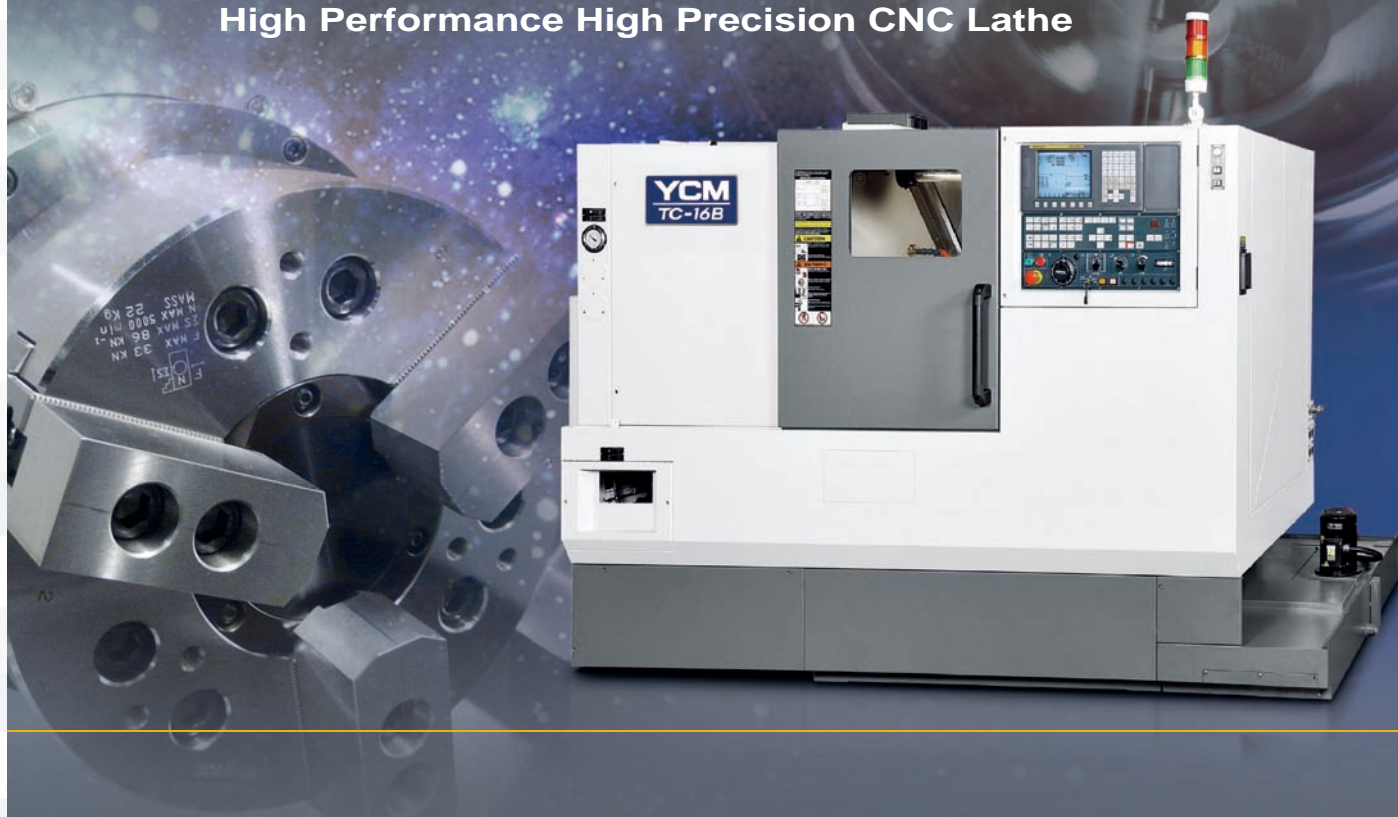


# TC-16 Series

High Performance High Precision CNC Lathe



# TC-16

The Best Choice In Its Class  
TC-16A/MA/LA/LMA  
TC-16B/MB/LB/LMB

## High Efficiency Chip Disposal System

- 45° one-piece slant bed design extends chips removal space.
- The independent coolant tank isolates the base from heat exposure.
- A special design of the coolant tank prevents the chips from flowing into the machine.
- The design of main/sub coolant tank simplifies the cleaning of chip conveyor.
- The filter and sub coolant tank can be drawn out separately for easy maintenance.

## User-friendly Design

### Visual Management

- Oil pressure gauge is set in the front for easy daily check-up.

### Safety Designs

- Explosion-proof glass (EN ISO 23125).
- Clear and eco-friendly lighting.
- Safety door is standard.
- Full chip enclosure design provides safe environment for operators.

### Convenient Swivel Control Panel

- Clean Interface
- Easy-to-access feature.



TC-16 Series equipped with extra large hole through draw bar, its high speed feedrate and user-friendly design is suitable for machining various small parts. The TC-16 series provides excellent cost/ performance, it is your best choice.



- Workpiece : BT30 Tool Holder
- Material : S45C
- Machining Time : 8 min.



- Workpiece : HSK Tool Holder
- Material : S45C
- Machining Time : 5 min.



- Workpiece : Frange
- Material : Cast iron
- Machining Time : 4 min. 30 sec.



- Workpiece : Tube
- Material : S45C
- Machining Time : 2 min. 30 sec.

## High Rigidity Structure Design

### Linear Guideway Design on X/Z Axis

- With low resistance and low friction, the linear guideway design prolongs machine life.

### Extra Large Hole Through Draw Bar

- 6" (Hole through Draw Bar  $\phi$ 52mm)
- 8" (Hole through Draw Bar  $\phi$ 66mm)

### High Speed & High Precision Turret

- Quick and reliable servo-driven turret is hydraulic clamping
- Extra large and high precision clutch provides high positioning and repeatability accuracy.

### Direct Drive Motors & Ball Screws on X/Z Axis

- Direct drive motors and ball screws restrain backlash and achieve flawless positioning accuracy.

### Diverse Choices of Tailstock

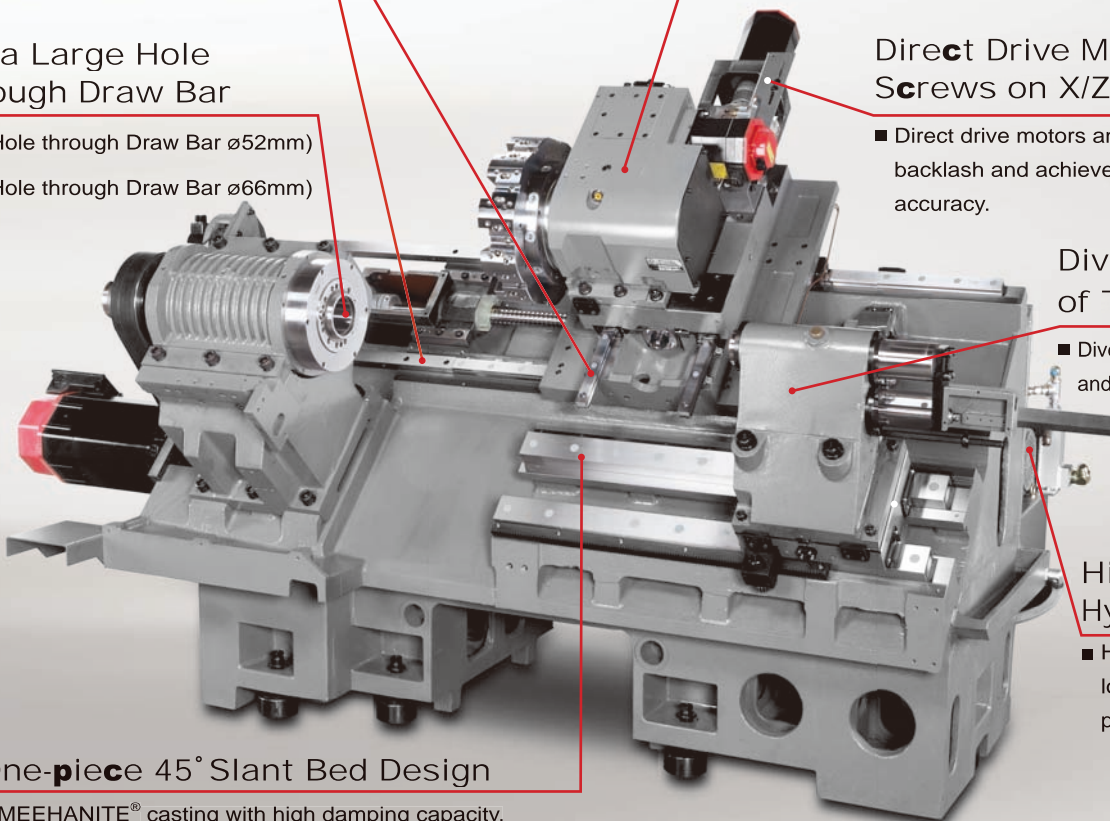
- Diverse choices of tailstock and turning length

### High Efficiency Hydraulic System

- High efficiency and low power loss plunger pump adopted.

### One-piece 45° Slant Bed Design

- MEEHANITE<sup>®</sup> casting with high damping capacity.
- Slant bed design extends the space for removing chips.



