

GT

Series

HIGH PERFORMANCE GEO TURNING CENTER



YCM®

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, 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**

Spindle Thermal Compensation System **STC PLUS**

Remote Monitoring System **i-Direct**

Automation Solutions



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GT

Series

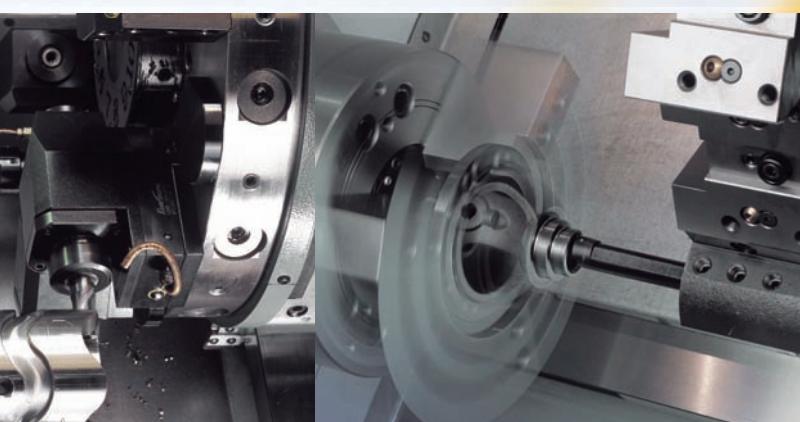
New Concept
Revolutionary Structural Design

GT-200A/B GT-200MA GT-250A/B/MA/MB GT-300A/B/LA/LB/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.





GT Series

Ideal Structural Rigidity and Design

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.

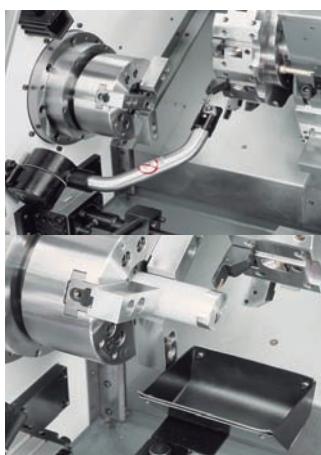
Tailstock Specifications

Model	Stationary Center	Live Center (opt.)	Quill Diameter	Max. Pressure	Max. Thrust Force
GT-200	MT-4		ø75mm ø2.95"	10kg/cm ² 142psi	360kgf 794 lb
GT-250/300/380	MT-5	MT-4	ø100mm ø3.94"	10kg/cm ² 142psi	590kgf 1,300 lb

The GT Series Base Data

	GT-200A/B/MA	GT-250A/B GT-250MA/MB	GT-300A/B/MA/MB GT-380A/B	GT-300LA /LB /LMA /LMB GT-380LA/LB
Length	1,740mm 68"	1,860mm 73"	2,585mm 102"	2,950mm 116"
Width	1,020mm 40"	1,175mm 46"	1,195mm 47"	1,195mm 47"
Weight	1,880kg 4,126 lb	2,520kg 5,544 lb	3,020kg 6,658 lb	3,590kg 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

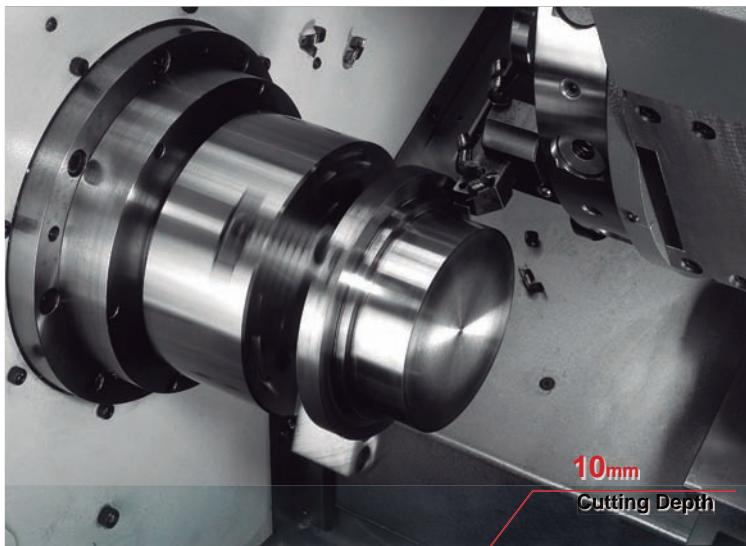
High Performance

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

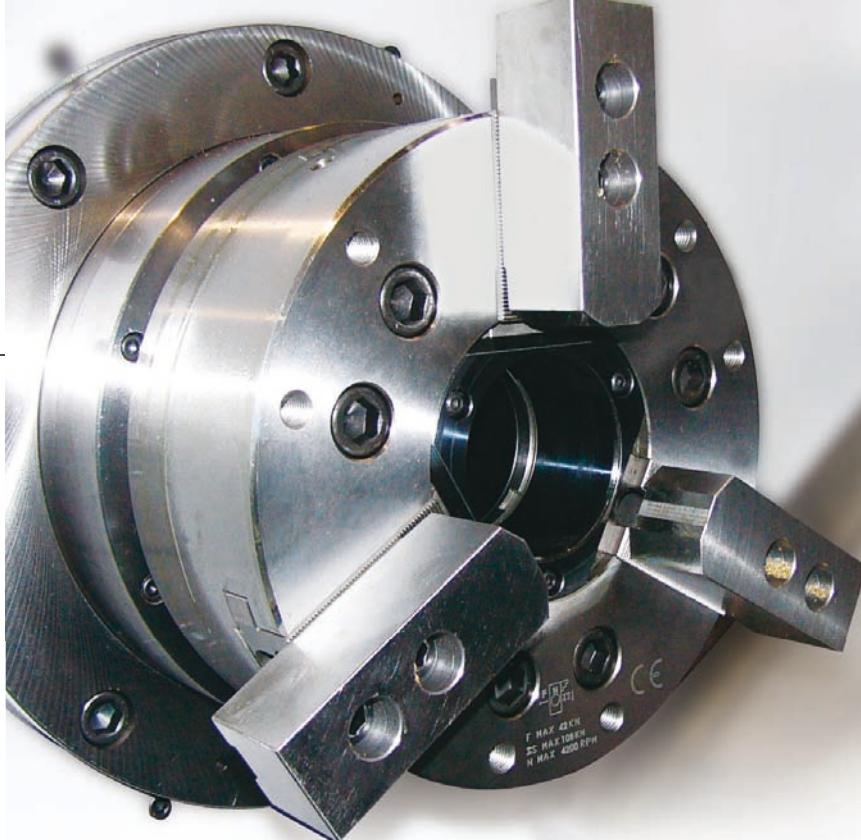


Model	GT-250 series
Material (JIS)	S45C
Diameter	ø89mm
Cutting Velocity	150m/min.
Cutting Feed	0.3mm/rev.
Cutting Depth	10mm



Max. Drilling Capacity: **Ø59 mm**

Model	GT-250 series
Drill Diameter	ø59mm
Material (JIS)	S45C
Spindle Speed	650rpm
Cutting Feed	0.15mm/rev.
Cutting Velocity	120m/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	ø56mm 2.20"	ø62mm 2.44"	ø62mm 2.44"	ø88mm 3.46"	ø105mm 4.13"	ø105mm 4.13"
Bar Capacity	ø45mm 1.77"	ø52mm 2.05"	ø52mm 2.05"	ø75mm 2.95"	ø91mm 3.58"	ø91mm 3.58"
Bearings	Front Dual Roller + Angular Contact	ø90mm 3.54"	ø100mm 3.94"	ø110mm 4.33"	ø130mm 5.12"	ø160mm 6.30"
	Rear Dual Roller	ø80mm 3.15"	ø90mm 3.54"	ø100mm 3.94"	ø120mm 4.72"	ø150mm 5.91"

Unique Quill-type Spindle Cartridge

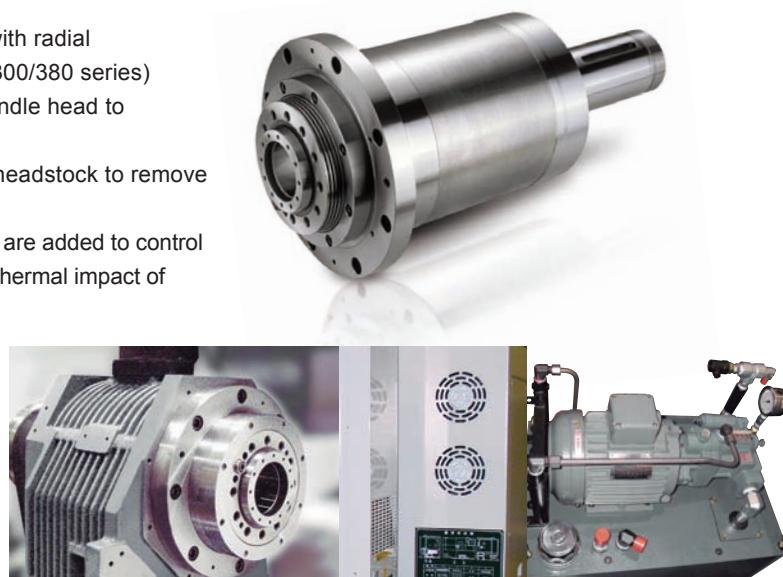
All spindles are strictly assembled in temperature controlled room, and proven through rigorous run-in test to assure the highest quality and reliability. The unique quill-type spindle cartridge designed for easy maintenance and repair if necessary.

