

# NTC Series

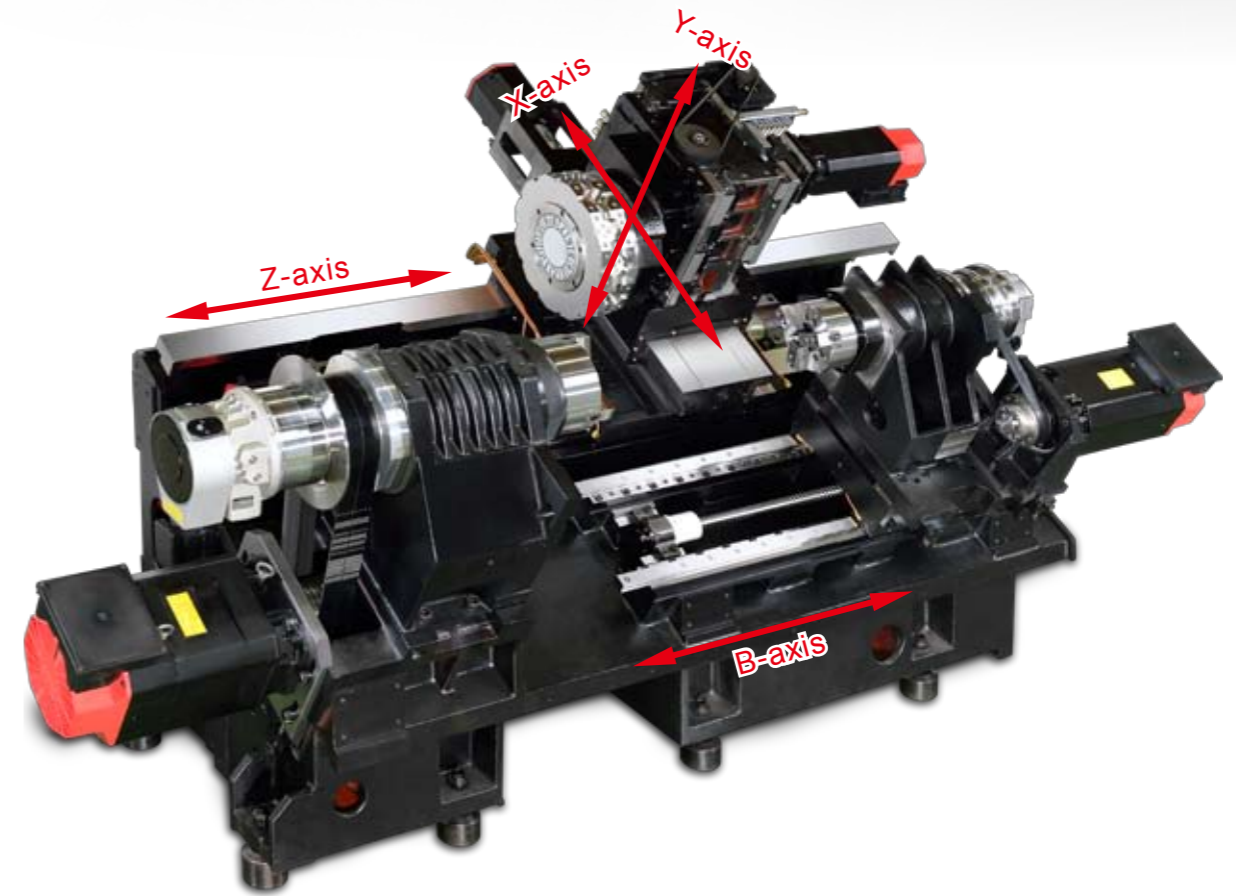
High Efficiency CNC Turning Center



# NTC Series

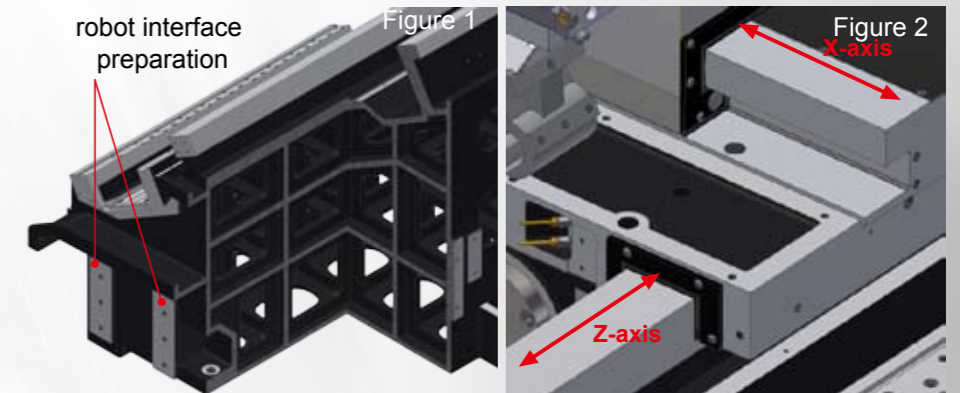
High Efficiency CNC Turning Center

Design of utmost performance modular, NTC series provides the best solution in diverse complex machining. To meet various customer demands, it's flexible to choose suitable turrets for spindle, tailstock or sub-spindle that greatly increases production efficiency. Featuring multiple valuable functionality, NTC is suitable for applications in IT electronics, automotive and machinery parts.



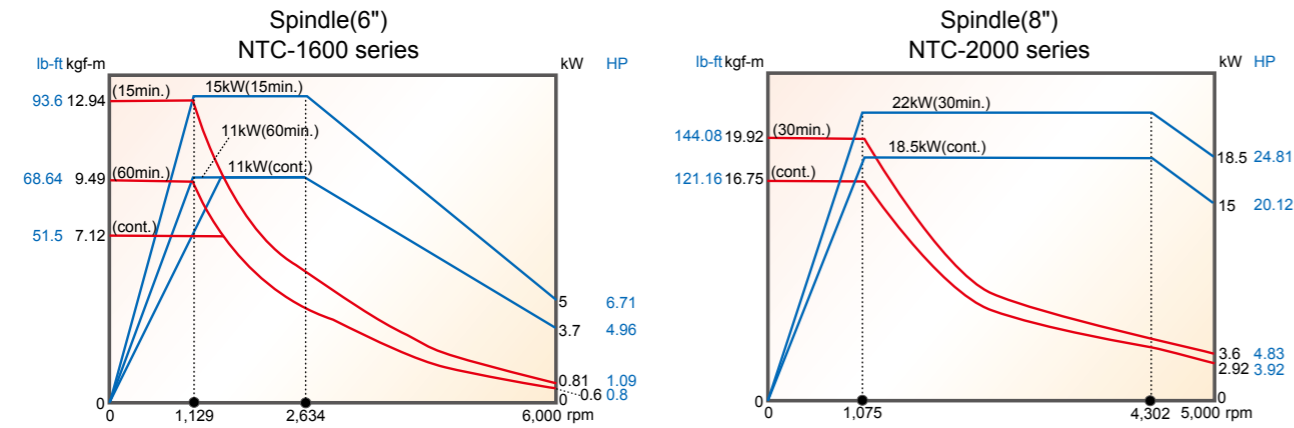
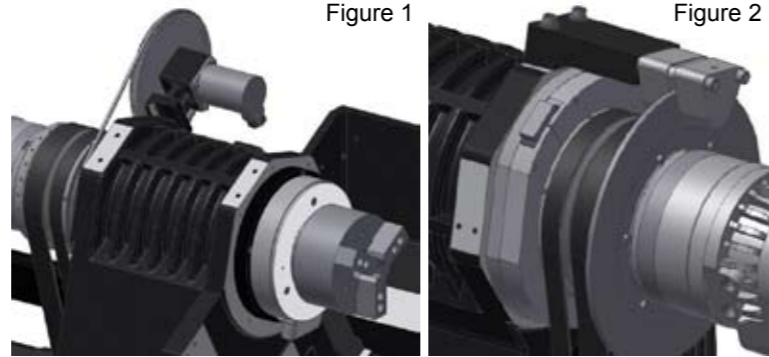
## Superb Base Structure

- 30° One-piece Slanted Bed Design : Extends the space for chips removal.
- Cross type ribs inside the base design provides the best rigidity. Durable Meehanite casting is adopted to simulate the structural deformation of the body under various conditions, integrated with YCM hand scrapping skills for box guideways, which ensures the best accuracy and lifetime. (Figure 1)
- X/Z-axis boxway design with wear-resistant pad strengthens rigidity and damping capacity reducing vibration. (Figure 2)



## High Precision Spindle

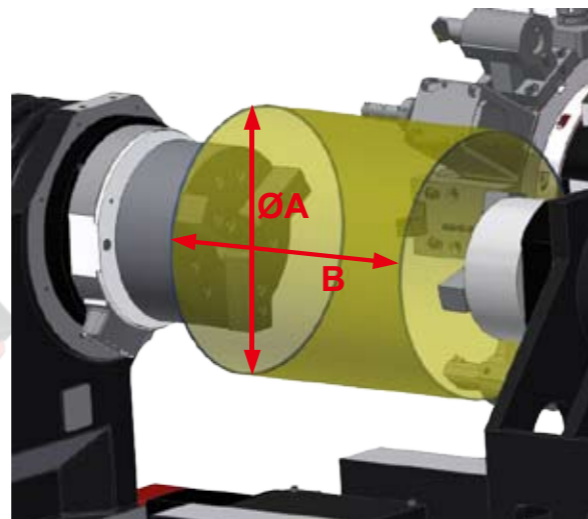
- Hole through draw bar for bars of  $\varnothing 65\text{mm}$  (8") &  $\varnothing 51\text{mm}$  (6")
- The spindle is equipped with position encoder to detect speed and correct position. (Figure 1)
- With milling function spindle, the indexing accuracy is up to  $0.001^\circ$ . (Figure 2)