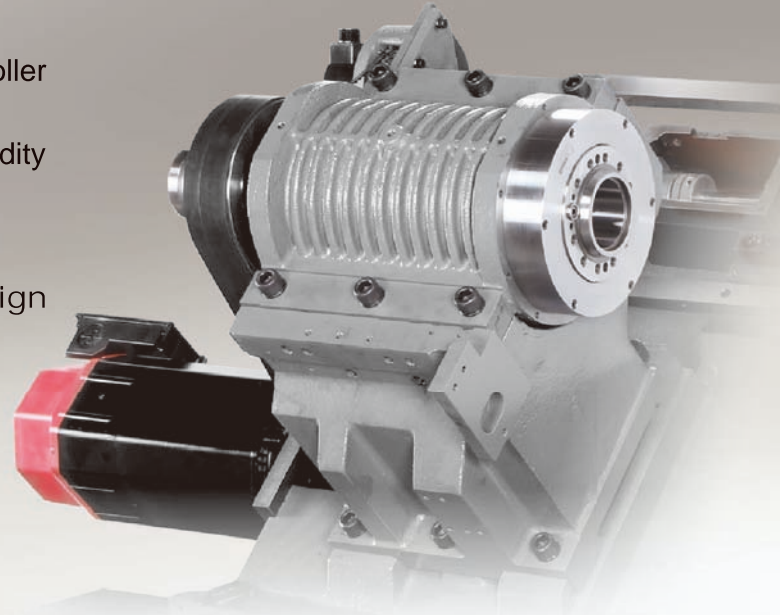
# High Rigidity & High Speed Spindle

## High Rigidity & High Precision Spindle

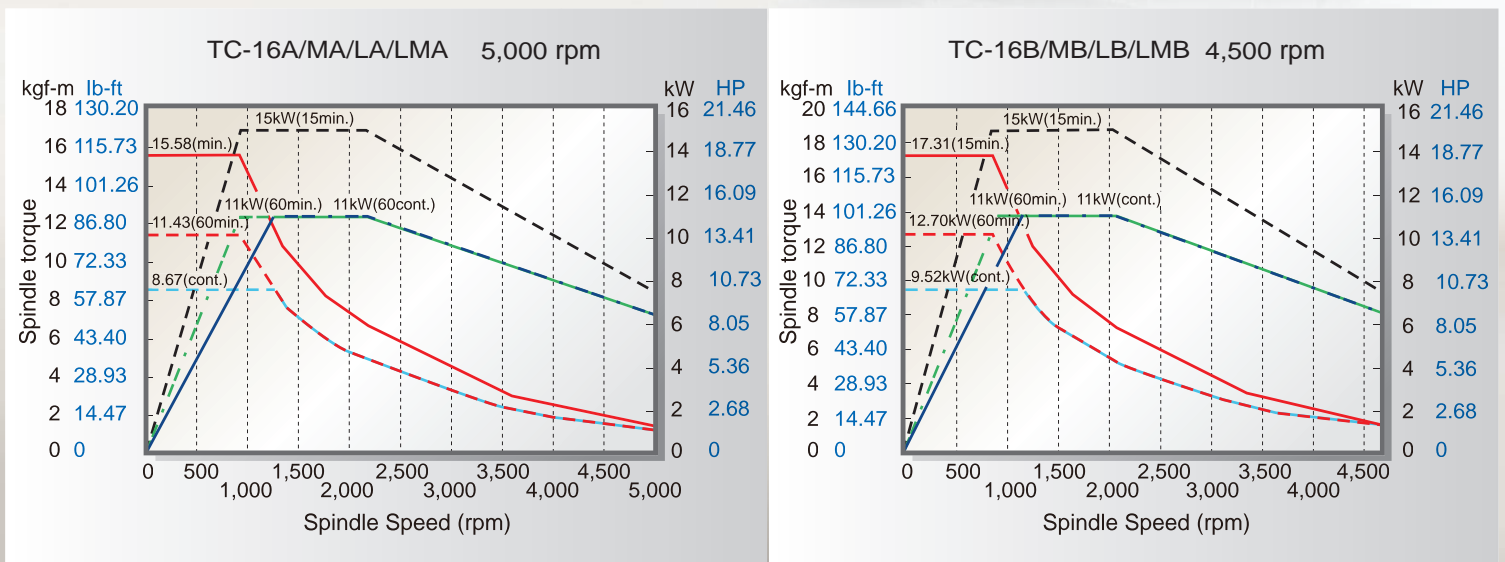
- Large diameter and high precision NN series roller bearings, equipped with angular contact ball bearings, provides the best radial and axial rigidity during machining.

## Two Piece Spindle Head Structural Design

- Symmetric head design dissipates heat, and reduces thermal deformation.
- Easy to adjust and repair.



## Spindle Speed-torque Diagram



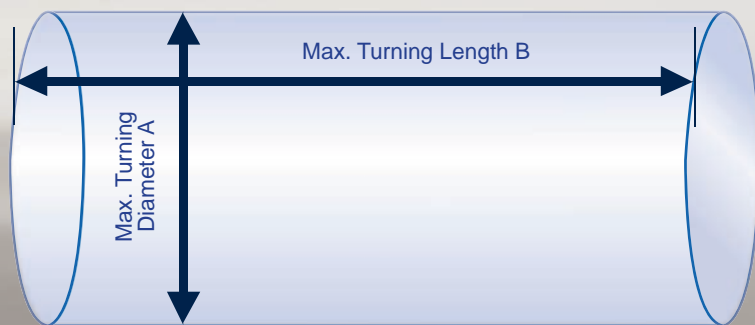
Model	TC-16A	TC-16MA	TC-16LA	TC-16LMA	TC-16B	TC-16MB	TC-16LB	TC-16LMB
Hole Through Spindle	ø62 mm ø2.44"				ø77 mm ø3.03"			
Hole Through Draw Bar	ø52 mm ø2.05"				ø66 mm ø2.60"			
Chuck	6"				8"			
Spindle Speed	5,000 rpm				4,500 rpm			
Max. Spindle Torque	15.58 kgf-m 112.69 lb-ft				17.31 kgf-m 125.21 lb-ft			
Spindle Drive	Belt Driven Spindle							



### High Speed and High Precision X/Z Axial Feedrate

- With low resistance and low friction, the linear guideway design on X/Z axis achieves flawless positioning accuracy.
- The axial pretension design on ball screws reduces thermal displacement.

### Large Machining Space



Model	TC-16A	TC-16MA	TC-16LA	TC-16LMA	TC-16B	TC-16MB	TC-16LB	TC-16LMB
Max. Turning Diameter A	ø260 mm ø10.24"	ø230 mm ø9.06"	ø260 mm ø10.24"	ø230 mm ø9.06"	ø260 mm ø10.24"	ø230 mm ø9.06"	ø260 mm ø10.24"	ø230 mm ø9.06"
Max. Turning Length B	370 mm 14.57"	370 mm 14.57"	600 mm 23.62"	600 mm 23.62"	370 mm 14.57"	370 mm 14.57"	600 mm 23.62"	600 mm 23.62"

Note: The manufacturer reserves the right to modify the design, specifications, mechanisms, etc. to improve the performance of the machine without notice. All the specifications shown above are just for reference.

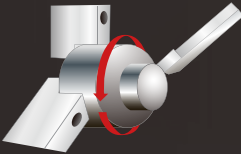
# TC-16M **Powerful Milling**

TC-16M equipped with YCM in-house servo-driven VDI turret with live tooling and full C-axis contour control. The ultra high-speed servo-driven turret with all stations live enables the TC-16M to complete complex machining requirements.



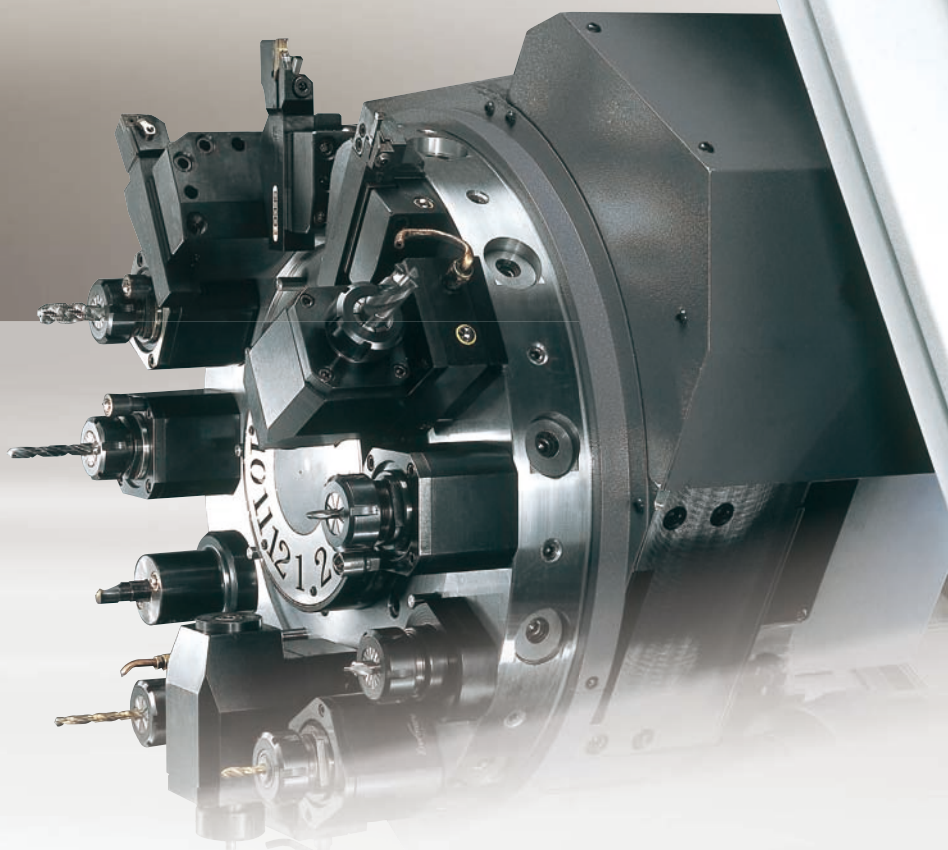
## CUTTING CAPACITY

Model: TC-16B/LB/MB/LMB

OD-TURNING	S45C Steel
Matal Removal Rate	
<b>313</b>	
cc/min.	
Workpiece Diameter	72 mm
Spindle Speed	673 rpm
Feedrate	201 mm/min.
Cutting Speed	150 m/min.
Depth of Cut	6 mm

U-DRILL	S45C Steel
Cutter Diameter	
<b>ø34</b>	
mm	
Tool	ø34 mm
Spindle Speed	1,500 rpm
Feedrate	450 mm/min.
Cutting Speed	160 m/min.