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

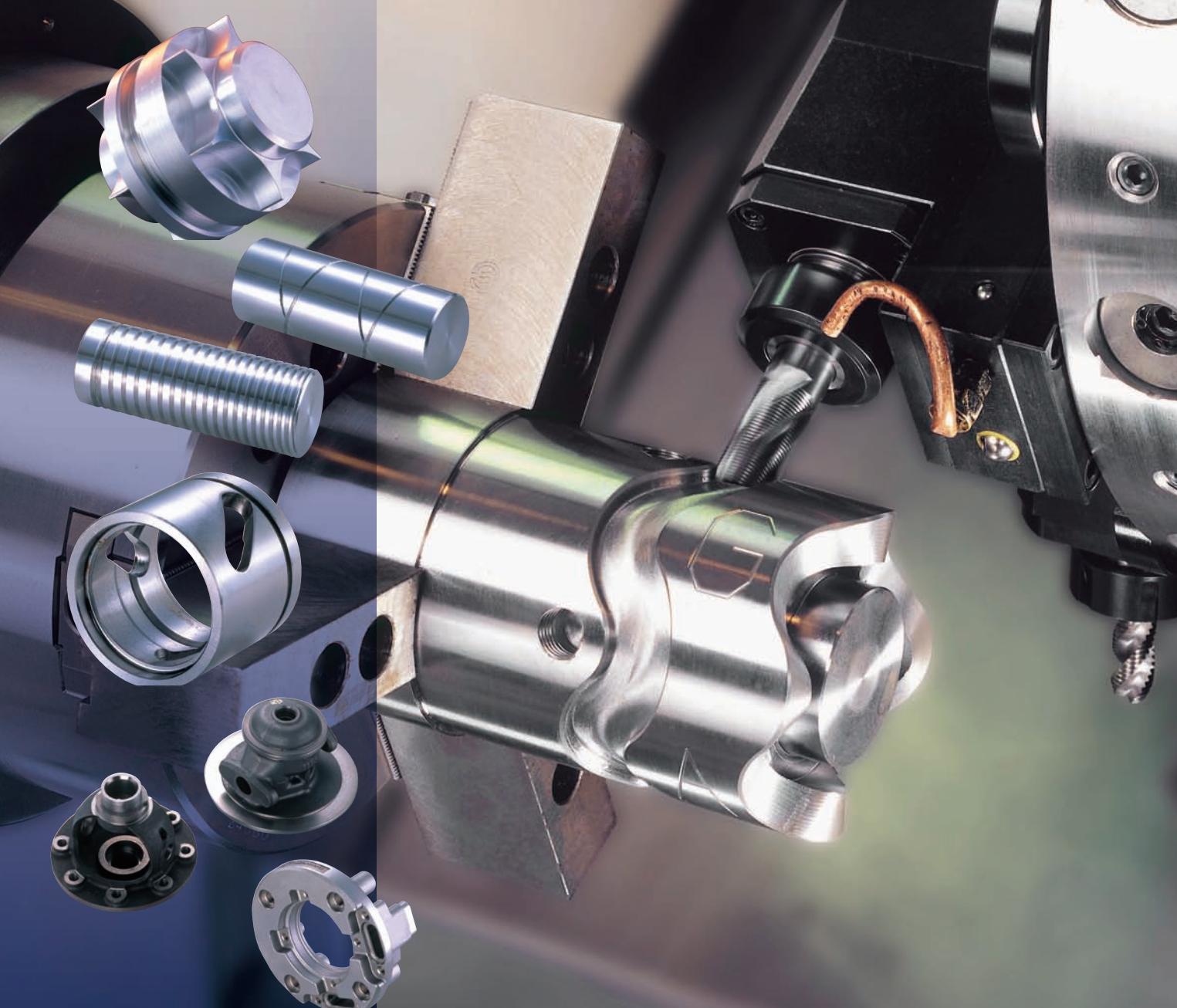
Series

Powerful
Milling Capability

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

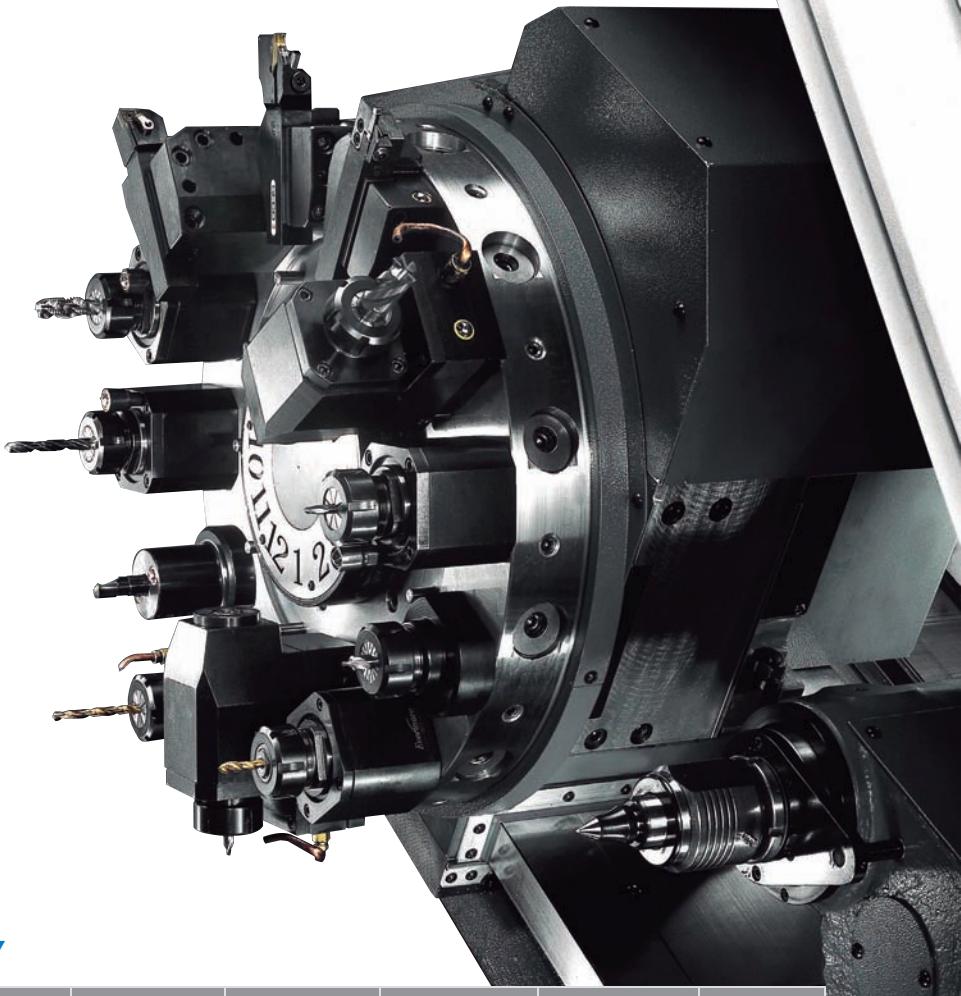
The rigidity of the GT series is demonstrated through a wide range of complex milling functions enhancing the productivity and versatility of the GT series.

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

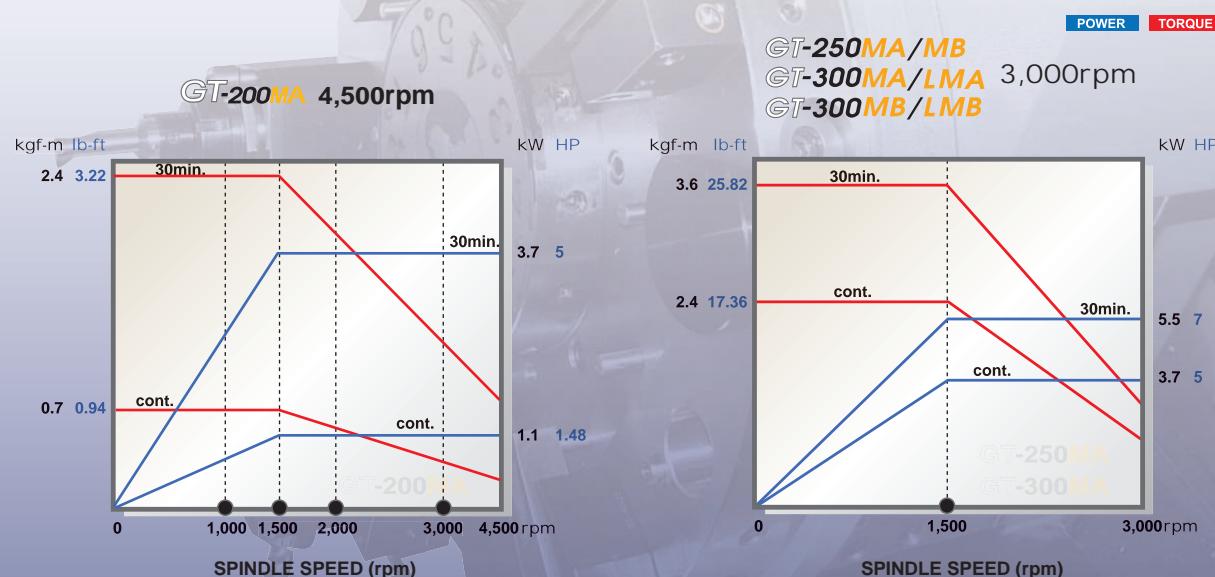
- Extra large turret 3-piece coupling are installed to assure the best milling performance.
- VDI turret is servo-driven for quick and reliable tool indexing; the adjacent tool index time is only 0.6 second that reduces non-machining time and improves productivity.
- The turret is designed with optimal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



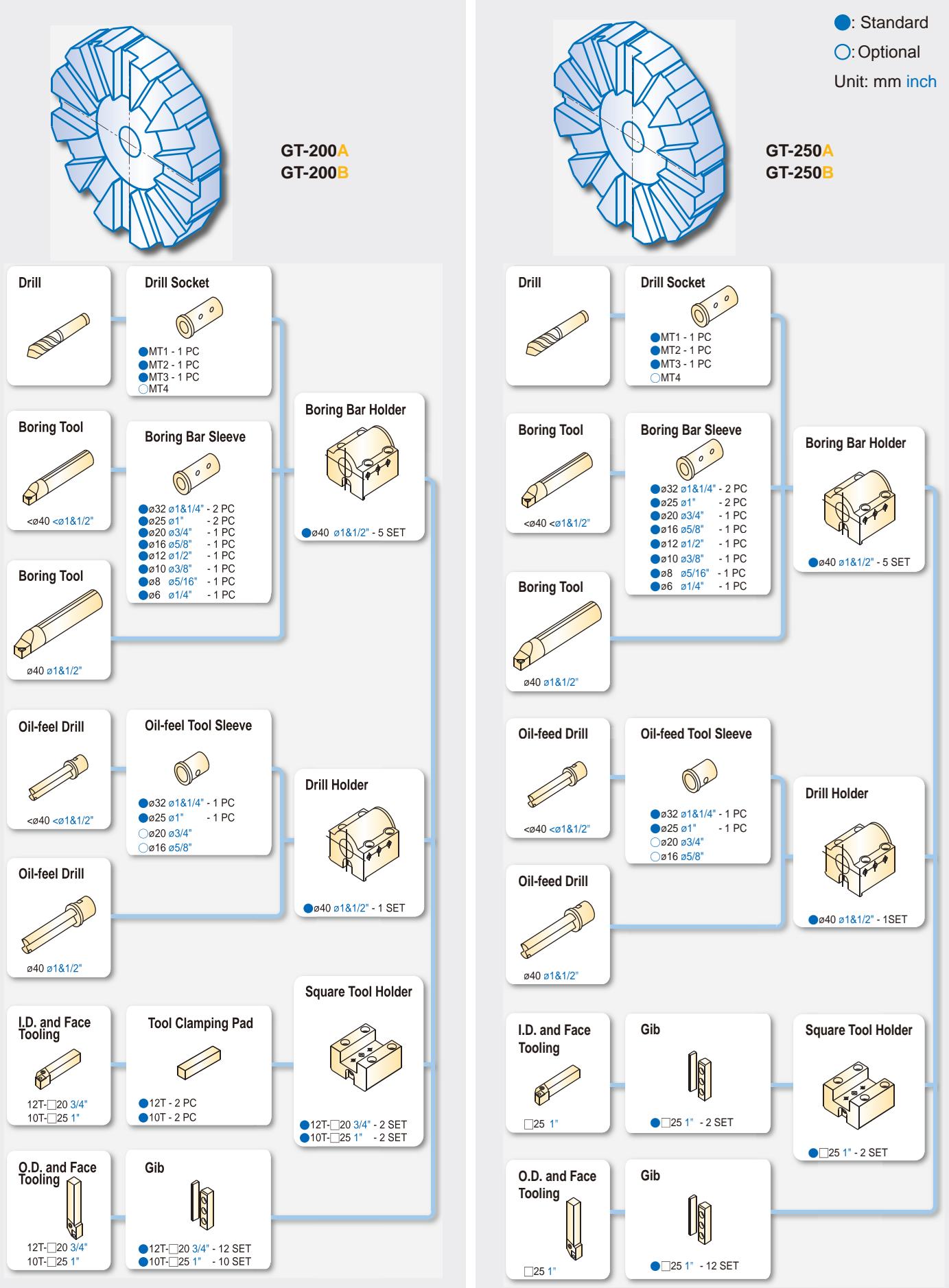
VDI Turret Machining Capacity

	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	Ø16mm Ø0.63"	Ø14mm Ø0.55"	M12 x 1.75P	Ø16 x 6mm 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	Ø20mm Ø0.79"	Ø20mm Ø0.79"	M16 x 2P	Ø20 x 10mm Ø0.79 x 0.39"	M6 x 1P

