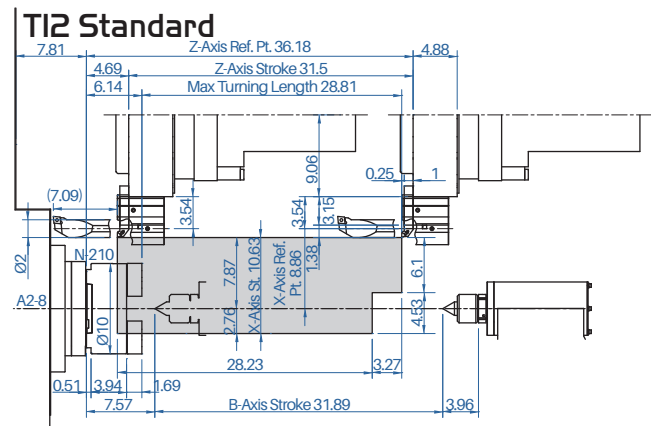
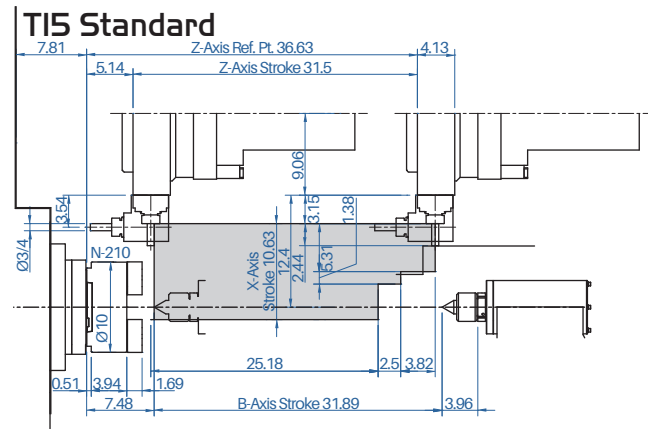
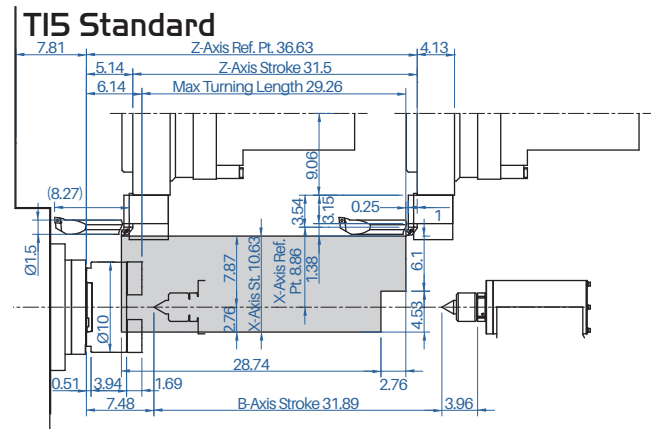
Chip Type	Curly Metallic Chip Steel / Aluminum	Power Metallic Chip Foundry / Aluminum / Brass	Non-Metallic
Hinge Type	○	×	○
Scraper Type	×	○	×