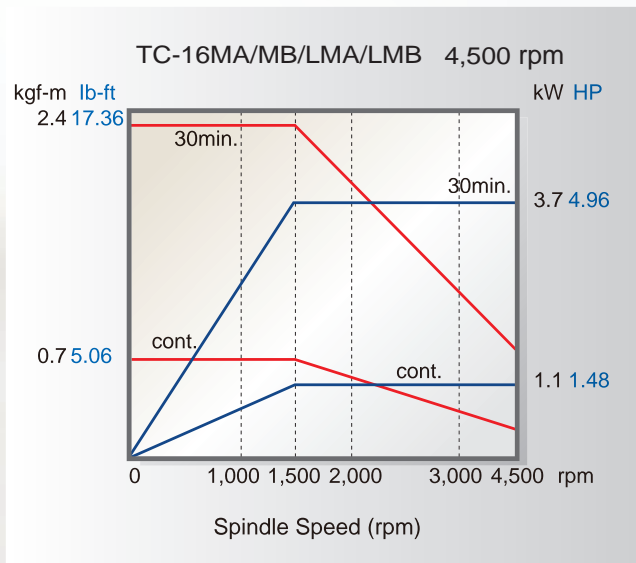
# Capability



Powerful VDI Servo-driven Turret

- Extra large turret with 3-piece coupling assures the best milling performance.
- VDI turret is servo-driven for quick and reliable tool indexing to improve production capacity.

VDI Live Tool Motor Torque Diagram



- Workpiece : Turning & Milling Workpiece
- Material : Copper
- Machining Time : 4 min.



- Workpiece : Pin-type Automatic Linkage
- Material : S45C
- Machining Time : 3min.



- Workpiece : Machine Part
- Material : S45C
- Machining Time : 8 min. 54 sec.

Model: TC-16MA/LMA/MB/LMB

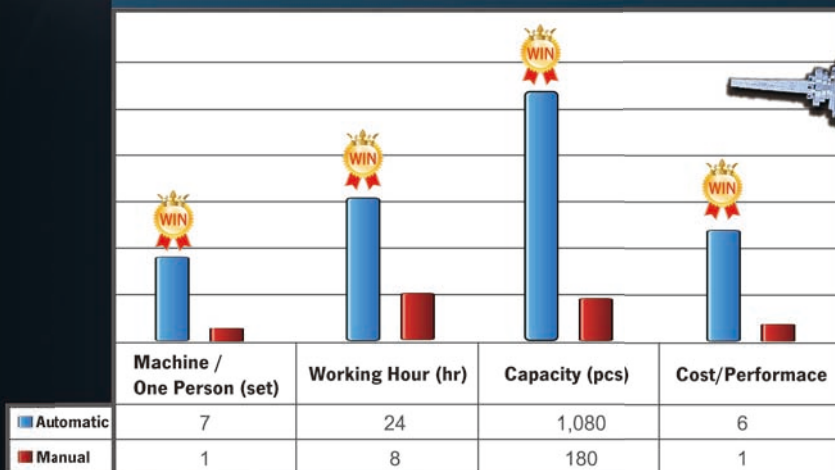
END MILL	S45C Steel	TAP	S45C Steel	RIGID TAP	S45C Steel
Depth of Cut		Tapping		Tapping (Min.)	
<b>5</b>		<b>M12</b>		<b>M3</b>	
mm		mm		mm	
Tool	ø16 mm x 4T	Tool	M12 x 2P	Tool	M3x 0.5P
Spindle Speed	1,500 rpm	Spindle Speed	227 rpm	Spindle Speed	1000 rpm
Feedrate	450 mm/min.	Feedrate	454 mm/min.	Feedrate	500 mm/min.
Cutting Speed	75 m/min.	Cutting Speed	10 m/min.	Cutting Speed	10 m/min.

# Automatic Production System

- Reduce manual loading/unloading time and achieve 24-hour production, improving the factory utilization.
- Save labor cost, improve productivity and lower defection rate.
- Reduce changeover time to meet the demand of low volume production of diversified parts.
- Flexible modular system and easy to be installed based on various product line.



## Automatic VS. Manual



■ Bar Feeder (opt.)



■ Tool Length Measurement System (opt.)



■ Part Catcher System (opt.)

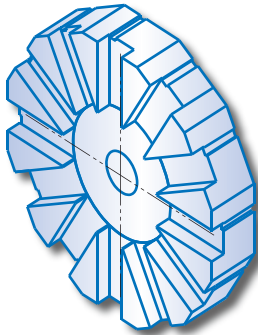


■ Gantry Type Automation System (opt.)

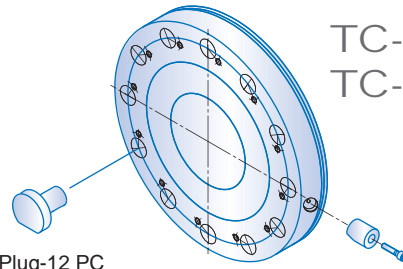


# TURRET ACCESSORIES

● : Standard ○ : Optional  
Unit: mm inch



TC-16A/LA  
TC-16B/LB

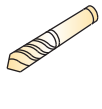


TC-16MA/LMA  
TC-16MB/LMB

● Plug-12 PC

● Gib-12 SET

Drill



Drill Socket



- MT1, YC4001-1PC YC4001E-1PC
- MT2, YC4002-1PC YC4002E-1PC
- MT3, YC4003-1PC YC4003E-1PC
- MT4, YC4004 YC4004E

Boring Tool



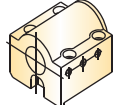
<math>\phi 40</math> <math>\phi 1\frac{1}{2}</math>"

Boring Bar Sleeve



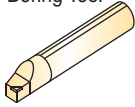
- $\phi 32$   $\phi 1\frac{1}{4}</math>" - 2 PC$
- $\phi 25$   $\phi 1</math>" - 2 PC$
- $\phi 20$   $\phi 3/4</math>" - 1 PC$
- $\phi 16$   $\phi 5/8</math>" - 1 PC$
- $\phi 12$   $\phi 1/2</math>" - 1 PC$
- $\phi 10$   $\phi 3/8</math>" - 1 PC$
- $\phi 8$   $\phi 5/16</math>" - 1 PC$
- $\phi 6$   $\phi 1/4</math>" - 1 PC$

Boring Bar Holder



- $\phi 40$   $\phi 1\frac{1}{2}</math>" - 5 SET$

Boring Tool



$\phi 40$   $\phi 1\frac{1}{2}</math>"$

Oil-feed Drill



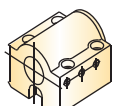
<math>\phi 40</math> <math>\phi 1\frac{1}{2}</math>"

Oil-feed Tool Sleeve



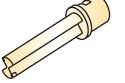
- $\phi 32$   $\phi 1\frac{1}{4}</math>" - 2 PC$
- $\phi 25$   $\phi 1</math>" - 1 PC$
- $\phi 20$   $\phi 3/4</math>"$
- $\phi 16$   $\phi 5/8</math>"$

Drill Holder



- $\phi 40$   $\phi 1\frac{1}{2}</math>" - 1 SET$

Oil-feed Drill



$\phi 40$   $\phi 1\frac{1}{2}</math>"$

I.D. and Face Tooling



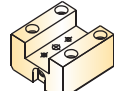
12T- $\square 20$   $3/4</math>"  
10T- $\square 25$  1"$

Tool Clamping Pad



- 12T- 2 PC
- 10T- 2 PC

Square Tool Holder



- 12T- $\square 20$   $3/4</math>" - 2 SET$
- 10T- $\square 25$  1" - 2 SET

O.D. and Face Tooling



12T- $\square 20$   $3/4</math>"  
10T- $\square 25$  1"$

Gib



- 12T- $\square 20$   $3/4</math>" - 12 SET$
- 10T- $\square 25$  1" - 10 SET



- E2 30x 8  $5/16</math>"$
  - E2 30x10  $3/8</math>"$
  - E2 30x12  $1/2</math>"$
  - E2 30x16  $5/8</math>"$
  - E2 30x20  $3/4</math>"$
  - E2 30x25 1"
  - E2 30x32  $1\frac{1}{4}</math>"$
- $\phi 30$ mm or Less boring bar

Boring Holder



Drill

- F30-MT1
- F30-MT2
- F30-MT3

Drill Holder



$\square 20$ mm  $3/4</math>"$

$\square 20$ mm  $3/4</math>"$

- CB3-30x20  $3/4</math>"$

O.D. & End Tool Holder



$\square 20$ mm  $3/4</math>"$

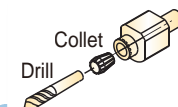
- B3-30x20  $3/4</math>"$

O.D. Tool Holder



- 34403(3-2mm)
- 34404(4-3mm)
- 34405(5-4mm)
- 34406(6-5mm)
- 34407(7-6mm)
- 34408(8-7mm)
- 34409(9-8mm)
- 34410(10-9mm)
- 34411(11-10mm)
- 34412(12-11mm)
- 34413(13-12mm)
- 34414(14-13mm)
- 34415(15-14mm)
- 34416(16-15mm)