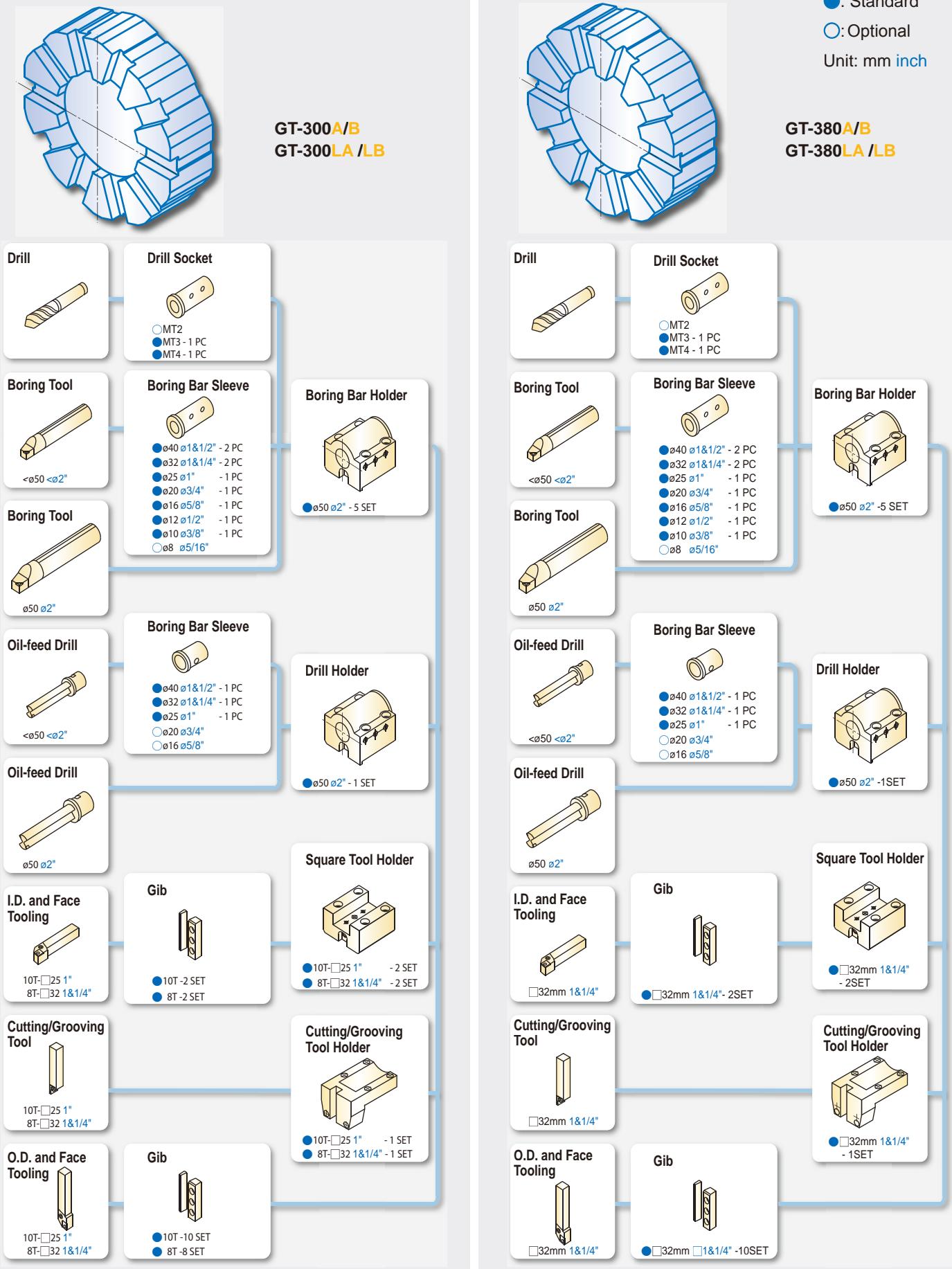
VDI Live Tool Motor Torque Chart



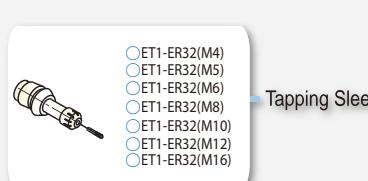
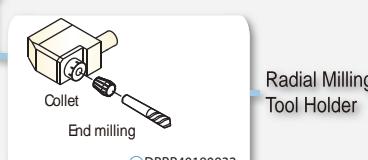
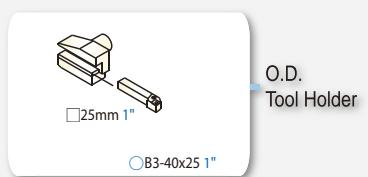
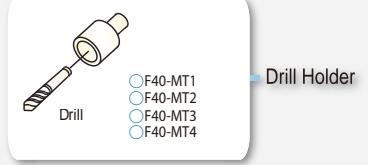
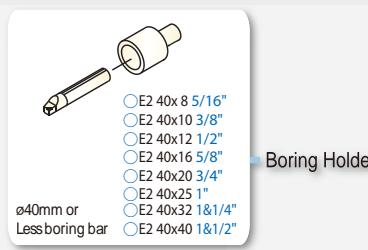
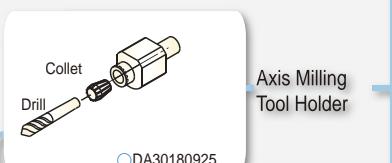
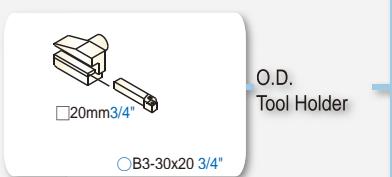
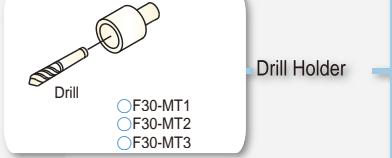
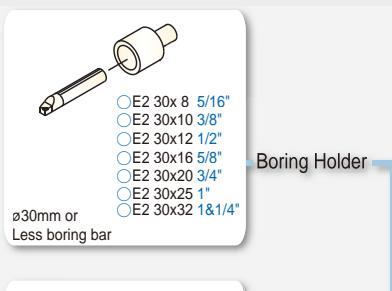
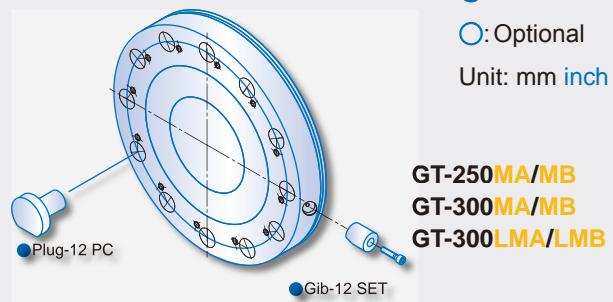
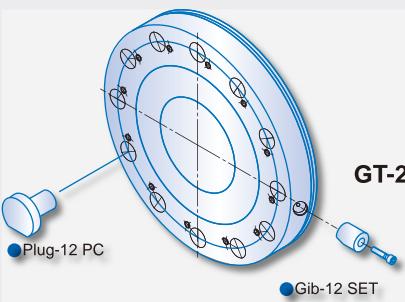
Tooling Chart



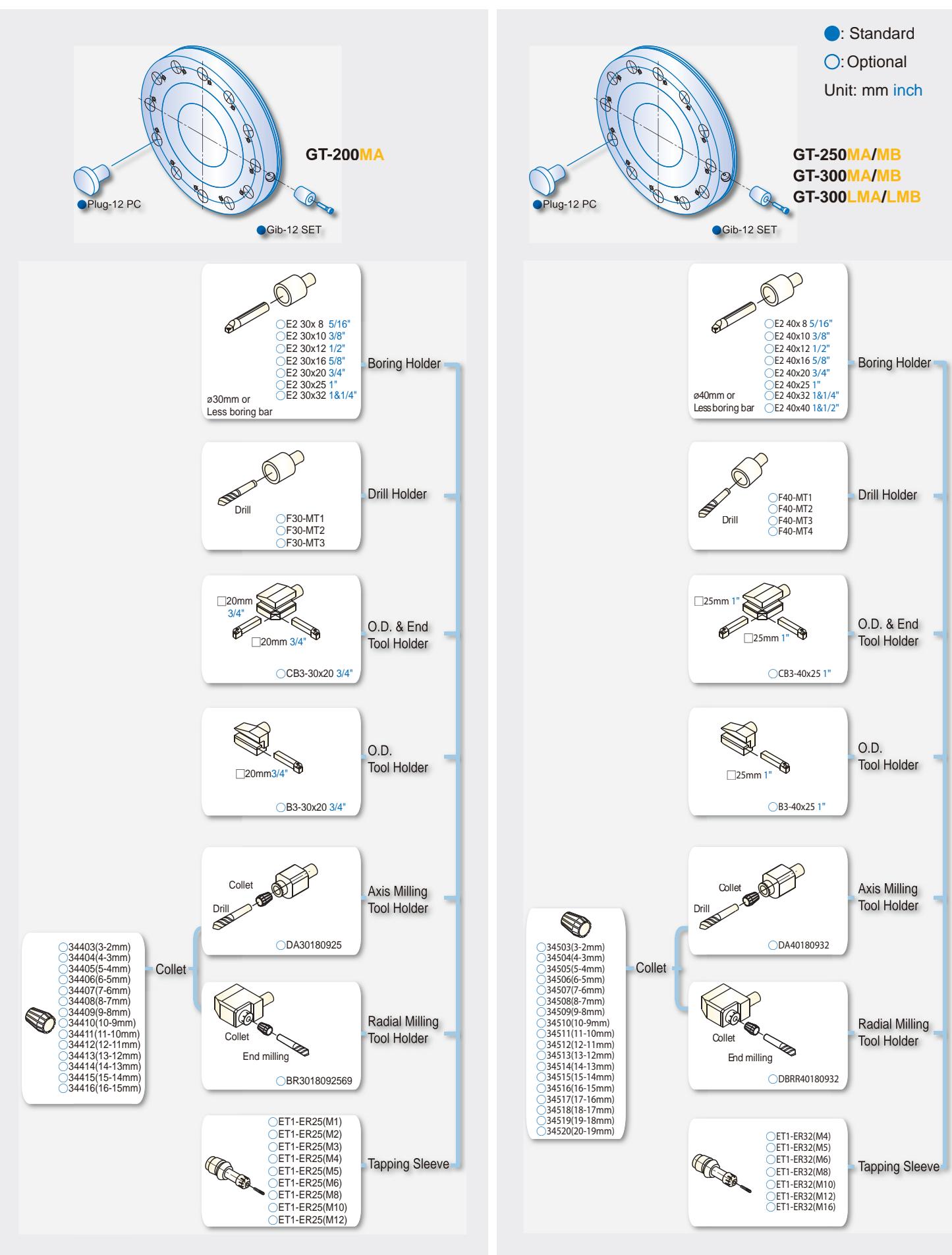
Tooling Chart



Tooling Chart



●: Standard
○: Optional
Unit: mm inch

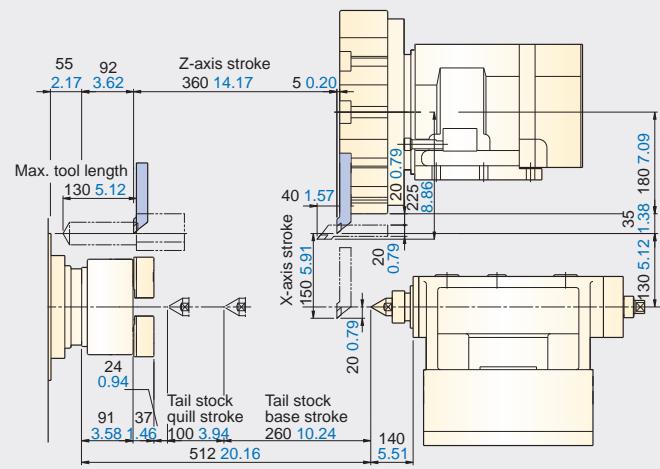
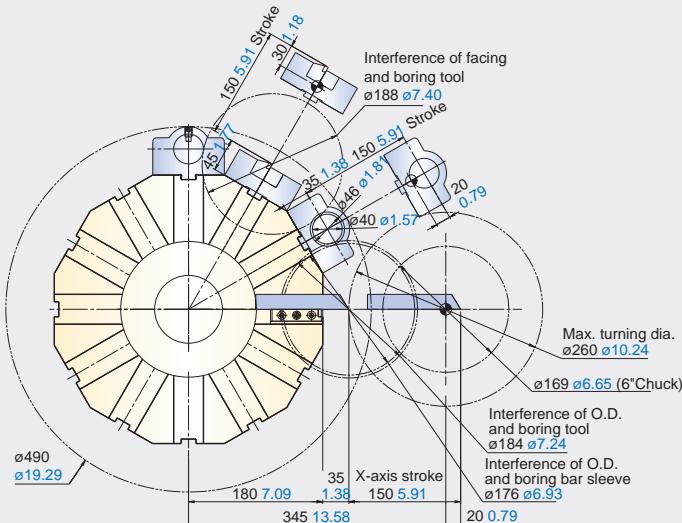


Tool Interference & Working Capacity

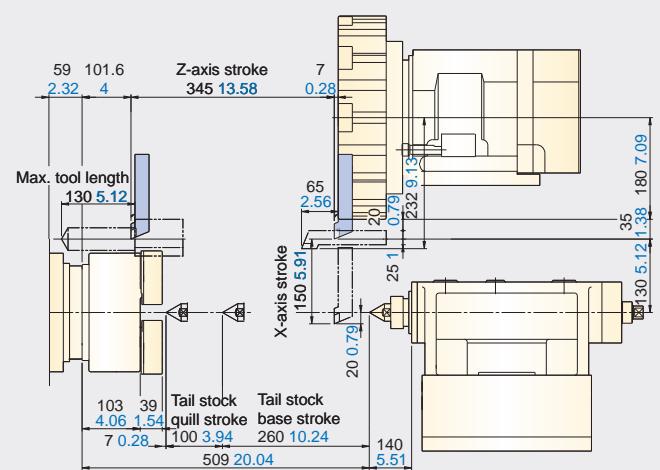
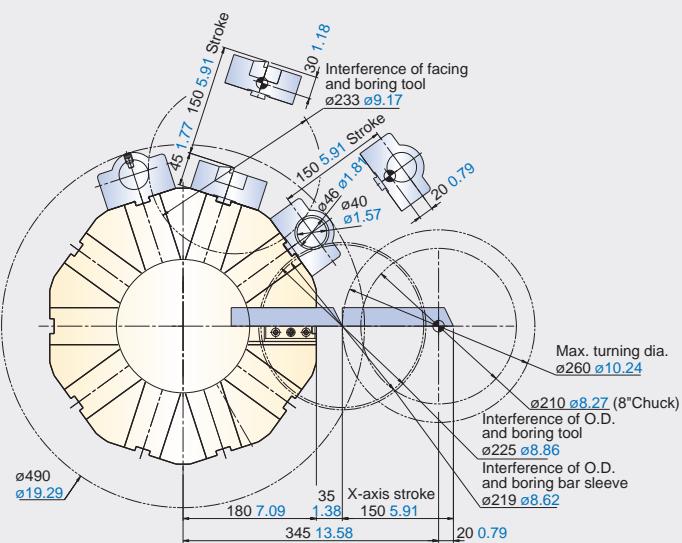
Unit: mm inch

● : Spindle Center

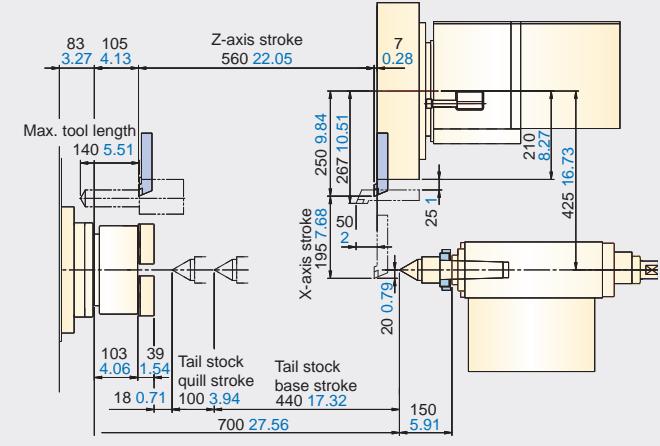
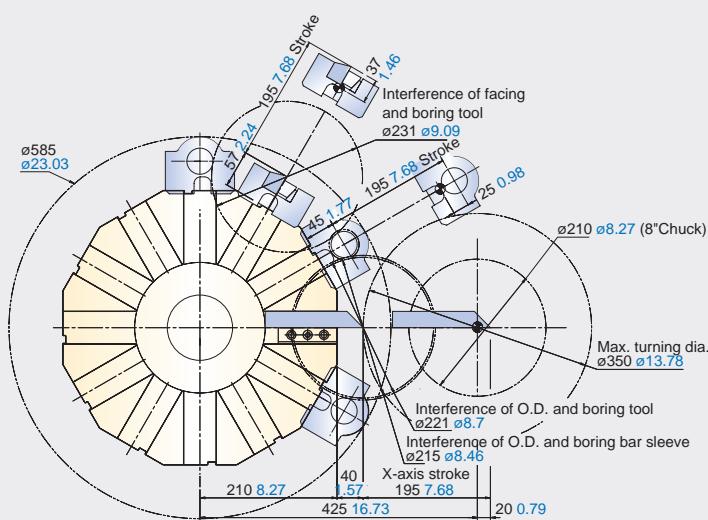
GT-200A 6"Chuck/12T



GT-200B 8"Chuck/10T



GT-250A 8"Chuck/12T

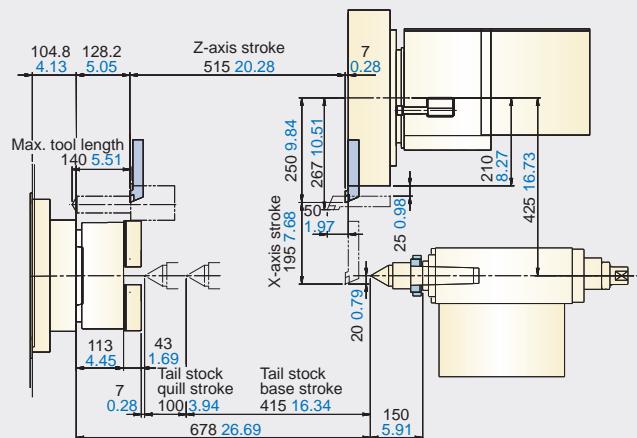
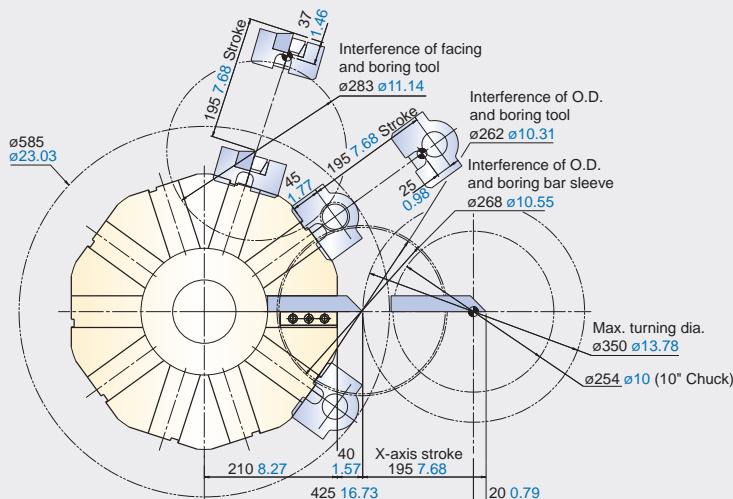