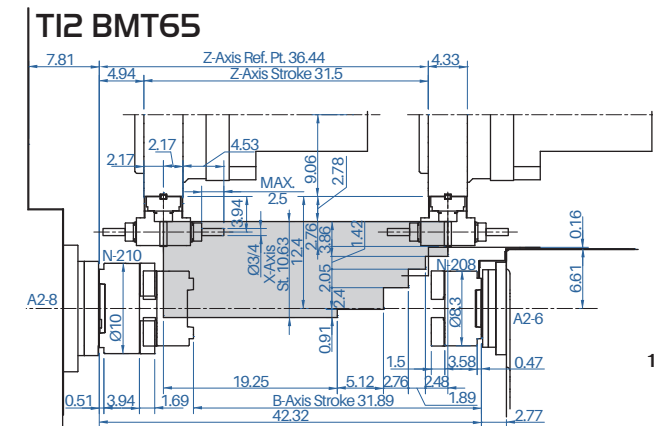
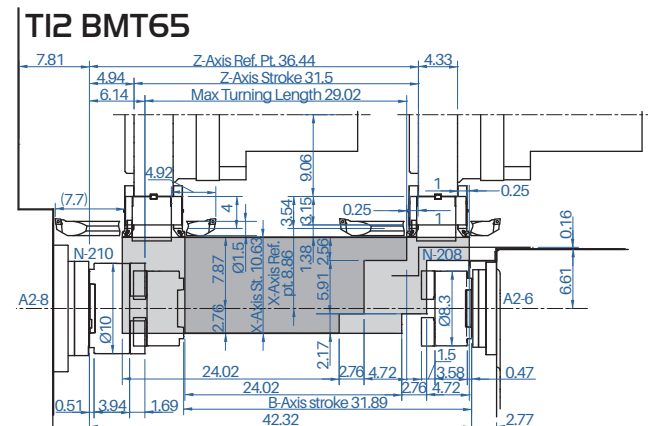
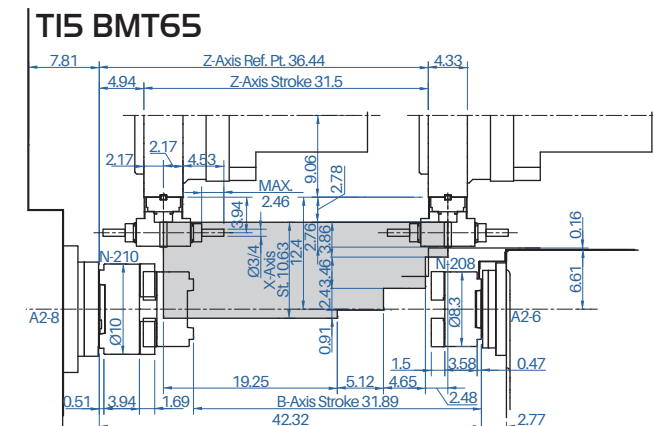
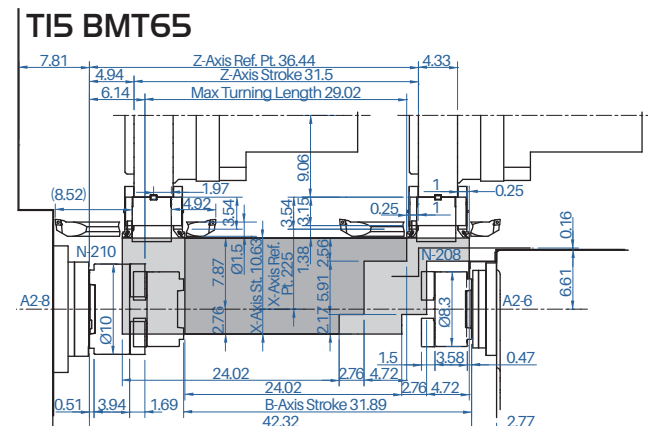
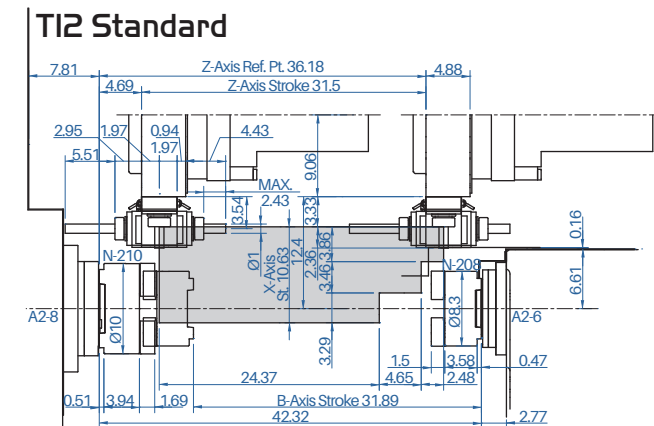
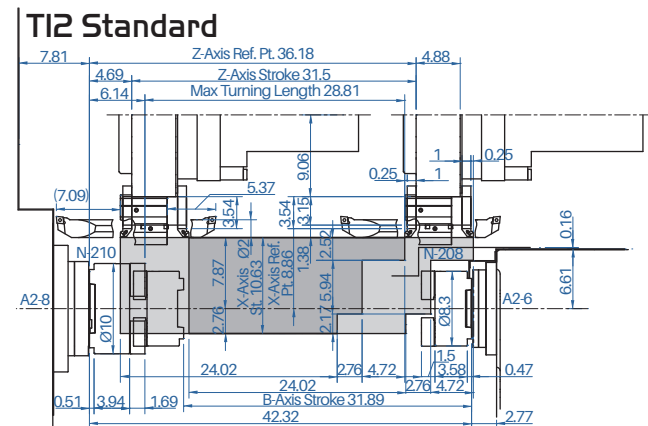
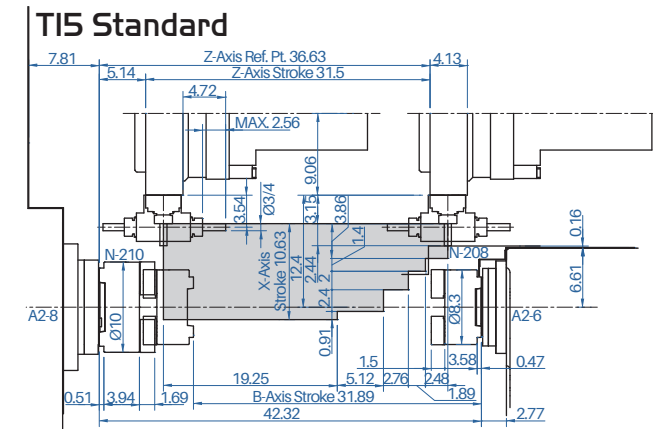
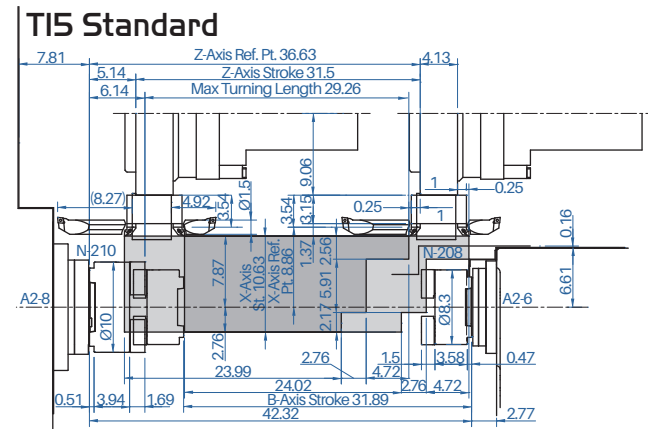
03