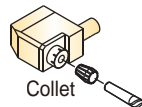
Collet



Collet

- DA30180925-ER25

Axis Milling Tool Holder



Collet

- BR3018092569

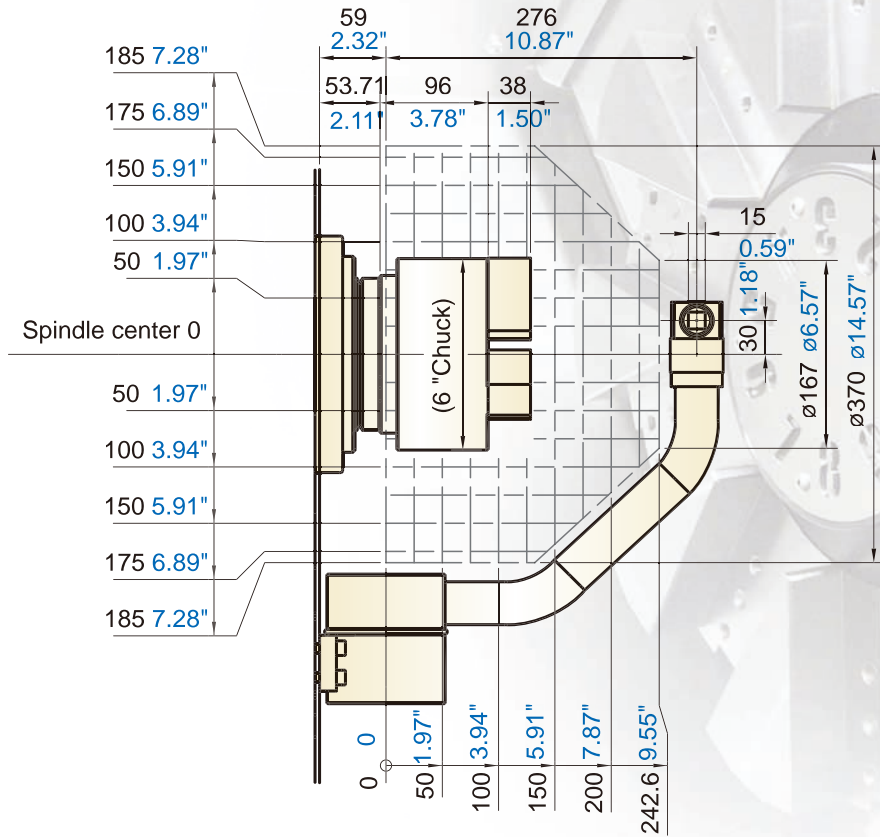
Radial Milling Tool Holder



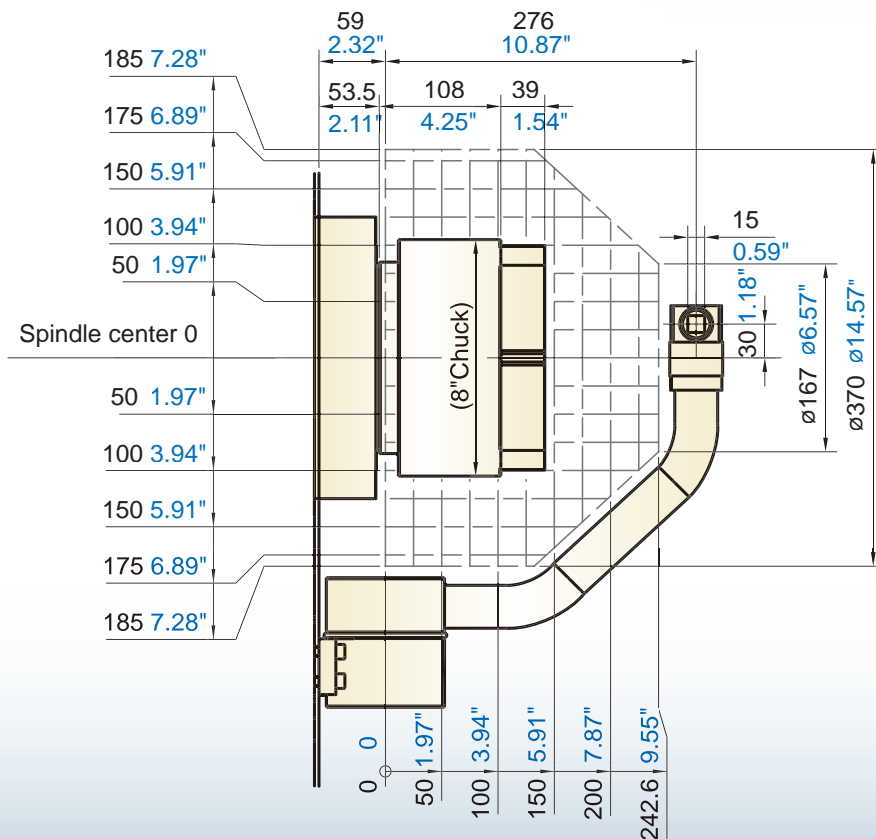
- ET1-ER25(M1)
- ET1-ER25(M2)
- ET1-ER25(M3)
- ET1-ER25(M4)
- ET1-ER25(M5)
- ET1-ER25(M6)
- ET1-ER25(M8)
- ET1-ER25(M10)
- ET1-ER25(M12)

Tapping Sleeve

# 6" OPTIONAL AUTOMATIC TOOL PRE-SETTER INTERFERENCE



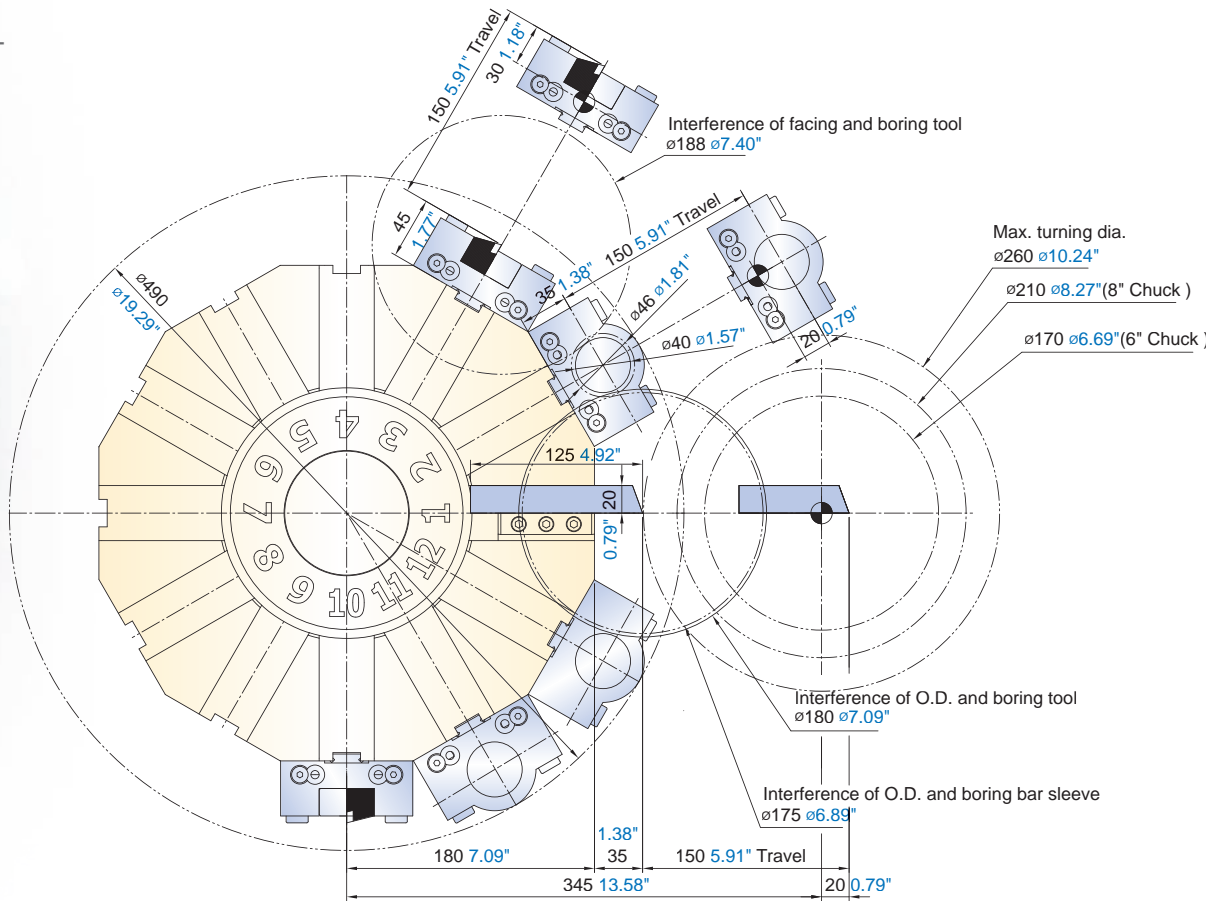
# 8" OPTIONAL AUTOMATIC TOOL PRE-SETTER INTERFERENCE