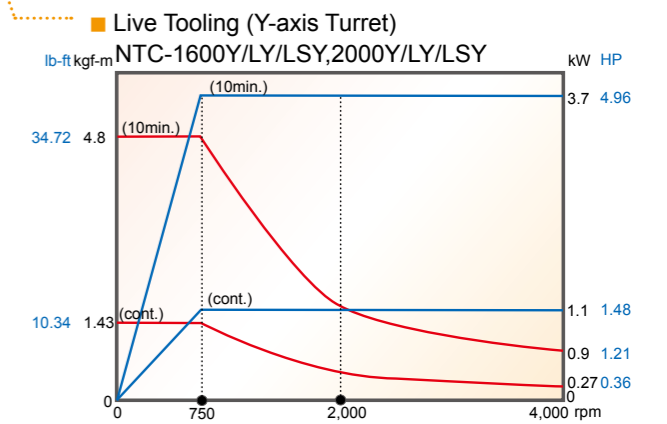
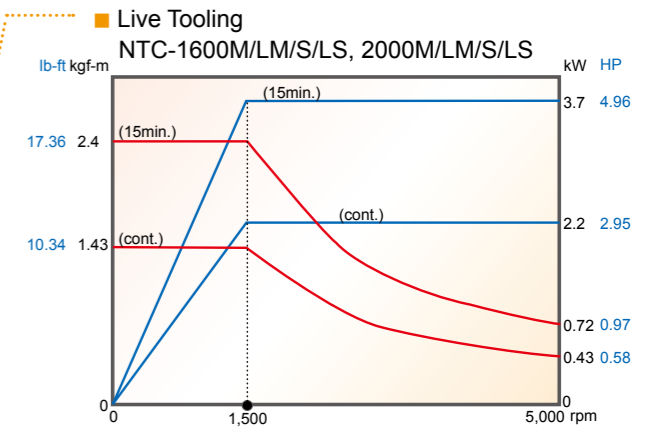
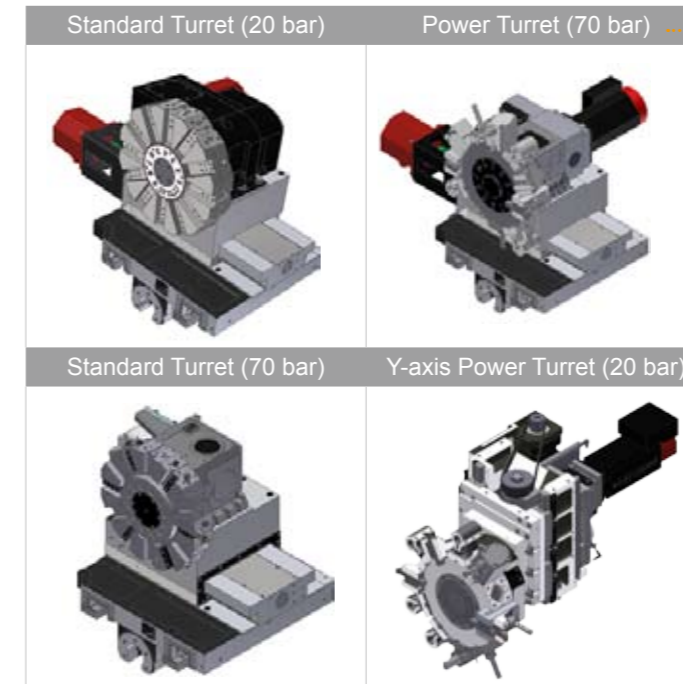
## Machining Capacity

Model	NTC-1600				NTC-2000			
	Short/ Long(L)	M/LM	Y/LY	LS/LSY	Short/ Long(L)	M/LM	Y/LY	LS/LSY
Function	Standard	Power Turret	Y-axis Turret	Sub Spindle/ Y-axis + Sub Spindle	Standard	Power Turret	Y-axis Turret	Sub Spindle/ Y-axis + Sub Spindle
Chuck Size	6"				8"			
Max. Turning Diameter ( $\varnothing A$ )	$\varnothing 320\text{ mm}$ $\varnothing 12.6"$	$\varnothing 320\text{ mm}$ $\varnothing 12.6"$	$\varnothing 320\text{ mm}$ $\varnothing 12.6"$	$\varnothing 310\text{ mm}$ $12.2"$	$\varnothing 320\text{ mm}$ $\varnothing 12.6"$	w $\varnothing 320\text{ mm}$ $\varnothing 12.6"$	$\varnothing 310\text{ mm}$ $12.2"$	$\varnothing 310\text{ mm}$ $12.2"$
Max. Turning Length (B)	320/650 mm $12.6"/25.59"$	240/570 mm $9.45"/22.44"$	240/570 mm $9.45"/22.44"$	650/570 mm $25.59"/22.44"$	320/650 mm $12.6"/25.59"$	240/570 mm $9.45"/22.44"$	240/570 mm $9.45"/22.44"$	650/570 mm $25.59"/22.44"$

Note (\*1): The dimension or data is for servo tailstock. The servo tailstock is an option.



## Multiple Choices for Turret



## High Performance Y-axis Complex Machining

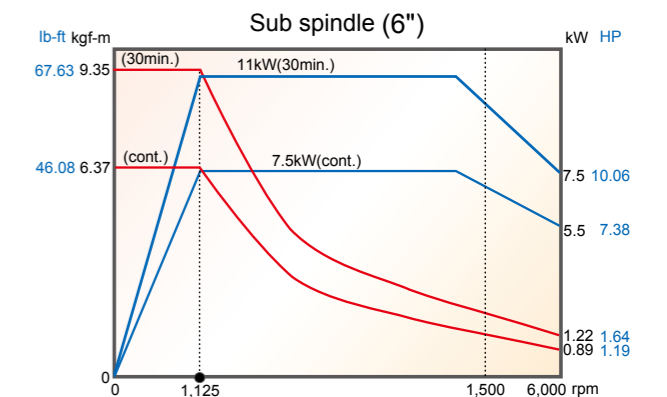
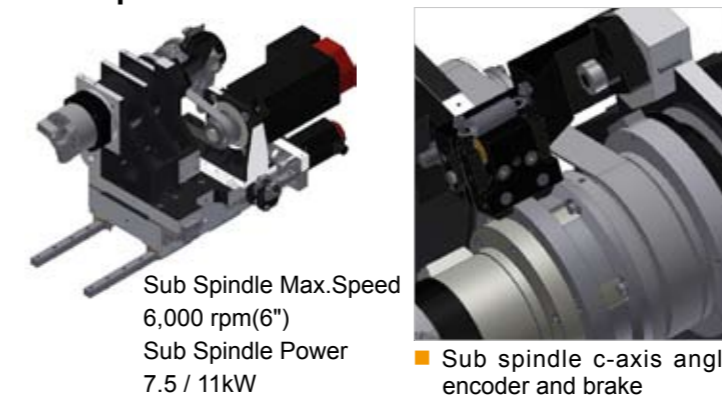
- Integrated Y-axis function with live tooling turret for X, Y, Z feeding, which is best for complex machining. The orthogonal Y-axis is designed for maintaining machining accuracy.

## Modular Design of Tailstock, Sub Spindle

In addition to manual tailstock, programmable tailstock, servo tailstock and sub-spindle are selectable.

Model	NTC-1600/M/Y/L/LM/LY, NTC-2000/M/Y/L/LM/LY		
	Manual (std.)	Programmable (opt.)	Servo (opt.)
Tailstock Type			
Tailstock Driven	Saddle traction (Manual)	Saddle traction (Automatic)	Servo motor
Quill Stroke	100mm 3.94"	100mm 3.94"	0mm 0"
Quill Taper	MT-4		
Center	Rotary type		

