

GT

Series

HIGH PERFORMANCE GEO TURNING CENTER



YCM®

GT

Series

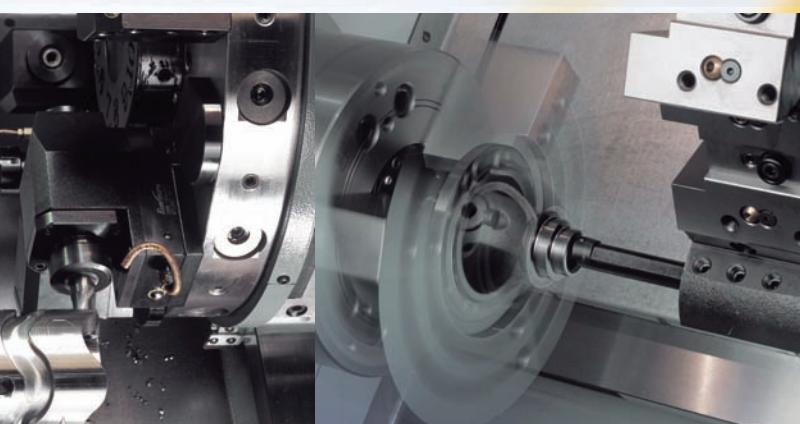
New Concept
Revolutionary Structural Design

GT-200A/B/MA GT-250A/B/MA/MB GT-300A/B/LA/LB/MA/MB/LMA/LMB GT-380A/B/LA/LB

The GT Series High Performance Turning Center Adopts Revolutionary Design Concepts in Rigidity, Accuracy and Performance.

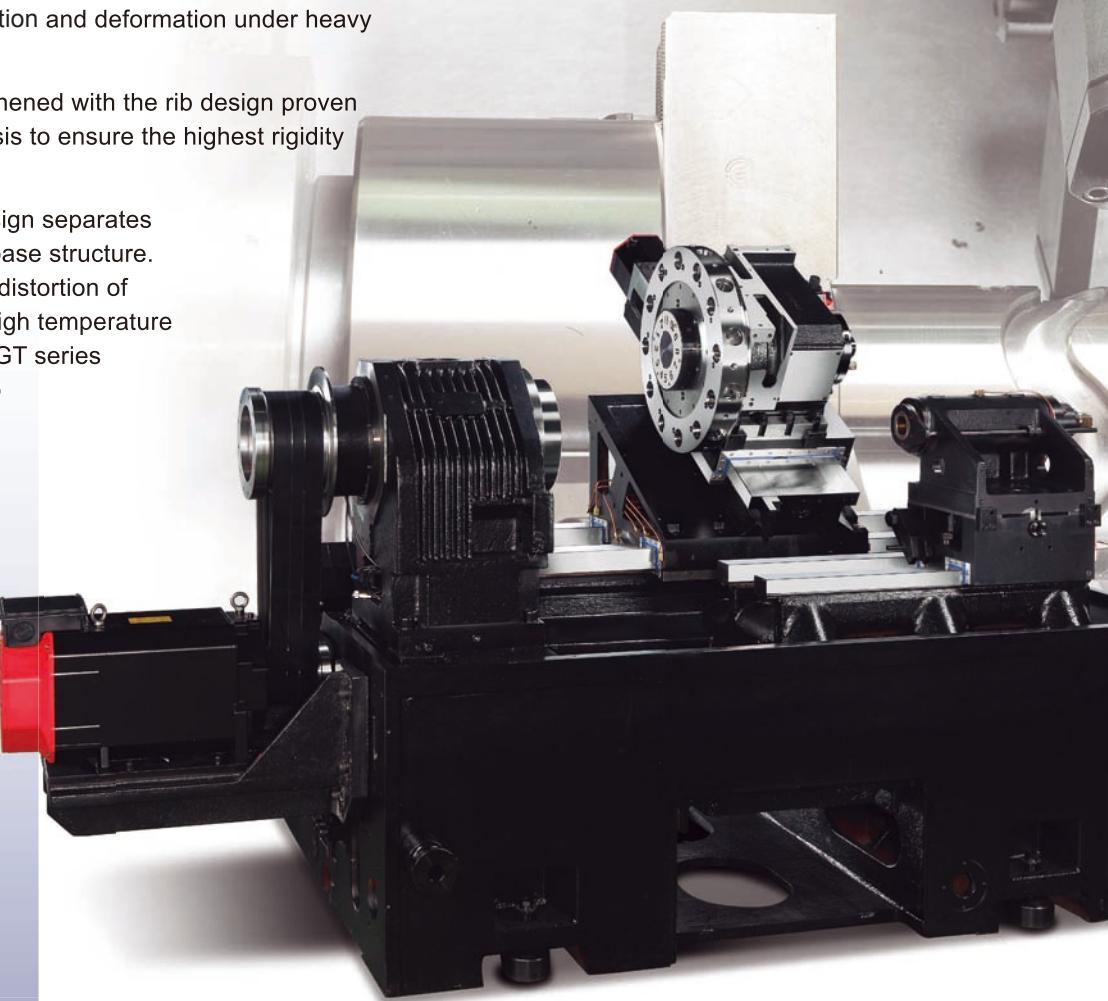
- New box type base structure provides unprecedented rigidity during heavy turning and superb dampening capacity which achieves flawless accuracy and stability.
- The oversize spindle is equipped with a high torque motor for exceptional turning and milling results.
- A complete thermal control system is implemented to minimize structural deformation and provide the best machining accuracy.
- Additionally, a 12-station servo driven VDI turret, designed and manufactured by YCM, can be offered as an option for live tooling function realizing various complex machining.





Ultra-stable and Highly Rigid Box-type Base Structure

- The box-type design offers a ultra-wide base structure, high quality MEEHANITE® castings, oversize hardened & ground boxed ways to ensure the best machining performance by eliminating structural distortion and deformation under heavy machining conditions.
- The inner walls are strengthened with the rib design proven through a strict FEM analysis to ensure the highest rigidity and damping capacity.
- The revolutionary base design separates chip and coolant from the base structure. Thus, it minimizes thermal distortion of machine base caused by high temperature of chips and coolant. The GT series also includes standard chip conveyor that can be installed either from the rear or side of the machine depending on your factory layout.



Base Comparison: The GT Series vs. Slanted Bed Lathes

Model	Shape	Structure	Box Ways	Anti-distortion	Dampening Capacity
GT Series	Boxed	Strengthened	Oversize	Enhanced	Enhanced
Other Lathes	Rectangle	Normal	Normal	Normal	Normal



Versatile Tailstock Design

- The tailstock is supported by hardened and ground boxed ways that is structurally one-piece with the machine base, which ensures the best structural rigidity.
- The oversize quill supports heavy workpieces while maintaining machining accuracy.
- Optional live quill is ideal for high-speed, high production environment.

Tailstock Specifications

Model	Stationary Center	Live Center (opt.)	Quill Diameter	Max. Pressure	Max. Thrust Force
GT-200	MT-4		$\varnothing 75 \text{ mm } \varnothing 2.95"$	10 kg/cm^2 142psi	360 kgf 794 lb
GT-250/300/380	MT-5	MT-4	$\varnothing 100 \text{ mm } \varnothing 3.94"$	10 kg/cm^2 142psi	590 kgf 1,300 lb

The GT Series Base Data

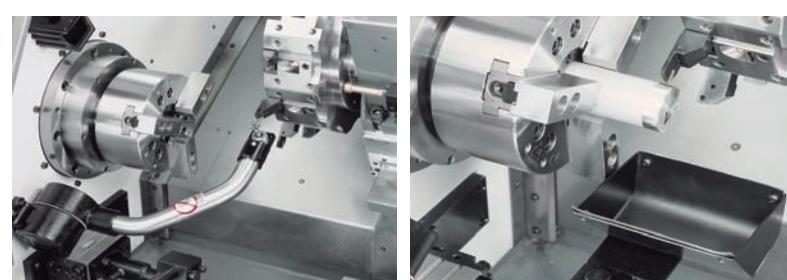
	GT-200 A/B/MA	GT-250 A/B GT-250 MA/MB	GT-300 A/B/MA/MB GT-380 A/B	GT-300 LA /LB /LMA /LMB GT-380 LA/LB
Length	1,740 mm 68"	1,860 mm 73"	2,585 mm 102"	2,950 mm 116"
Width	1,020 mm 40"	1,175 mm 46"	1,195 mm 47"	1,195 mm 47"
Weight	1,880 kg 4,145 lb	2,520 kg 5,556 lb	3,020 kg 6,658 lb	3,590 kg 7,915 lb

High Productivity Enhancements

Automatic Tool Length Measurement (opt.)

Automatic Bar-feeder System (opt.)

Automatic Parts Catcher (opt.) and Transfer System (opt.)



GT

Series

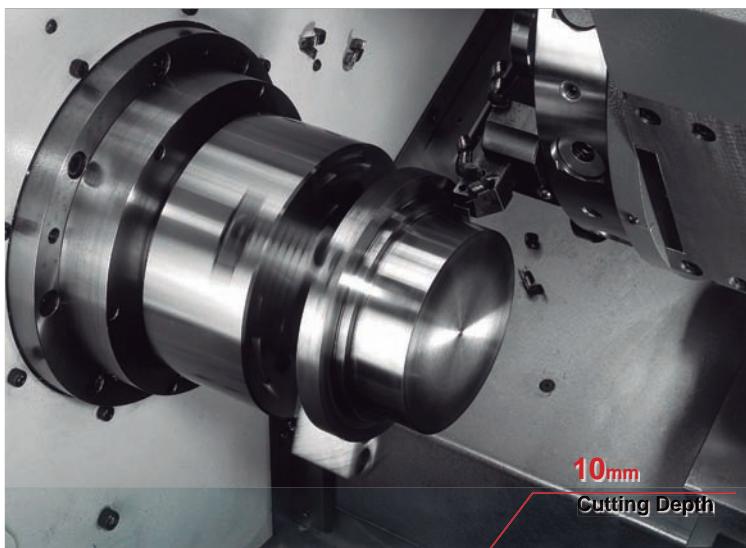
High Performance

The GT series is ideal for high productivity turning and milling with exceptional speed, power, and capacity.

- Oversize hardened and ground box ways, ballscrew and bearings are essential requirements for enhancing the axial and radial cutting rigidity.
- High torque spindle motor provides the necessary power for roughing operation on tough material at low spindle speed.



Powerful Cutting Performance

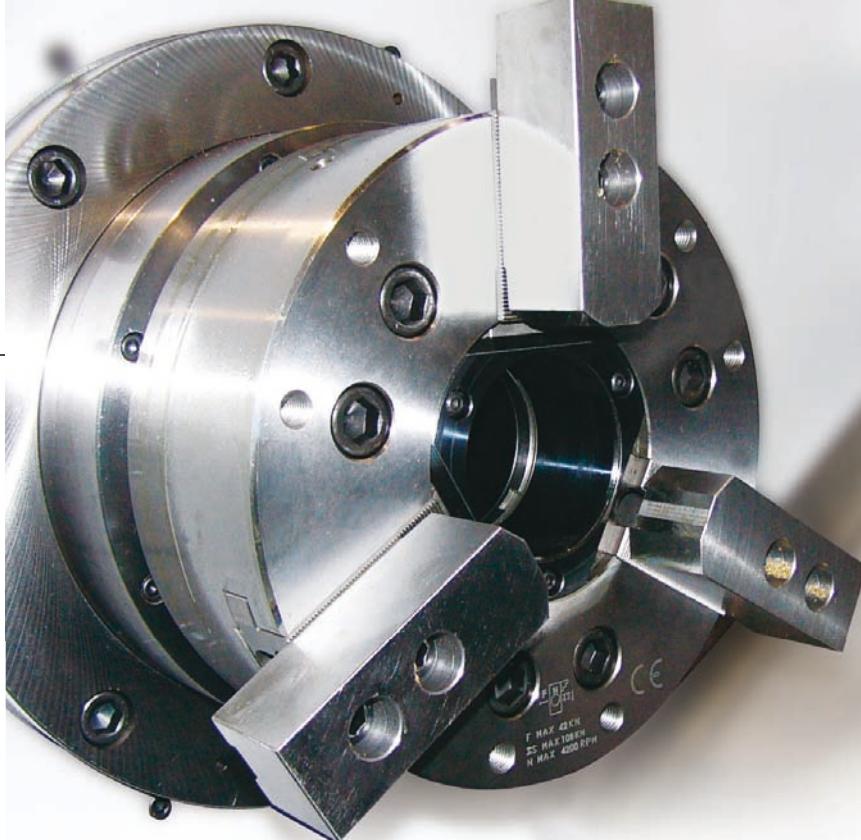


Model	GT-250 series
Material (JIS)	S45C
Diameter	ø89 mm
Cutting Velocity	150 m/min.
Cutting Feed	0.3 mm/rev.
Cutting Depth	10 mm



Max. Drilling Capacity: **Ø59 mm**

Model	GT-250 series
Drill Diameter	ø59 mm
Material (JIS)	S45C
Spindle Speed	650 rpm
Cutting Feed	0.15 mm/rev.
Cutting Velocity	120 m/min.



Heavy-duty Spindle Design and Durable Hydraulic Chuck

- High quality chuck with powerful hydraulic system ensures machining rigidity and accuracy.
- Pressure sensors are added to hydraulic system for monitoring clamping force of chuck, assuring the proper clamping of heavy parts.

Unit: mm inch

Model	GT-200A/MA	GT-200B	GT-250A/MA	GT-250B/MB GT-300A/LA GT-300MA/LMA	GT-300B/LB GT-300MB/LMB GT-380A/LA	GT-380B/LB
Chuck Size	6"	8"	8"	10"	12"	15"
Spindle Through Hole	ø56 mm 2.20"	ø62 mm 2.44"	ø62 mm 2.44"	ø88 mm 3.46"	ø105 mm 4.13"	ø105 mm 4.13"
Bar Capacity	ø45 mm 1.77"	ø52 mm 2.05"	ø52 mm 2.05"	ø75 mm 2.95"	ø91 mm 3.58"	ø91 mm 3.58"
Bearings	Front Dual Roller + Angular Contact	ø90 mm 3.54"	ø100 mm 3.94"	ø110 mm 4.33"	ø130 mm 5.12"	ø160 mm 6.30"
	Rear Dual Roller	ø80 mm 3.15"	ø90 mm 3.54"	ø100 mm 3.94"	ø120 mm 4.72"	ø150 mm 5.91"

Unique Quill-type Spindle Cartridge

All spindles are strictly assembled in temperature controlled room, and proven through rigorous run-in test to assure the highest quality and reliability. The unique quill-type spindle cartridge designed for easy maintenance and repair if necessary.

High Precision Bearings

Oversize dual roller spindle bearings are used in both front and rear of the spindle to provide optimal spindle rigidity that is capable of handling 10mm cutting depth on hard material.

Comprehensive Thermal Control System

- The spindle headstock is symmetrically designed with radial configuration for the best heat reduction. (GT-250/300/380 series)
- Reinforced ventilation is located throughout the spindle head to minimize thermal growth.
- Effective exhaust fans are installed on the spindle headstock to remove the heat generated from long running hours.
- High performance piston pump and radiation system are added to control the temperature of hydraulic oil, which minimize the thermal impact of hydraulic system.
- Isolated coolant tanks eliminate the effect of high coolant temperature after long running hours, which reduces structural deformation.
- The spindle motor sits outside of the machine base to isolate the heat generated from spindle motor after long operations.
- Low heat generated work lamp is installed to minimize temperature impact.