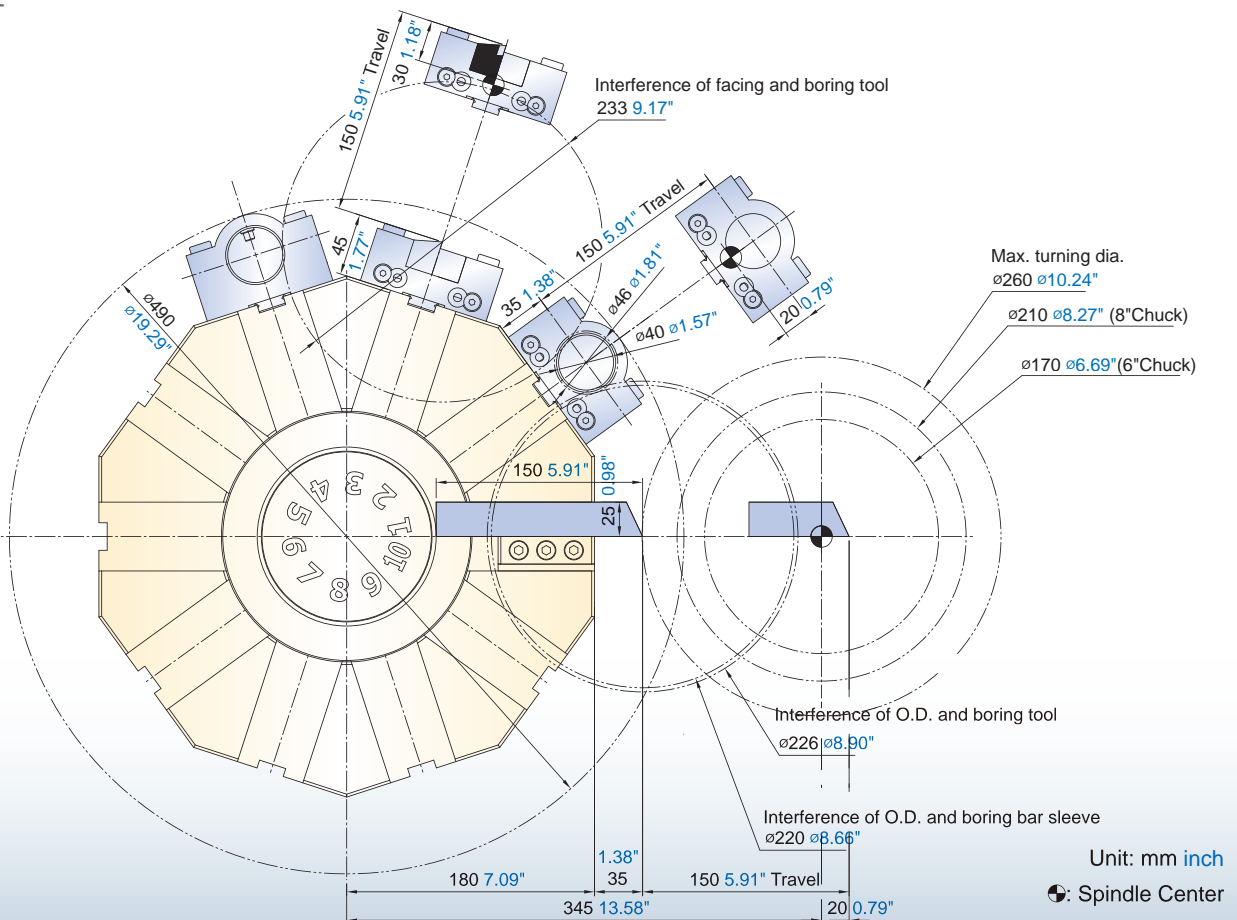
Unit: mm inch

# TOOI INTERFERENCE

12T



10T



Unit: mm inch

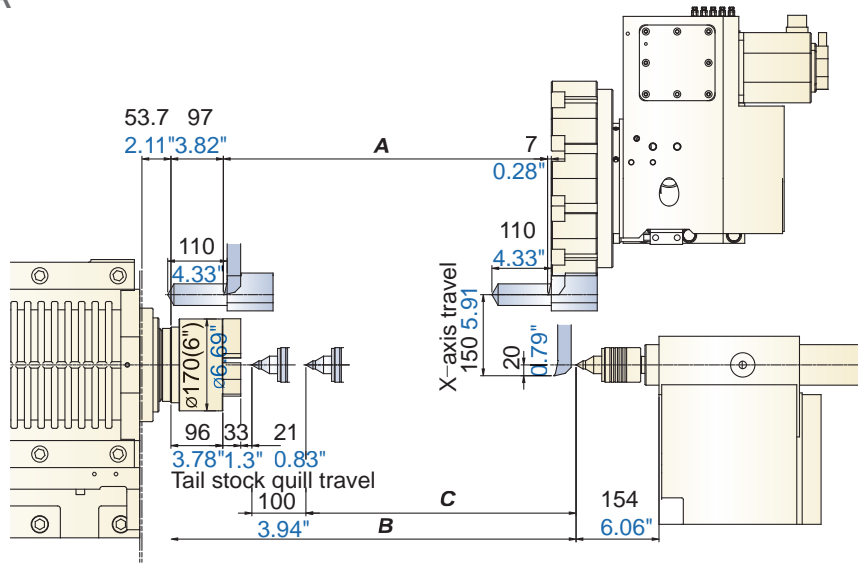
● Spindle Center



# TC-16A/LA/B/LB

## WORKING CAPACITY

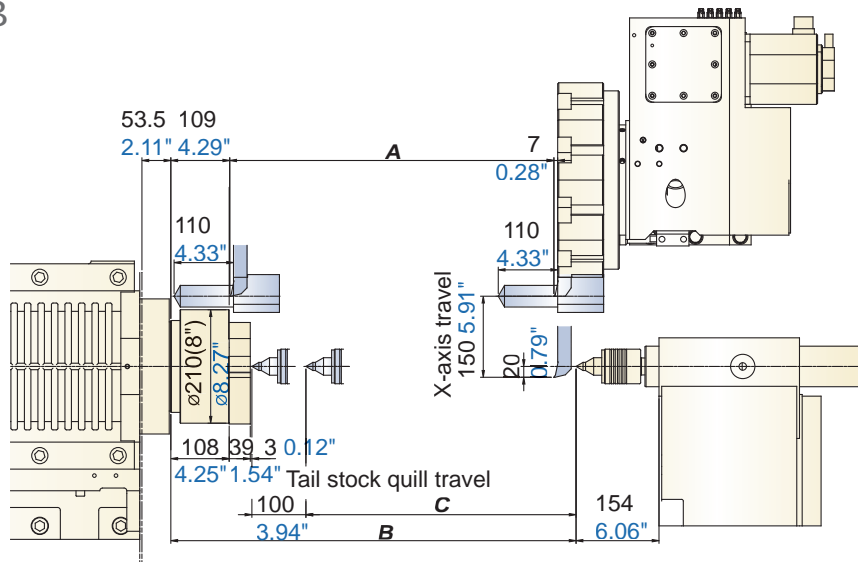
### TC-16A/LA



	Z-axis Travel	Distance Between Center	Tail Stock Base Travel
<b>TC-16A</b>	370 mm 14.57"	520 mm 20.47"	270 mm 10.63"
<b>TC-16LA</b>	600 mm 23.62"	750 mm 29.53"	500 mm 19.69"

Unit: mm inch

### TC-16B/LB

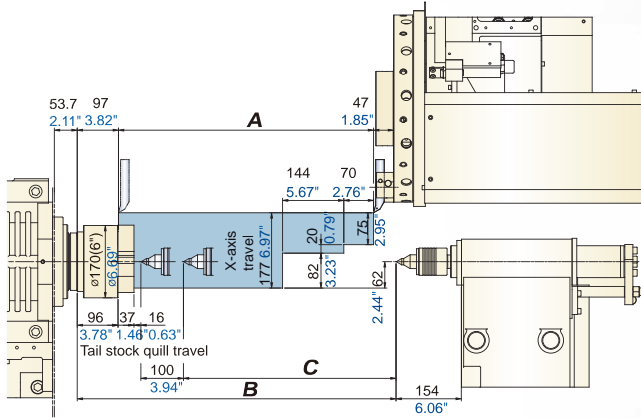


	Z-axis Travel	Distance Between Center	Tail Stock Base Travel
<b>TC-16B</b>	370 mm 14.57"	520 mm 20.47"	270 mm 10.63"
<b>TC-16LB</b>	600 mm 23.62"	750 mm 29.53"	500 mm 19.69"