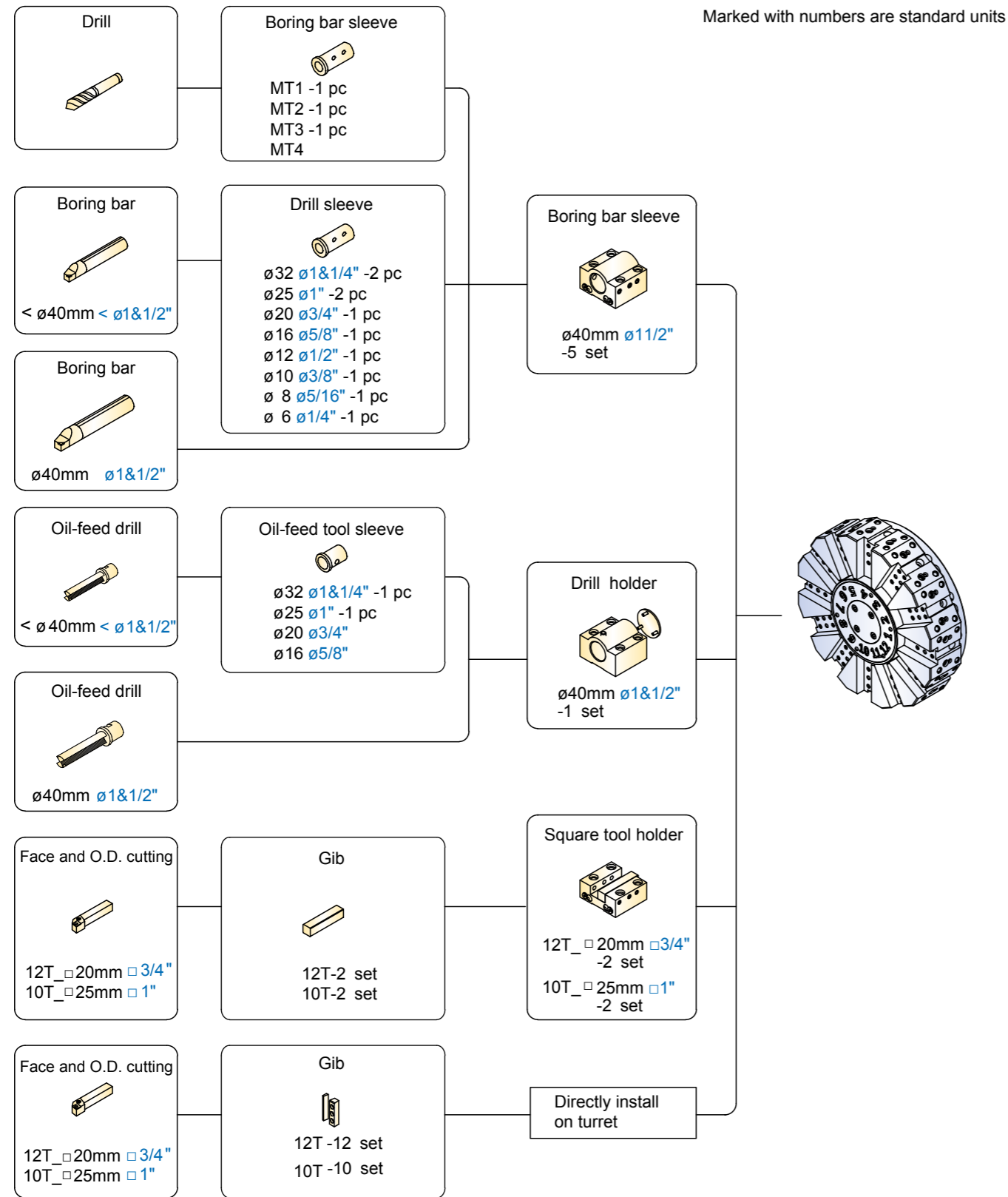
## Sub Spindle



# TOOLING CHART

Unit: mm inch

## Standard Turret

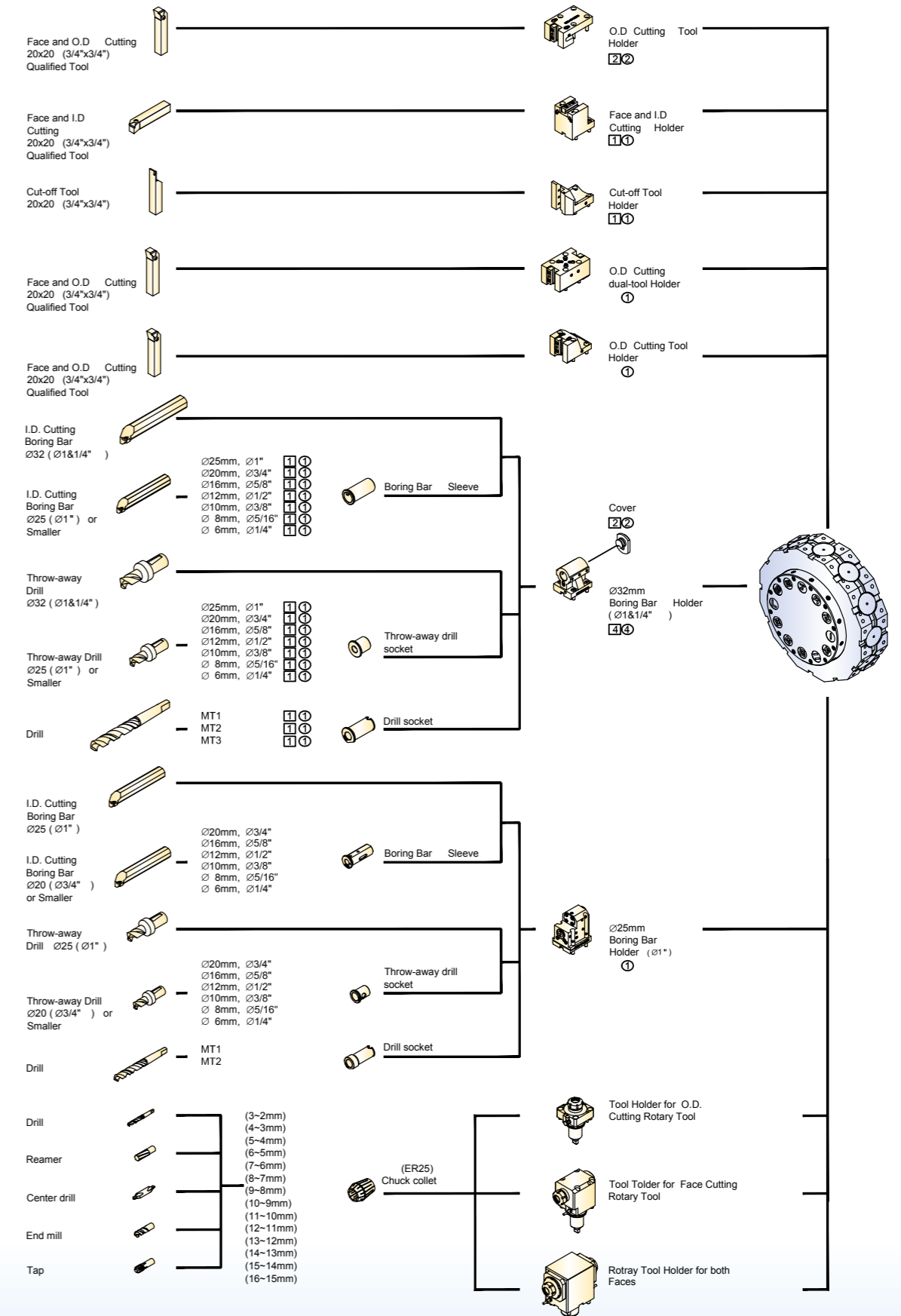


# TOOLING CHART

Unit: mm inch

## BMT55

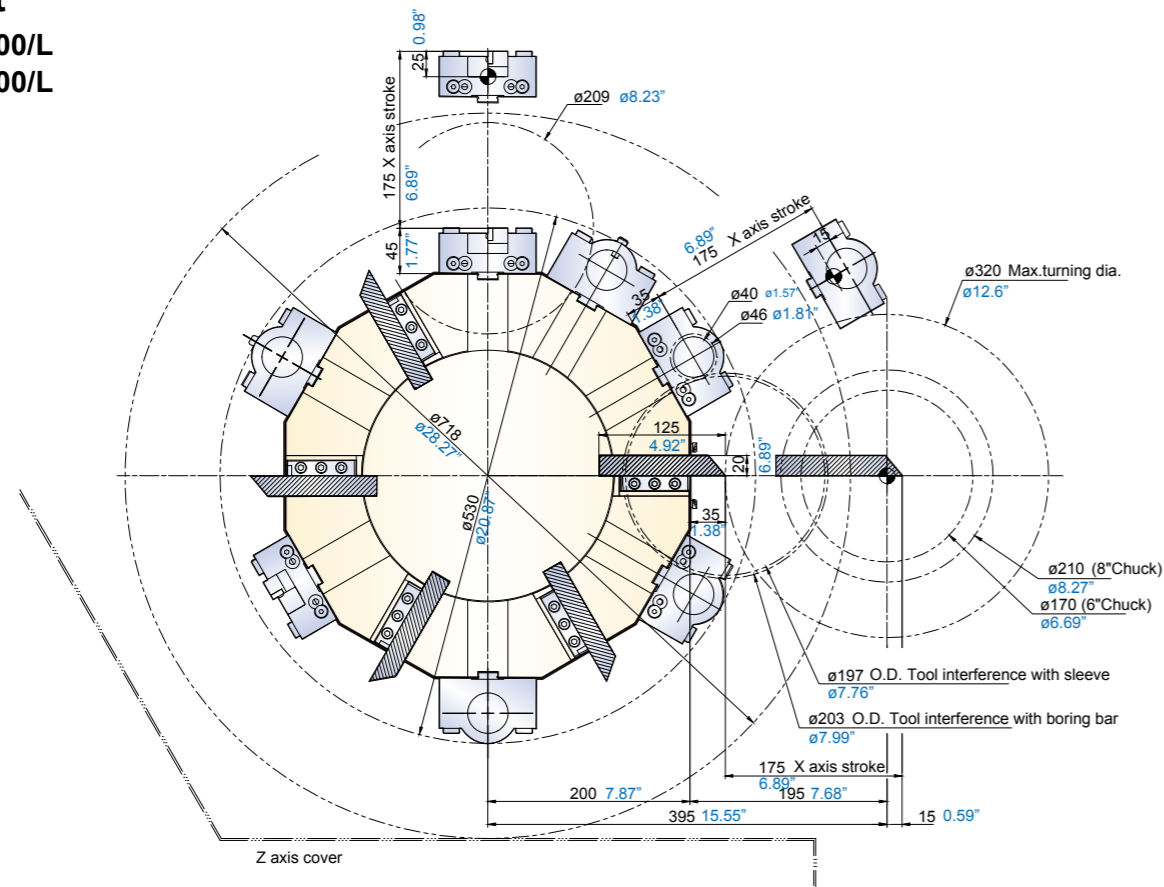
□ NTC-1600/2000M,LM,Y,LY 標準附件數量  
○ NTC-1600/2000LS,LSY 標準附件數量