GT

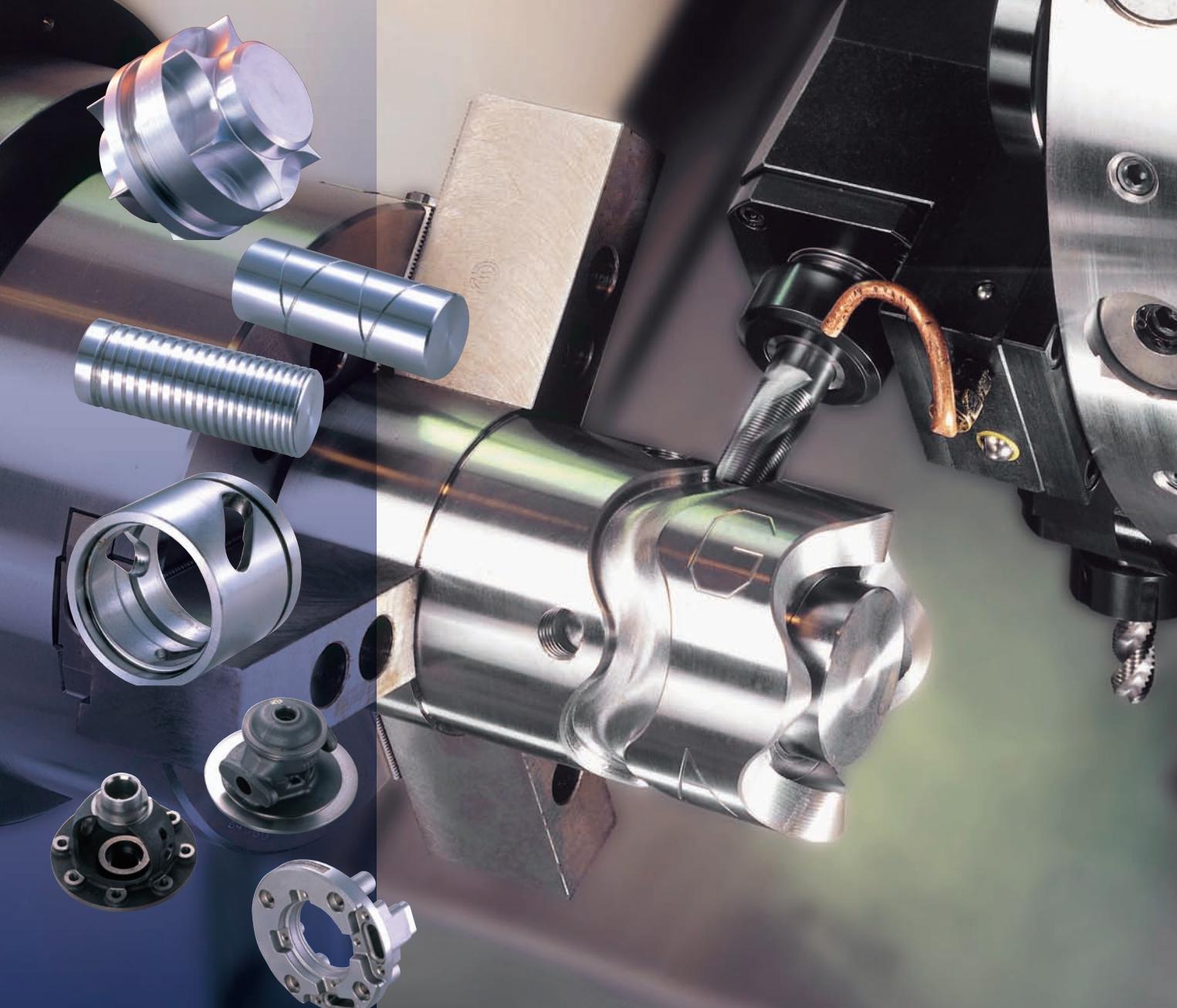
Series

Powerful
Milling Capability

Installed with YCM in-house servo-driven VDI turret with live tooling and full C-axis contour control.

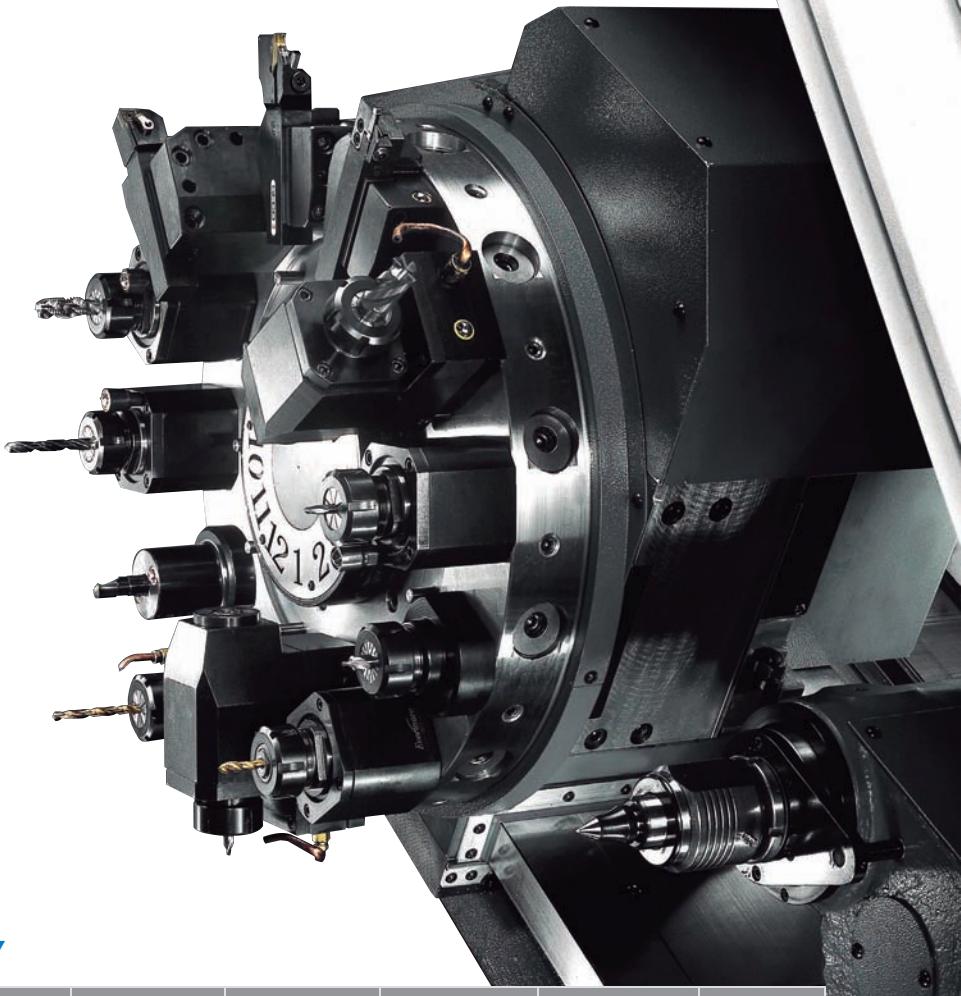
The rigidity of the GT series is demonstrated through a wide range of complex milling functions enhancing the productivity and versatility of the GT series.

The ultra high-speed servo-driven turret with all stations live enables the GT series to undertake complex machining requirements.



Powerful VDI Turret with Milling Functions

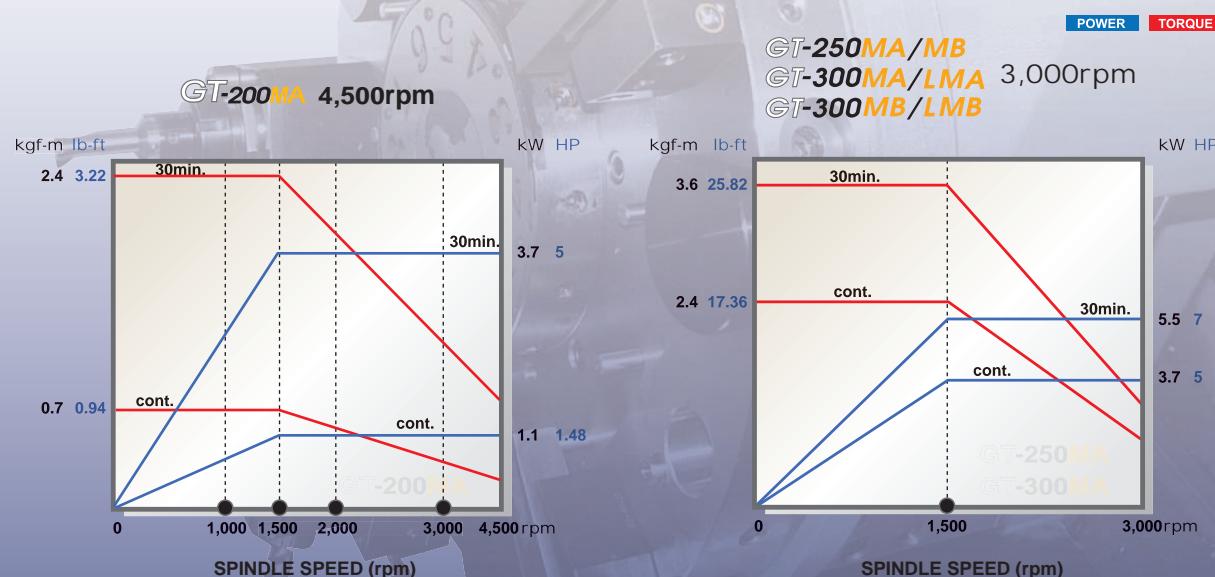
- Extra large turret 3-piece coupling are installed to assure the best milling performance.
- VDI turret is servo-driven for quick and reliable tool indexing; the adjacent tool index time is only 0.6 second that reduces non-machining time and improves productivity.
- The turret is designed with optimal tool arrangement to minimize the interference and maximize machine utilization for effective production capacity.



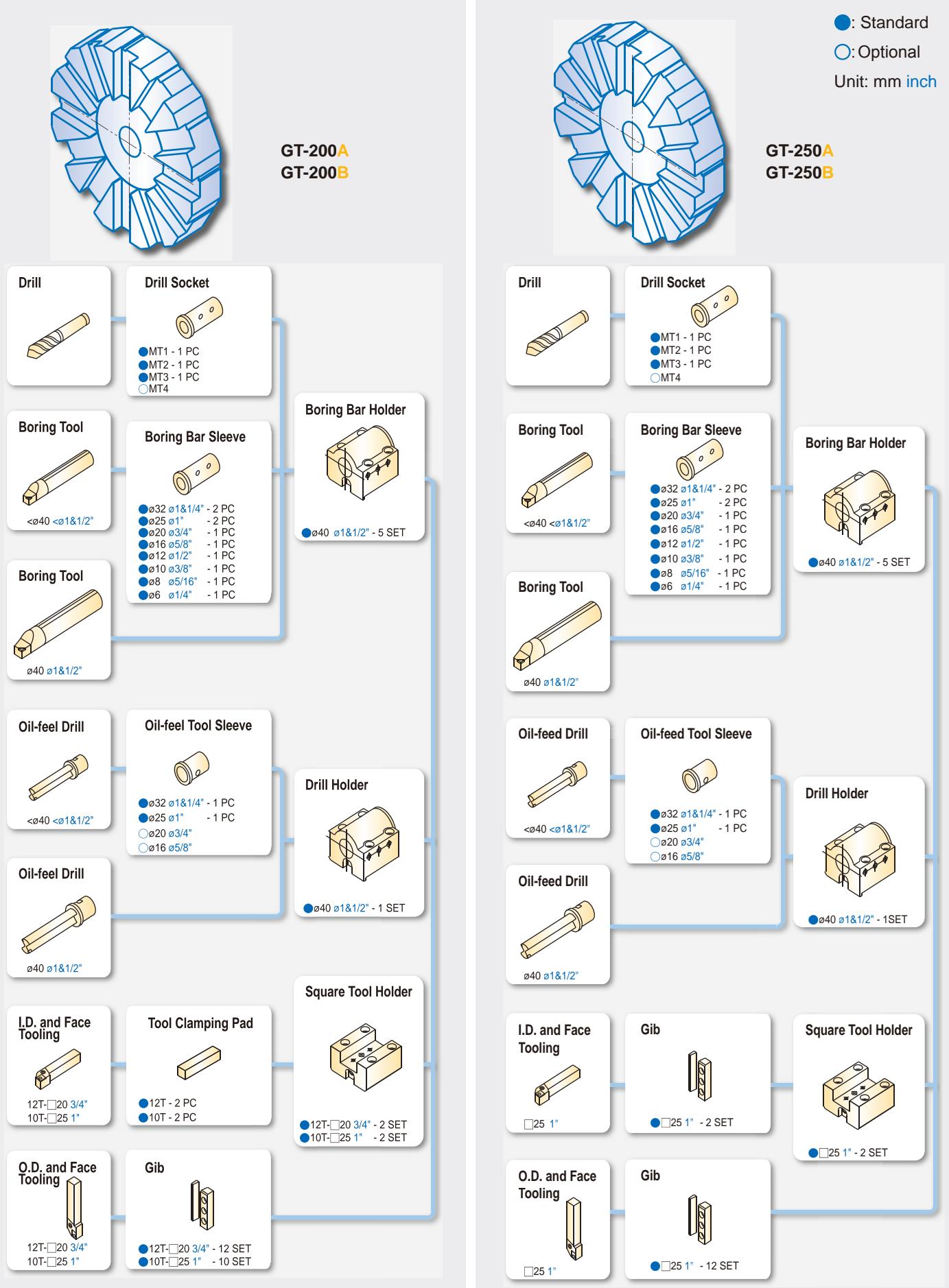
VDI Turret Machining Capacity

	Turning Tool Post	Milling Tool Post	Collet Type	Max. Milling Tool Shaft	Max. Drilling Tool Shaft	Max. Tapping Tool Shaft	End Milling Capacity	Rigid Tapping Capacity
GT-200MA	VDI 30 DIN 69880	VDI 30 DIN 69880 DIN 1809	ER25	Ø16 mm Ø0.63"	Ø14 mm Ø0.55"	M12 x 1.75P	Ø16 x 6 mm Ø0.63 x 0.24"	M6 x 1P
GT-250MA/MB GT-300MA/MB GT-300LMA/LMB	VDI 40 DIN 69880	VDI 40 DIN 69880 DIN 1809	ER32	Ø20 mm Ø0.79"	Ø20 mm Ø0.79"	M16 x 2P	Ø20 x 10 mm Ø0.79 x 0.39"	M6 x 1P

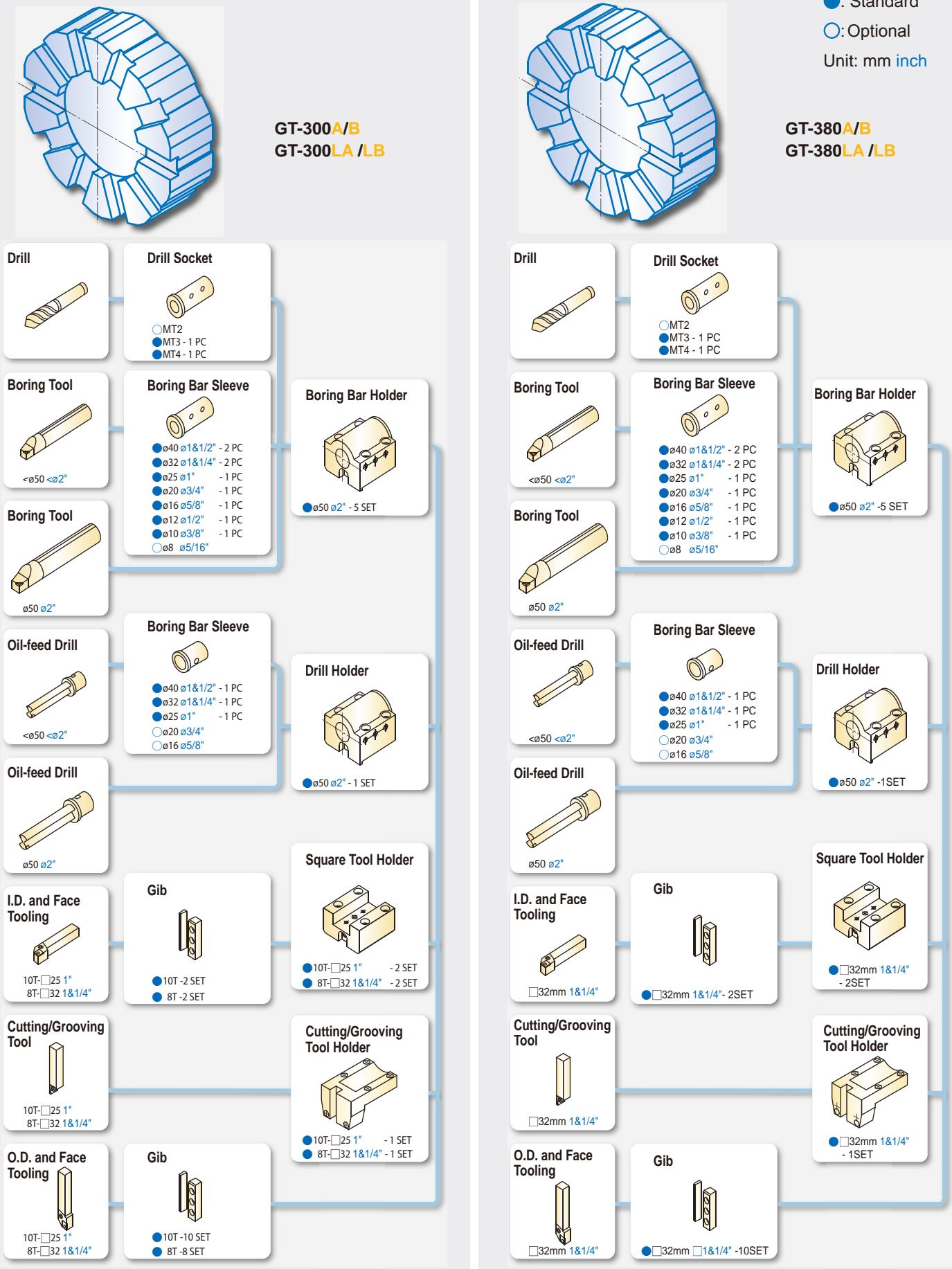
VDI Live Tool Motor Torque Chart



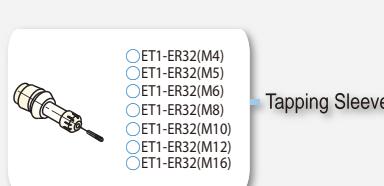
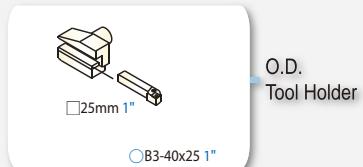
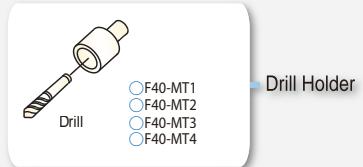
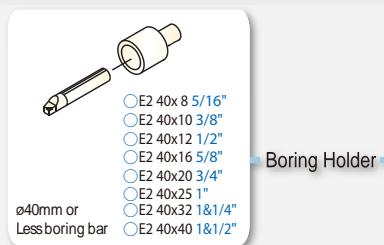
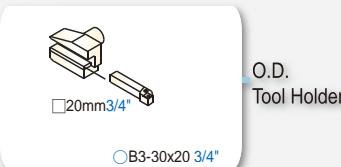
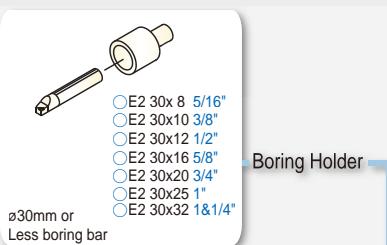
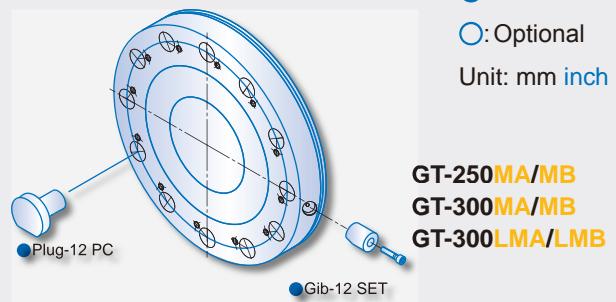
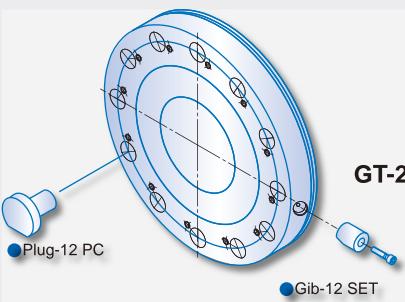
Tooling Chart