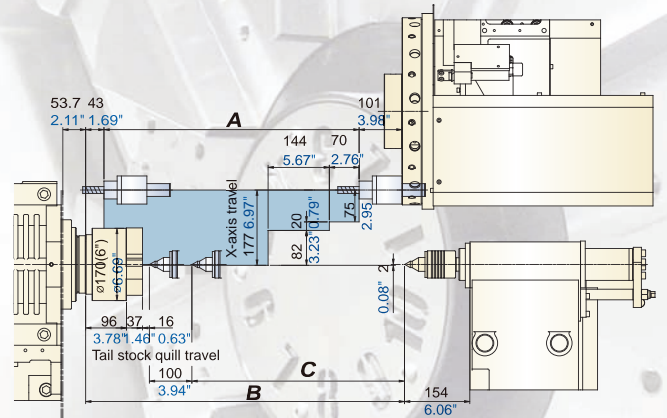
Unit: mm inch

# TC-16MA/LMA WORKING CAPACITY

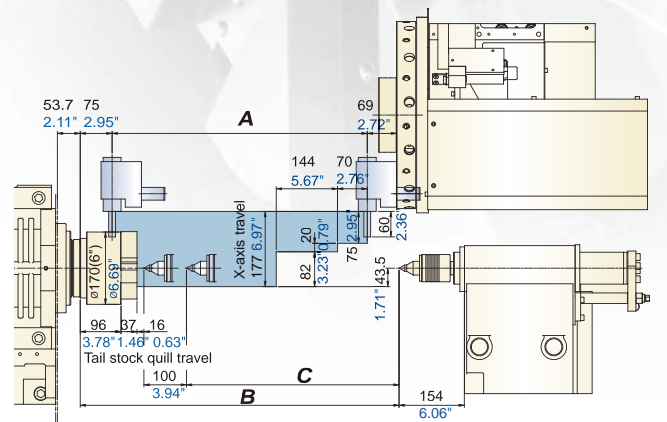
## O.D. Turning Tool



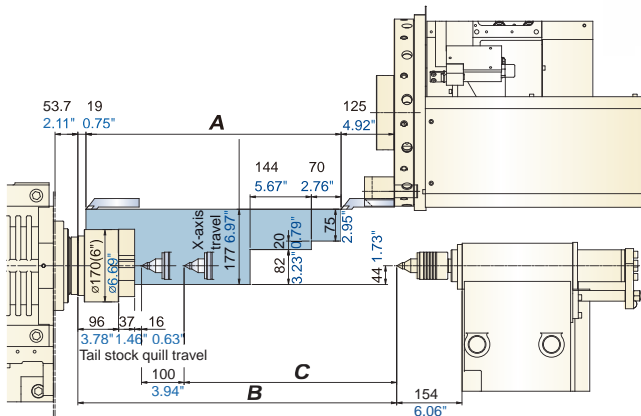
## Axial Drive Tool



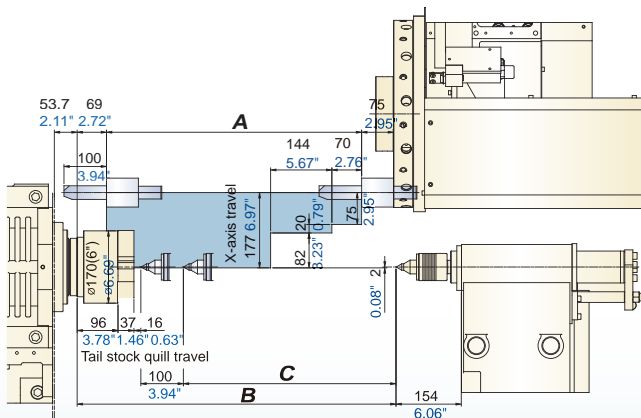
## Radial Drive Tool



## Face Tool



## Boring Tool

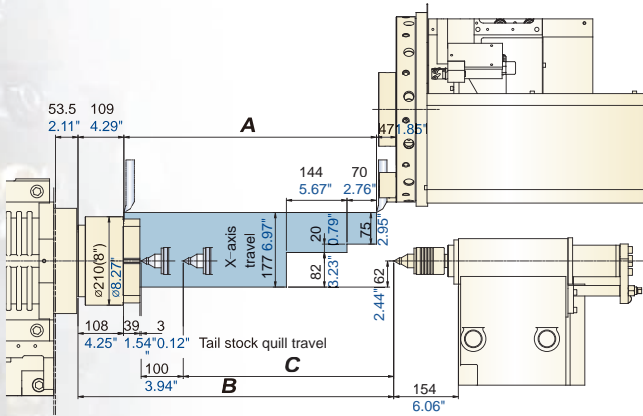


		TC-16MA	TC-16LMA
O.D. Turning Tool	Z-axis travel	370 mm 14.57"	600 mm 23.62"
	Distance Between Center	520 mm 20.47"	750 mm 29.53"
	Tail stock base travel	270 mm 10.63"	500 mm 19.69"
Face Tool	Z-axis travel	370 mm 14.57"	600 mm 23.62"
	Distance Between Center	520 mm 20.47"	750 mm 29.53"
	Tail stock base travel	270 mm 10.63"	500 mm 19.69"
Boring Tool	Z-axis travel	370 mm 14.57"	600 mm 23.62"
	Distance Between Center	520 mm 20.47"	750 mm 29.53"
	Tail stock base travel	270 mm 10.63"	500 mm 19.69"
Axial Drive Tool	Z-axis travel	370 mm 14.57"	600 mm 23.62"
	Distance Between Center	520 mm 20.47"	750 mm 29.53"
	Tail stock base travel	270 mm 10.63"	500 mm 19.69"
Radial Drive Tool	Z-axis travel	370 mm 14.57"	600 mm 23.62"
	Distance Between Center	520 mm 20.47"	750 mm 29.53"
	Tail stock base travel	270 mm 10.63"	500 mm 19.69"