Tool Interference & Working Capacity

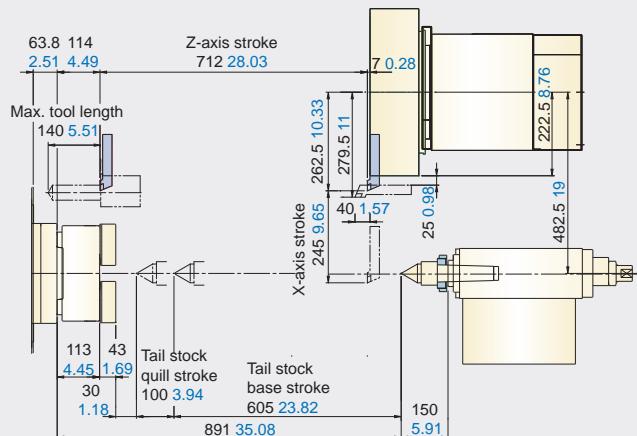
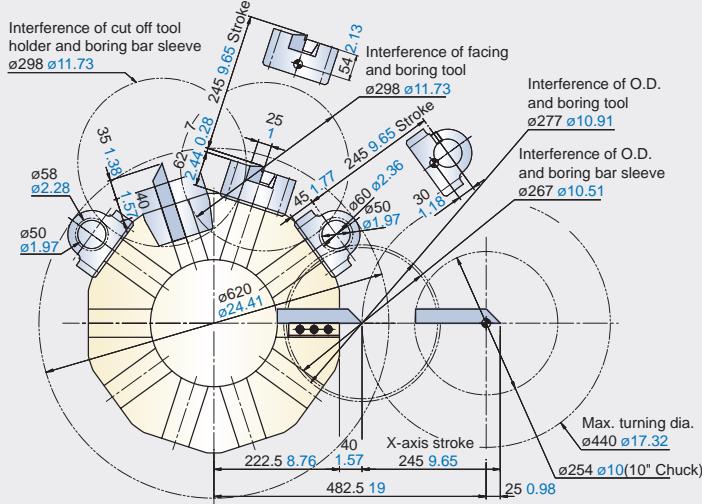
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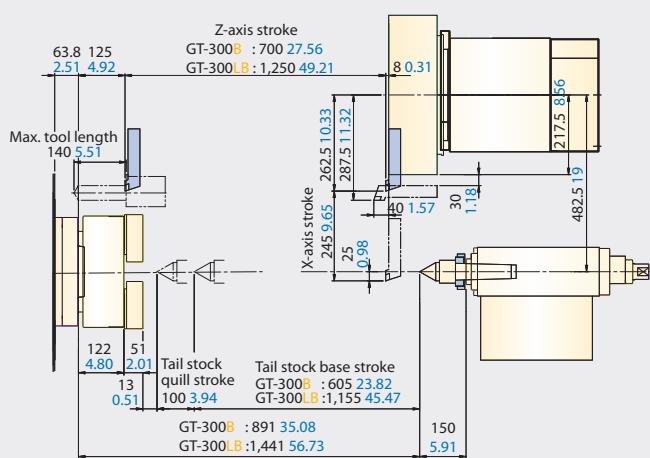
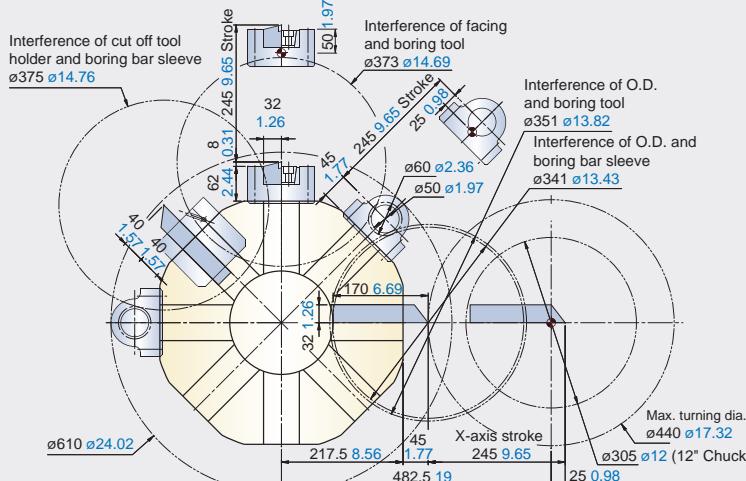
GT-250B 10"Chuck/10T



GT-300A 10"Chuck/10T



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

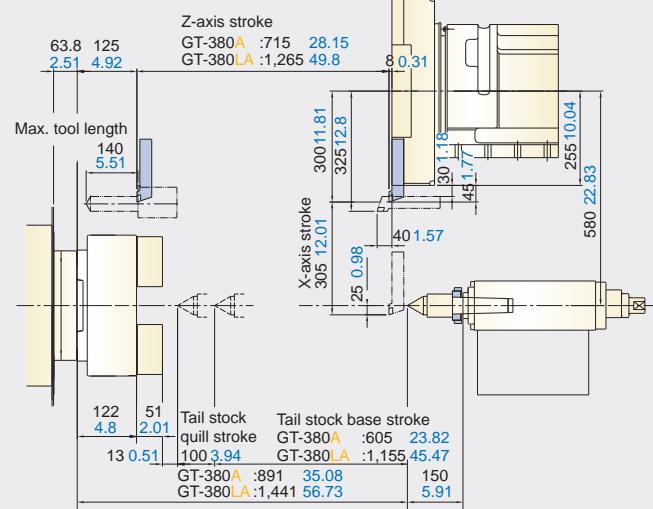
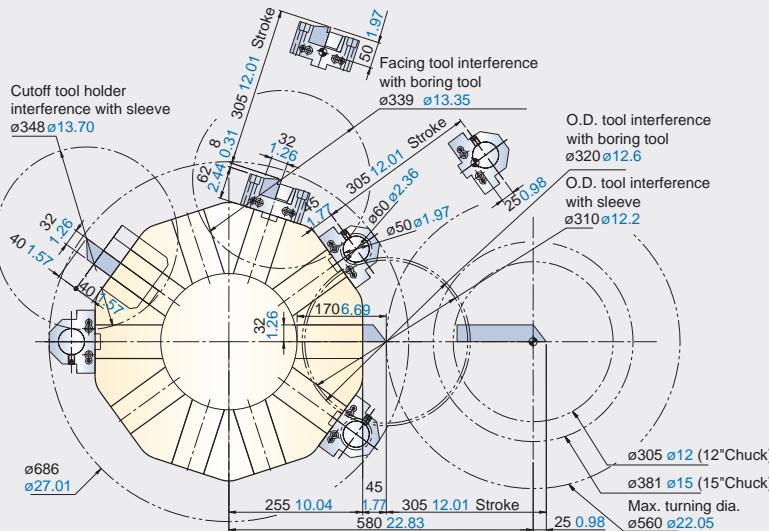


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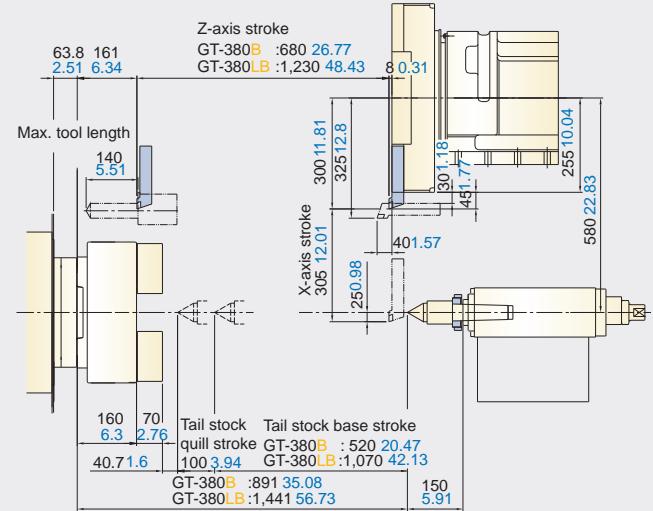
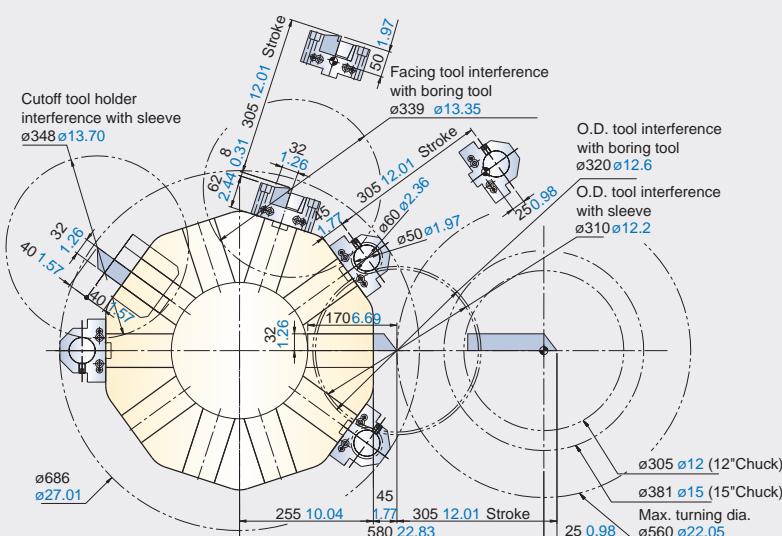
Unit: mm inch

● : Spindle Center

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



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



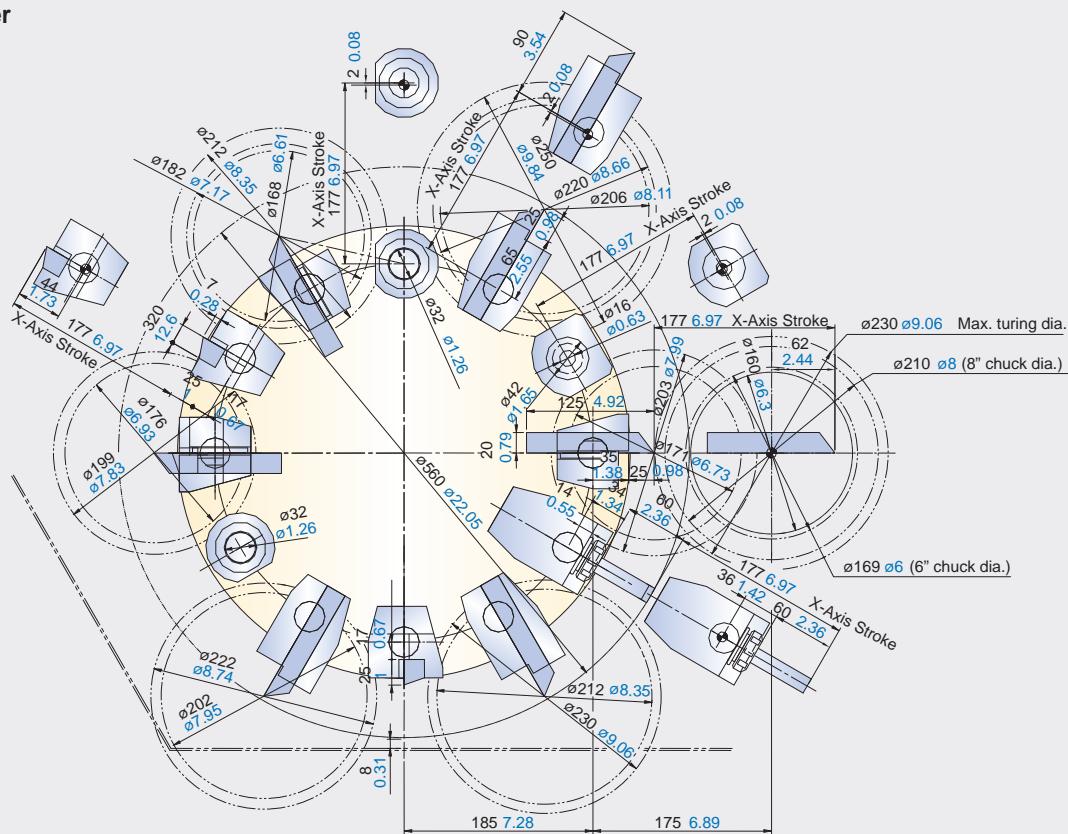
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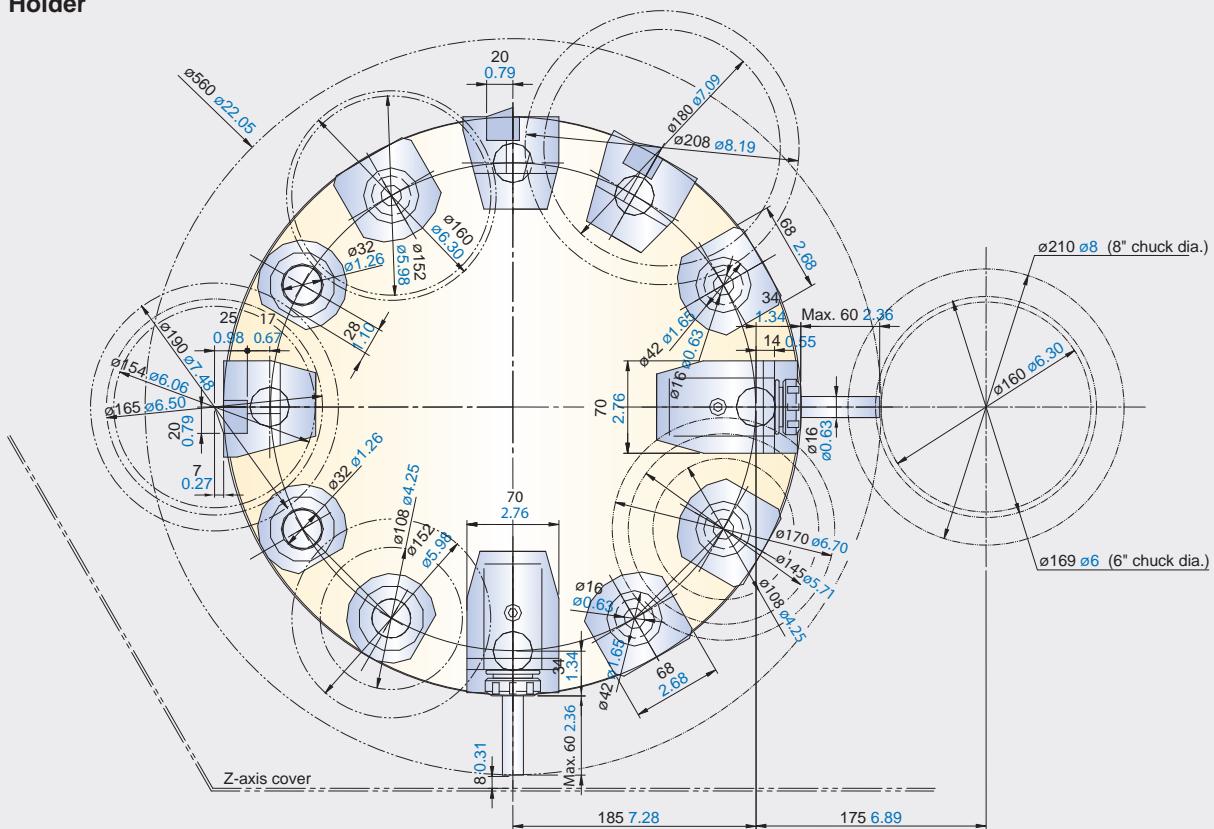
● : Spindle Center