Tooling Chart



Tooling Chart



●: Standard

○: Optional

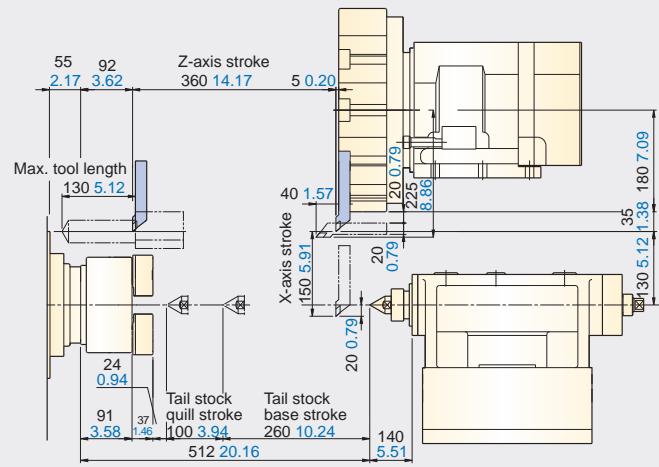
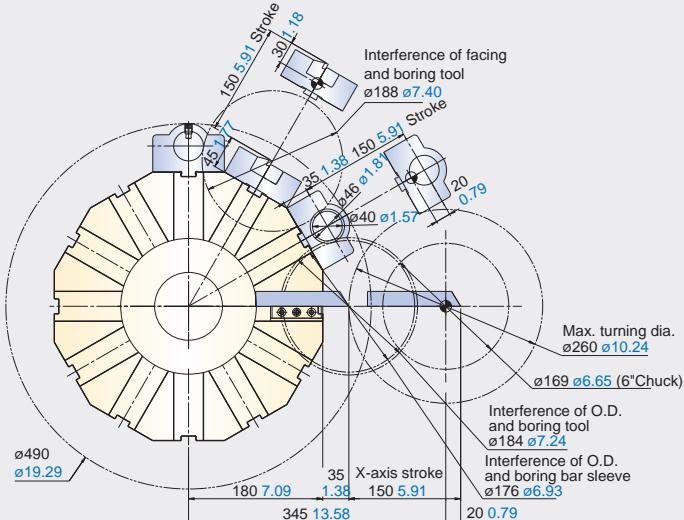
Unit: mm inch

Tool Interference & Working Capacity

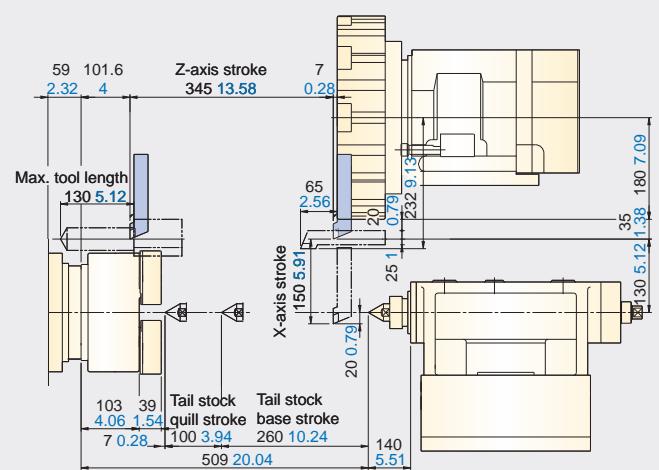
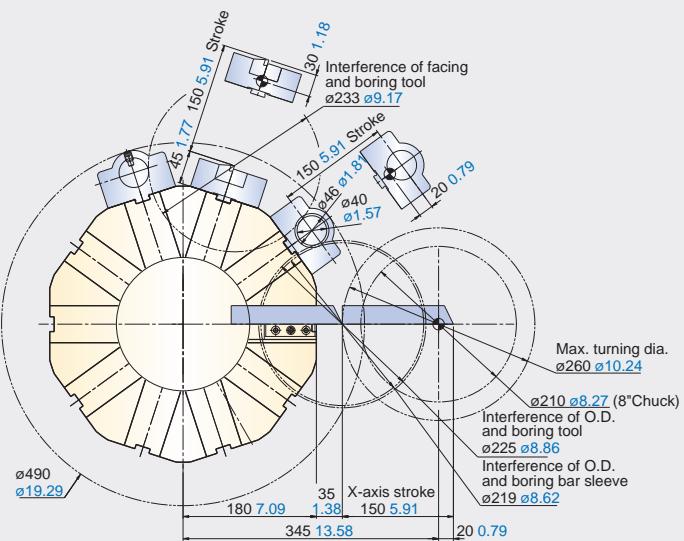
Unit: mm inch

● : Spindle Center

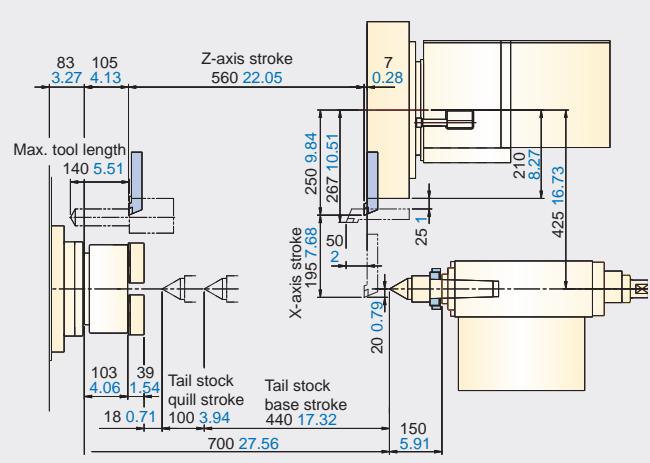
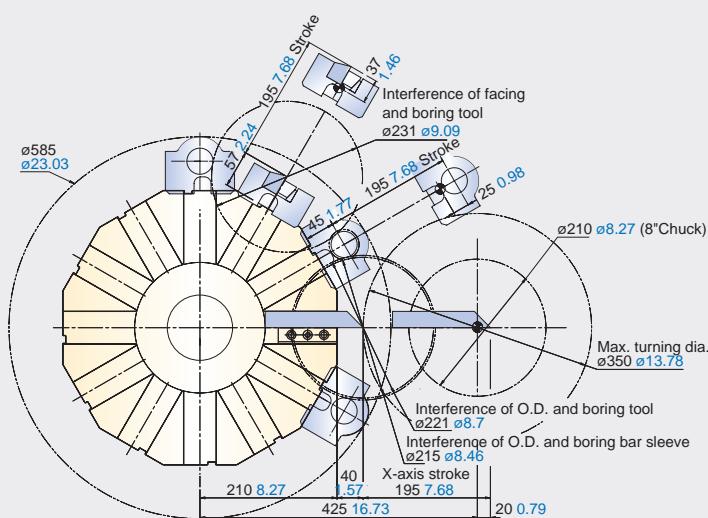
GT-200A 6"Chuck/12T



GT-200B 8"Chuck/10T



GT-250A 8"Chuck/12T

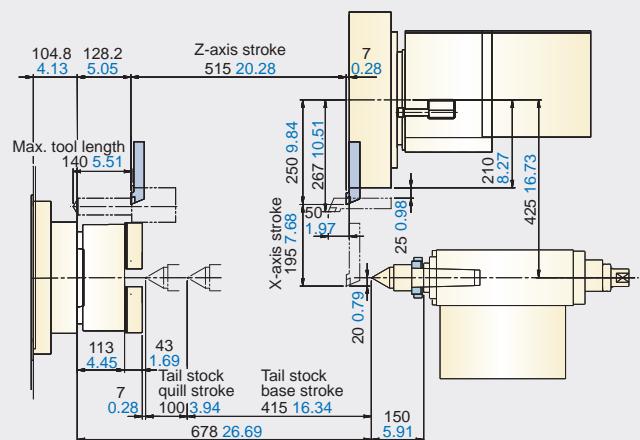
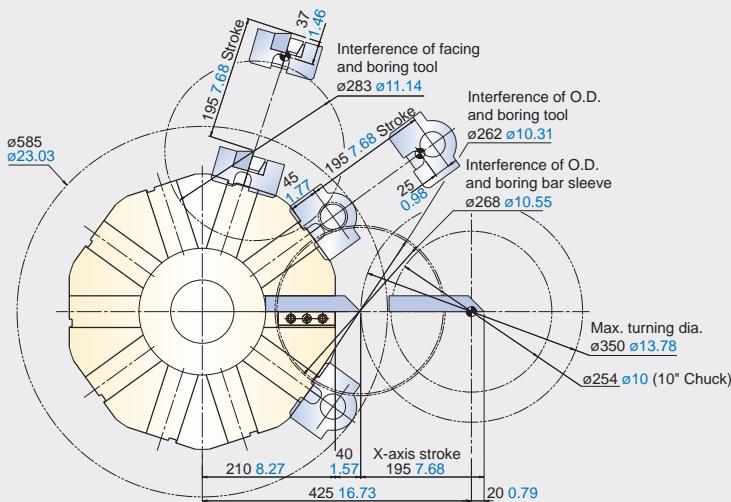


Tool Interference & Working Capacity

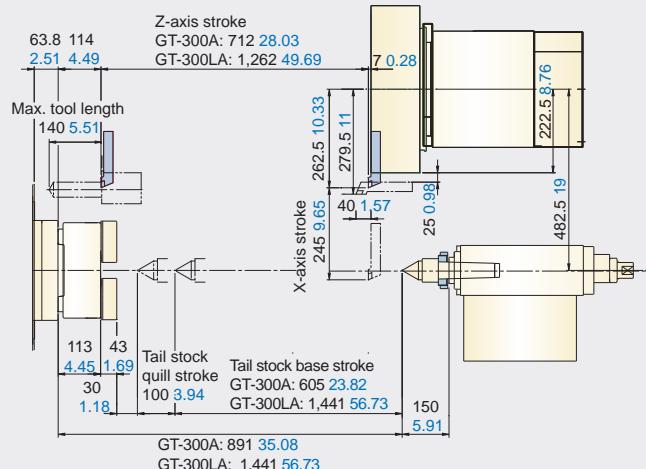
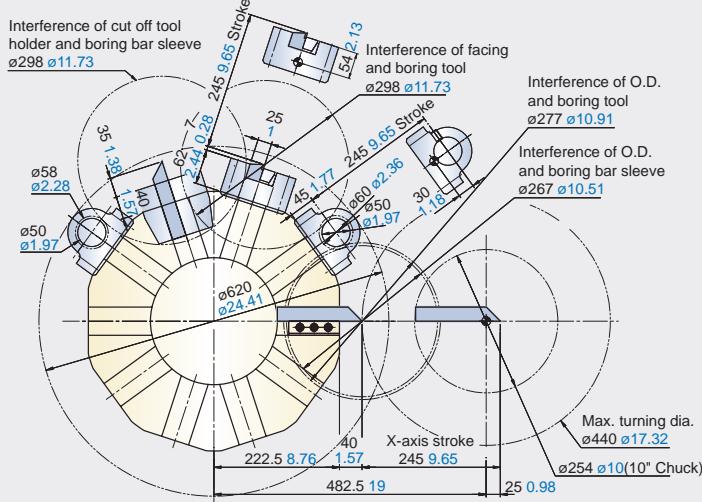
Unit: mm inch

●: Spindle Center

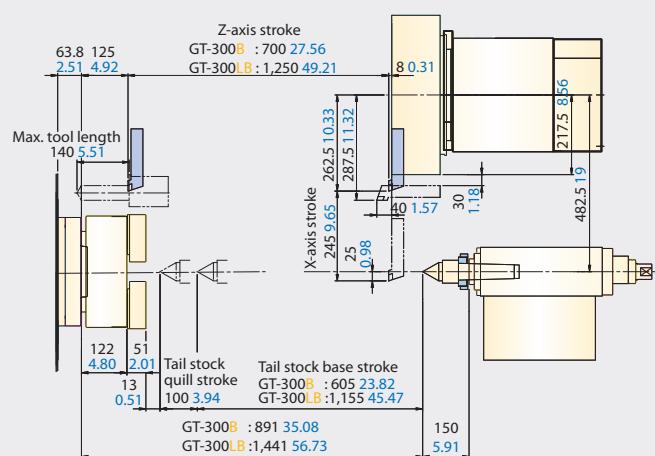
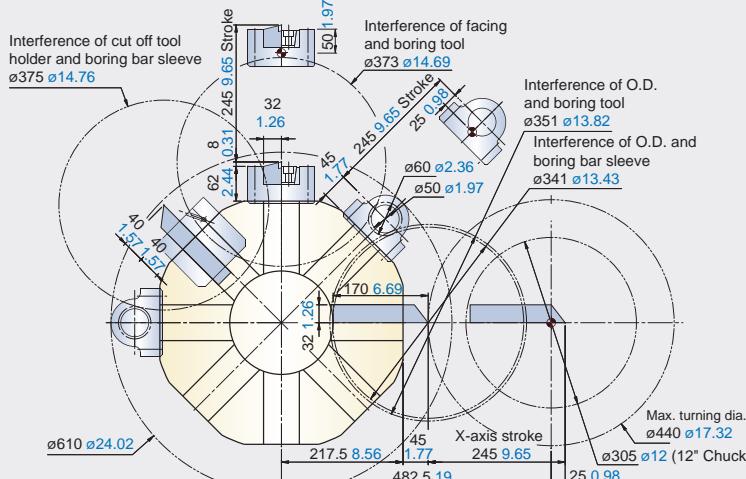
GT-250B 10"Chuck/10T



GT-300A/LA 10"Chuck/10T



GT-300B/LB 12"Chuck/8T

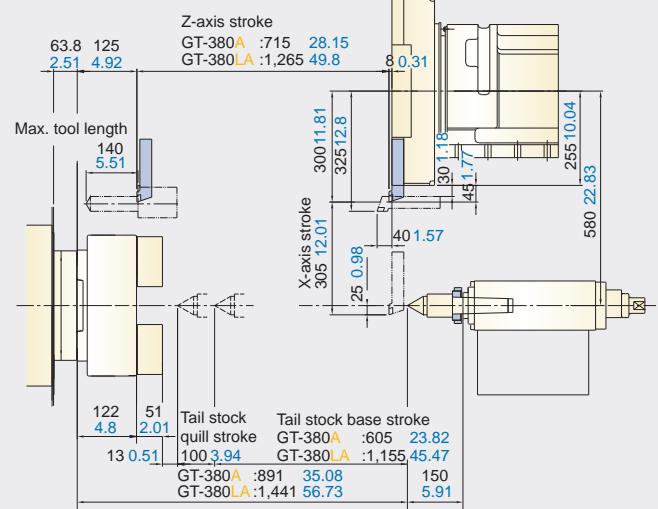
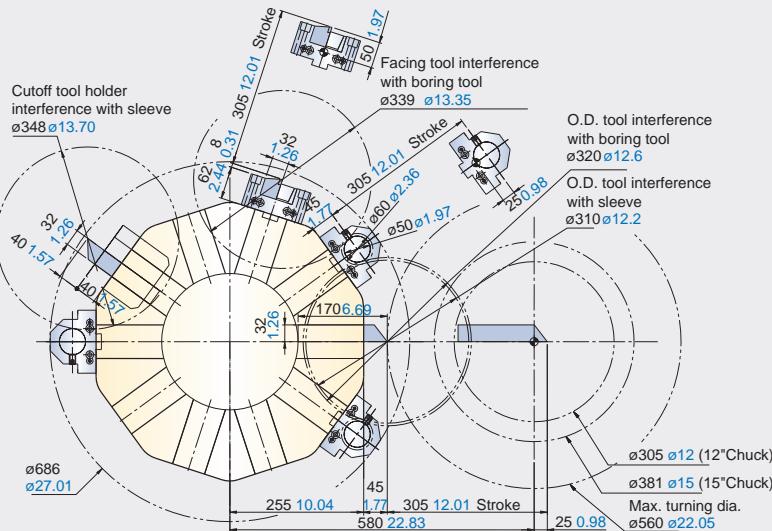