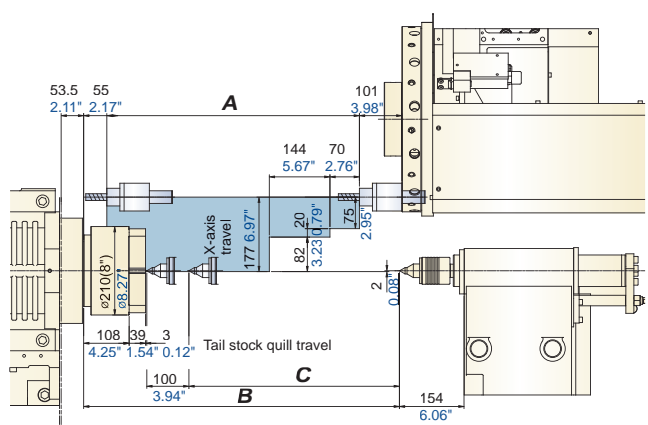
Unit: mm inch

# TC-16MB/LMB WORKING CAPACITY

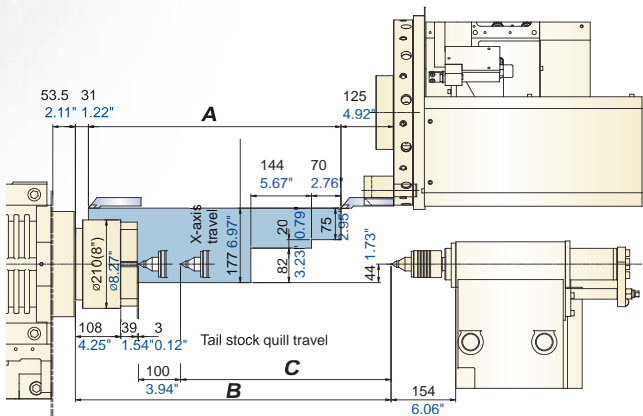
## O.D. Turning Tool



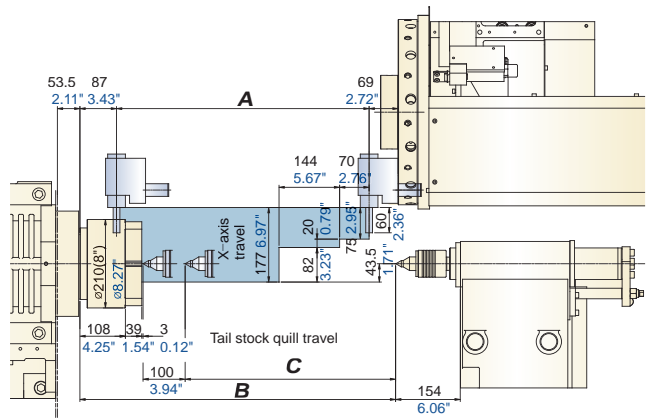
## Axial Drive Tool



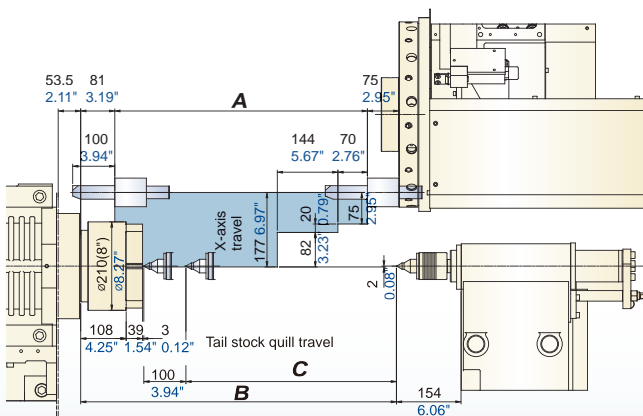
## Face Tool



## Radial Drive Tool



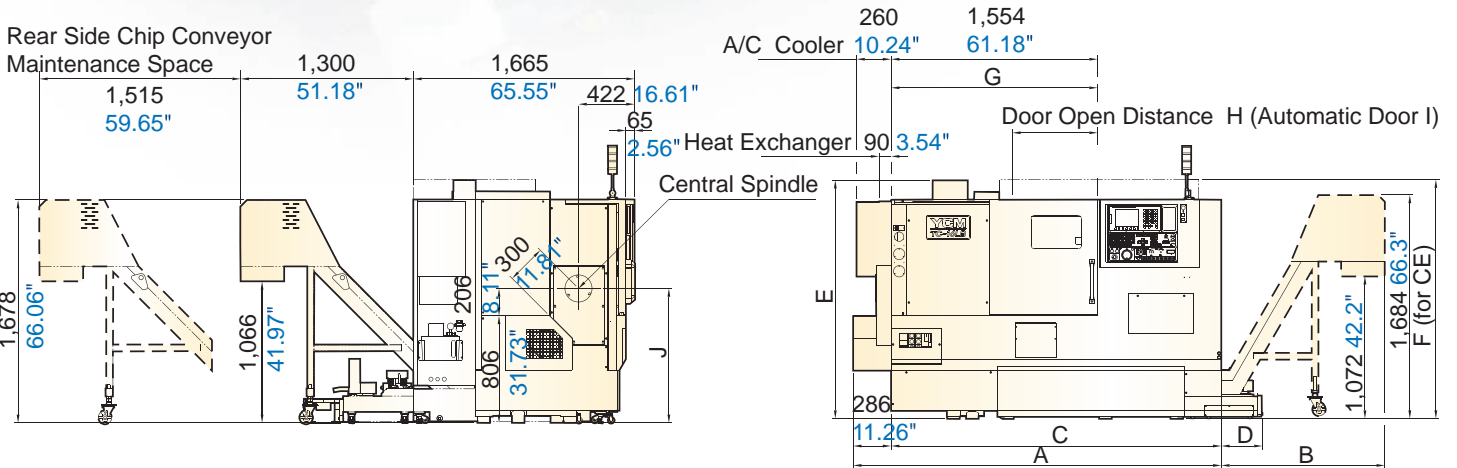
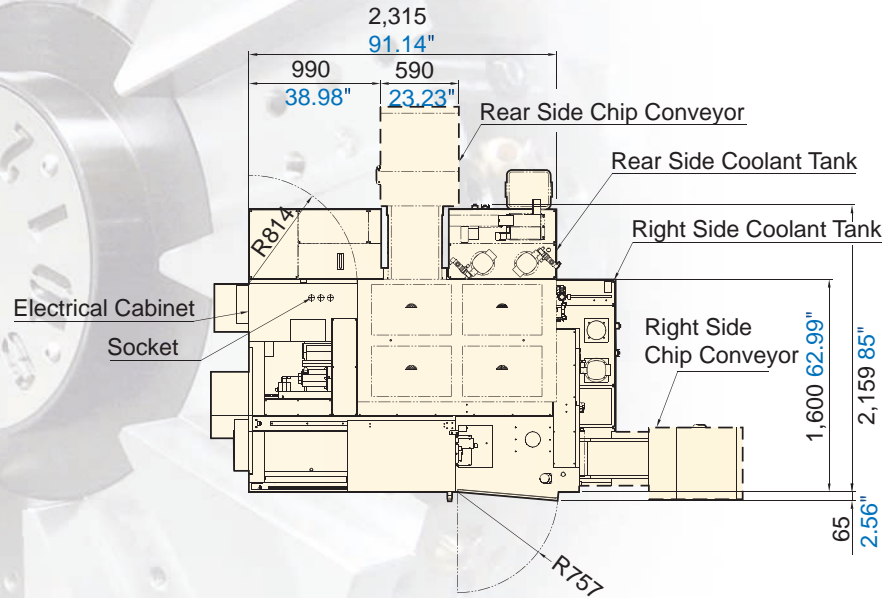
## Boring Tool



		TC-16MB	TC-16LMB
O.D. Turning Tool	Z-axis travel	370 mm 14.57"	600 mm 23.62"
	Distance Between Center	520 mm 20.47"	750 mm 29.53"
	Tail stock base travel	270 mm 10.63"	500 mm 19.69"
Face Tool	Z-axis travel	370 mm 14.57"	600 mm 23.62"
	Distance Between Center	520 mm 20.47"	750 mm 29.53"
	Tail stock base travel	270 mm 10.63"	500 mm 19.69"
Boring Tool	Z-axis travel	370 mm 14.57"	600 mm 23.62"
	Distance Between Center	520 mm 20.47"	750 mm 29.53"
	Tail stock base travel	270 mm 10.63"	500 mm 19.69"
Axial Drive Tool	Z-axis travel	370 mm 14.57"	600 mm 23.62"
	Distance Between Center	520 mm 20.47"	750 mm 29.53"
	Tail stock base travel	270 mm 10.63"	500 mm 19.69"
Radial Drive Tool	Z-axis travel	370 mm 14.57"	600 mm 23.62"
	Distance Between Center	520 mm 20.47"	750 mm 29.53"
	Tail stock base travel	270 mm 10.63"	500 mm 19.69"

Unit: mm inch

# MACHINE DIMENSIONS



		A	B	C	D	E	F	G	H	I	J
<b>TC-16 A/B/ MA/MB</b>	Right Side Chip Conveyor	2,541 mm 100.04"	1,230 mm 48.43"	2,255 mm 88.78"	310 mm 12.20"	1,795 mm 70.67"	1,799 mm 70.83"	1,484 mm 58.43"	602 mm 23.70"	580 mm 22.83"	980 mm 38.58"
	Rear Side Chip Conveyor	2,581 mm 101.61"	-	2,295 mm 90.35"	-	1,827 mm 71.93"	1,831 mm 72.09"	1,484 mm 58.43"	602 mm 23.70"	580 mm 22.83"	1,012 mm 39.84"
<b>TC-16 LA/LB/ LMA/ LMB</b>	Right Side Chip Conveyor	2,771 mm 109.09"	1,230 mm 48.43"	2,485 mm 97.83"	310 mm 12.20"	1,795 mm 70.67"	1,799 mm 70.83"	1,554 mm 61.18"	642 mm 25.28"	620 mm 23.70"	980 mm 38.58"
	Rear Side Chip Conveyor	2,811 mm 110.67"	-	2,525 mm 99.41"	-	1,827 mm 71.93"	1,831 mm 72.09"	1,554 mm 61.18"	642 mm 25.28"	620 mm 23.70"	1,020 mm 40.16"

Unit: mm inch



# SPECIFICATIONS

	TC-16A	TC-16MA	TC-16LA	TC-16LMA	TC-16B	TC-16MB	TC-16LB	TC-16LMB
<b>MACHINING CAPACITY</b>								
Swing Over Bed	ø550 mm ø21.65"							
Swing Over Carriage	ø320 mm ø12.60"							
Max. Turning Diameter	ø260 mm ø10.24"	ø230 mm ø9.06"	ø260 mm ø10.24"	ø230 mm ø9.06"	ø260 mm ø10.24"	ø230 mm ø9.06"	ø260 mm ø10.24"	ø230 mm ø9.06"
Max. Turning Length	370 mm 14.57"	370 mm 14.57"	600 mm 23.62"	600 mm 23.62"	370 mm 14.57"	370 mm 14.57"	600 mm 23.62"	600 mm 23.62"
Distance Between Center	520 mm 20.47" (opt.)		750 mm 29.53"		520 mm 20.47" (opt.)		750 mm 29.53"	
<b>SPINDLE</b>								
Height From The Ground to Spindle	980 mm 38.58"							
Chuck	6"				8"			
Spindle Nose	A2-5				A2-6			
Inner Spindle Tapper	1/20							
Spindle Front Bearing Inner Diameter	ø100 mm ø3.94"				ø110 mm ø4.33"			
Hole Through Spindle	ø62 mm ø2.44"				ø77 mm ø3.03"			
Hole Through Draw Bar	ø52 mm ø2.05"				ø66 mm ø2.60"			
Spindle Speed	5,000 rpm				4,500 rpm			
Max. Spindle Torque	15.58 kgf-m 112.69 lb-ft				17.31 kgf-m 125.21 lb-ft			
C-axis Index Accuracy	-	0.001°	-	0.001°	-	0.001°	-	0.001°
<b>Linear Guideway</b>								
X-axis Linear Guideway Width	240 mm 9.45"							
Z-axis Linear Guideway Width	340 mm 13.39"							
Slant Bed Angle	45°							
<b>MAIN TRAVEL</b>								
X-axis Travel	150 mm (130mm+20mm) 5.91" (5.12"+0.79")	177 mm (115mm+62mm) 6.97" (4.53"+2.44")	150 mm (130mm+20mm) 5.91" (5.12"+0.79")	177 mm (115mm+62mm) 6.97" (4.53"+2.44")	150 mm (130mm+20mm) 5.91" (5.12"+0.79")	177 mm (115mm+62mm) 6.97" (4.53"+2.44")	150 mm (130mm+20mm) 5.91" (5.12"+0.79")	177 mm (115mm+62mm) 6.97" (4.53"+2.44")
Z-axis Travel	370 mm 14.57"	370 mm 14.57"	600 mm 23.62"	600 mm 23.62"	370 mm 14.57"	370 mm 14.57"	600 mm 23.62"	600 mm 23.62"
<b>FEEDRATE</b>								
X-axis Rapid Feedrate	24 m/min. 944.88 ipm							
Z-axis Rapid Feedrate	30 m/min. 1181.10 ipm							
Cutting Feedrate (X/Z)	1~10,000 mm/min. 0.04~393.70 ipm							
<b>Motor</b>								
Spindle Motor	11 kW / 15 kW 14.75 HP / 20.12 HP							
Axis Power (X/Z)	1.8 kW / 1.8 kW 2.41 HP / 2.41 HP							
Turret Power	1.2 kW 1.61 HP	0.75 kW 1.01 HP	1.2 kW 1.61 HP	0.75 kW 1.01 HP	1.2 kW 1.61 HP	0.75 kW 1.01 HP	1.2 kW 1.61 HP	0.75 kW 1.01 HP
Live Tool Power	-	3.7 kW 4.96 HP	-	3.7 kW 4.96 HP	-	3.7 kW 4.96 HP	-	3.7 kW 4.96 HP
Live Tool Speed	-	4,500 rpm	-	4,500 rpm	-	4,500 rpm	-	4,500 rpm
Torque of Milling Tool Motor	-	2.4 kgf-m 17.36 lb-ft	-	2.4 kgf-m 17.36 lb-ft	-	2.4 kgf-m 17.36 lb-ft	-	2.4 kgf-m 17.36 lb-ft

Note: The manufacturer reserves the right to modify the design, specifications, mechanisms, etc. to improve the performance of the machine without notice. All the specifications shown above are just for reference.