GT-200MA 6"Chuck/12T

O.D. Tool Holder



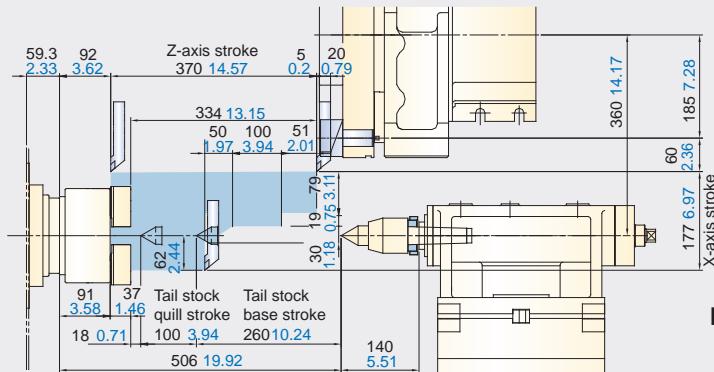
I.D. Tool Holder



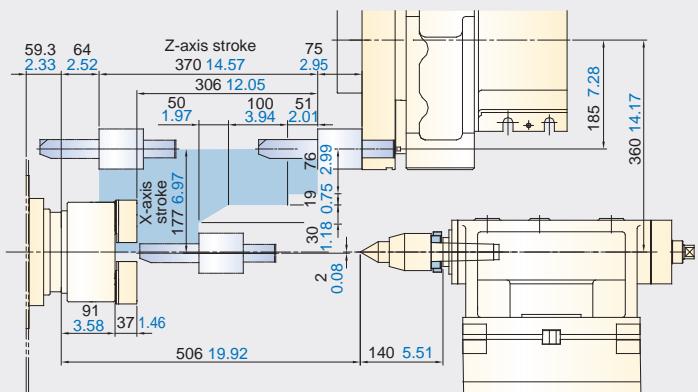
Tool Interference & Working Capacity

Unit: mm inch

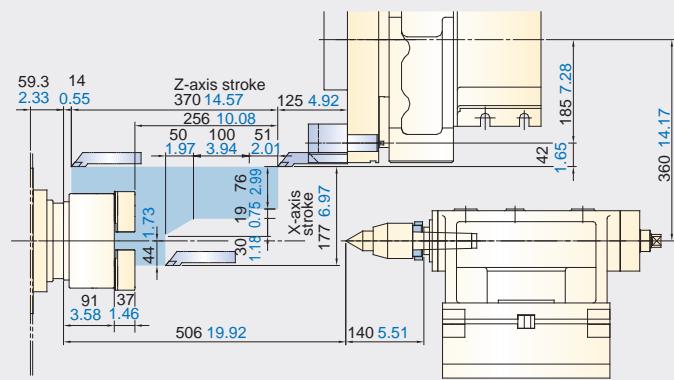
O.D. Turning Tool



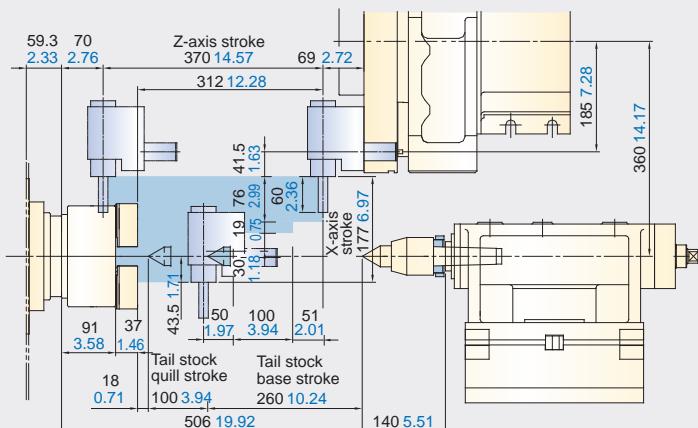
Boring Tool



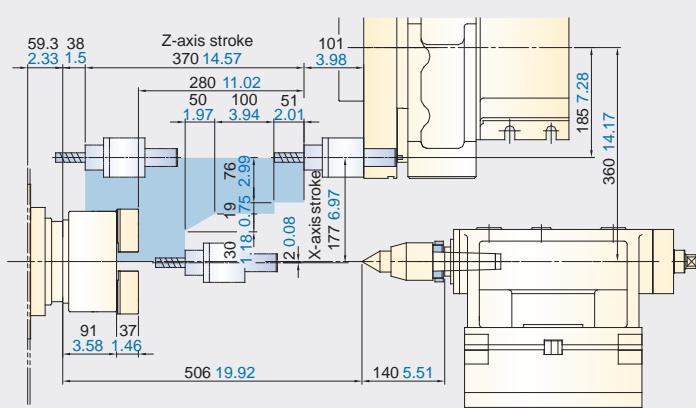
Face Tool



Radial Drive Tool



Axial Drive Tool



Tool Interference & Working Capacity

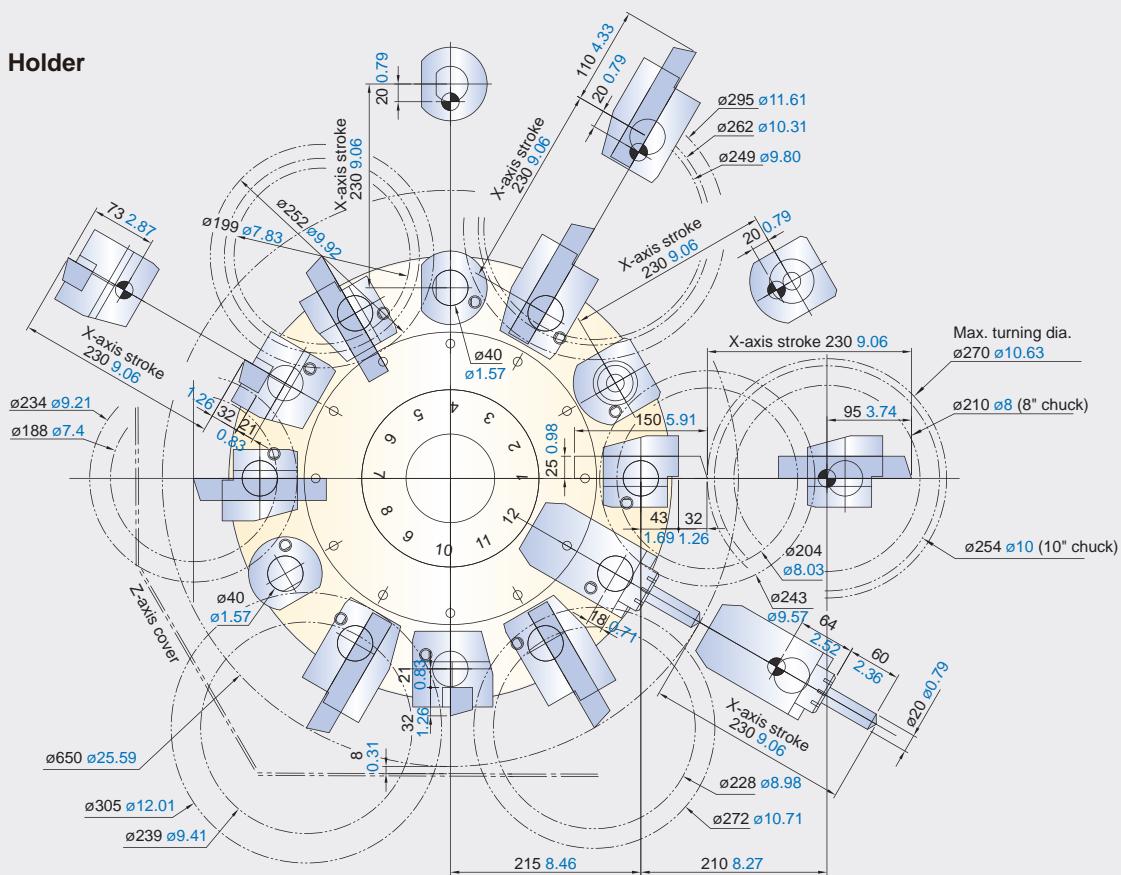
Unit: mm inch

●: Spindle Center

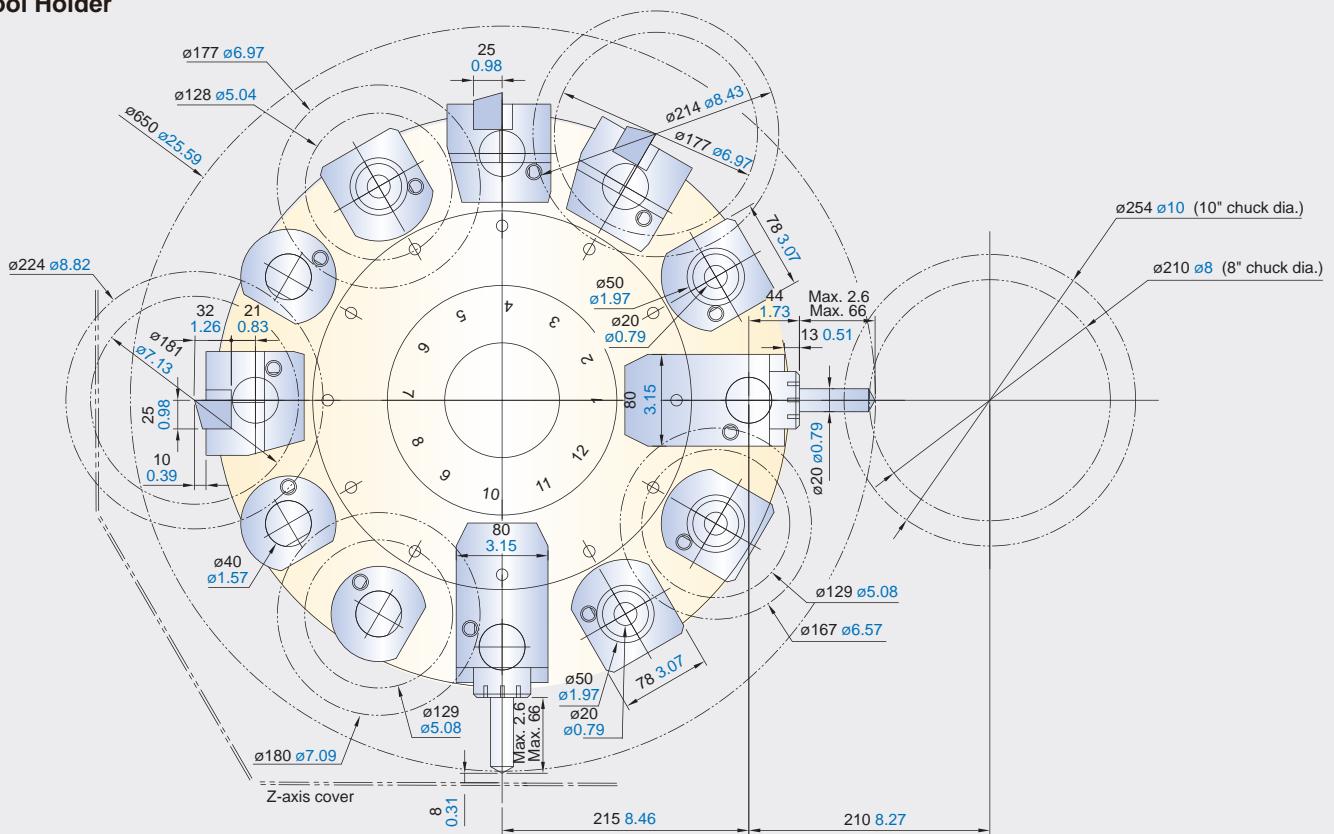
GT-250MA 8"Chuck/12T

GT-250MB 10"Chuck/12T

O.D. Tool Holder



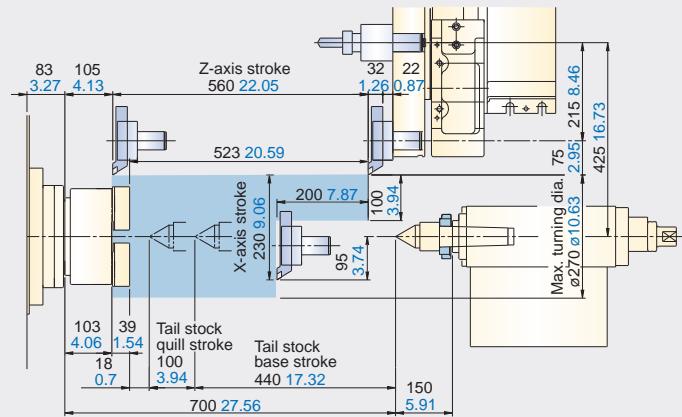
I.D. Tool Holder



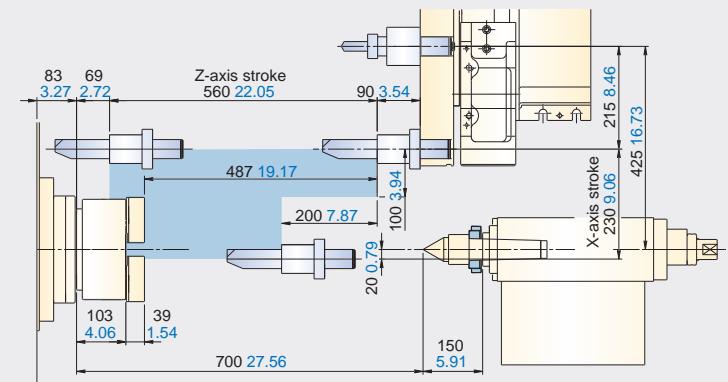
Tool Interference & Working Capacity

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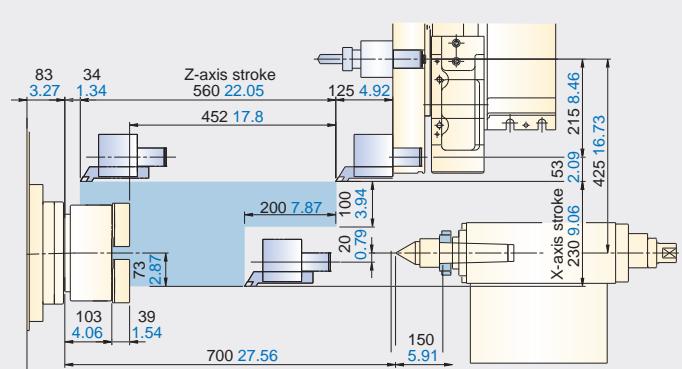
O.D. Turning Tool