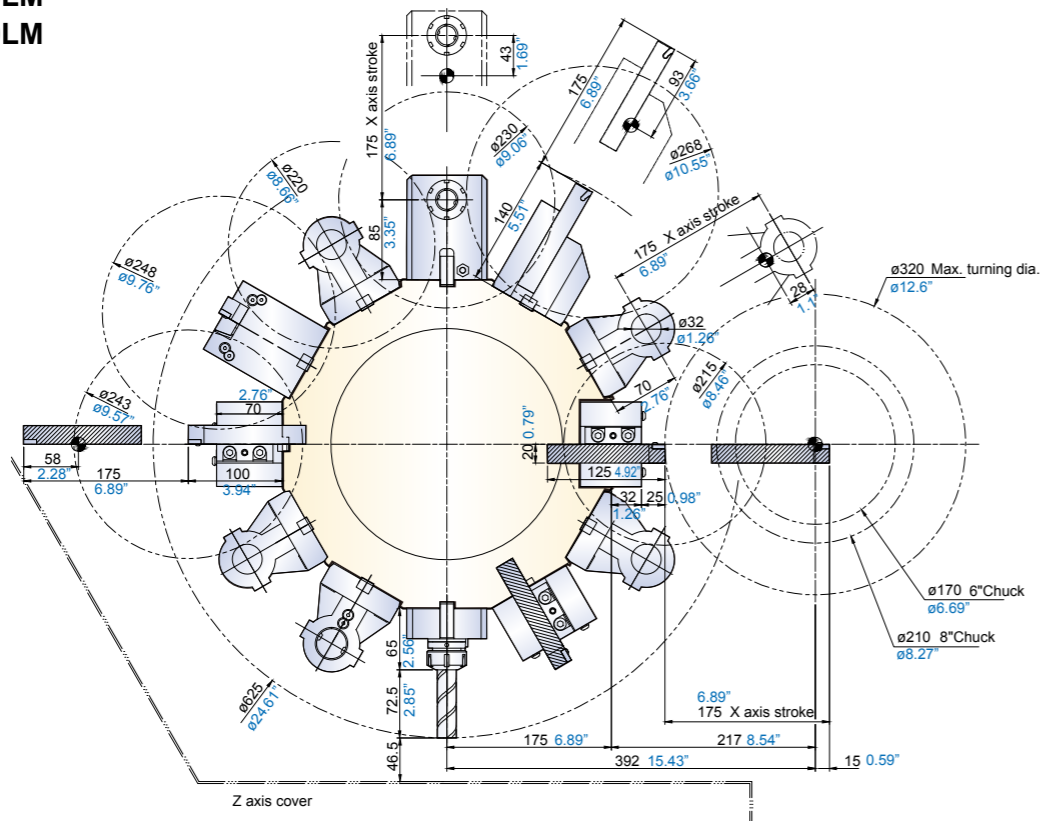
# TOOL INTERFERENCE

Unit: mm inch

## Turret NTC-1600/L NTC-2000/L



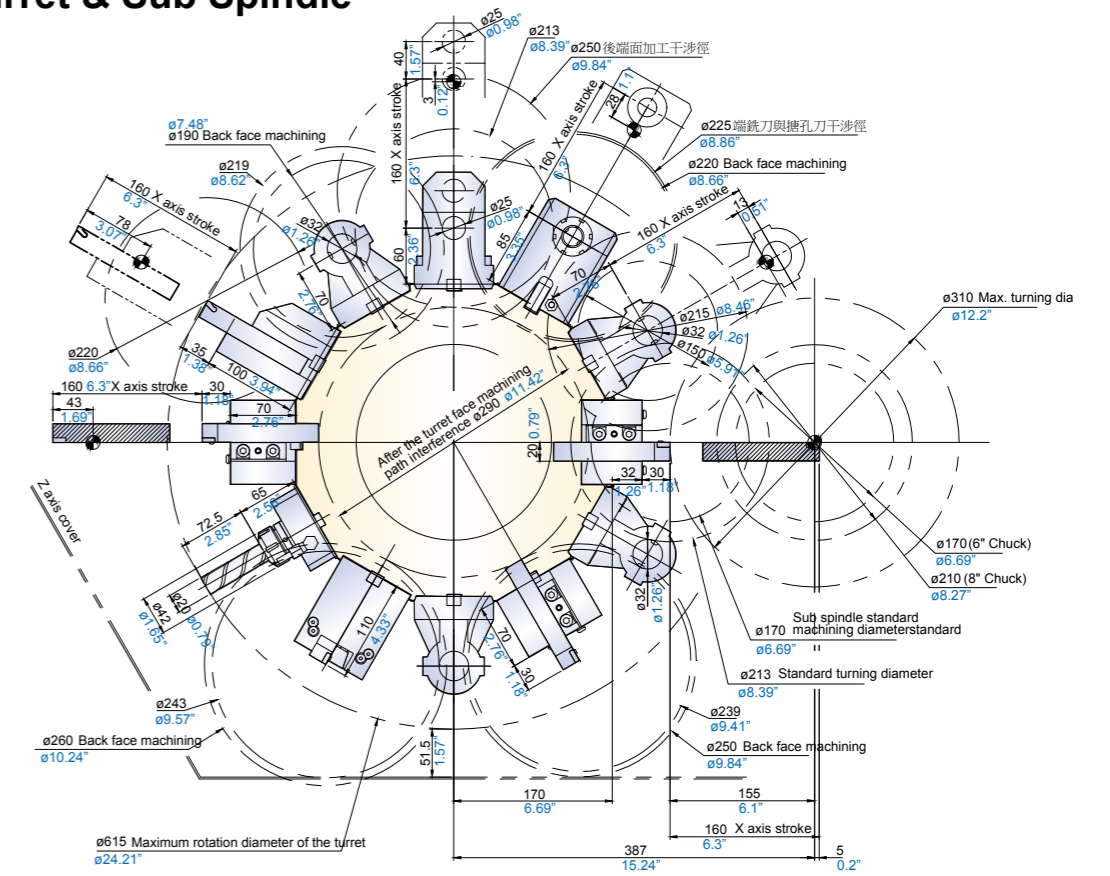
## Power Turret NTC-1600LM NTC-2000LM



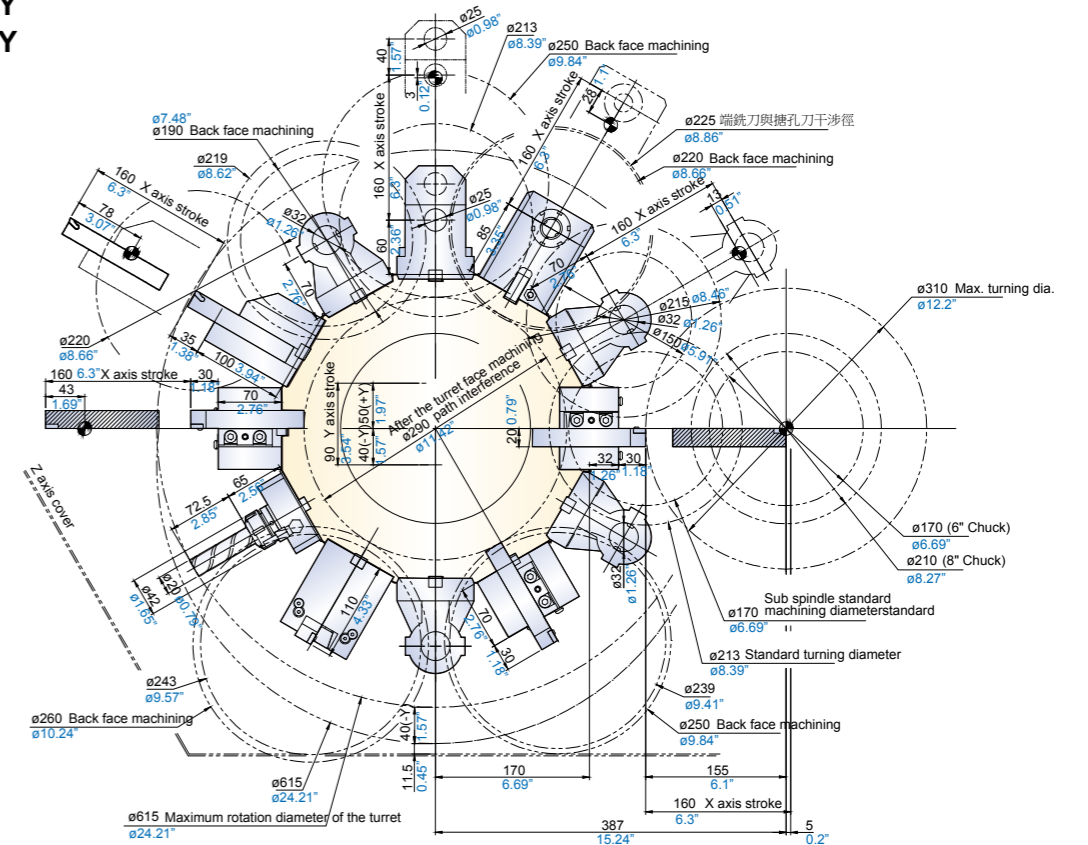
# TOOL INTERFERENCE

Unit: mm inch

## Power Turret & Sub Spindle NTC-1600LS NTC-2000LS



## Y-axis Power Turret & Sub Spindle NTC-1600LSY NTC-2000LSY

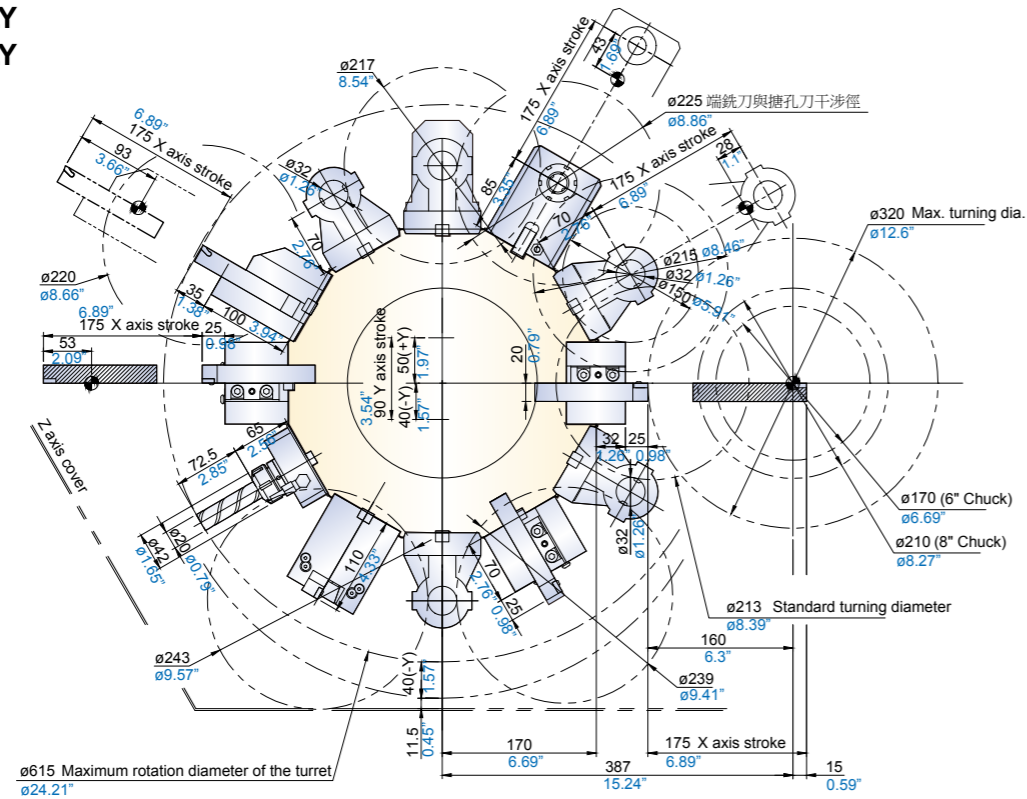


# TOOL INTERFERENCE

Unit: mm inch

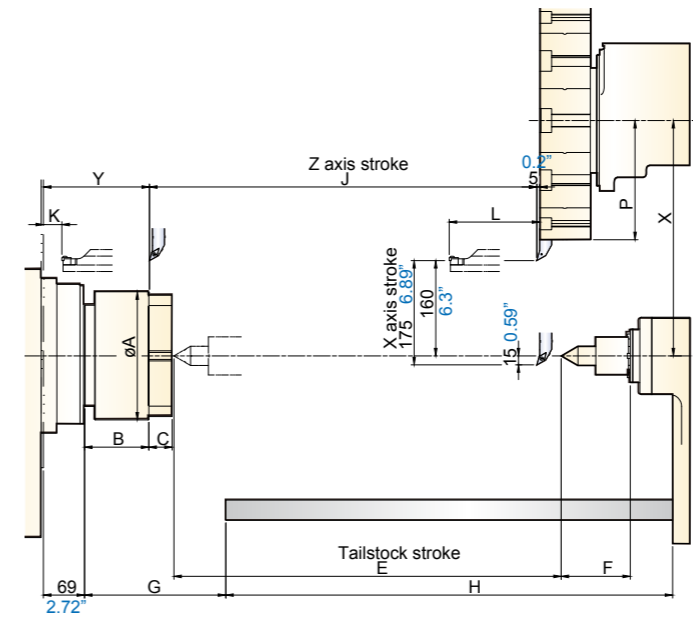
## Y-axis Power Turret

NTC-1600LY  
NTC-2000LY



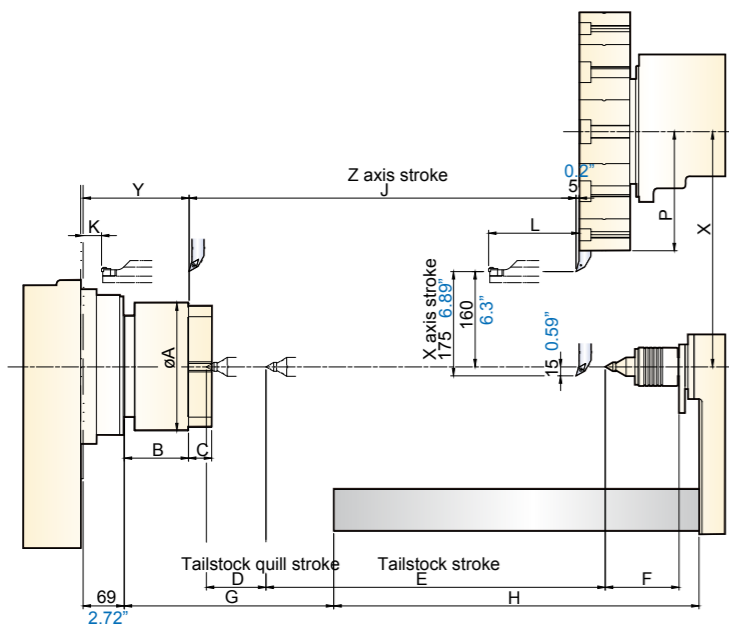
# WORKING CAPACITY

Unit: mm inch

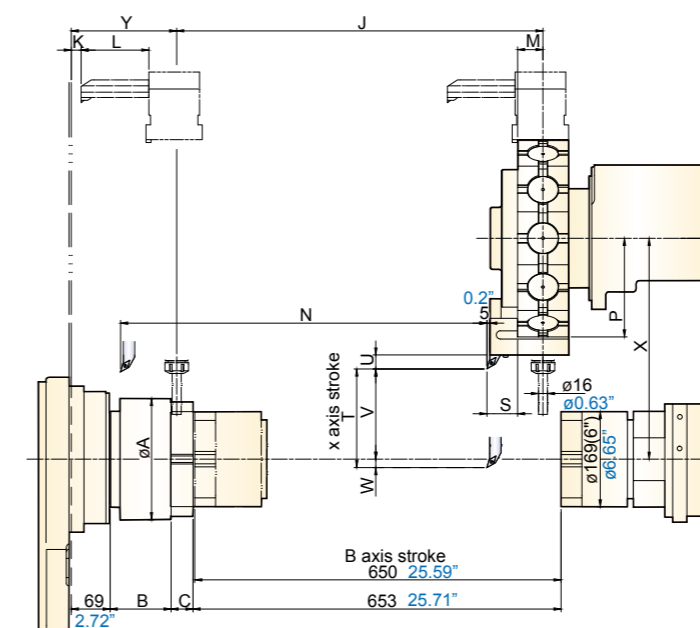


	NTC-1600		NTC-2000	
	2-axis*	L*	2-axis*	L*
A	(6") 170	6.69"	(8") 215	8.46"
B	96	3.78"	108	4.25"
C	38	1.50"	39	1.54"
E	320	12.60"	650	25.59"
F	116	4.57"	116	4.57"
G	237	9.33"	237	9.33"
H	407	16.02"	737	29.02"
Y	166	6.54"	178	7.01"
J	320	12.60"	650	25.59"
K	19	0.75"	31	1.22"
L		152		5.98"
P		200		7.87"
X		395		15.55"

# WORKING CAPACITY



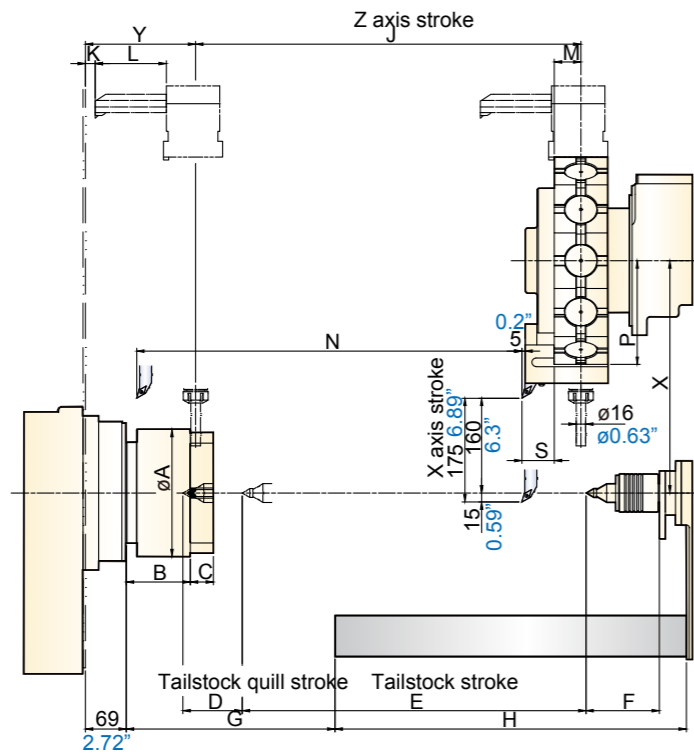
	NTC-1600		NTC-2000	
	2-axis	L	2-axis	L
A	(6") 170	6.69"	(8") 215	8.46"
B	96	3.78"	108	4.25"
C	38	1.50"	39	1.54"
D	100	3.94"	100	3.94"
E	240	9.45"	570	22.44"
F	124	4.88"	124	4.88"
H	266.5	10.49"	596.5	23.48"
Y	166	6.54"	178	7.01"
J	320	12.60"	650	25.59"
K	19	0.75"	31	1.22"
L		152		5.98"
P		200		7.87"
X		395		15.55"



	NTC-1600		NTC-2000	
	LS / LSY	LS / LSY	LS / LSY	LS / LSY