Tool Interference & Working Capacity

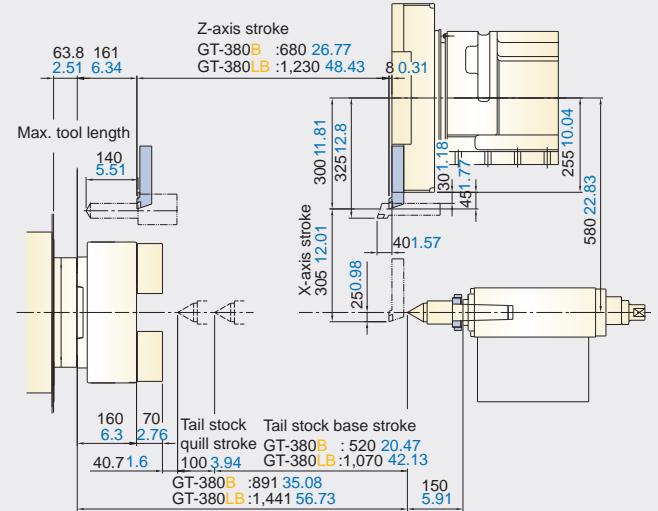
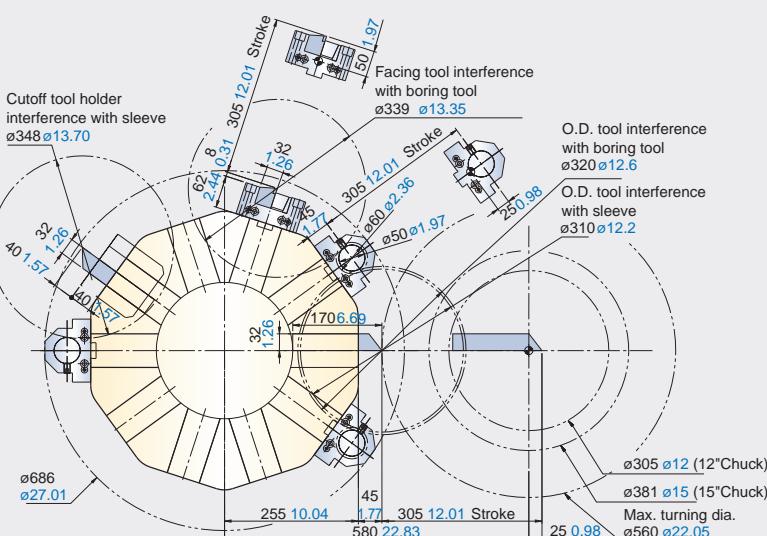
Unit: mm inch