Travel Range

NX-2500MT / NX-2500YT



NX-2500MS / NX-2500YS



Machine Specifications

Item		NX-2500				
		MT	YT	MS	YS	
Capacity	Max. Swing	inch	32.28			
	Standard Turning Diameter	inch	T15 STD.: 9.45 (T12 STD.: 11.69 / T15 BMT65: 9.53 / T12 BMT65: 12.20)			
	Max. Turning Diameter	inch	15.75			
	Max. Turning Length	inch	T15 STD.: 29.21 (T12 STD.: 28.78 / T15 BMT65: 28.98 / T12 BMT65: 28.98)			
	Dist. Between Centers	inch	— / 10.43 ~ 42.32			
Travel	X-Axis Travel	inch	10.63			
	Z-Axis Travel	inch	31.50			
	Y-Axis Travel	inch	—	+2.76 ~ -1.97	—	+2.76 ~ -1.97
	B-Axis Travel	inch	31.89			
Left Spindle	Spindle Speed	rpm	3500			
	Spindle Nose		A2-8			
	Through Hole Dia.	inch	4.02			
	Max. Bar Work Capacity	inch	2.95 (3.19 / 3.58)			
	Bearing Diameter	inch	5.51			
Right Spindle	Spindle Speed	rpm	—	3500		
	Spindle Nose		—	A2-6		
	Through Hole Dia.	inch	—	2.99		
	Max. Bar Work Capacity	inch	—	2.05 (2.56)		
	Bearing Diameter	inch	—	4.33		
Turret	Number of Tools		T15 STD. (T12 STD. / T15BMT65 / T12BMT65)			
	OD Tool Shank Dim.	inch	1 (1 / 1 / 1)			
	ID Tool Shank Dia.	inch	1-1/2 (2 / 1-1/2 / 1-1/2)			
	Milling Shank Dia.	inch	3/4 (1 / 3/4 / 3/4)			
	Spindle Speed		4000			
Tailstock	Tailstock Type		Live Centre (Revolving Center)		—	
	Tapered Bore Type		MT. 5		—	
Feedrate	X-Axis Rapid Traverse	ipm	984			
	Z-Axis Rapid Traverse	ipm	984			
	Y-Axis Rapid Traverse	ipm	492			
	B-Axis Rapid Traverse	ipm	984	1181		
Motor	Left Spindle Motor	hp	29.5 / 20.1			
	Right Spindle Motor	hp	—	14.8 / 10.1		
	Milling Spindle Motor	hp	10.1 / 7.4 / 5.0			
	Index Motor	hp	1.6			
	X-Axis Servo Motor	hp	4.0			
	Z-Axis Servo Motor	hp	4.0			
	Y-Axis Servo Motor	hp	4.0			
	B-Axis Servo Motor	hp	3.4			
Machine Size	Height	inch	92.62			
	Width	inch	127.96			
	Depth	inch	76.95			
	Weight	lb	16650	17200	17100	17650