A	(6") 170	6.69"	(8") 215	8.46"
B	96	3.78"	108	4.25"
C	38	1.50"	39	1.54"
Y	175	6.89"	187	7.36"
J	570	22.44"	650	25.59"
K	10.5	0.41"	17.5	0.69"
L	115	4.53"	120	4.72"
M	45.5	1.79"	45.5	1.79"
N	570	22.44"	570	22.44"
P	175	6.89"	170	6.69"
X	387	15.24"	387	15.24"
S	54	2.13"	54	2.13"
T	160	6.30"	160	6.30"
U	30	1.18"	30	1.18"
V	155	6.10"	155	6.10"
W	5	0.20"	5	0.20"

# WORKING CAPACITY

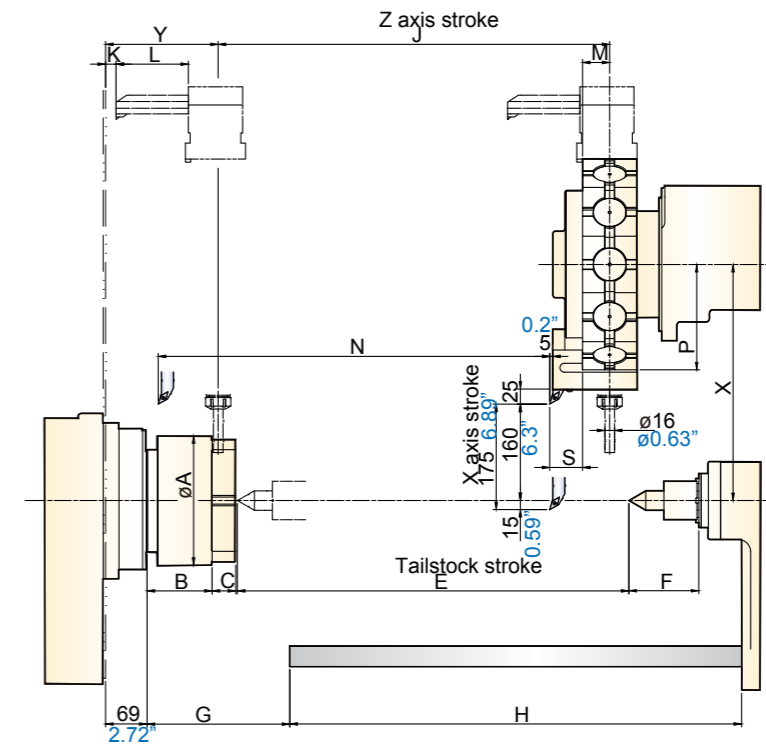
Unit: mm inch



NTC-1600				NTC-2000				
M	Y	LM	LY	M	Y	LM	LY	
A	(6") 170 6.69"			(8") 215 8.46"				
B	96 3.78"			108 4.25"				
C	38 1.50"			39 1.54"				
D	100 3.94"			100 3.94"				
E	240 9.45"	570 22.44"		240 9.45"	570 22.44"			
F	124 4.88"			124 4.88"				
G	352 13.86"			352 13.86"				
H	256 10.08"	333 13.11"	586 23.07"	663 26.10"	268 10.55"	345 13.58"	598 23.54"	675 26.57"
Y	175 6.89"		175 6.89"		187 7.36"		187 7.36"	
J	320 12.60"	240 9.45"	650 25.59"	570 22.44"	320 12.60"	240 9.45"	650 25.59"	570 22.44"
K	10.5 0.41"			17.5 0.69"				
L	115 4.53"			120 4.72"				
M	45 1.77"	45.5 1.79"	45 1.77"	45.5 1.79"	45 1.77"	45.5 1.79"	45 1.77"	45.5 1.79"
N	320 12.6"	240 9.45"	650 25.59"	570 22.44"	320 12.60"	240 9.45"	650 25.59"	570 22.44"
P	175 6.89"	170 6.69"	175 6.89"	170 6.69"	175 6.89"	170 6.69"	175 6.89"	170 6.69"
X	392 15.43"	387 15.24"	392 15.43"	387 15.24"	392 15.43"	387 15.24"	392 15.43"	387 15.24"
S	54.5 2.15"	54 2.13"	54.5 2.15"	54 2.13"	54.5 2.15"	54 2.13"	54 2.13"	54 2.13"