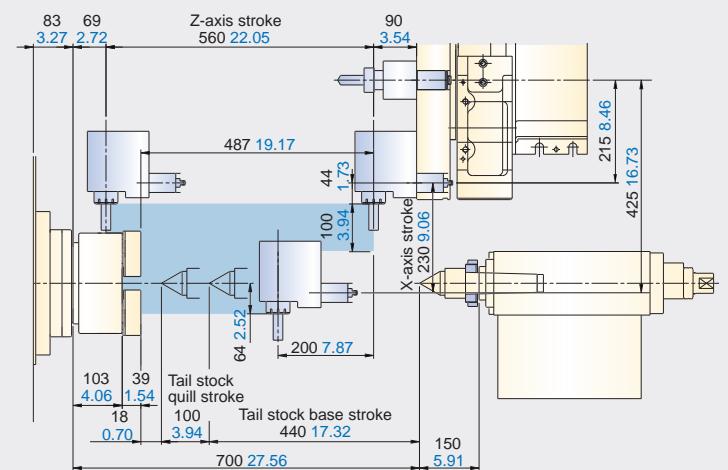
Boring Tool



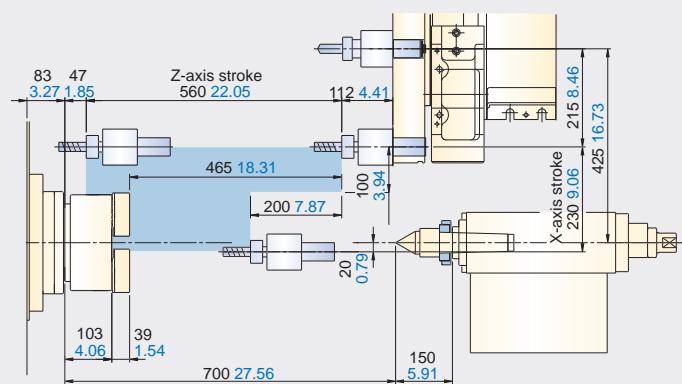
Face Tool



Radial Drive Tool



Axial Drive Tool



Tool Interference & Working Capacity

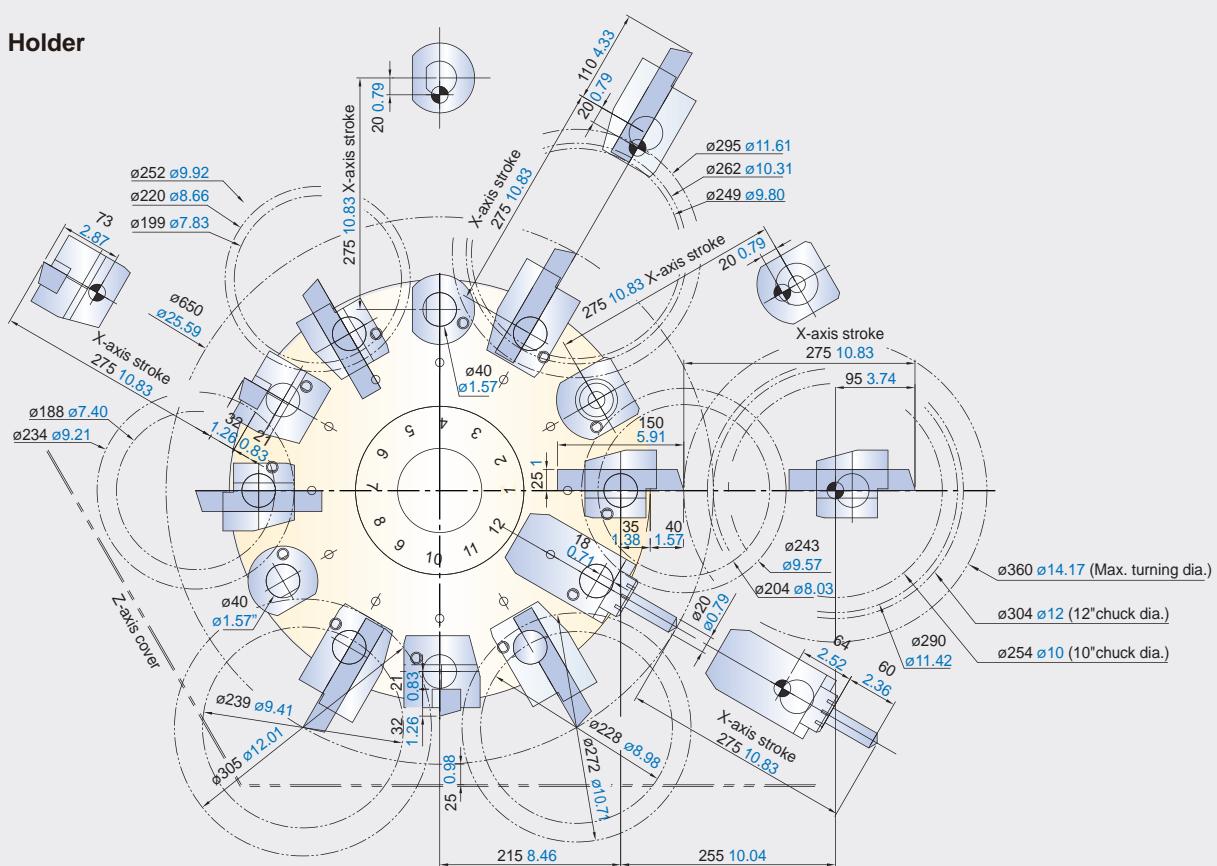
Unit: mm inch

● : Spindle Center

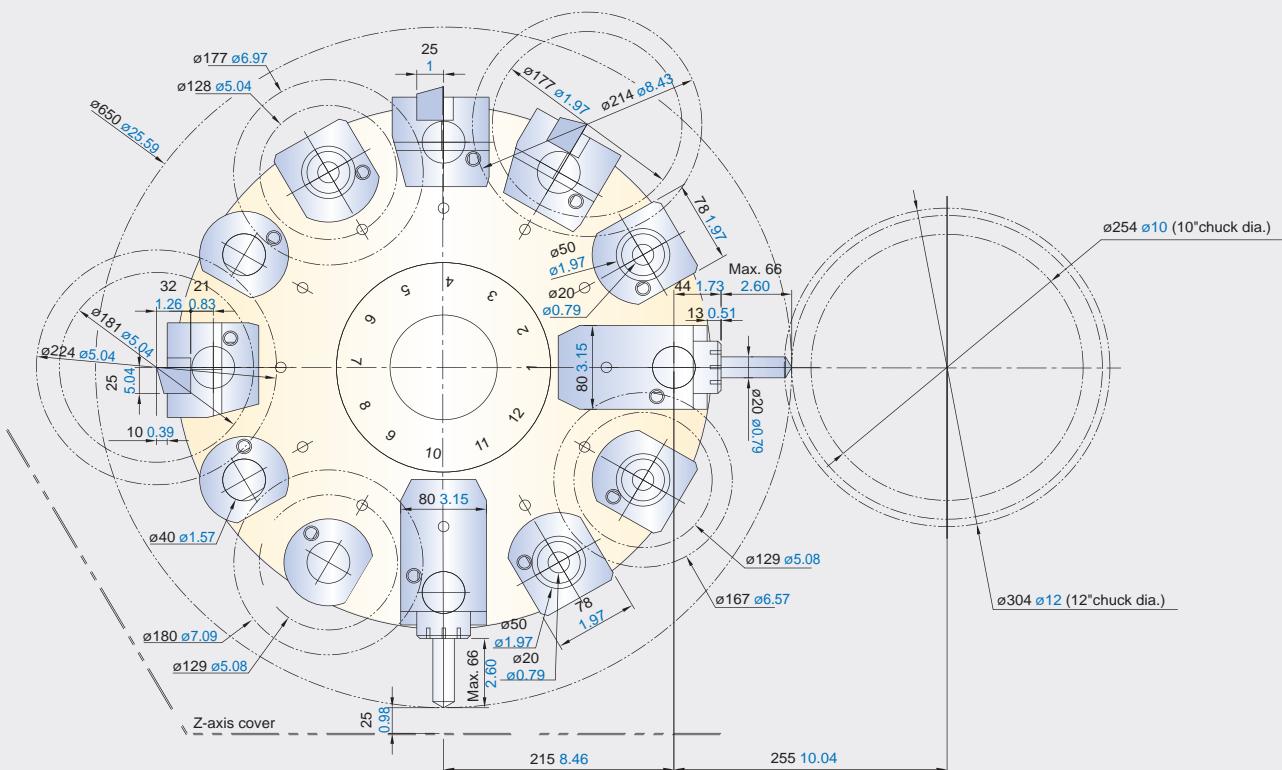
GT-300MA 10"Chuck/12T

GT-300MB 12"Chuck/12T

O.D. Tool Holder



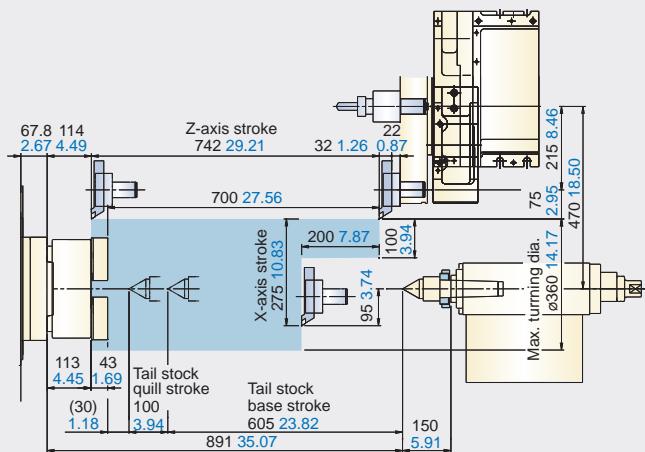
I.D. Tool Holder



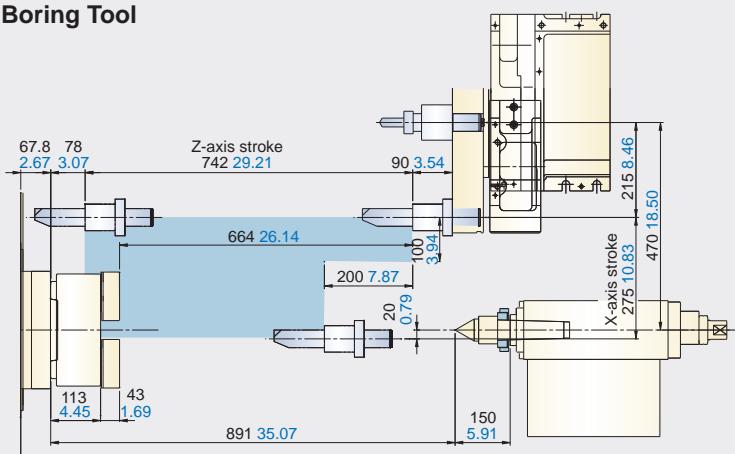
Tool Interference & Working Capacity

Unit: mm inch

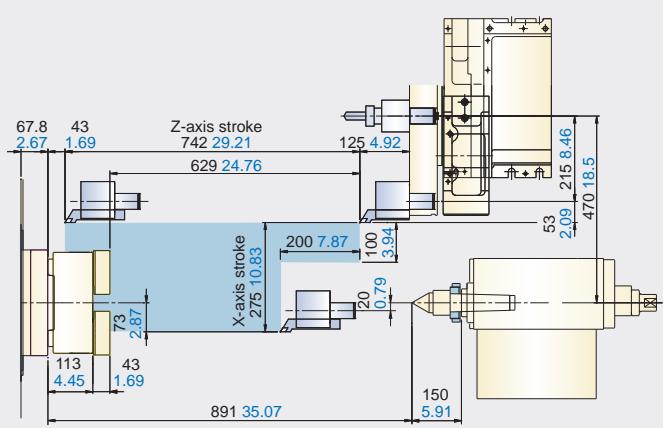
O.D. Turning Tool



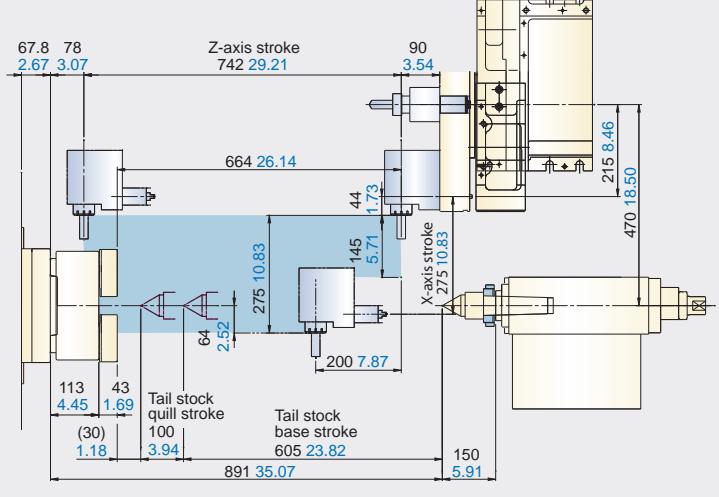
Boring Tool



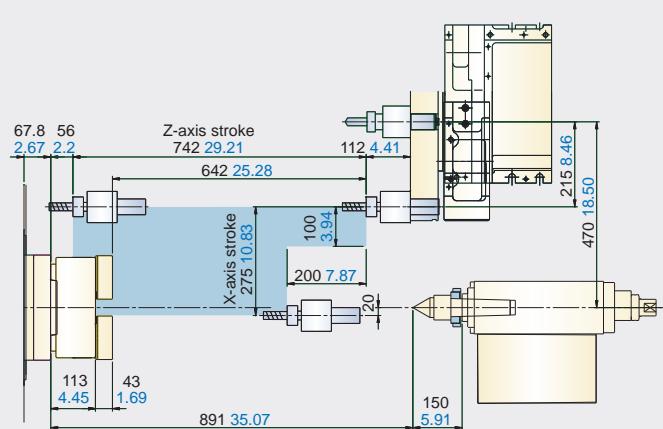
Face Tool



Radial Drive Tool

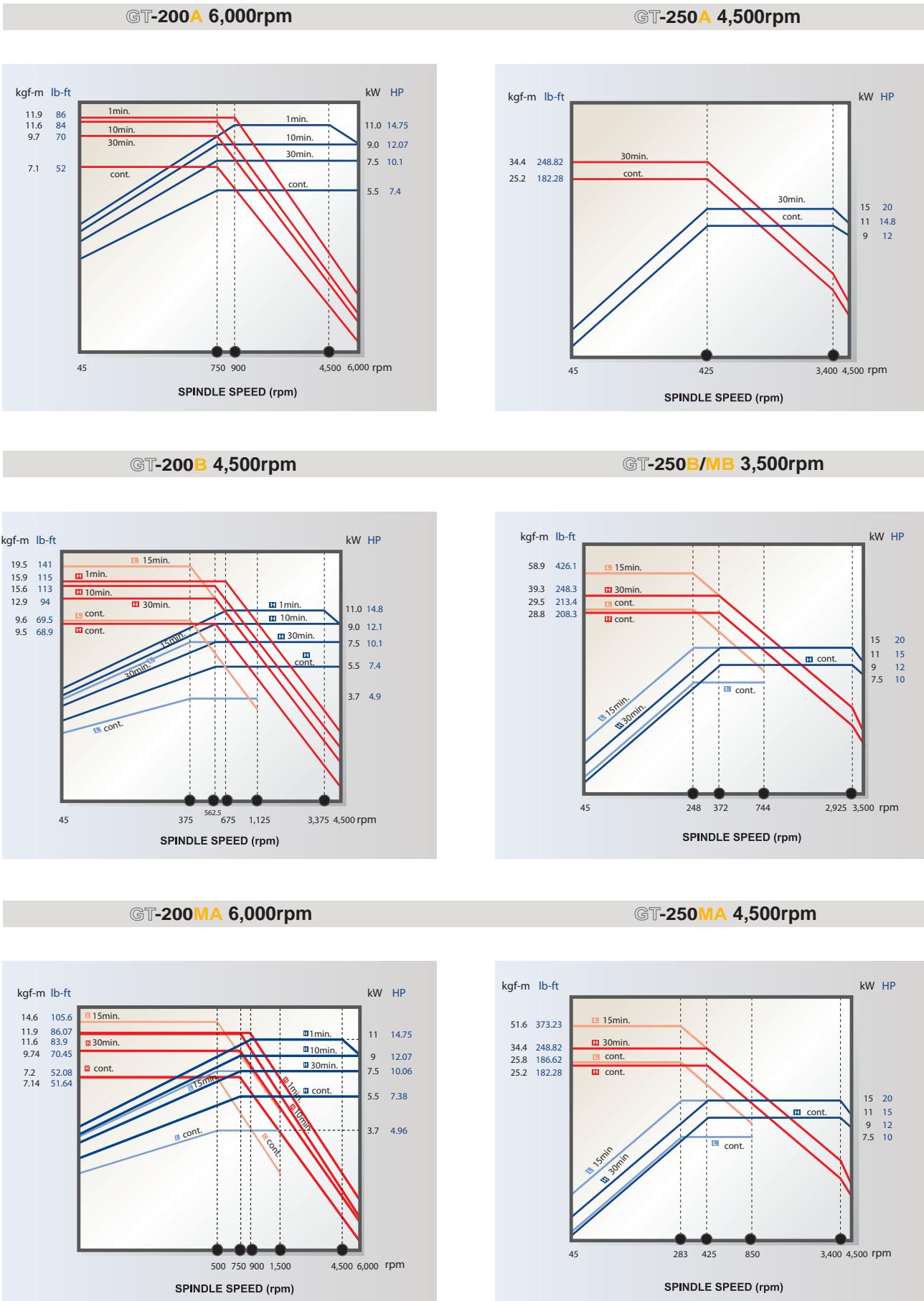


Axial Drive Tool



Spindle Motor Torque Chart

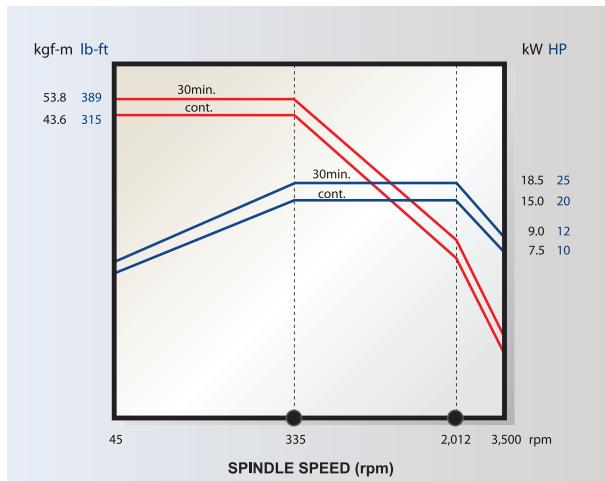
POWER **TORQUE**
■ High Speed ■ High Speed
■ Low Speed ■ Low Speed



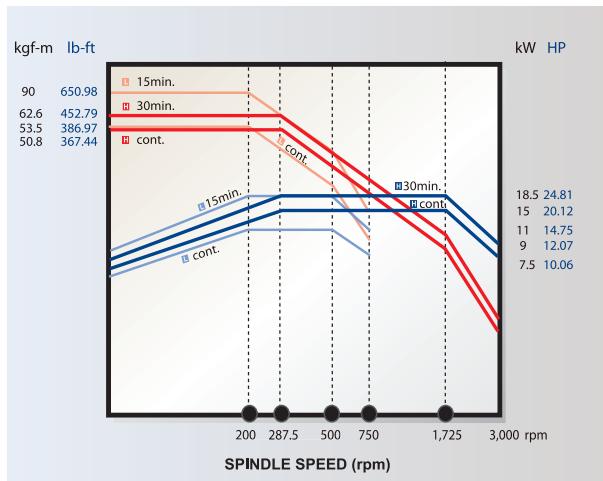
Spindle Motor Torque Chart

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