● : Spindle Center

GT-380A/LA 12"Chuck/10T



GT-380B/LB 15"Chuck/10T



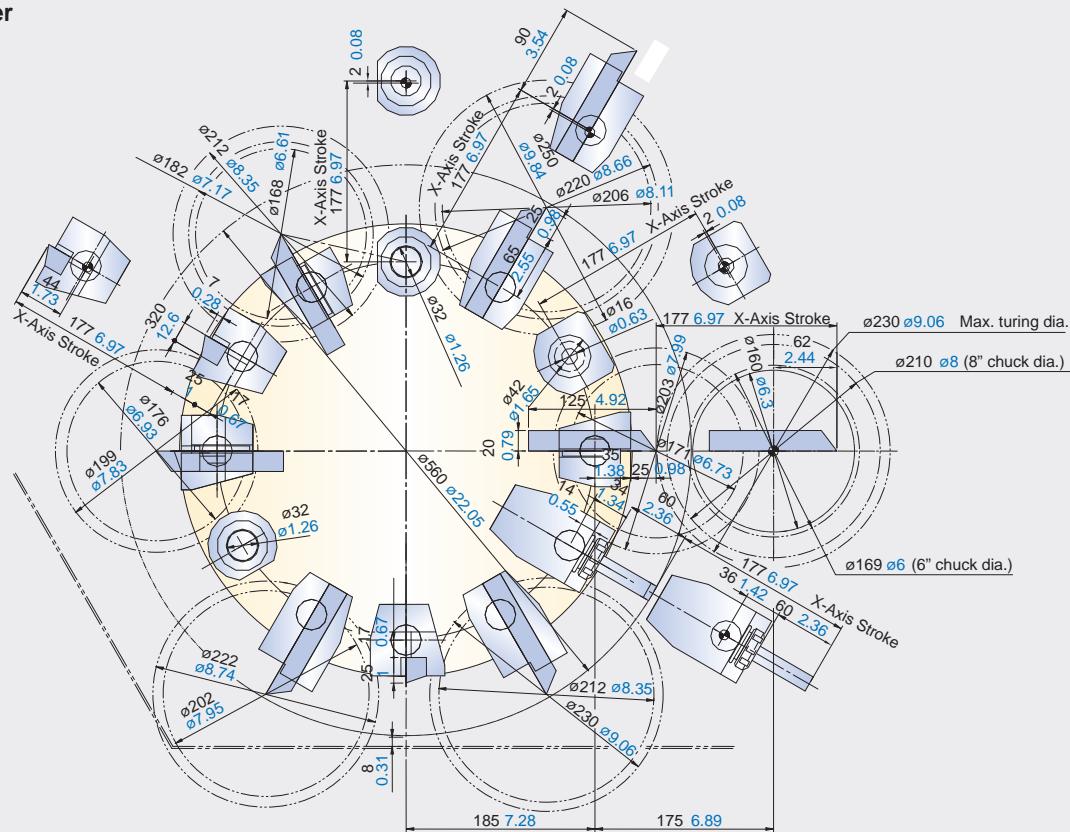
Tool Interference & Working Capacity

Unit: mm inch

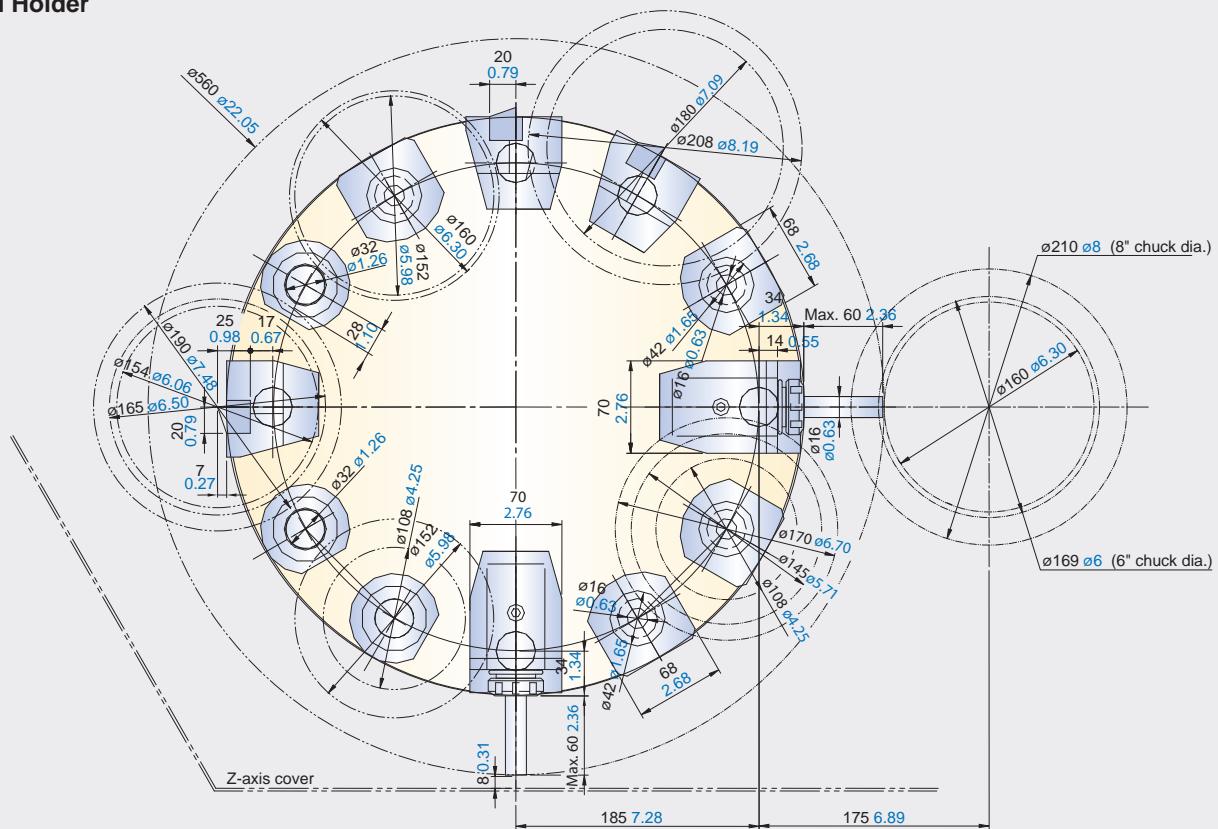
● : Spindle Center

GT-200MA 6"Chuck/12T

O.D. Tool Holder



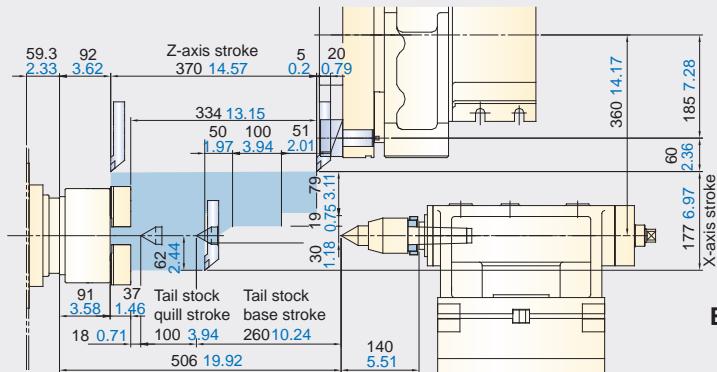
I.D. Tool Holder



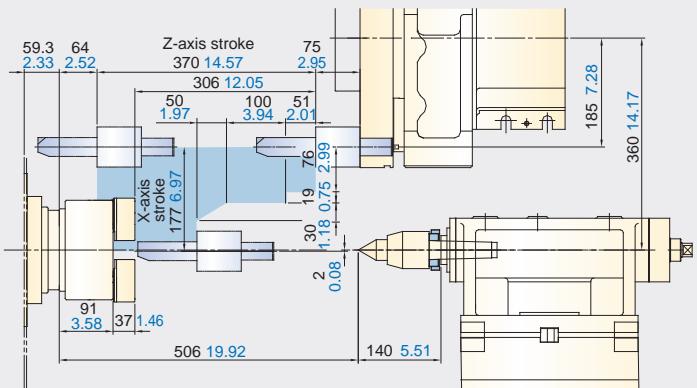
Tool Interference & Working Capacity

Unit: mm inch

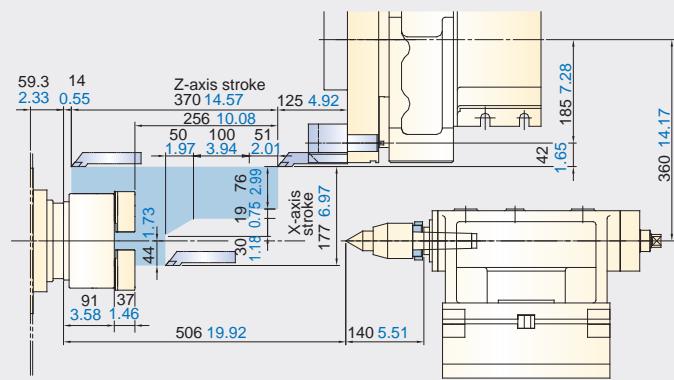
O.D. Turning Tool



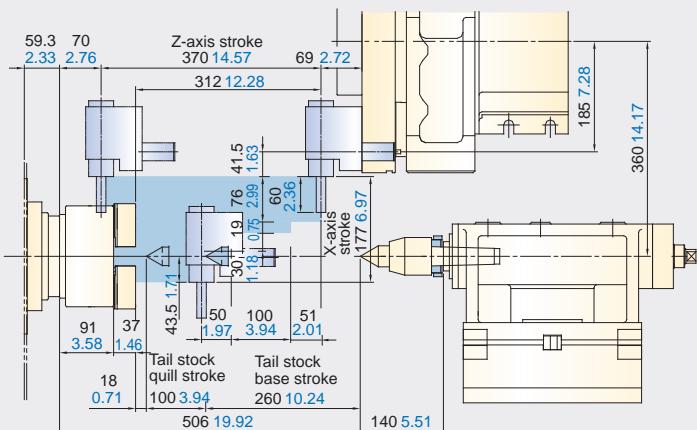
Boring Tool



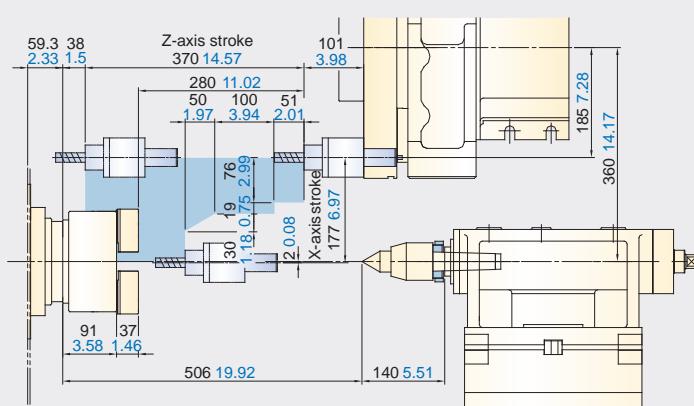
Face Tool



Radial Drive Tool



Axial Drive Tool



Tool Interference & Working Capacity

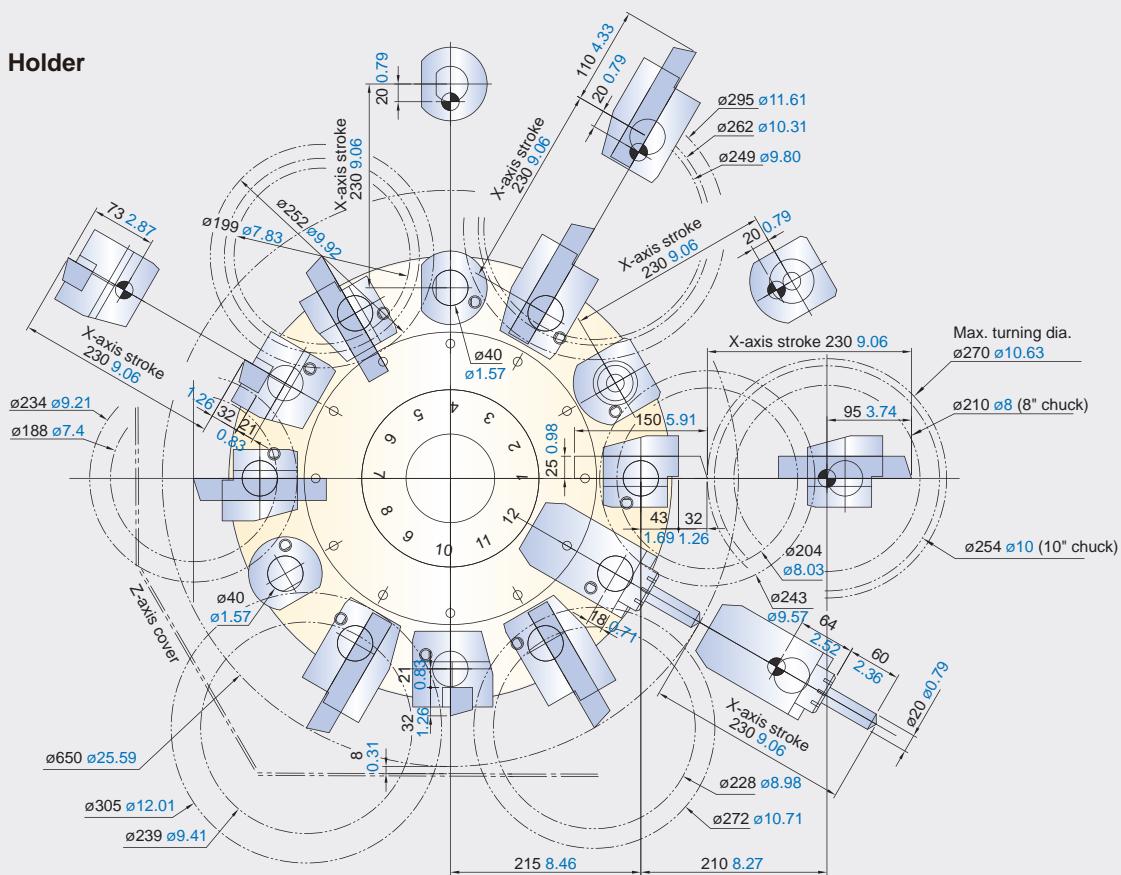
Unit: mm inch

●: Spindle Center

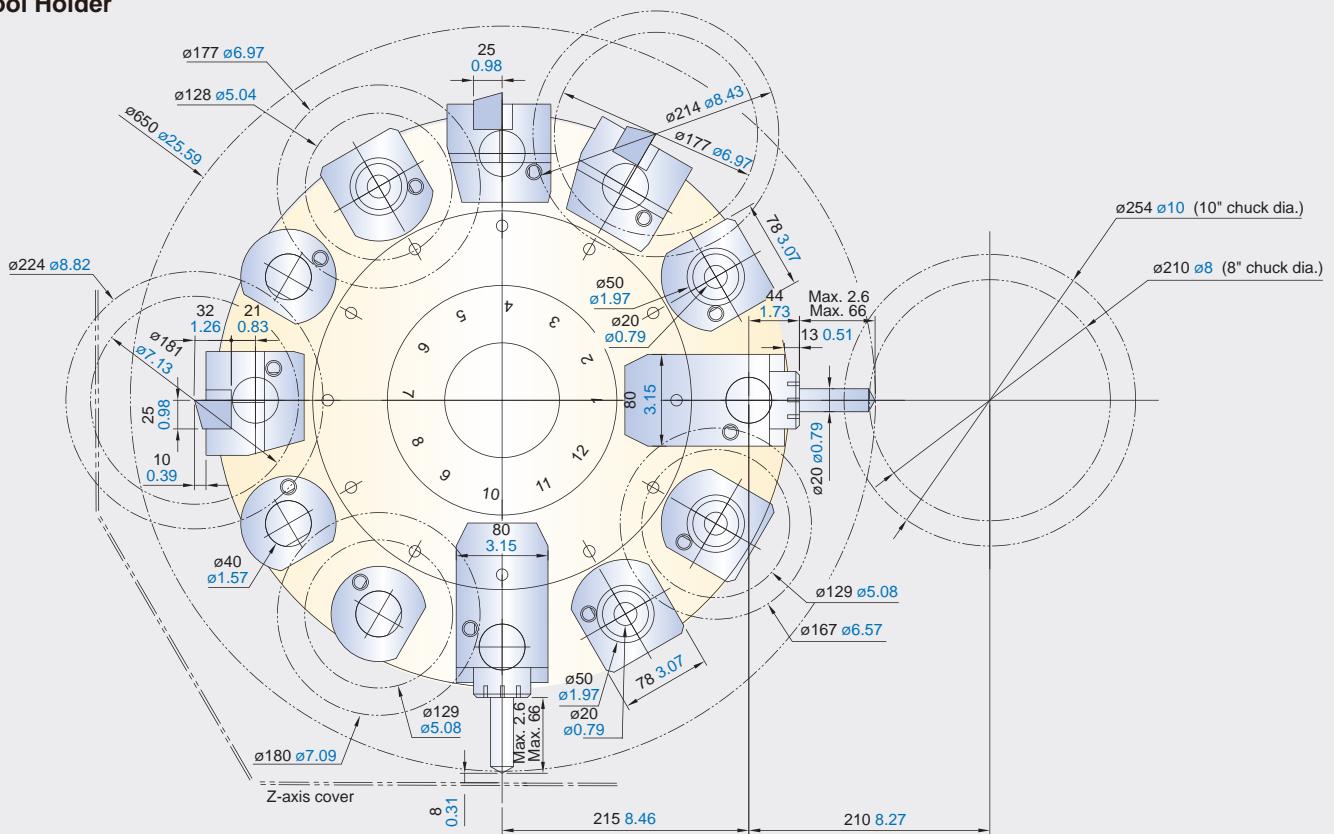
GT-250MA 8"Chuck/12T

GT-250MB 10"Chuck/12T

O.D. Tool Holder



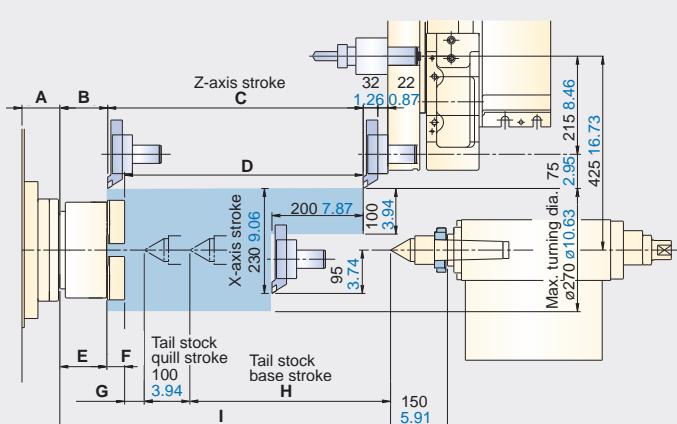
I.D. Tool Holder



Tool Interference & Working Capacity

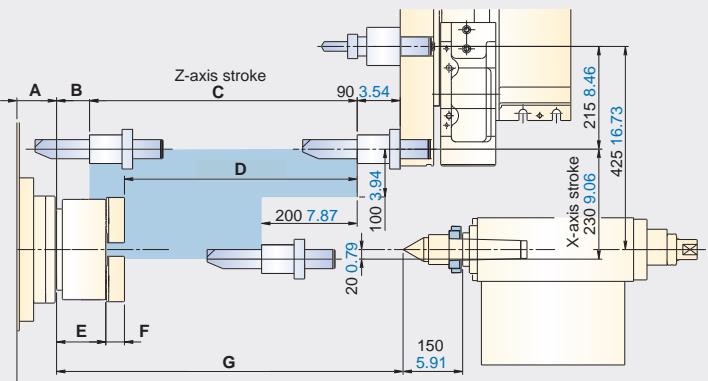
Unit: mm inch

O.D. Turning Tool



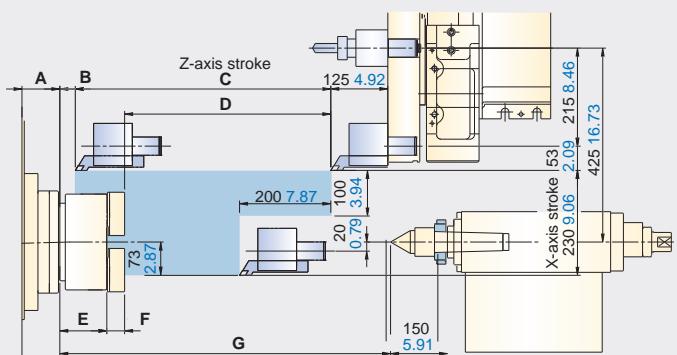
	A	B	C	D	E	F	G	H	I
GT-250MA	83 3.27"	105 4.13"	560 22.05"	523 20.59"	103 4.06"	39 1.54"	18 0.71"	440 17.32"	700 27.56"
GT-250MB	105 4.13"	114 4.49"	530 20.87"	488 19.21"	114 4.49"	43 1.69"	22 0.87"	400 15.75"	679 26.73"

Boring Tool



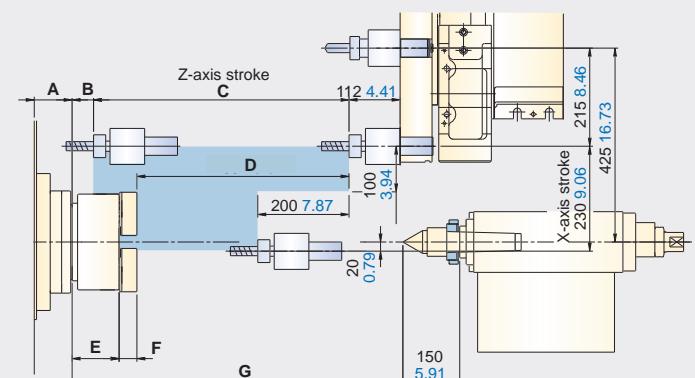
	A	B	C	D	E	F	G
GT-250MA	83 3.27"	69 2.72"	560 22.05"	487 19.17"	103 4.06"	39 1.54"	700 27.56"
GT-250MB	105 4.13"	78 3.07"	530 20.87"	452 17.8"	114 4.49"	43 1.69"	679 26.73"

Face Tool



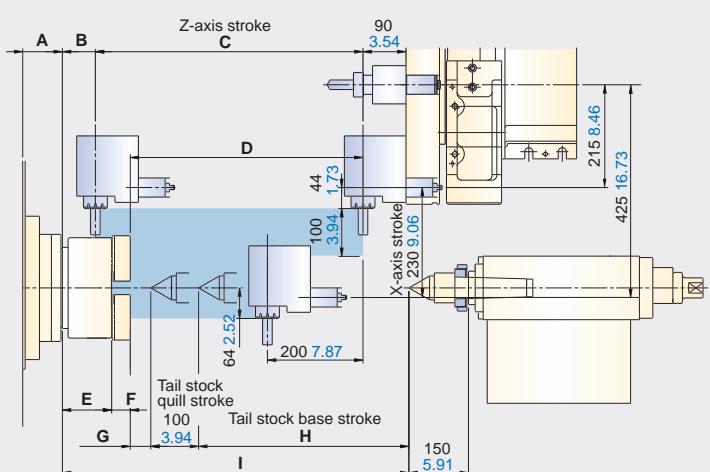
	A	B	C	D	E	F	G
GT-250MA	83 3.27"	34 1.34"	560 22.05"	452 17.8"	103 4.06"	39 1.54"	700 27.56"
GT-250MB	106 4.17"	42 1.65"	530 20.87"	417 16.42"	113 4.45"	43 1.69"	679 26.73"

Axial Drive Tool



	A	B	C	D	E	F	G
GT-250MA	83 3.27"	47 1.85"	560 22.05"	465 18.31"	103 4.06"	39 1.54"	700 27.56"
GT-250MB	105 4.13"	55 2.17"	530 20.87"	430 16.93"	113 4.45"	43 1.69"	678 26.69"

Radial Drive Tool



	A	B	C	D	E	F	G	H	I
GT-250MA	83 3.27"	69 2.72"	560 22.05"	487 19.17"	103 4.06"	39 1.54"	18 0.7"	440 17.32"	700 27.56"
GT-250MB	105 4.13"	77 3.03"	530 20.87"	452 17.8"	113 4.45"	43 1.69"	23 1.69"	400 15.75"	678 26.69"