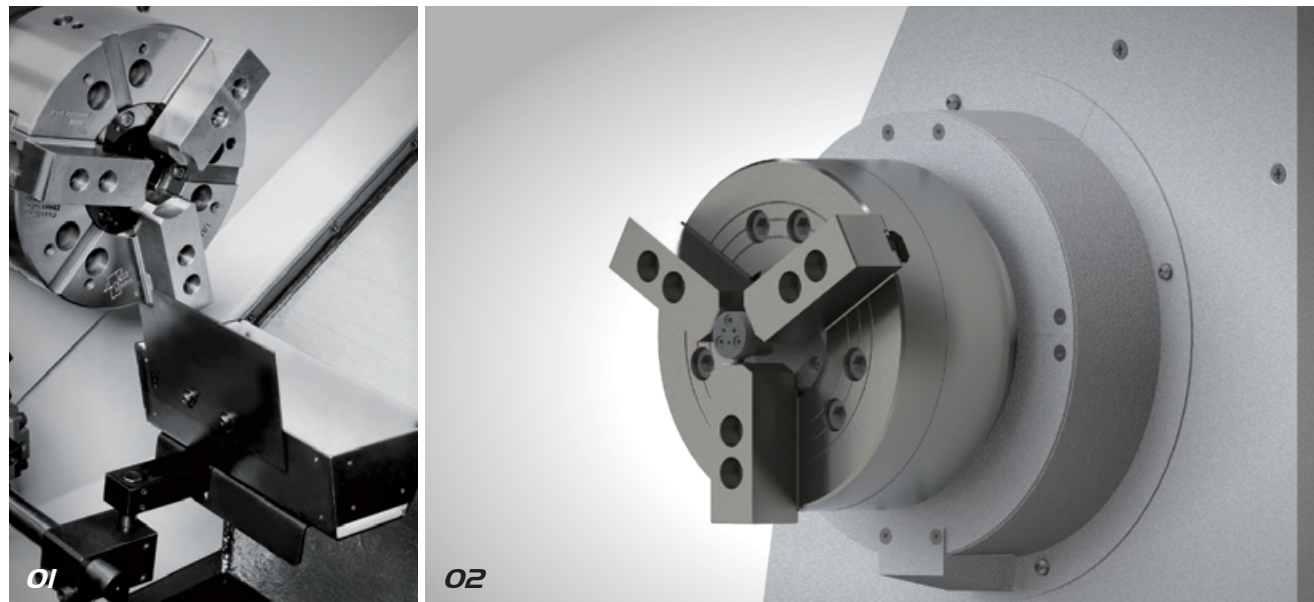
Standard and Optional Accessories

Accessories	NX-2500			
	MT	YT	MS	YS
Built-In Motor Left Spindle	●	●	●	●
Built-In Motor Right Spindle	-	-	●	●
Servo Tailstock with Live Centre	●	●	-	-
Servo Tail stock with Revolving Center	◎	◎	-	-
O.D Tool Holder	●	●	●	●
Face Tool Holder	●	●	●	●
U-Drill Tool Holder	●	●	●	●
Boring Bar Tool Holder	●	●	●	●
Boring Bar Bush (Ø1/4", Ø5/16", Ø3/8", Ø1/2")	●	●	●	●
Boring Bar Bush (Ø5/8", Ø3/4", Ø1", Ø1-1/4", Ø1-1/2")	●	●	●	●
U-Drill Bush (Ø5/8", Ø3/4", Ø1", Ø1-1/4", Ø1-1/2")	●	●	●	●
Short Boring Bar Bush (Ø1/4", Ø5/16", Ø3/8", Ø1/2")	-	-	●	●
Short Boring Bar Bush (Ø5/8", Ø3/4", Ø1", Ø1-1/4", Ø1-1/2")	-	-	●	●
Drill Bush (MT.1 / MT.2 / MT.3 / MT.4)	◎	◎	◎	◎
Short Drill Bush (MT.1 / MT.2*)	-	-	◎	◎
X-Axis Milling Holder	●	●	●	●
Z-Axis Milling Holder	●	●	●	●
Automatic Tool Setter (Left Spindle Only)	◎	◎	◎	◎
Manual Tool Setter	◎	◎	◎	◎
Linear Scales	◎	◎	◎	◎
Coolant Pump (1/2HP)	●	●	●	●
Coolant Pump (3/4HP, 1HP, 1-1/2HP)	◎	◎	◎	◎
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 Side Chip Conveyor	◎	◎	◎	◎
Rear Side 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