# TC-16 SPECIFICATIONS

	TC-16A	TC-16MA	TC-16LA	TC-16LMA	TC-16B	TC-16MB	TC-16LB	TC-16LMB	
<b>TURRET</b>									
Turret Type	Servo Motor Drive (Hydraulic Clamp)								
Turret Capacity (opt.)	12T (10T)	12T	12T (10T)	12T	10T (12T)	12T	10T (12T)	12T	
Standard Tool	Shank Height for Square Tool □20 mm □3/4"				□25 mm □1"		□20 mm □3/4"		□25 mm □1"
	Shank Diameter for Boring Bar ø40 mm ø1&1/2"		ø32 mm ø1&1/4"		ø40 mm ø1&1/2"		ø32 mm ø1&1/4"		ø40 mm ø1&1/2"
Swing Over Turret	ø490 mm ø19.29"	ø560 mm ø22.05"	ø490 mm ø19.29"	ø560 mm ø22.05"	ø490 mm ø19.29"	ø560 mm ø22.05"	ø490 mm ø19.29"	ø560 mm ø22.05"	
<b>TAILSTOCK</b>									
Tailstock Quill Diameter	ø75 mm ø2.95" (opt.)		ø75 mm ø2.95"		ø75 mm ø2.95" (opt.)		ø75 mm ø2.95"		
Tailstock Quill Taper-Stationary Center	MT-4 (opt.)		MT-4		MT-4 (opt.)		MT-4		
Tailstock Quill Travel	100 mm 3.94" (opt.)		100 mm 3.94"		100 mm 3.94" (opt.)		100 mm 3.94"		
Tailstock Travel	270 mm 10.63" (opt.)		500 mm 19.69"		270 mm 10.63" (opt.)		500 mm 19.69"		
<b>LUBRICATION</b>									
Guideway Lubrication Pump	150 W 0.20 HP								
Guideway Lubrication Pump Capacity	6 L								
<b>HYDRAULIC PUMP</b>									
Hydraulic Pump Capacity	37 L								
Hydraulic Pump Pressure	45 kgf/cm <sup>2</sup> 640.04 psi								
Hydraulic Pump Flow	27.5 L/min.								
Hydraulic Pump Motor	1.5 kW 2.01 HP								
<b>COOLANT</b>									
Coolant Tank Capacity	150 L		165 L		150 L		165 L		
Coolant Tank Pump Motor	750 W 1.01 HP								
<b>GENERAL</b>									
Power Consumption (Transformer)	27.36 kVA (30 kVA)	29.21 kVA (40 kVA)	27.36 kVA (30 kVA)	29.21 kVA (40 kVA)	27.36 kVA (30 kVA)	29.21 kVA (40 kVA)	27.36 kVA (30 kVA)	29.21 kVA (40 kVA)	
Machine Weight	3,400 kg 7,496 lb	3,450 kg 7,606 lb	3,700 kg 8,157 lb	3,750 kg 8,267 lb	3,400 kg 7,496 lb	3,450 kg 7,606 lb	3,700 kg 8,157 lb	3,750 kg 8,267 lb	
Floor Space	2,815 mm x 1,670 mm x 1,795 mm 110.83" x 65.75" x 70.67"		3,045 mm x 1,670 mm x 1,795 mm 119.88" x 65.75" x 70.67"		2,815 mm x 1,670 mm x 1,795 mm 110.83" x 65.75" x 70.67"		3,045 mm x 1,670 mm x 1,795 mm 119.88" x 65.75" x 70.67"		

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# TC-16 ACCESSORIES

● :Standard ○ :Option – : N/A

		TC-16A	TC-16MA	TC-16LA	TC-16LMA	TC-16B	TC-16MB	TC-16LB	TC-16LMB
Tool Kit		●	●	●	●	●	●	●	●
Work Lamp		●	●	●	●	●	●	●	●
Pilot Lamp		●	●	●	●	●	●	●	●
Automatic Door		○	○	○	○	○	○	○	○
Safety Door		●	●	●	●	●	●	●	●
Hydraulic System		●	●	●	●	●	●	●	●
Turret Capacity	12T	●	●	●	●	○	●	○	●
	10T	○	–	○	–	●	–	●	–
VDI Tool Holder		○	○	○	○	○	○	○	○
Hydraulic Hollow Chuck		●	●	●	●	●	●	●	●
Hard Jaws and Soft Jaws 1 set		●	●	●	●	●	●	●	●
Additional Hard and Soft Jaws		○	○	○	○	○	○	○	○
Soft Jaw Former		○	○	○	○	○	○	○	○
Collect Chuck		○	○	○	○	○	○	○	○
Chuck Switch Pedal		●	●	●	●	●	●	●	●
Tailstock Pedal		○	○	○	○	○	○	○	○
Manual Tailstock		○	○	●	●	○	○	●	●
Tailstock Center Shaft - Stationary Quill Type (MT4)		○	○	●	●	○	○	●	●
Full Chip Enclosure		●	●	●	●	●	●	●	●
Leveling Blocks and Bolts		●	●	●	●	●	●	●	●
Foundation Screw Bolt		○	○	○	○	○	○	○	○
Air Gun		●	●	●	●	●	●	●	●
Cutting Air Blast		○	○	○	○	○	○	○	○
Coolant Equipment System	Standard (Walrus TPHK_2T3-3)	●	●	●	●	●	●	●	●
	Optional (WalrusTPHK_2T4-4)	○	○	○	○	○	○	○	○
Coolant Gun		○	○	○	○	○	○	○	○
Oil Skimmer		○	○	○	○	○	○	○	○
Paper Filter		○	○	○	○	○	○	○	○
Oil-mist Collector		○	○	○	○	○	○	○	○
Central Automatic Lubrication System		●	●	●	●	●	●	●	●
Chip Conveyor	Right Side	●	●	●	●	●	●	●	●
	Rear Side	○	○	○	○	○	○	○	○
Electrical Cabinet	Heat Exchanger	●	●	●	●	●	●	●	●
	A/C. Cooler	○	○	○	○	○	○	○	○
Auto Tool Length Measurement System		○	○	○	○	○	○	○	○
Bar Feeder Hardware and Software		○	○	○	○	○	○	○	○
Parts Catcher System		○	○	○	○	○	○	○	○
Parts Conveyor		○	○	○	○	○	○	○	○
CNC Control	FANUC TXP-100FA	●	–	●	–	●	–	●	–
	FANUC TXP-200FA	–	●	–	●	–	●	–	●
Mechanical Electrical & Operating Manuals		●	●	●	●	●	●	●	●

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# VMC

YCM PRODUCT LINES

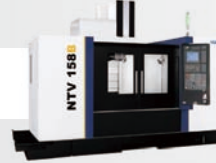
## Vertical Machining Center

**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, TV146A/B, TV158B, TV188B, TV2110B, TV2610B**



**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**

**FX Series** High Performance 5-axis Vertical Machining Center  
**FX380A**

**NSV Series** Ultra High Performance Vertical Machining Center  
**NSV66A, NSV85A, NSV102A, NSV156A**



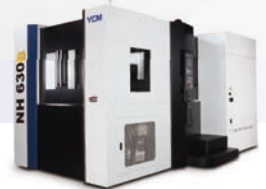
**NDV Series** High Precision Die Mold Vertical Machining Center  
**NDV66A, NDV85A, NDV102A**

**TCV Series** High Performance Traveling Column Vertical Machining Center  
**TCV2000A, TCV3000A, TCV3000A-5AF, TCV3000A-5AX**

**DCV Series** Advanced Double Column Vertical Machining Center

**DCV2012A/B, DCV3016B, DCV4016B, DCV3021B, DCV4021B, DCV5021B, DCV6021B, DCV3025B, DCV4025B, DCV5025B, DCV4030B, DCV5030B, DCV6030B, DCV4035B, DCV5035B, DCV6035B, DCV2018A-5AX, DCV4030B-5AX, DCV5030B-5AX, DCV6030B-5AX, DCV4030B-5AF**

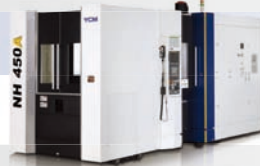
**NDC Series** High Performance Double Column Vertical Machining Center  
**NDC2016B, NDC3016B, NDC4016B, NDC2018B-AHC, NDC3018B-AHC, NDC4018B-AHC**



# HMC

## Horizontal Machining Center

**H Series** High Production Horizontal Machining Center  
**H500A/B, H630B, 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**



**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**



### INTEGRATION AND SOLUTIONS

Integrated Operation Control System **iOPERATION Plus**

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**YEONG CHIN MACHINERY INDUSTRIES CO., LTD.**

No. 888, Sec. 1, Homu Road, Shengang District, Taichung 42953, Taiwan

Tel : +886-4-2562-3211

Fax: +886-4-2562-6479

Web Page: [WWW.YCMCNC.COM](http://WWW.YCMCNC.COM)

Email: [sales@YCMCNC.COM](mailto:sales@YCMCNC.COM)



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