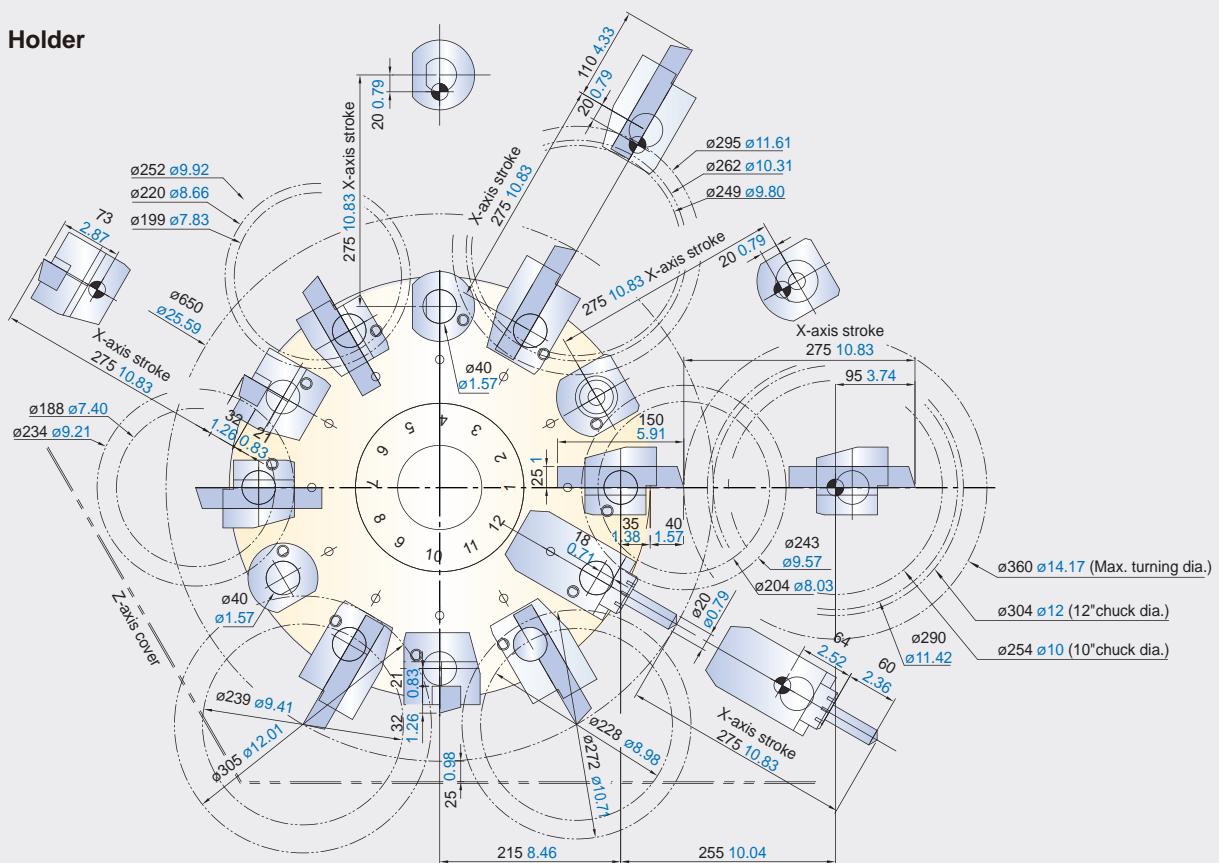
Tool Interference & Working Capacity

Unit: mm inch

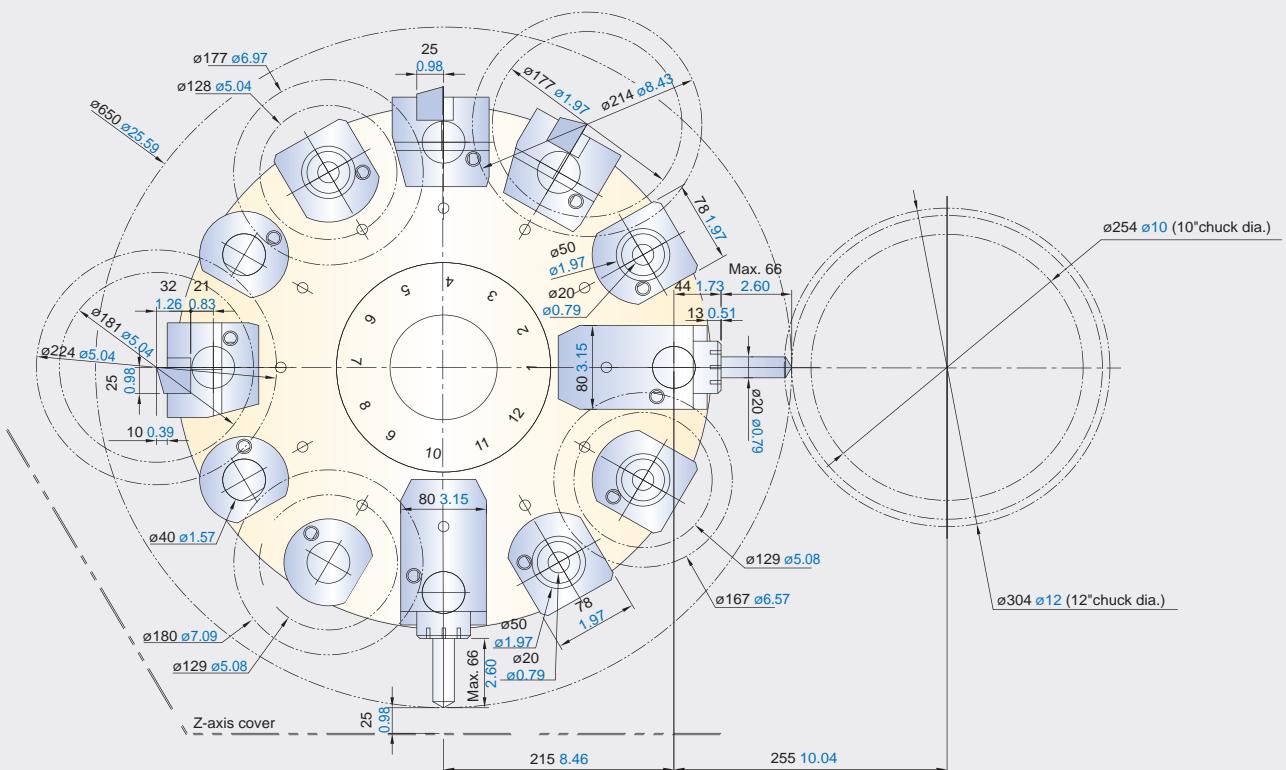
● : Spindle Center

GT-300MA/LMA 10"Chuck/12T
GT-300MB/LMB 12"Chuck/12T

O.D. Tool Holder



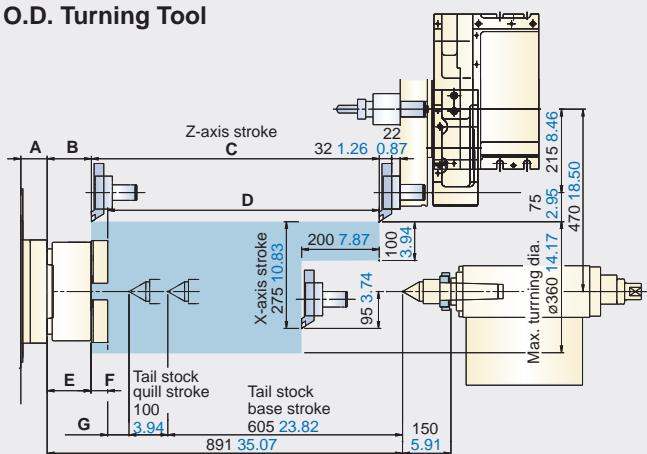
I.D. Tool Holder



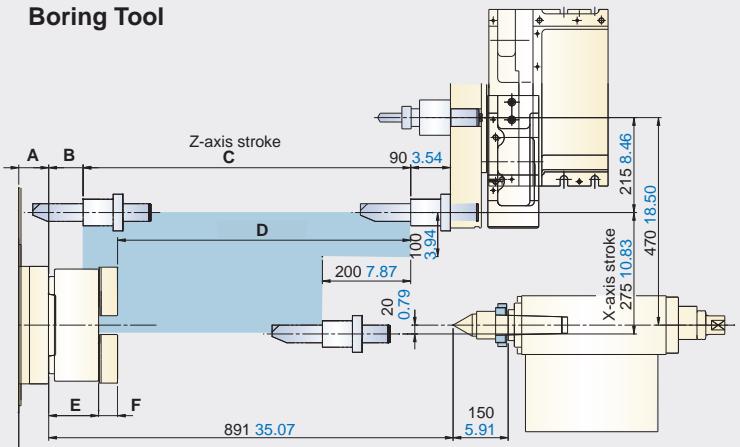
Tool Interference & Working Capacity

Unit: mm inch

O.D. Turning Tool



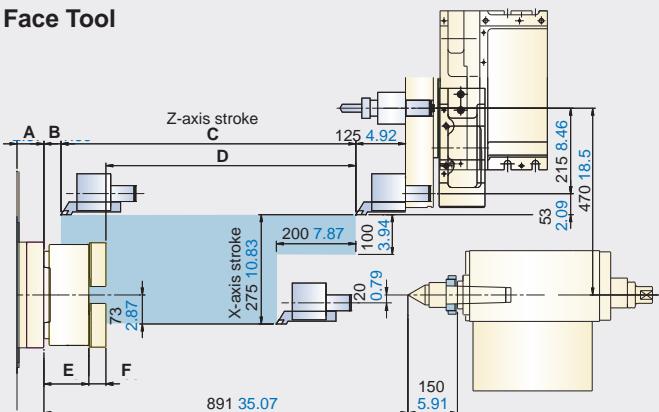
Boring Tool



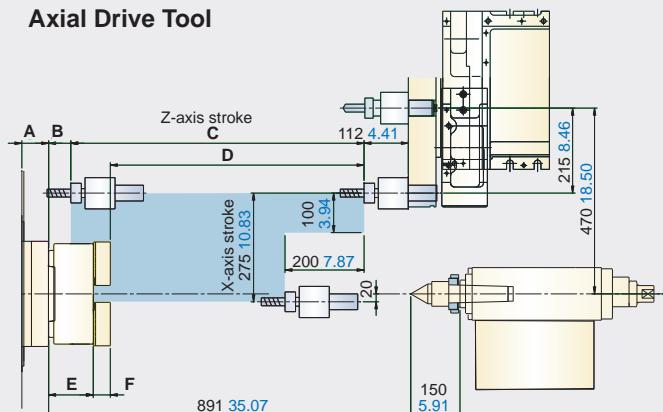
	A	B	C	D	E	F	G
GT-300MA	68 2.68"	114 4.49"	742 29.21"	700 27.56"	113 4.45"	43 1.69"	30 1.18"
GT-300LMA			1,292 50.87"	1,250 49.21"			
GT-300MB	63 2.48"	123 4.84"	733 28.86"	683 26.89"	122 4.8"	51 2.01"	13 0.51"
GT-300LMB			1,283 50.51"	1,233 48.54"			

	A	B	C	D	E	F
GT-300MA	68 2.68"	78 3.07"	742 29.21"	664 26.14"	113 4.45"	43 1.69"
GT-300LMA			1,292 50.87"	1,214 47.8"		
GT-300MB	63 2.48"	87 3.43"	733 28.86"	647 25.47"	122 4.8"	51 2.01"
GT-300LMB			1,283 50.51"	1,197 47.13"		

Face Tool



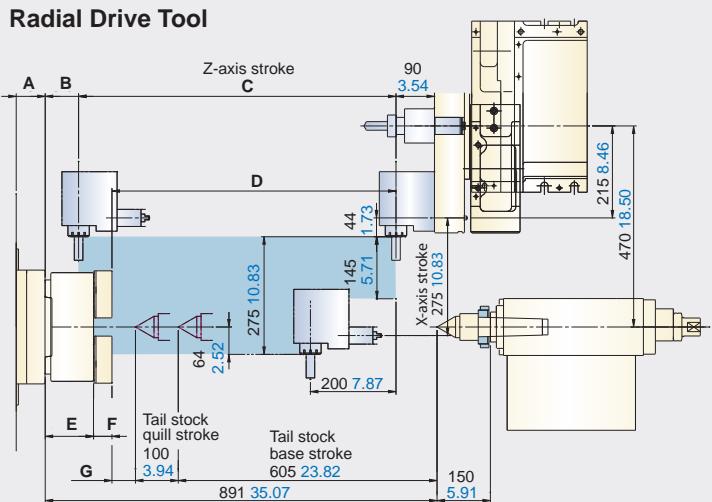
Axial Drive Tool



	A	B	C	D	E	F
GT-300MA	68 2.68"	43 1.69"	742 29.21"	629 24.76"	113 4.45"	43 1.69"
GT-300LMA			1,292 50.87"	1,179 46.42"		
GT-300MB	63 2.48"	52 2.05"	733 28.86"	612 24.09"	122 4.8"	51 2.01"
GT-300LMB			1,283 50.51"	1,162 45.75"		

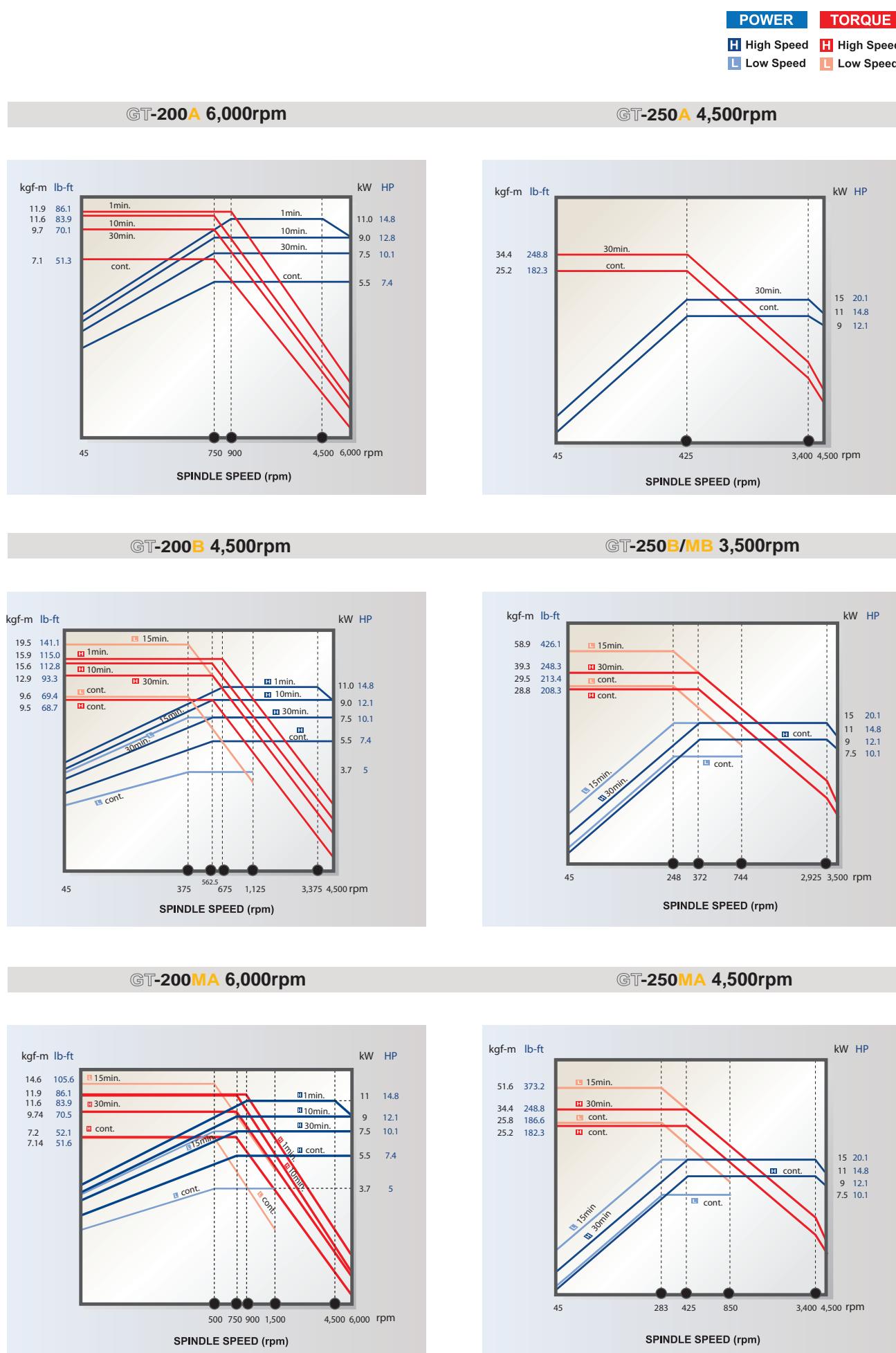
	A	B	C	D	E	F
GT-300MA	68 2.68"	56 2.2"	742 29.21"	642 25.28"	113 4.45"	43 1.69"
GT-300LMA			1,292 50.87"	1,192 46.93"		
GT-300MB	63 2.48"	65 2.56"	733 28.86"	625 24.61"	122 4.8"	51 2.01"
GT-300LMB			1,283 50.51"	1,175 46.26"		

Radial Drive Tool



	A	B	C	D	E	F	G
GT-300MA	68 2.68"	78 3.07"	742 29.21"	664 26.14"	113 4.45"	43 1.69"	30 1.18"
GT-300LMA			1,292 50.87"	1,214 47.8"			
GT-300MB	63 2.48"	87 3.43"	733 28.86"	647 25.47"	122 4.8"	51 2.01"	13 0.51"
GT-300LMB			1,283 50.51"	1,197 47.13"			