*Ø1-1/2 Bush can Only be Used for T12 Standard Turret

Special Specification Example



01 Left Spindle Parts Catcher

Max. Parts Dia.	3.54	inch
Max. Parts Length	7.87	inch
Max. Parts Weight	6.5	lb

02 Parts Pusher

Pusher Stroke	3.74	inch
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Highly Accurate Optional Equipment

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

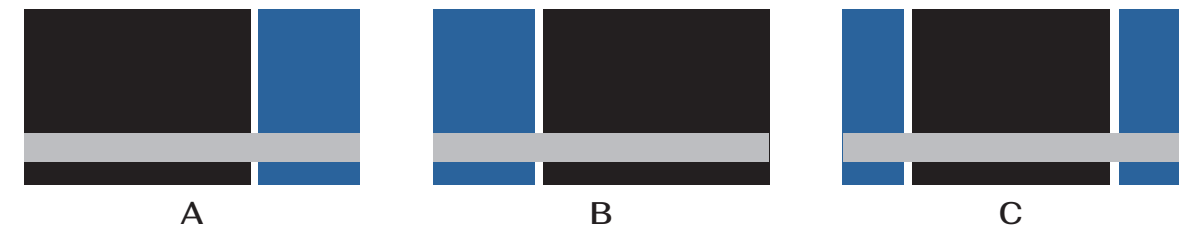
Please contact us for advice on these options.