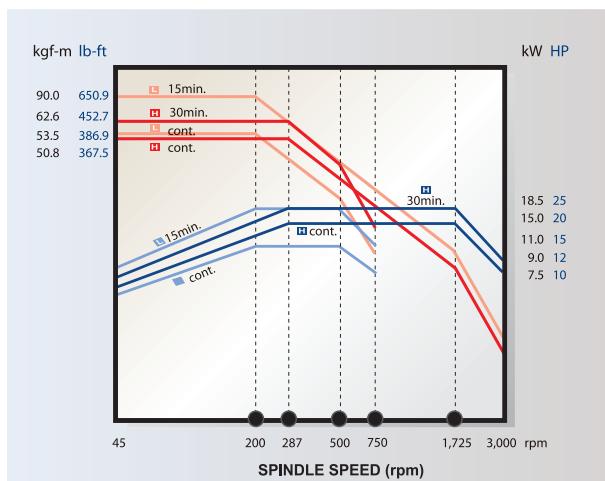
GT-300A/LA 3,500rpm



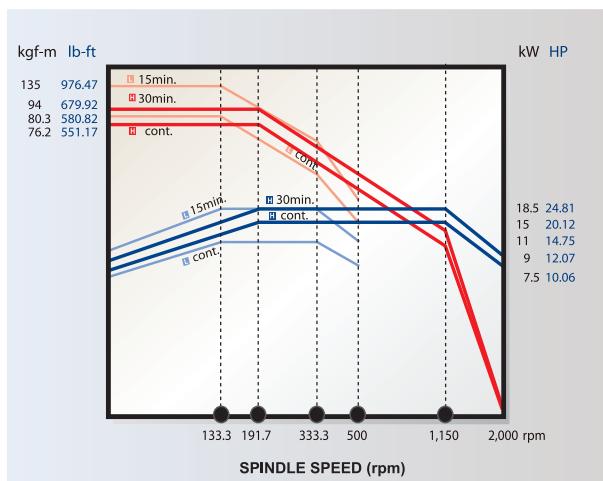
GT-380A/LA 3,000rpm



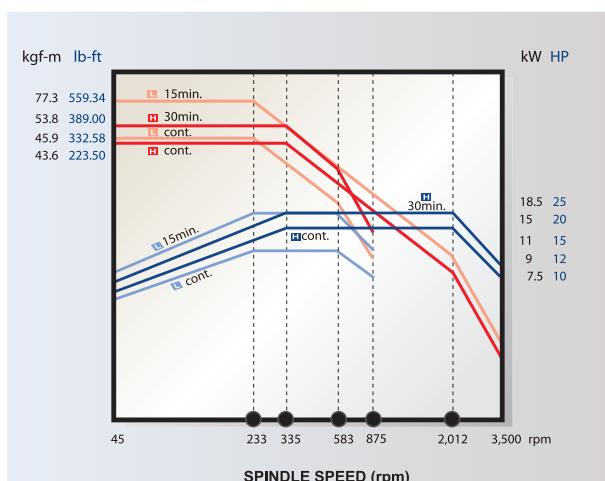
GT-300B/LB/MB/LMB 3,000rpm



GT-380B/LB 2,000rpm



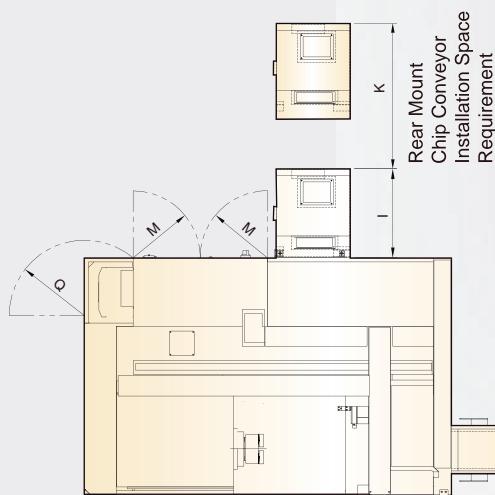
GT-300MA/LMA 3,500rpm



Machine Dimensions

Unit: mm inch

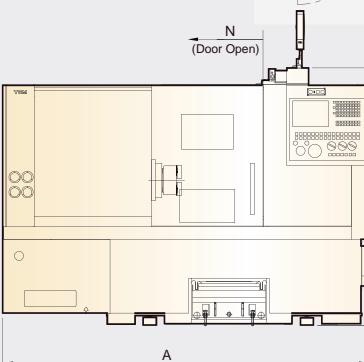
► GT-200A/B/MA , GT-250A/MA , GT-250B/MB



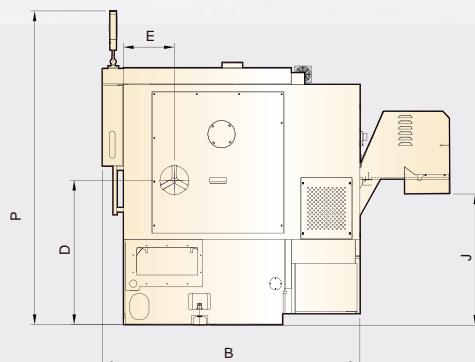
Reference Model	A	B	C	D	E	F	G	H
GT-200A/B/MA	2,215 87.2"	1,805 71.06"	1,835 72.24"	1,020 40.16"	333 13.11"	1,060 41.73"	1,350 53.15"	974 38.35"
GT-250A/MA	2,680 105.51"	1,885	1,885	1,060	375	1,030	1,630	980
GT-250B/MB	2,750 108.27"	74.21"	74.21"	41.73"	14.76"	40.55"	64.17"	38.58"

Reference Model	I	J	K	L	M	N	P	Q
GT-200A/B/MA	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	650 25.59"	960 37.8"	1,150 45.28"	530 20.87"	490 19.29"	760 29.92"	2,300 90.55"	550 21.65"
GT-250B/MB								

Due to the design variation, dimensional drawings shown here are for references only.
Note: This is aesthetic sheet metal.