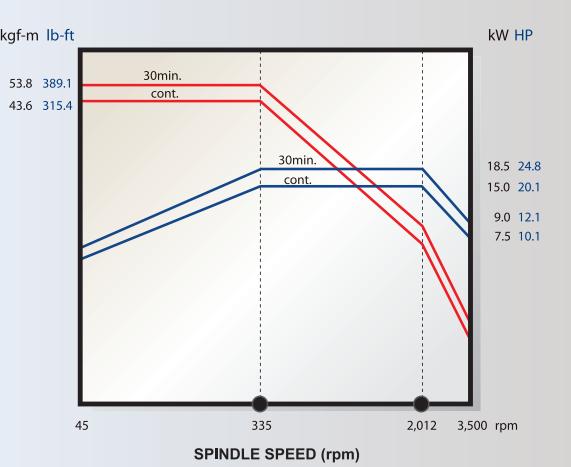
Spindle Motor Torque Chart



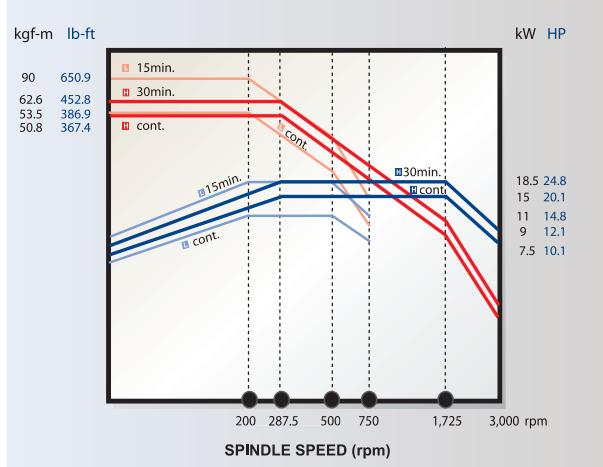
Spindle Motor Torque Chart

POWER		TORQUE	
H High Speed	H High Speed	L Low Speed	L Low Speed

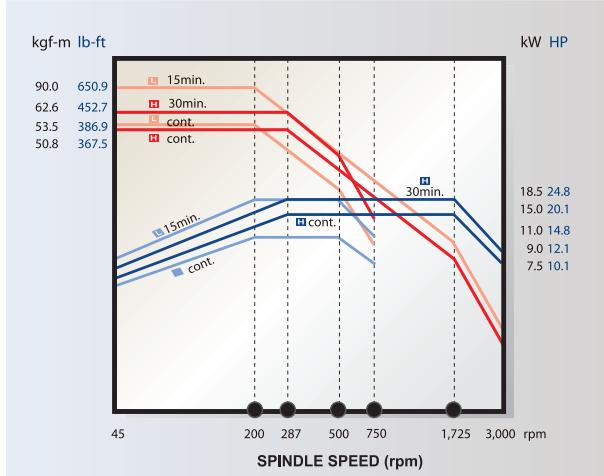
GT-300A/LA 3,500rpm



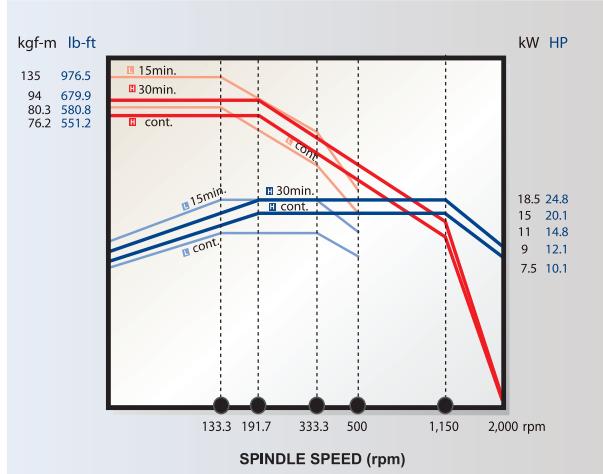
GT-380A/LA 3,000rpm



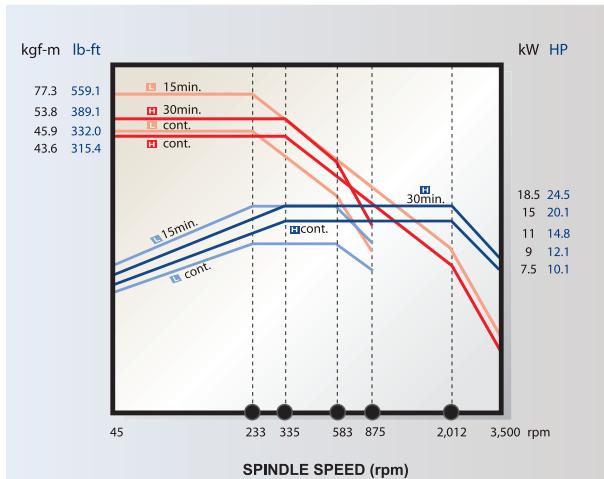
GT-300B/LB/MB/LMB 3,000rpm



GT-380B/LB 2,000rpm



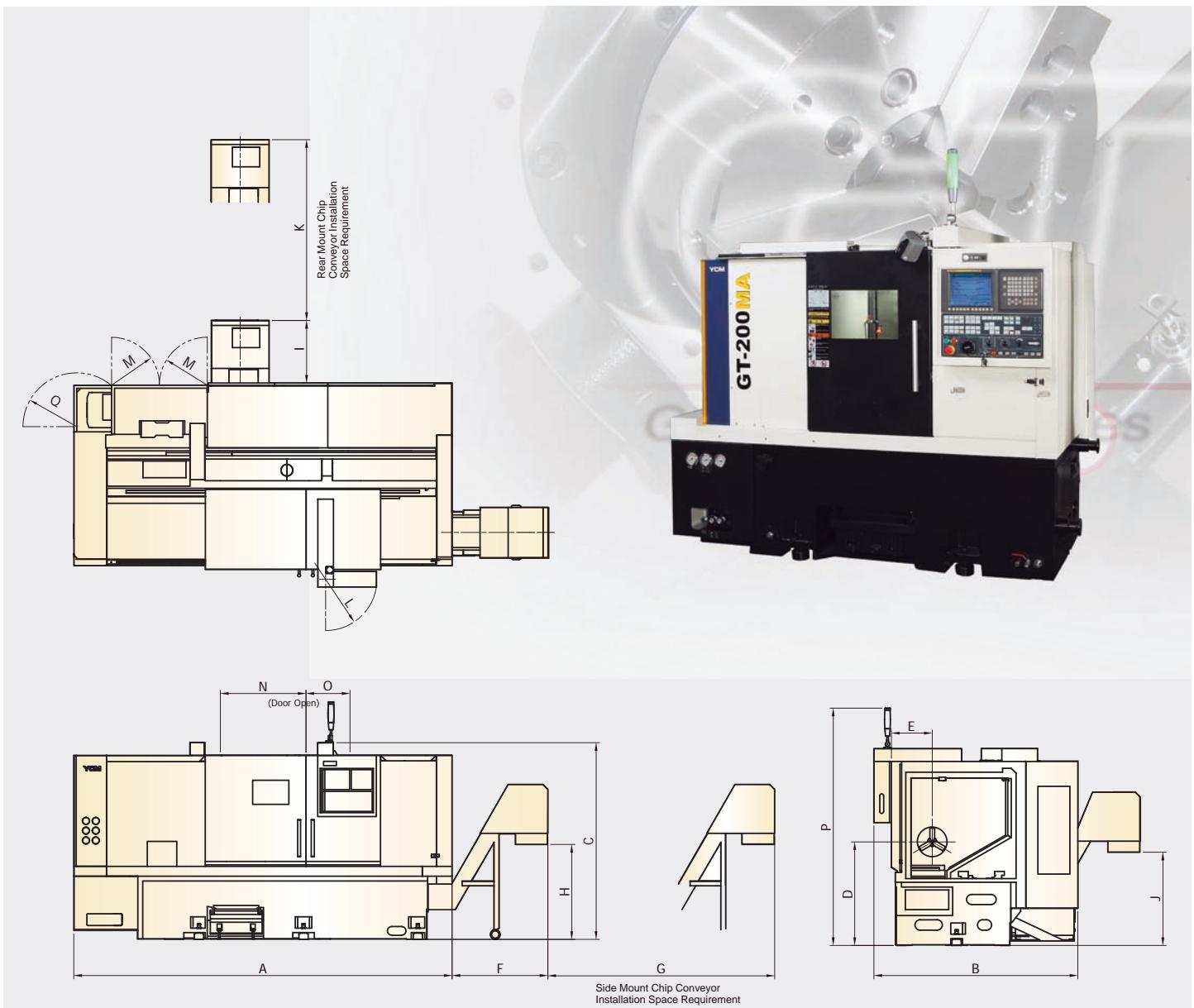
GT-300MA/LMA 3,500rpm



Machine Dimensions

► GT-200A/B/MA , GT-250A/B/MA/MB , GT-300LMA/LMB

Unit: mm inch



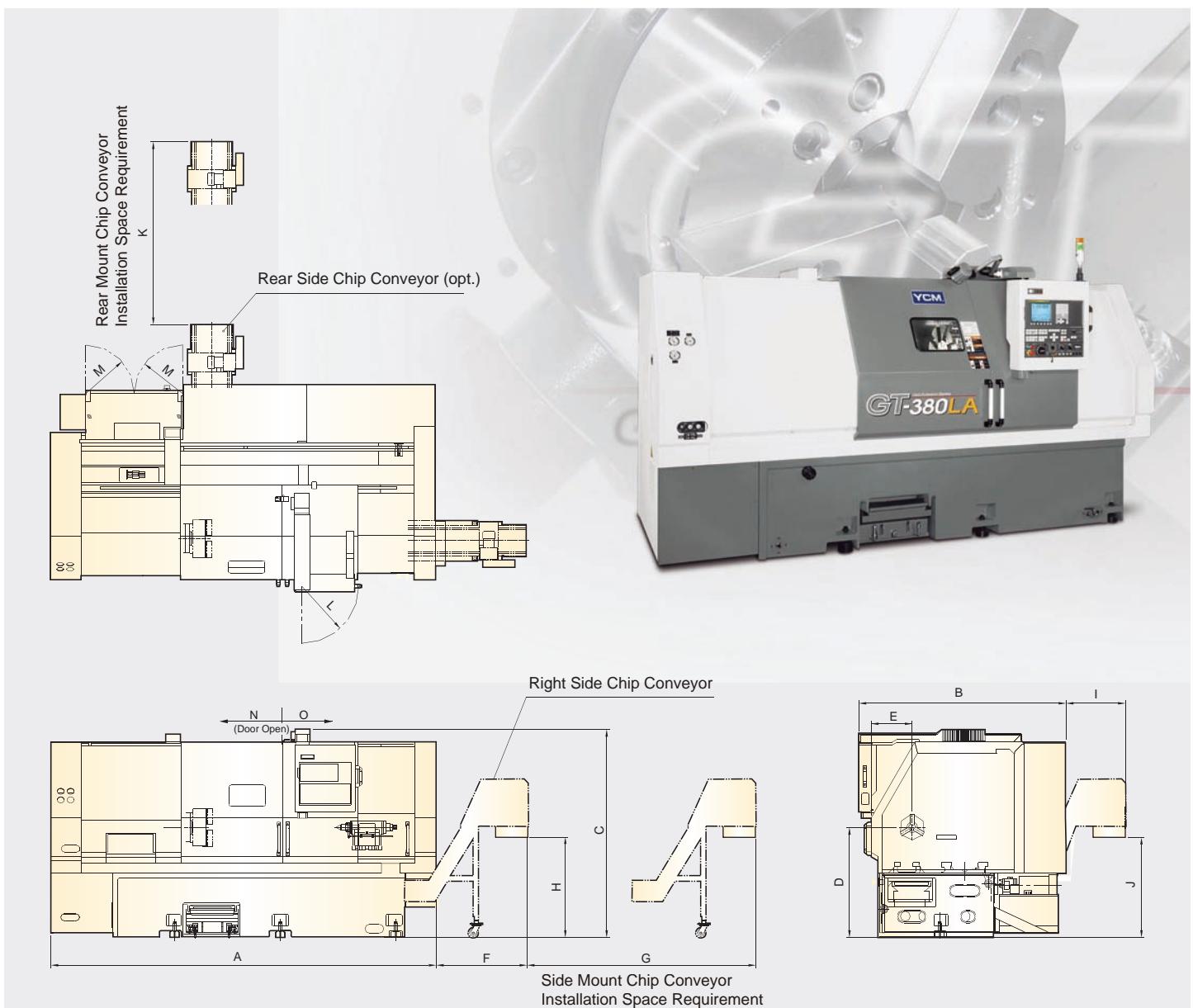
Reference Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
GT-200A/B/MA	2,215 87.2"	1,805 71.06"	1,835 72.24"	1,020 40.16"	333 13.11"	1,060 41.73"	1,350 53.15"	974 38.35"	610 24.02"	954 37.56"	1,630 64.17"	540 21.26"	410 16.14"	580 22.83"	-	2,250 88.58"	-
GT-250A/MA	2,680 105.51"			1,060	375	1,030	1,630	980	650	960	1,150	530	490	760	-	2,300 90.55"	550 21.65"
GT-250B/MB	2,750 108.27"		1,885 74.21"	1,885 74.21"	41.73"	14.76"	40.55"	64.17"	38.58"	25.59"	37.8"						
GT-300LMA/LMB	3,870 121.54"	2,086 82.13"	2,015 79.33"	1,060 41.73"	416 16.38"	980 38.58"	2,320 91.34"	975 38.39"	640 25.2"	975 38.39"	1,850 72.83"	526 20.71"	490 19.29"	875 34.45"	450 17.72"	2,427 95.55"	-

Due to the design variation, dimensional drawings shown here are for references only.

Note: This is aesthetic sheet metal.

► GT-300A/B/MA/MB/LA/LB , GT-380A/B/LA/LB

Unit: mm inch



Reference Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
GT-300A/B/MA	3,230 127.17"		2,042 80.39"			1,200 47.24"	1,950 76.77"		646 25.43"	959 37.76"					-
GT-300MB	3,255 128.15"		2,015 79.33"	1,060 41.73"											
GT-300LA/LB	3,845 151.38"	2,047 80.59"			416 16.38"	980 38.58"	2,320 91.34"	975 38.39"	640 25.2"	975 38.39"	1,850 72.83"	575 22.64"	490 19.29"	855 33.66"	460 18.11"
GT-380A/B	3,280 129.13"		2,115 83.27"	1,115 43.9"		1,150 45.28"	1,950 76.77"		646 25.43"	959 37.76"					-
GT-380LA/LB	3,905 153.74"	2,100 82.68"	2,015 79.33"			920 36.22"	2,320 91.34"		602 23.7"	975 38.39"					460 18.11"

Due to the design variation, dimensional drawings shown here are for references only.

Note: This is non-aesthetic sheet metal; it will be replaced with aesthetic design in the near future. Dimensions will be modified due to aesthetic design of sheet metal. 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.

GT Series Specifications

The mark* stands for VDI30 type.

ITEMS	GT-200A	GT-200MA	GT-200B
MACHINING CAPACITY			
Swing Over Bed	ø500 mm ø19.69"		
Swing Over Carriage	ø330 mm ø12.99"		
Max. Turning Diameter	ø260 mm (ø200mm*) ø10.24" (ø7.87" *)	ø230 mm ø9.06"	ø260 mm (ø200mm*) ø10.24" (ø7.87" *)
Max. Turning Length	360 mm (340mm*) 14.17"(13.39" *)	370 mm 14.57"	345 mm (325mm*) 13.58"(12.8" *)
Distance Between Center	512 mm 20.16"	506 mm 19.92"	509 mm 20.04"
SPINDLE			
Height Between Spindle Center and Ground	990 mm 38.98"	1,020 mm 40.16"	990 mm 38.98"
Chuck Diameter	6" Chuck		
Spindle Nose	A2-5		
Front Bearing Diameter	ø90 mm ø3.54"		
Hole Through Spindle	ø56 mm ø2.2"		
Hole Through Draw Tube	ø45 mm ø1.77"		
Spindle Speed	6,000 rpm		
Max. Spindle torque	11.9 kgf-m 86.07 lb-ft	14.61 kgf-m 105.68 lb-ft	19.5 kgf-m 141.05 lb-ft
C-axis Index Accuracy	—	0.001°	—
MAIN TRAVEL			
X-axis Travel	150 mm (170mm*) 5.91" (6.69" *)	177 mm 6.97"	150 mm (170mm*) 5.91" (6.69" *)
Z-axis Travel	360 mm (340mm*) 14.17" (13.39" *)	370 mm 14.57"	345 mm (325mm*) 13.58" (12.8" *)
FEEDRATE			
Rapid Feedrate (X/Z)	24 / 30 m/min. 945 / 1,181 ipm		
Cutting Feedrate	1~10,000 mm/min. 0.04~394 ipm		
MOTOR			
Spindle Motor	5.5 / 7.5 / 9 / 11 kW 7 / 10 / 12 / 15 HP	(L) 3.7 / 7.5 (H) 5.5 / 7.5 / 9 / 11 kW (L) 5 / 10 (H) 7 / 10 / 12 / 15 HP	
Turret Motor	1.2 kW 1.6 HP	0.75 kW 1.01 HP	1.2 kW 1.6 HP
VDI Live Tool Motor	—	3.7 kW 4.96 HP	—
TURRET			
Type of Index	Servo Hydraulic Control (Hydraulic Clamp)		
Turret Tool Magazine Capacity	Std. Tool	12T (10T)	—
	VDI	12T*	12T
Shank Height for Square Tool		□20 mm □3/4"	□25 mm □1"
Shank Diameter for Boring Bar		ø40 mm ø1&1/2"	ø40 mm ø1&1/2"
Swing Over Turret		ø490 mm (550mm*) ø19.29" (21.65" *)	ø560 mm ø22.05"
VDI Live Tool Speed		—	4,500 rpm
Torque of Milling Tool Motor		—	2.4 kgf-m 17.36 lb-ft
TAILSTOCK			
Tailstock Quill Taper- Stationary Center (std.)	MT-4		
Tailstock Quill Taper- Live Center (opt.)	—		
Tailstock Quill Diameter	ø75 mm ø2.95"		
Tailstock Quill Stroke	100 mm 3.94"		
Tailstock Stroke	260 mm 10.24"		
GENERAL			
Power Consumption (Transformer)	20.45 kVA (25 kVA)	24.92kVA (30kVA)	20.45 kVA (25 kVA)
Machine Weight	4,210 kg 9,281 lb	4,260 kg 9,392 lb	4,210 kg 9,281 lb

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.

GT Series Specifications

The mark^{*1} stands for VDI40 type.
The mark^{*2} stands for big bore type.

ITEMS	GT-250A	GT-250MA	GT-250B	GT-250MB		
MACHINING CAPACITY						
Swing Over Bed	$\varnothing 550$ mm $\varnothing 21.65"$					
Swing Over Carriage	$\varnothing 420$ mm $\varnothing 16.54"$					
Max. Turning Diameter	$\varnothing 350$ mm ($\varnothing 270$ mm ^{*1}) $\varnothing 13.78"$ ($\varnothing 10.63"$ * ¹)	$\varnothing 270$ mm $\varnothing 10.63"$	$\varnothing 350$ mm ($\varnothing 270$ mm ^{*1}) $\varnothing 13.78"$ ($\varnothing 10.63"$ * ¹)	$\varnothing 270$ mm $\varnothing 10.63"$		
Max. Turning Length	560 mm $22.05"$		515 mm (530mm ^{*1}) $20.28"$ ($20.87"$ * ¹)	530 mm $20.87"$		
Distance Between Center	700 mm $27.56"$		678 mm (679mm ^{*1}) $26.69"$ ($26.73"$ * ¹)	679 mm $26.73"$		
SPINDLE						
Height Between Spindle Center and Ground	1,060 mm $41.73"$					
Chuck Diameter	8" Chuck		10" Chuck			
Spindle Nose	A2-6					
Front Bearing Diameter	$\varnothing 110$ mm $\varnothing 4.33"$					
Hole Through Spindle	$\varnothing 62$ mm ($\varnothing 77$ mm ^{*2}) $\varnothing 2.44"$ ($\varnothing 3.03"$ * ²)					
Hole Through Draw Tube	$\varnothing 52$ mm ($\varnothing 66$ mm ^{*2}) $\varnothing 2.05"$ ($\varnothing 2.6"$ * ²)					
Spindle Speed	4,500 rpm					
Max. Spindle torque	34.4 kgf-m 248.82 lb-ft	51.6 kgf-m 373.23 lb-ft	58.9 kgf-m 426.03 lb-ft			
C-axis Index Accuracy	-	0.001°	-	0.001°		
MAIN TRAVEL						
X-axis Travel	195 mm (230 mm ^{*1}) $7.68"$ ($9.06"$ * ¹)	230 mm $9.06"$	195 mm (230 mm ^{*1}) $7.68"$ ($9.06"$ * ¹)	230 mm $9.06"$		
Z-axis Travel	560 mm $22.05"$		515 mm (530 mm ^{*1}) $20.28"$ ($20.87"$ * ¹)	530 mm $20.87"$		
FEEDRATE						
Rapid Feedrate (X/Z)	20 / 24 m/min. 787 / 945 ipm					
Cutting Feedrate	1~10,000 mm/min. 0.04 ~ 394 ipm					
MOTOR						
Spindle Motor	11 / 15 kW 15 / 20 HP	(L) 7.5 / 15 (H) 11 / 15 kW (L) 10 / 20 (H) 15 / 20 HP				
Turret Motor	1.2 kW 1.6 HP					
VDI Live Tool Motor	-	5.5 kW 7.38 HP	-	5.5 kW 7.38 HP		
TURRET						
Type of Index	Servo Hydraulic Control (Hydraulic Clamp)					
Turret Tool Magazine Capacity	Std. Tool	12T(10T)	-	10T(12T)		
	VDI	12T* ¹	12T	12T* ¹		
Shank Height for Square Tool	$\square 25$ mm $\square 1"$					
Shank Diameter for Boring Bar	$\varnothing 40$ mm $\varnothing 1\frac{1}{2}"$					
Swing Over Turret	$\varnothing 585$ mm ($\varnothing 650$ mm ^{*1}) $\varnothing 23.03"$ ($\varnothing 25.59"$ * ¹)	$\varnothing 650$ mm $\varnothing 25.59"$	$\varnothing 585$ mm ($\varnothing 650$ mm ^{*1}) $\varnothing 23.03"$ ($\varnothing 25.59"$ * ¹)	$\varnothing 650$ mm $\varnothing 25.59"$		
VDI Live Tool Speed	-	3,000 rpm	-	3,000 rpm		
Torque of Milling Tool Motor	-	3.57 kgf-m 25.8 lb-ft	-	3.57 kgf-m 25.8 lb-ft		
TAILSTOCK						
Tailstock Quill Taper- Stationary Center (std.)	MT-5					
Tailstock Quill Taper- Live Center (opt.)	MT-4					
Tailstock Quill Diameter	$\varnothing 100$ mm $\varnothing 3.94"$					
Tailstock Quill Stroke	100 mm $3.94"$					
Tailstock Stroke	440 mm $17.32"$	415 mm (400 mm ^{*1}) $16.34"$ ($15.75"$ * ¹)	400 mm $15.75"$			
GENERAL						
Power Consumption (Transformer)	27.9 kVA (30 kVA)	33.9 kVA (40 kVA)	27.9 kVA (30 kVA)	33.9 kVA (40 kVA)		
Machine Weight	6,000 kg $13,228$ lb		6,200 kg $13,669$ lb			

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.