# WORKING CAPACITY

Unit: mm inch



NTC-1600				NTC-2000				
M*	Y*	LM*	LY*	M*	Y*	LM*	LY*	
A	(6") 170 6.69"			(8") 215 8.46"				
B	96 3.78"			108 4.25"				
C	38 1.50"			39 1.54"				
E	320 12.60"	650 25.59"		320 12.60"	650 25.59"			
F	116 4.57"	116 4.57"		116 4.57"	116 4.57"			
G	237 9.33"	237 9.33"		237 9.33"	237 9.33"			
H	407 16.02"	737 29.02"		420 16.54"	750 29.53"			
Y	175 6.89"	175 6.89"		187 7.36"	187 7.36"			
J	320 12.60"	240 9.45"	650 25.59"	570	320 12.60"	240 9.45"	650 25.59"	570 22.44"
K	10.5 0.41"	10.5 0.41"		17.5 0.69"	17.5 0.69"			
L	115 4.53"	115 4.53"		120 4.72"	120 4.72"			
M	45 1.77"	45.5 1.79"	45 1.77"	45.5 1.79"	45 1.77"	45.5 1.79"	45 1.77"	45.5 1.79"
N	320 12.60"	240 9.45"	650 25.59"	570 22.44"	320 12.60"	240 9.45"	650 25.59"	570 22.44"
P	175 6.89"	170 6.69"	175 6.89"	170 6.69"	175 6.89"	170 6.69"	175 6.89"	170 6.69"
X	392 15.43"	387 15.24"	392 15.43"	387 15.24"	392 15.43"	387 15.24"	392 15.43"	387 15.24"
S	54.5 2.15"	54 2.13"	54.5 2.15"	54 2.13"	54.5 2.15"	54 2.13"	54.5 2.15"	54 2.13"

## CUTTING CAPACITY

### NTC-1600

Spindle Speed : 6,000 rpm

**OD-TURNING S45C Steel**

Matal Removal Rate  
**415**  
cc/min.



Workpiece Diameter  $\phi 48$  mm  
Spindle Speed 1,125 rpm  
Feedrate 675 mm/min.  
Cutting Speed 170 m/min.  
Depth of Cut 4.5 mm

**U-DRILL S45C Steel**

Cutter Diameter  
 **$\phi 49$**   
mm



Tool  $\phi 49$  mm  
Spindle Speed 1,125 rpm  
Feedrate 169 mm/min.  
Cutting Speed 173 m/min.

### NTC-1600LM

Spindle Speed : 5,000 rpm

**FACE MILL S45C Steel**

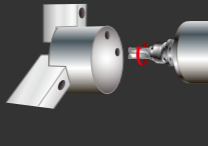
Depth of Cut  
**1**  
mm



Tool  $\phi 63$  mm x 5T  
Spindle Speed 1,500 rpm  
Feedrate 1,500 mm/min.  
Cutting Speed 296 m/min.

**DRILL S45C Steel**

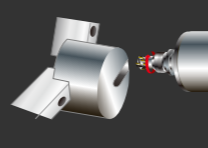
Cutter Diameter  
 **$\phi 16$**   
mm



Spindle Speed 500 rpm  
Feedrate 80 mm/min.  
Cutting Speed 25 m/min.  
Depth of Cut 24 mm

**END MILL S45C Steel**

Depth of Cut  
**2**  
mm



Tool  $\phi 16$  mm x 4T  
Spindle Speed 1,500 rpm  
Feedrate 600 mm/min.  
Cutting Speed 75 m/min.

**TAP S45C Steel**

Tapping  
**M10**



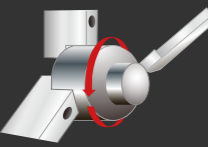
Tool M10 x 1.5P  
Spindle Speed 160 rpm  
Feedrate 240 mm/min.  
Cutting Speed 5 m/min.

### NTC-2000LY

Spindle Speed : 5,000 rpm

**OD-TURNING S45C Steel**

Matal Removal Rate  
**470**  
cc/min.



Workpiece Diameter  $\phi 62$  mm  
Spindle Speed 1,075 rpm  
Feedrate 645 mm/min.  
Cutting Speed 209 m/min.  
Depth of Cut 4 mm

**U-DRILL S45C Steel**

Cutter Diameter  
 **$\phi 40$**   
mm



Tool  $\phi 40$  mm  
Spindle Speed 1,075 rpm  
Feedrate 161 mm/min.  
Cutting Speed 135 m/min.

### NTC-2000LY

Spindle Speed : 4,000 rpm

**FACE MILL S45C Steel**

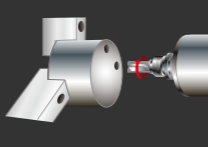
Depth of Cut  
**1**  
mm



Tool  $\phi 63$  mm x 5T  
Spindle Speed 750 rpm  
Feedrate 750 mm/min.  
Cutting Speed 148 m/min.

**DRILL S45C Steel**

Cutter Diameter  
 **$\phi 16$**   
mm



Spindle Speed 500 rpm  
Feedrate 100 mm/min.  
Cutting Speed 25 m/min.  
Depth of Cut 24 mm

**END MILL S45C Steel**

Depth of Cut  
**7**  
mm



Tool  $\phi 16$  mm x 2T  
Spindle Speed 750 rpm  
Feedrate 150 mm/min.  
Cutting Speed 38 m/min.

**TAP S45C Steel**

Tapping  
**M16**



Tool M16 x 2P  
Spindle Speed 100 rpm  
Feedrate 200 mm/min.  
Cutting Speed 5 m/min.

### NTC-2000L

Spindle Speed : 5,000 rpm

**OD-TURNING S45C Steel**

Matal Removal Rate  
**532**  
cc/min.



Workpiece Diameter  $\phi 48$  mm  
Spindle Speed 1,121 rpm  
Feedrate 672 mm/min.  
Cutting Speed 169 m/min.  
Depth of Cut 6 mm

**U-DRILL S45C Steel**

Cutter Diameter  
 **$\phi 49$**   
mm



Tool  $\phi 49$  mm  
Spindle Speed 1,121 rpm  
Feedrate 224 mm/min.  
Cutting Speed 173 m/min.

### NTC-2000LSY

Sub Spindle Speed : 6,000 rpm

**OD-TURNING S45C Steel**

Matal Removal Rate  
**267**  
cc/min.



Workpiece Diameter  $\phi 87$  mm  
Spindle Speed 1,146 rpm  
Feedrate 401 mm/min.  
Cutting Speed 315 m/min.  
Depth of Cut 2.5 mm

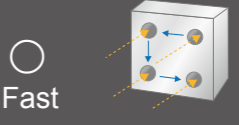

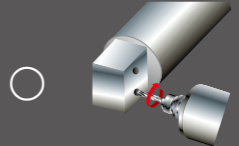
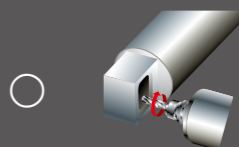



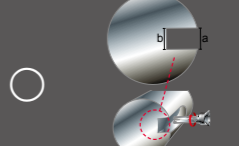
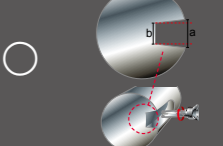
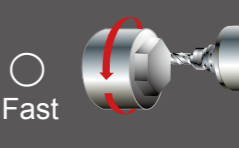

**U-DRILL S45C Steel**

Cutter Diameter  
 **$\phi 40$**   
mm



Tool  $\phi 40$  mm  
Spindle Speed 1,146 rpm  
Feedrate 172 mm/min.  
Cutting Speed 144 m/min.

## Y-AXIS BENIFITS

	Y & C-axis	C-axis
End Face Drilling	Fast 	Slow 
Off-center Drilling		X
Off-center Side Grooving		X
Large Face Milling	Fast 	Slow 
Contouring		X Rough Surface
Grooving Machining		
Polar Interpolation	Fast 	Slow
Circular Interpolation	Fast 	Slow