- 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

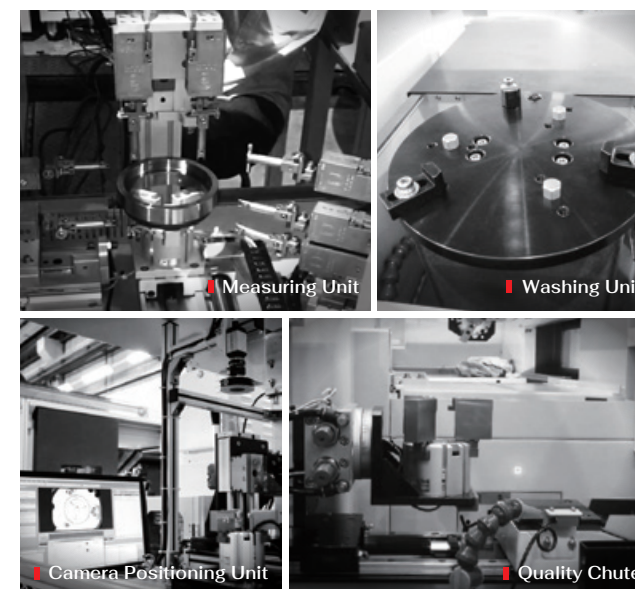


High Speed Gantry Loader System

Layout Variations



Peripheral Equipment



Gantry Loader Specifications

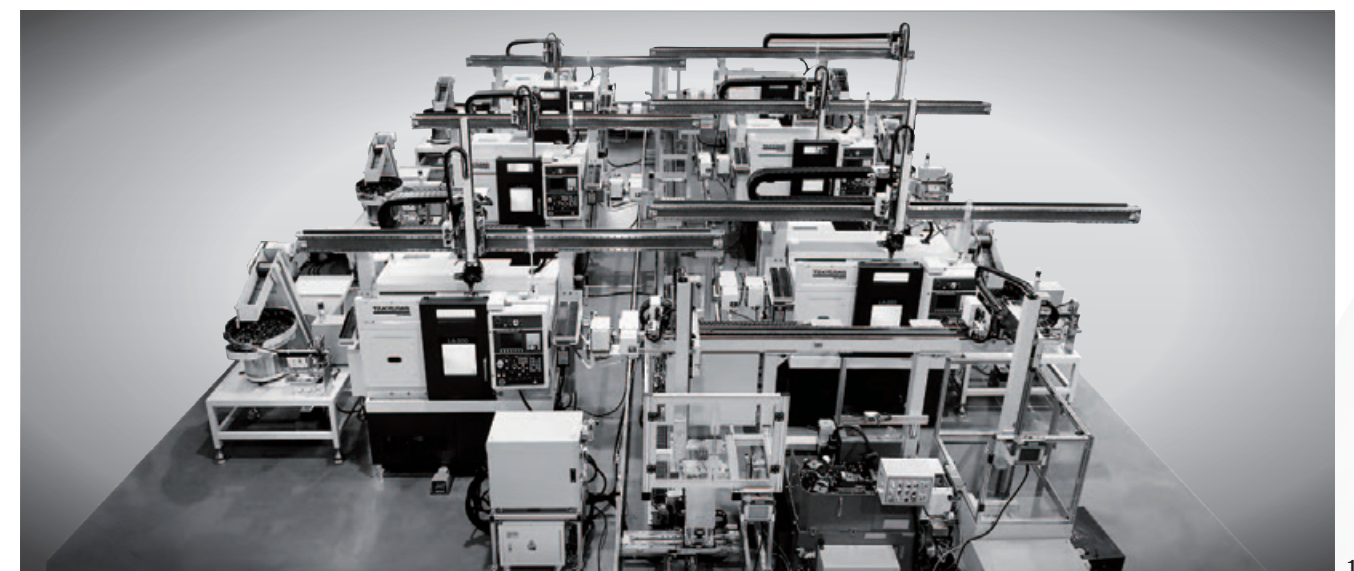
Feedrate		
X-Axis Rapid Traverse	7086.61	ipm
Z-Axis Rapid Traverse	5905.51	ipm

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	NX-2500	MT	YT	MS	YS
Controller					
Oi-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 (Linear Axis: ±99999.9999", Rotary Axis: ±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 -Unit	●	●	●	●	●
Interpolating Functions					
Positioning (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)	●	●	●	●	●
Reference Point Return Check (G27)	●	●	●	●	●

Specifications · Contents	NX-2500	MT	YT	MS	YS
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	●	●	●	●	●

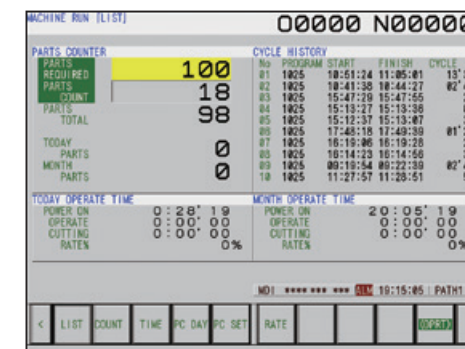
Specifications · Contents	NX-2500	MT	YT	MS	YS
Tool Functions / Tool Offset Functions					
T Function (T2 + 2 Digits)	●	●	●	●	●
Tool Offsets, 32 Pieces	-	-	-	-	-
Tool Offsets, 64 Pieces	-	-	-	-	-
Tool Offsets, 128 Pieces	●	●	●	●	●
Tool Offsets, 200 Pieces	◎	◎	◎	◎	◎
Tool Offsets, 400 Pieces	-	-	-	-	-
Tool 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 128K byte (320m)	-	-	-	-	-
Part Program Memory Capacity 320K byte (800 m)	-	-	-	-	-
Part Program Memory Capacity 512K byte (1280 m)	-	-	-	-	-
Part Program Memory Capacity 1M byte	-	-	-	-	-
Part Program Memory Capacity 2M byte	-	●	●	●	●
Registrable Programs, 63 Programs	-	-	-	-	-
Registrable Programs, 400 Programs	-	-	-	-	-
Registrable Programs, 1000 Programs	●	●	●	●	●
Program Editing	●	●	●	●	●
Program Protection	●	●	●	●	●
Extended Program Editing	●	●	●	●	●
Background Editing	●	●	●	●	●

Specifications · Contents	NX-2500	MT	YT	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 - 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 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