GT Series Specifications

The mark* stands for VDI40 type.

ITEMS	GT-300A	GT-300LA	GT-300MA	GT-300LMA	GT-300B	GT-300LB	GT-300MB	GT-300LMB						
MACHINING CAPACITY														
Swing Over Bed	$\varnothing 600$ mm ø23.62"													
Swing Over Carriage	$\varnothing 450$ mm ø17.72"													
Max. Turning Diameter	$\varnothing 440$ mm ($\varnothing 360$ mm*) ø17.32" (ø14.17" *)		$\varnothing 360$ mm ø14.17"		$\varnothing 440$ mm ($\varnothing 360$ mm*) ø17.32" (ø14.17" *)		$\varnothing 360$ mm ø14.17"							
Max. Turning Length	712 mm (742mm*) 28.03"(29.21" *)	1,262 mm (1,292mm*) 49.69"(50.87" *)	742 mm 29.21"	1,292 mm 50.87"	700 mm (730mm*) 27.56"(28.74" *)	1,250 mm (1,280mm*) 49.21"(50.39" *)	683 mm 26.89"	1,233 mm 48.43"						
Distance Between Center	891 mm (888mm*) 35.08"(34.96" *)	1,441 mm (1,438mm*) 56.73"(56.61" *)	891 mm 35.08"	1,441 mm 56.73"	891 mm (888mm*) 35.08"(34.96" *)	1,441 mm (1,438mm*) 56.73"(56.61" *)	891 mm 35.08"	1,441 mm 56.73"						
SPINDLE														
Height Between Spindle Center and Ground	1,060 mm 41.73"													
Chuck Diameter	10" Chuck				12" Chuck									
Spindle Nose	A2-8				A2-8									
Front Bearing Diameter	$\varnothing 130$ mm ø5.12"				$\varnothing 160$ mm ø6.3"									
Hole Through Spindle	$\varnothing 88$ mm ø3.46"				$\varnothing 105$ mm ø4.13"									
Hole Through Draw Tube	$\varnothing 75$ mm ø2.95"				$\varnothing 91$ mm ø3.58"									
Spindle Speed	3,500 rpm				3,000 rpm									
Max. Spindle torque	53.7 kgf-m 388.42 lb-ft	77.3 kgf-m 559.12 lb-ft		90 kgf-m 650.98 lb-ft										
C-axis Index Accuracy	-		0.001°		-		0.001°							
MAIN TRAVEL														
X-axis Travel	245 mm (275 mm*) 9.65"(10.83" *)		275 mm 10.83"		245 mm (275mm*) 9.65"(10.83" *)		275 mm 10.83"							
Z-axis Travel	712 mm (742 mm*) 28.03"(29.21" *)	1,262 mm (1,292mm*) 49.69"(50.87" *)	742 mm 29.21"	1,292 mm 50.87"	700 mm (730mm*) 27.56"(28.74" *)	1,250 mm (1,280mm*) 49.21"(50.39" *)	733 mm 28.86"	1,283 mm 50.51"						
FEEDRATE														
Rapid Feedrate (X/Z)	20/24 m/min. 787/945 ipm													
Cutting Feedrate	1~10,000 mm/min. 0.04~394 ipm													
MOTOR														
Spindle Motor	15/18.5 kW 20/25 HP		(L)11/18.5 (H)15/18.5 kW (L)15/25 (H)20/25 HP											
Turret Motor	1.2 kW 1.6 HP													
VDI Live Tool Motor	-		5.5 kW 7.38 HP		-		5.5 kW 7.38 HP							
TURRET														
Type of Index	Servo Hydraulic Control (Hydraulic Clamp)													
Turret Tool Magazine Capacity	Std. Tool	10T (8T)	-	8T (10T)	-									
Shank Height for Square Tool	VDI	12T*	12T	12T*	12T									
Shank Diameter for Boring Bar	$\square 25$ mm ø1"				$\square 32$ mm ø1&1/4" ($\square 25$ mm*) (ø1" *)	$\square 25$ mm ø1"								
Swing Over Turret	$\varnothing 620$ mm ($\varnothing 650$ mm*) ø24.41"(ø25.59" *)		$\varnothing 650$ mm ø25.59"		$\varnothing 610$ mm ($\varnothing 650$ mm*) ø24.02"(ø25.59" *)		$\varnothing 650$ mm ø25.59"							
VDI Live Tool Speed	-		3,000 rpm		-		3,000 rpm							
Torque of Milling Tool Motor	-		3.57 kgf-m 25.82 lb-ft		-		3.57 kgf-m 25.82 lb-ft							
TAILSTOCK														
Tailstock Quill Taper- Stationary Center (std.)	MT-5													
Tailstock Quill Taper- Live Center (opt.)	MT-4													
Tailstock Quill Diameter	$\varnothing 100$ mm ø3.94"													
Tailstock Quill Stroke	100 mm 3.94"													
Tailstock Stroke	605 mm 23.82"	1,155mm 45.47"	605 mm 23.82"	1,155 mm 45.47"	605 mm 23.82"	1,155 mm (1,152mm*) 45.47"(45.35" *)	605 mm 23.82"	1,155 mm 45.47"						
GENERAL														
Power Consumption (Transformer)	34.39 kVA (40 kVA)	34.82 kVA (40 kVA)	40.45 kVA (45 kVA)	40.87 kVA (45 kVA)	34.39 kVA (40 kVA)	34.82 kVA (40 kVA)	40.45 kVA (45 kVA)	40.87 kVA (45 kVA)						
Machine Weight	6,950 kg 15,322 lb	7,850 kg 17,306 lb	6,950 kg 15,322 lb	7,850 kg 17,306 lb	6,950 kg 15,322 lb	7,850 kg 17,306 lb	6,950 kg 15,322 lb	7,850 kg 17,306 lb						

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.

GT Series Specifications

ITEMS	GT-380A	GT-380B	GT-380LA	GT-380LB
MACHINING CAPACITY				
Swing Over Bed		ø700 mm ø27.56"		
Swing Over Carriage			ø570 mm ø22.44"	
Max. Turning Diameter			ø560 mm ø22.05"	
Max. Turning Length	715 mm 28.15"	680 mm 26.77"	1,265 mm 49.8"	1,230 mm 48.43"
Distance Between Center		891 mm 35.08"		1,441 mm 56.73"
SPINDLE				
Height Between Spindle Center and Ground			1,115 mm 43.9"	
Chuck Diameter	12" Chuck	15" Chuck	12" Chuck	15" Chuck
Spindle Nose			A2-8	
Front Bearing Diameter			ø160 mm ø6.3"	
Hole Through Spindle			ø105 mm ø4.13"	
Hole Through Draw Tube			ø91 mm ø3.58"	
Spindle Speed	3,000 rpm	2,000 rpm	3,000 rpm	2,000 rpm
Max. Spindle torque	90 kgf-m 650.98 lb-ft	135 kgf-m 976.47 lb-ft	90 kgf-m 650.98 lb-ft	135 kgf-m 976.47 lb-ft
C-axis Index Accuracy			—	
MAIN TRAVEL				
X-axis Travel			305 mm 12"	
Z-axis Travel	715 mm 28.15"	680 mm 26.77"	1,265 mm 49.8"	1,230 mm 48.43"
FEEDRATE				
Rapid Feedrate (X/Z)			20/24 m/min. 787/945 ipm	
Cutting Feedrate			1~10,000 mm/min. 0.04~394 ipm	
MOTOR				
Spindle Motor		(L)11/18.5 (H)15/18.5 kW (L)15/25 (H)20/25 HP		
Turret Motor			1.2 kW 1.6 HP	
VDI Live Tool Motor			—	
TURRET				
Type of Index		Servo Hydraulic Control (Hydraulic Clamp)		
Turret Tool Magazine Capacity		10T		
Shank Height for Square Tool		□32 mm □ 1&1/4"		
Shank Diameter for Boring Bar		ø50 mm ø2"		
Swing Over Turret		ø686 mm ø27.01"		
VDI Live Tool Speed		—		
Torque of Milling Tool Motor		—		
TAILSTOCK				
Tailstock Quill Taper- Stationary Center (std.)			MT-5	
Tailstock Quill Taper- Live Center (opt.)			MT-4	
Tailstock Quill Diameter			ø100 mm ø3.94"	
Tailstock Quill Stroke			100 mm 3.94"	
Tailstock Stroke	605 mm 23.82"	520 mm 20.47"	1,155 mm 45.47"	1,070 mm 42.13"
GENERAL				
Power Consumption (Transformer)		34.39 kVA (40 kVA)		34.82 kVA (40 kVA)
Machine Weight	7,520 kg 16,579 lb	7,570 kg 16,689 lb	7,980 kg 17,593 lb	8,030 kg 17,703 lb

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.

Accessories Table

● : Standard ○ : Optional — : None

	GT-200A/B	GT-200MA	GT-250A/B	GT-250MA/MB
Tool Kit	●	●	●	●
Work Lamp	●	●	●	●
Pilot Lamp	●	●	●	●
Hydraulic System	●	●	●	●
Air Gun	●	●	●	●
Coolant Equipment System	●	●	●	●
Hydraulic Hollow Cylinder	●	●	●	●
Leveling Blocks and Bolts	●	●	●	●
Full Chip Enclosure	●	●	●	●
Chuck Switch Pedal	●	●	●	●
Heat Exchanger for Electrical Cabinet	●	●	●	●
A/C. Cooler for Electrical Cabinet	○	○	○	○
Mechanical, Electrical & Operating Manuals	●	●	●	●
CNC Control	TXP-100FA TXP-200FA	● ○	— ● ○	— ● ○
Central Automatic Lubrication System (Piston Type)	●	●	●	●
Hard and Soft Jaws 1 set	●	●	●	●
Tailstock Center Shaft	Stationary Quill Type Live Quill Type	● —	● — ○	● — ○
Tailstock Positioning	Manual Lock (Block) Programmable Hydraulic Clamp	● —	● — ○	● — ○
Chip Conveyor	Right Side Rear Side	● ○	● ○ ○	● ○ ○
Automatic Door	○	○	○	○
Safety Door	●	●	●	●
Collet Chuck	○	○	○	○
Chuck Air Blast	○	○	○	○
Foundation Screw Bolt	○	○	○	○
Oil-mist Collector	○	○	○	○
Additional Hard and Soft Jaws	○	○	○	○
Oil Skimmer	○	○	○	○
Paper Filter	○	○	○	○
Soft Jaw Former	○	○	○	○
Tailstock Pedal	○	○	○	○
Coolant Gun	○	○	○	○
Parts Catcher System	○	○	○	○
Workpiece Length Setter	○	○	○	○
Heavy Duty Coolant Pump (MTH2-40/4)	○	○	○	○
Auto Tool Length Measurement System (RENISHAW HPMA)	○	○	○	○
Bar Feeder or Only Software	○	○	○	○
VDI Tool holders and Milling Tool Attachments	—	○	—	○
Parts Catcher	○	○	○	○
Parts Conveyor	○	○	○	○



Hydraulic System

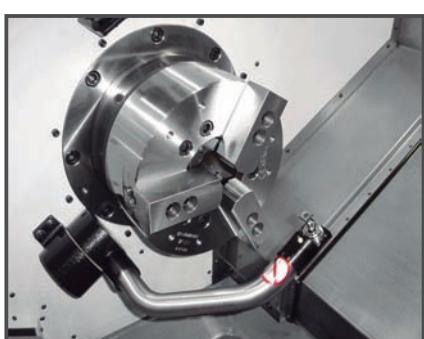


Central Lubrication System

Accessories Table

● : Standard ○ : Optional — : None

	GT-300A/B/LA/LB	GT-300MA/MB/LMA/LMB	GT-380A/B/LA/LB
Tool Kit	●	●	●
Work Lamp	●	●	●
Pilot Lamp	●	●	●
Hydraulic System	●	●	●
Air Gun	●	●	●
Coolant Equipment System	●	●	●
Hydraulic Hollow Cylinder	●	●	●
Leveling Blocks and Bolts	●	●	●
Full Chip Enclosure	●	●	●
Chuck Switch Pedal	●	●	●
Heat Exchanger for Electrical Cabinet	●	●	●
A/C. Cooler for Electrical Cabinet	○	○	○
Mechanical, Electrical & Operating Manuals	●	●	●
CNC Control	TXP-100FA TXP-200FA	● ○	— ● ○
Central Automatic Lubrication System (Piston Type)	●	●	●
Hard and Soft Jaws 1 set	●	●	●
Tailstock	Stationary Quill Type	●	●
Center Shaft	Live Quill Type WW	○	○
Tailstock Positioning	Manual Lock (Block) Programmable Hydraulic Clamp	● ○	● ○
Chip Conveyor	Right Side Rear Side	● ○	● ○
Automatic Door	○	○	○
Safety Door	●	●	●
Collet Chuck	○	○	○
Chuck Air Blast	○	○	○
Foundation Screw Bolt	○	○	○
Oil-mist Collector	○	○	○
Additional Hard and Soft Jaws	○	○	○
Oil Skimmer	○	○	○
Paper Filter	○	○	○
Soft Jaw Former	○	○	○
Tailstock Pedal	○	○	○
Coolant Gun	○	○	○
Parts Catcher System	○	○	—
Workpiece Length Setter	○	○	○
Heavy Duty Coolant Pump (MTH2-40/4)	○	○	○
Auto Tool Length Measurement System (RENISHAW HPMA)	○	○	○
Bar Feeder or Only Software	○	○	—
VDI Tool holders and Milling Tool Attachments	—	○	—
Parts Catcher	○	○	—
Parts Conveyor	○	○	—



Auto Tool Length Measurement System



Chip Conveyor

VMC

Vertical Machining Center

FP Series High Precision High Performance Die Mold Vertical Machining Center
FP66A, FP100A, NFP66A



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



NTV Series Heavy Duty Vertical Machining Center
TV116B, TV146B, TV158B, TV188B, TV2110B, TV2610B

NMV Series High Efficiency T-base Vertical Machining Center
NTV4B



WV Series Ultra Wide High Performance Vertical Machining Center
WV4B



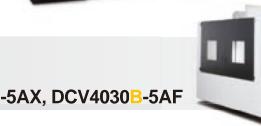
NFX Series High Performance 5-axis Vertical Machining Center
NFX380A



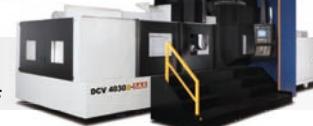
NSV Series Ultra High Performance Vertical Machining Center
NSV66A, NSV102A/AM, NSV156A/AM



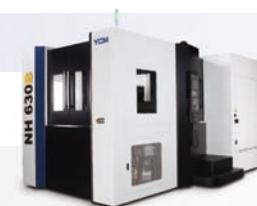
TCV Series High Performance Traveling Column Vertical Machining Center
TCV2000A, TCV3000A, TCV4500B, TCV2300A-4A, TCV3000A-4A/5AF/5AX



DCV Series Advanced Double Column Vertical Machining Center
DCV2012A/B, DCV3016B~6035B, DCV2018A~4018A-5AX, DCV4030B~6030B-5AX, DCV4030B~6027B-5AF



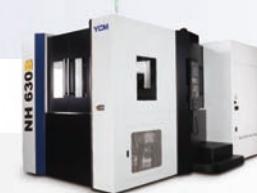
NDC Series High Performance Double Column Vertical Machining Center
NDC2016B~4016B, NDC3022B~6027B, NDC2018B~4018B-AHC, NDC3022B~6027B-AHC



HMC

Horizontal Machining Center

H Series High Production Horizontal Machining Center
H2612B



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

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-1600/M/Y/L/LM/LS/LY/LSY, NTC-2000/M/Y/L/LM/LS/LY/LSY



INTEGRATION AND SOLUTIONS

Integrated Operation Control System

iOPERATION
Software Enhancement Developed by YCM

Spindle Thermal Compensation System

STC PLUS

Remote Monitoring System

i-Direct

Automation Solutions



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

Email: sales@YCMCNC.com



201808-E17-3000