SPECIFICATIONS

	NTC-1600				
	Short / Long(L)	M / LM	LS	Y / LY	LSY
<b>MACHINING CAPACITY</b>					
Chuck Size	6"				
Swing Over Bed	ø710 mm ø27.95"				
Swing Over Carriage	ø545 mm ø21.46"				
Max. Turning Diameter	ø320 mm ø12.6"		ø310 mm ø12.2"		
Max. Turning Length	320/650 mm 12.6"/25.59"	650 mm 25.59"	240/570 mm 9.45"/22.44"	570 mm 22.44"	
Distance between End Face of the Spindle	585/915 mm 23.03"/36.02"	926 mm 36.46"	585/915 mm 23.03"/36.02"	926 mm 36.46"	
Height from the Ground to Spindle	1,060 mm 41.73"				
<b>MAIN SPINDLE</b>					
Spindle Nose	A2-5				
Spindle Inner Taper	0°				
Front Bearing Inner Diameter	ø100 mm ø3.94"				
Hole Through Spindle	ø62 mm ø2.44"				
Hole Through Draw Bar	ø52 mm ø2.05"				
Spindle Speed	6,000 rpm				
Max.Spindle Torque	13 kgf-m 94.03 lbf-ft				
C1-axis Index Accuracy	-	0.001°			
<b>SUB SPINDLE</b>					
Spindle Nose	-	A2-5	-	A2-5	
Spindle Inner Taper	-	0	-	0	
Front Bearing Inner Diameter	-	ø90 mm ø3.54"	-	ø90 mm ø3.54"	
Hole Through Spindle	-	ø55 mm ø2.17"	-	ø55 mm ø2.17"	
Hole Through Draw Bar	-	ø45 mm ø1.77"	-	ø45 mm ø1.77"	
Spindle Speed	-	6,000 rpm	-	6,000 rpm	
Max.Spindle Torque	-	9.35 kgf-m 67.63 lbf-ft	-	9.35 kgf-m 67.63 lbf-ft	
C1-axis Index Accuracy	-	0.001°			
<b>TRAVEL</b>					
X-axis Travel	175(160+15) mm 6.89"(6.3"+0.59")		160(155+5) mm 6.3"(6.1"+0.2")		
Z-axis Travel	320/650 mm 12.6"/25.59"	650 mm 25.59"	240/570 mm 9.45"/22.44"	570 mm 22.44"	
Y-axis Travel	-	-	90 (+50/-40) mm 3.54"(+1.97"/-1.57")		
B-axis Travel	320/650 mm <sup>(1)</sup> 12.6"/25.59" <sup>(1)</sup>	650 mm 25.59"	320/650 mm <sup>(1)</sup> 12.6"/25.59" <sup>(1)</sup>	650 mm 25.59"	
<b>FEEDRATE</b>					
X-axis Rapid Feedrate	30 m/min. 1181 ipm				
Z-axis Rapid Feedrate	36 m/min. 1417 ipm				
Y-axis Rapid Feedrate	-	-	9 m/min. 354 ipm		
B-axis Rapid Feedrate	20 m/min. <sup>(1)</sup> 787 ipm <sup>(1)</sup>	20 m/min. 787 ipm	20 m/min. <sup>(1)</sup> 787 ipm <sup>(1)</sup>	20 m/min. 787 ipm	
Cutting Feedrate (X,Y,Z,B)	1~10,000 mm/min. 0.04~394 ipm				
<b>MOTOR</b>					
Main Spindle Motor	11/15 kW 15/20 HP				
Sub Spindle Motor	-	7.5/11 kW 10/15 HP	-	7.5/ 11 kW 10/15 HP	
<b>TURRET</b>					
Turret Type	Servo Turret	BMT55			
Number of Tools	12T				
Shank Height for Square Tool	□20 mm □3/4"				
Shank Dia. for Boring Bar	ø40 mm ø1&1/2"	ø32 mm ø1&1/4"			
Live Tool Motor Speed	-	100~5,000 rpm	-	100~4,000 rpm	
Live Tool Motor Torque	-	2.4 kgf-m 17.36 lbf-ft	-	4.8 kgf-m 34.72 lbf-ft	
Swing Over Turret	ø490 mm ø19.29"(std.) ø530 mm ø20.87"(opt.)	ø625 mm ø24.61"		ø615 mm ø24.21"	
<b>TAILSTOCK</b>					
Guide Type	Steel Guide/Linear Guide <sup>(1)</sup>		Steel Guide/ Linear Guide <sup>(1)</sup>		
Moving Type	Manual/Programmable/Servo		Manual/ Programmable/Servo		
Quill Diameter	ø75/ø75/ø90 mm <sup>(1)</sup> ø2.95"/ø2.95"/ø3.54" <sup>(1)</sup>		ø75/ø75/ø90 mm <sup>(1)</sup> ø2.95"/ø2.95"/ø3.54" <sup>(1)</sup>		
Quill Taper	MT-4		MT-4		
Quill Stroke	100/100/0 mm <sup>(1)</sup> 3.94"/3.94"/0" <sup>(1)</sup>		100/100/0 mm <sup>(1)</sup> 3.94"/3.94"/0" <sup>(1)</sup>		
Stroke	240/570 mm 9.45"/22.44"		240/570 mm 9.45"/22.44"		
<b>GENERAL</b>					
Power Consumption	32(40) kVA	35(40) kVA	50(65) kVA	37(40) kVA	52(65) kVA
Floor Space	3,902x1,926x2,295 mm 153.62"x75.83"x90.35" 4,182x1,926x2,295 mm 164.65"x75.83"x90.35"		4,511x1,994x2,305 177.6"x78.5"x90.75" 4,182x1,926x2,295 mm 164.65"x75.83"x90.35"		

Remark<sup>(1)</sup> :The dimension or data of the servo tail stock. The servo tail stock is an option.  
 Note: Above specifications may vary depending on the machine and the surrounding environment.  
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SPECIFICATIONS

	NTC-2000				
	Short / Long(L)	M / LM	LS	Y / LY	LSY
<b>MACHINING CAPACITY</b>					
Chuck Size	8"				
Swing Over Bed	ø710 mm ø27.95"				
Swing Over Carriage	ø545 mm ø21.46"				
Max. Turning Diameter	ø320 mm ø12.6"		ø310 mm ø12.2"		
Max. Turning Length	320/650 mm 12.6"/25.59"	650 mm 25.59"	240/570 mm 9.45"/22.44"	570 mm 22.44"	
Distance between End Face of the Spindle	585/915 mm 23.03"/36.02"	926 mm 36.46"	585/915 mm 23.03"/36.02"	926 mm 36.46"	
Height from the Ground to Spindle	1,060 mm 41.73"				
<b>MAIN SPINDLE</b>					
Spindle Nose	A2-6				
Spindle Inner Taper	0				
Front Bearing Inner Diameter	ø110 mm ø4.33"				
Hole Through Spindle	ø80 mm ø3.15"				
Hole Through Draw Bar	ø66 mm ø2.6"				
Spindle Speed	5,000 rpm				
Max.Spindle Torque	20 kgf-m 144.66 lbf-ft				
C1-axis Index Accuracy	-	0.001°			
<b>SUB SPINDLE</b>					
Spindle Nose	-	A2-5	-	A2-5	
Spindle Inner Taper	-	0	-	0	
Front Bearing Inner Diameter	-	ø90 mm ø3.54"	-	ø90 mm ø3.54"	
Hole Through Spindle	-	ø55 mm ø2.17"	-	ø55 mm ø2.17"	
Hole Through Draw Bar	-	ø45 mm ø1.77"	-	ø45 mm ø1.77"	
Spindle Speed	-	6,000 rpm	-	6,000 rpm	
Max.Spindle Torque	-	9.35 kgf-m 67.63 lbf-ft	-	9.35 kgf-m 67.63 lbf-ft	
C1-axis Index Accuracy	-	0.001°			
<b>TRAVEL</b>					
X-axis Travel	175(160+15) mm 6.89"(6.3"+0.59")		160(155+5) mm 6.3"(6.1"+0.2")		
Z-axis Travel	320/650 mm 12.6"/25.59"	650 mm 25.59"	240/570 mm 9.45"/22.44"	570 mm 22.44"	
Y-axis Travel	-	-	90 (+50/-40) mm 3.54"(+1.97"/-1.57")		
B-axis Travel	320/650 mm <sup>(1)</sup> 12.6"/25.59" <sup>(1)</sup>	650 mm 25.59"	320/650 mm <sup>(1)</sup> 12.6"/25.59" <sup>(1)</sup>	650 mm 25.59"	
<b>FEEDRATE</b>					
X-axis Rapid Feedrate	30 m/min. 1181 ipm				
Z-axis Rapid Feedrate	36 m/min. 1417 ipm				
Y-axis Rapid Feedrate	-	-	9 m/min. 354 ipm		
B-axis Rapid Feedrate	20 m/min. <sup>(1)</sup> 787 ipm <sup>(1)</sup>	20 m/min. 787 ipm	20 m/min. <sup>(1)</sup> 787 ipm <sup>(1)</sup>	20 m/min. 787 ipm	
Cutting Feedrate (X,Y,Z,B)	1~10,000 mm/min. 0.04~394 ipm				
<b>MOTOR</b>					
Main Spindle Motor	18.5 / 22 kW 25/30 HP				
Sub Spindle Motor	-	7.5 / 11 kW 10/15 HP	-	7.5/11 kW 10/15 HP	
<b>TURRET</b>					
Turret Type	Servo Turret	BMT55			
Number of Tools	12T				
Shank Height for Square Tool	□20 mm □3/4"				
Shank Dia. for Boring Bar	ø40 mm ø1&1/2"	ø32 mm ø1&1/4"			
Live Tool Motor Speed	-	100~5,000 rpm	-	100~4,000 rpm	
Live Tool Motor Torque	-	2.4 kgf-m 17.36 lbf-ft	-	4.8 kgf-m 34.72 lbf-ft	
Swing Over Turret	ø490 mm ø19.29"(std.) ø530 mm ø20.87"(opt.)	ø625 mm ø24.61"		ø615 mm ø24.21"	
<b>TAILSTOCK</b>					
Guide Type	Steel Guide/Linear Guide <sup>(1)</sup>		Steel Guide/ Linear Guide <sup>(1)</sup>		
Moving Type	Manual/Programmable/Servo		Manual/ Programmable/Servo		
Quill Diameter	ø75/ø75/ø90 mm <sup>(1)</sup> ø2.95"/ø2.95"/ø3.54" <sup>(1)</sup>		ø75/ø75/ø90 mm <sup>(1)</sup> ø2.95"/ø2.95"/ø3.54" <sup>(1)</sup>		
Quill Taper	MT-4		MT-4		
Quill Stroke	100/100/0 mm <sup>(1)</sup> 3.94"/3.94"/0" <sup>(1)</sup>		100/100/0 mm <sup>(1)</sup> 3.94"/3.94"/0" <sup>(1)</sup>		
Stroke	240/570 mm 9.45"/22.44"		240/570 mm 9.45"/22.44"		
<b>GENERAL</b>					
Power Consumption	43(45) kVA	45(45) kVA	61(65) kVA	50(65) kVA	63(65) kVA
Floor Space	3,902x1,926x2,295 mm 153.62"x75.83"x90.35" 4,182x1,926x2,295 mm 164.65"x75.83"x90.35"		4,511x1,994x2,305 177.6"x78.5"x90.75" 4,182x1,926x2,295 mm 164.65"x75.83"x90.35"		

Remark<sup>(1)</sup> :The dimension or data of the servo tail stock. The servo tail stock is an option.  
 Note: Above specifications may vary depending on the machine and the surrounding environment.  
 The manufacturer reserves the right to modify the design, specifications, mechanisms, etc., to improve the performance of the machine without notice. The test data provided in this catalog is performed under specific test procedures and environmental conditions.

**ACCESSORIES**

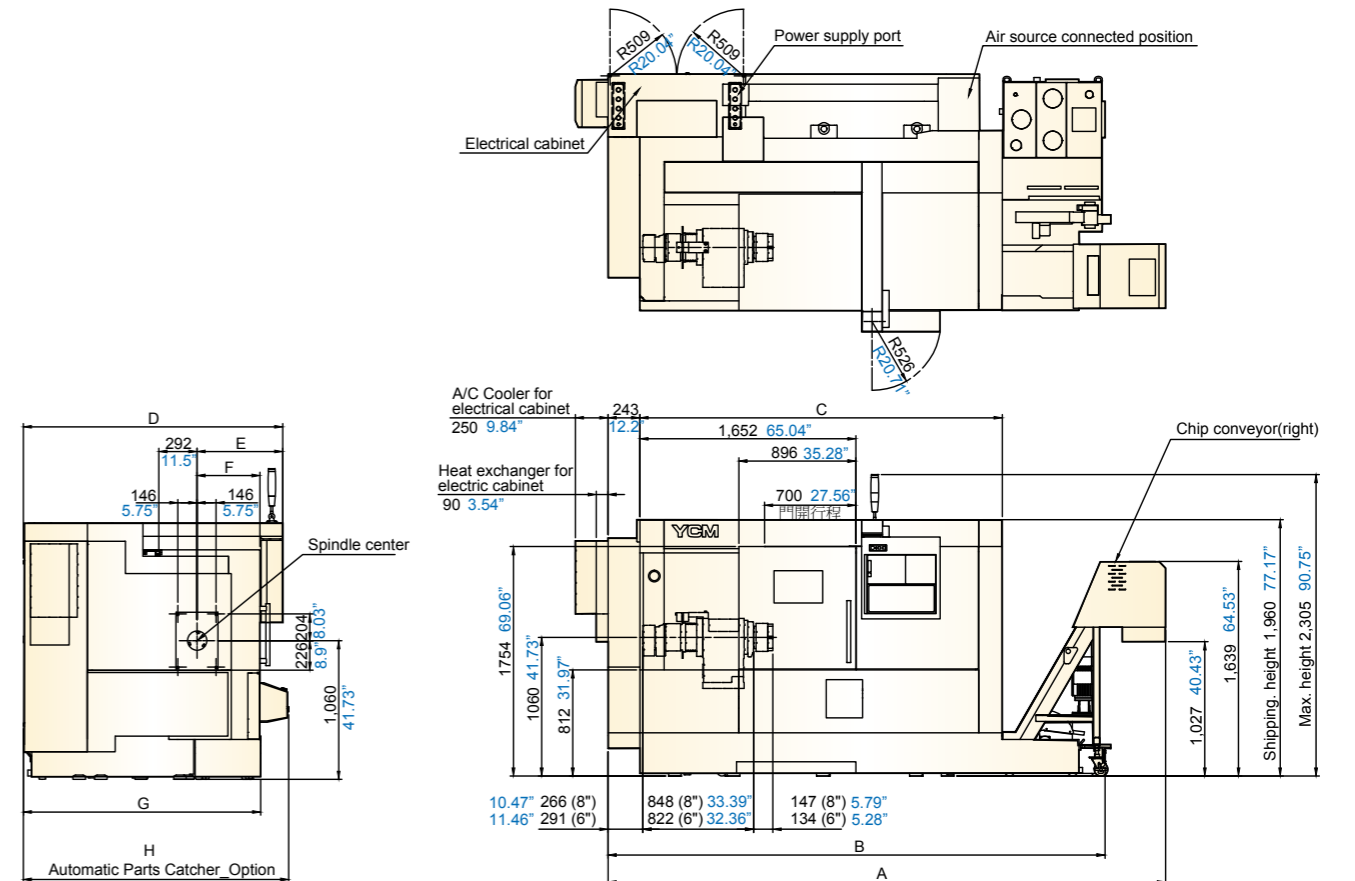
● Standard ○ Option - N/A

		NTC-1600/2000							
		2-axis	M	Y	L	LM	LS	LY	LSY
Tool Kit		●	●	●	●	●	●	●	●
Work Lamp		●	●	●	●	●	●	●	●
Pilot Lamp		●	●	●	●	●	●	●	●
Automatic Door		○	○	○	○	○	○	○	○
Safety Door		●	●	●	●	●	●	●	●
Hydraulic System		●	●	●	●	●	●	●	●
Turret	Standard Turret (20bar)	●	-	-	-	-	-	-	-
	Standard Turret (70bar)	○	-	-	○	-	-	-	-
	Power Turret BMT55_12T	-	●	-	-	●	●	-	-
	Power Turret BMT55_12T (Y-axis)	-	-	●	-	-	-	●	●
Tool Holder	Non-Power Tool Holder	●	●	●	●	●	●	●	●
	Power Milling Tool Holder	-	○	○	-	○	○	○	○
Through Hole Rotating Hydraulic Cylinder		●	●	●	●	●	●	●	●
Collet Chuck		○	○	○	○	○	○	○	○
Hydraulic Chuck & Hard Jaws and Soft Jaws		●	●	●	●	●	●	●	●
Soft Jaws,Hard Jaws(Optional accessories)		○	○	○	○	○	○	○	○
Soft Jaw Former		○	○	○	○	○	○	○	○
Chuck Switch Pedal	Main spindle	●	●	●	●	●	●	●	●
	Sub spindle	-	-	-	-	-	●	-	●
	Tail Stock	○	○	○	○	○	-	○	-
Sub Spindle		-	-	-	-	-	●	-	
Tailstock (MT-4)	Stationary	●	●	●	●	●	-	●	-
	Programmable	○	○	○	○	○	-	○	-
	Manual	●	●	●	●	●	-	●	-
	Servo	○	○	○	○	○	-	○	-
Parts Catcher System	Main Spindle	○	○	○	○	○	-	○	-
	Sub Spindle	-	-	-	-	-	○	-	○
Parts Pusher System (Sub-Spindle)		-	-	-	-	-	○	-	
Axial Safe Clutch		○	○	○	○	○	○	○	○
Parts Conveyor		○	○	○	○	○	○	○	○
Complete Chip Enclosure		●	●	●	●	●	●	●	●
Leveling Blocks and Bolts		●	●	●	●	●	●	●	●
Foundation Bolts		○	○	○	○	○	○	○	○
Air Gun		●	●	●	●	●	●	●	●
Cutting Air Blast		○	○	○	○	○	○	○	○
Coolant Equipment System		●	●	●	●	●	●	●	●
Coolant Pump	Standard (2bar)	●	●	●	●	●	●	●	●
	High Flow (4bar)	○	○	○	○	○	○	○	○
	High Pressure (8bar)	○	○	○	○	○	○	○	○
	High Pressure(70bar)	○	○	-	○	○	○	-	-
Coolant Gun		○	○	○	○	○	○	○	○
Oil Skimmer		○	○	○	○	○	○	○	○
Paper Filter		○	○	○	○	○	○	○	○
Oil Mist Collector		○	○	○	○	○	○	○	○
Central Lubrication System (Volume Type)		●	●	●	●	●	●	●	●
Chip Conveyor	Right Side	●	●	●	●	●	●	●	●
	Rear Side	○	○	○	○	○	○	○	○
Electrical Cabinet	Heat Exchanger	●	●	●	●	●	●	●	●
	A/C Cooler	○	○	○	○	○	○	○	○
Tool Length Measurement	Main Spindle Automatic	○	○	○	○	○	○	○	○
	Main Spindle_Manual	○	○	○	○	○	○	○	○
	Sub Spindle_Manual	-	-	-	-	-	○	-	○
Bar Feeder & Software		○	○	○	○	○	○	○	○
Control System	FANUC TXP-100FA	●	●	-	●	●	-	-	-
	FANUC TXP-200FA	○	○	●	○	○	●	●	●

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**Dimensions**

Unit: mm inch



	NTC		
	1600/M/Y 2000/M/Y	1600L/LM/LSY 2000L/LM/LSY	1600LS/LSY 2000LS/LSY
A	3811 150.04"	4091 161.06"	4261 167.76"
B	3348 131.81"	3628 142.83"	3798 149.53"
C	2320 91.34"	2770 109.06"	2770 109.06"
D	1924 75.75"	1924 75.75"	1994 78.50"
E	596 23.46"	596 23.46"	666 26.22"
F	412 16.22"	412 16.22"	482 18.98"
G	1745 68.70"	1745 68.70"	1815 71.46"
H	1910 75.20"	1910 75.20"	1980 77.95"

# VMC

## Vertical Machining Center

**FP Series** High Precision High Performance Die Mold Vertical Machining Center / High Precision Graphite Vertical Machining Center  
**FP55LX, FP66A, FP100A / FP66G**

**NXV Series** High Performance Vertical Machining Center  
**NXV560A, NXV1020A/AM, NXV1380A, NXV1680A/B**

**TV Series** Heavy Duty Vertical Machining Center  
**TV116B, TV146B, TV158B, TV188B, TV2110B, TV2610B, TV850B**

**NTV Series** High Efficiency T-base Vertical Machining Center  
**NTV158A/B**

**NMV Series** High Performance High Rigidity Vertical Machining Center  
**NMV76A, NMV106A**

**WV Series** Ultra Wide High Performance Vertical Machining Center  
**WV108A/B**

**NFX Series** High Performance 5-axis Vertical Machining Center  
**NFX380A**

**NSV Series** Ultra High Performance Vertical Machining Center  
**NSV66A, NSV102A, NSV102AM, NSV156A**

**TCV Series** High Performance Traveling Column Vertical Machining Center  
**TCV2000A, TCV3000A, TCV4500B, TCV2300A-4A, TCV3000A-4A/5AF/5AX**

**DCV Series** Advanced Double Column Vertical Machining Center  
**DCV2012A/B, DCV3016B-6035B, DCV2018A-5AX, DCV4030B-6030B-5AX, DCV4030B-5AF**

**NDC Series** High Performance Double Column Vertical Machining Center  
**NDC2016B-4016B, NDC3022B-6027B, NDC2018B-4018B-AHC, NDC3022B-6027B-AHC**



# HMC

## Horizontal Machining Center

**H Series** High Production Horizontal Machining Center  
**H2612B**

**NH Series** High Speed High Precision Horizontal Machining Center  
**NH450A, NH630B, NH800B**



# HBM

## Horizontal Boring Milling Machining Center

**BMP Series** High Accuracy Heavy Duty Boring Machine  
**BMP1416B**



# CNC LATHES

## CNC Turning Center

**NT Series** High Performance Mill/Turn Center  
**NT-2000Y/SY, NT-2500Y/SY, NT-2000SY2**

**GT Series** High Performance Geo Turning Center  
**GT-200A/B/MA, GT-250A/B/MA/MB, GT-300A/B/LA/LB/MA/MB/LMA/LMB, GT-380A/B/LA/LB**

**TC Series** High Performance High Precision CNC Lathe  
**TC-16A/B/LA/LB/MA/MB/LMA/LMB, TC-26, TC-26L, TC-36, TC-36W, TC-46, TC-46M**

**NTC Series** High Efficiency CNC Turning Center  
**NTC-1600M/Y/L/LM/LS/LY/LSY, NTC-2000M/Y/L/LM/LS/LY/LSY**



Integrated Operation Control System **iOPERATION**  
 Spindle Thermal Compensation System **STG PLUS**  
 Remote Monitoring System **iDirect** Automation Solutions



INTEGRATION AND SOLUTIONS



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