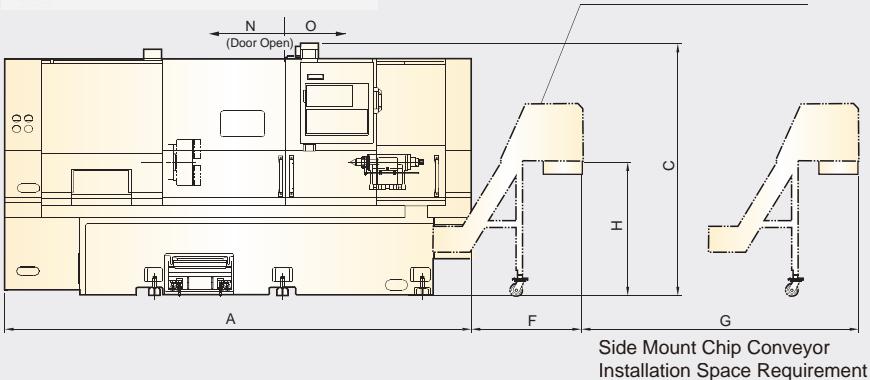
Side Mount Chip Conveyor Installation Space Requirement



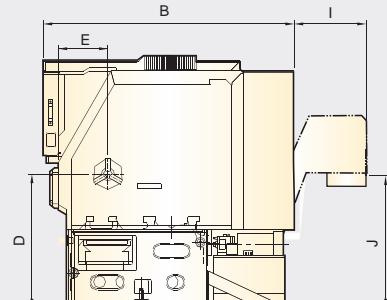
► GT-300LA/LB , GT-300LMA/LMB , GT-380LA/LB



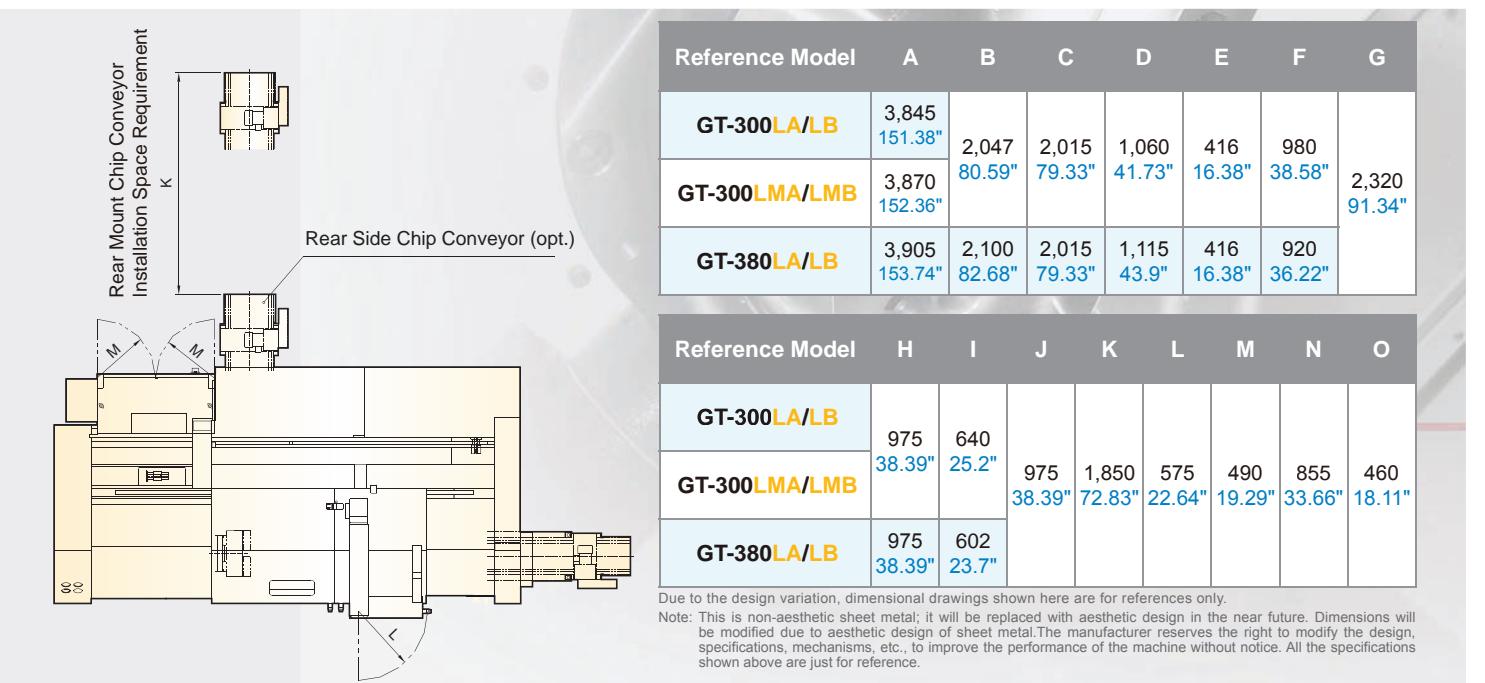
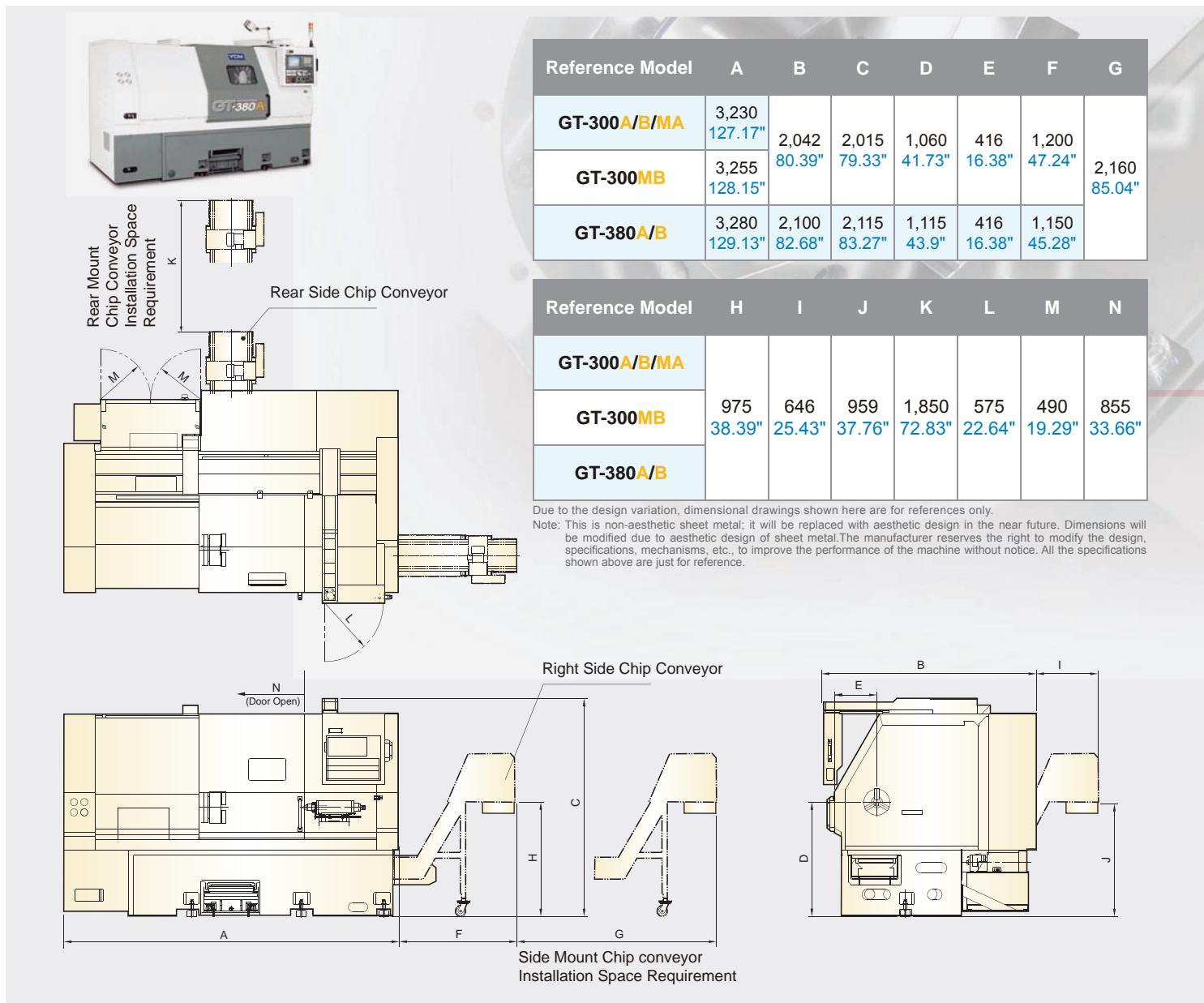
Right Side Chip Conveyor



Side Mount Chip Conveyor Installation Space Requirement



► GT-300A/B/MA , GT-300MB , GT-380A/B



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)	20.5 kVA (25 kVA)	24.92kVA (30kVA)	20.5 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 $\varnothing 2.44"$ ($\varnothing 77$ mm ^{*2} $\varnothing 3.03"$ * ²)					
Hole Through Draw Tube	$\varnothing 52$ mm $\varnothing 2.05"$ ($\varnothing 66$ mm ^{*2} $\varnothing 2.6"$ * 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 $20.28"$	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 $16.34"$	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			

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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 $\varnothing 23.62"$													
Swing Over Carriage	$\varnothing 450$ mm $\varnothing 17.72"$													
Max. Turning Diameter	$\varnothing 440$ mm ($\varnothing 360$ mm*) $\varnothing 17.32"$ ($\varnothing 14.17"$ *)		$\varnothing 360$ mm $\varnothing 14.17"$		$\varnothing 440$ mm ($\varnothing 360$ mm*) $\varnothing 17.32"$ ($\varnothing 14.17"$ *)		$\varnothing 360$ mm $\varnothing 14.17"$							
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 $\varnothing 5.12"$				$\varnothing 160$ mm $\varnothing 6.3"$									
Hole Through Spindle	$\varnothing 88$ mm $\varnothing 3.46"$				$\varnothing 105$ mm $\varnothing 4.13"$									
Hole Through Draw Tube	$\varnothing 75$ mm $\varnothing 2.95"$				$\varnothing 91$ mm $\varnothing 3.58"$									
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 $9.65"$ (275 mm*)(10.83" *)		275 mm $10.83"$		245 mm $9.65"$ (275mm*)(10.83" *)		275 mm $10.83"$							
Z-axis Travel	712 mm 28.03" (742 mm*)(29.21" *)	1,262 mm 49.69" (1,292mm*)(50.87" *)	742 mm 29.21"	1,292 mm 50.87"	700 mm 27.56" (730mm*)(28.74" *)	1,250 mm 49.21" (1,280mm*)(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	$\square 25$ mm $\square 1"$				$\square 32$ mm $\square 1&1/4"$ ($\square 25$ mm*)($\square 1"$ *)	$\square 25$ mm $\square 1"$								
Shank Diameter for Boring Bar	$\varnothing 50$ mm $\varnothing 2"$ ($\varnothing 40$ mm*)($\varnothing 1.57"$ *)			$\varnothing 40$ mm $\varnothing 1&1/2"$		$\varnothing 50$ mm $\varnothing 2"$ ($\varnothing 40$ mm*)($\varnothing 1.57"$ *)	$\varnothing 40$ mm $\varnothing 1&1/2"$							
Swing Over Turret	$\varnothing 620$ mm $\varnothing 24.41"$ ($\varnothing 650$ mm*)($\varnothing 25.59"$ *)			$\varnothing 650$ mm $\varnothing 25.59"$		$\varnothing 610$ mm $\varnothing 24.02"$ ($\varnothing 650$ mm*)($\varnothing 25.59"$ *)	$\varnothing 650$ mm $\varnothing 25.59"$							
VDI Live Tool Speed	-		3,000 rpm		-		3,000 rpm							
Torque of Milling Tool Motor	-		3.57 kgf-m 25.82 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 $\varnothing 3.94"$													
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*) (45.35" *)	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						

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All the specifications shown above are just for reference.

GT Series Specifications

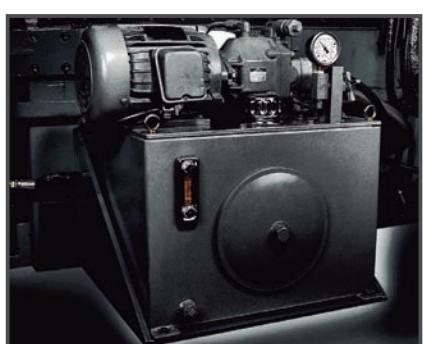
ITEMS	GT-380A	GT-380B	GT-380LA	GT-380LB
MACHINING CAPACITY				
Swing Over Bed		ø700 mm ø27.56"		
Swing Over Carriage			ø570 mm ø22.44"	
Max. Turning Diameter			ø560 mm ø22.05"	
Max. Turning Length	715 mm 28.15"	680 mm 26.77"	1,265 mm 49.8"	1,230 mm 48.43"
Distance Between Center	891 mm 35.08"		1,441 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

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All the specifications shown above are just for reference.

Accessories Table

● : Standard ○ : Optional — : None

	GT-200A/B	GT-200MA	GT-250A/B	GT-250MA
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	—	— ○	— ○
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 Conveyor	○	○	○	○



Hydraulic System

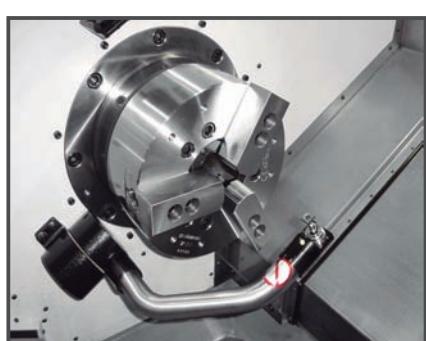


Central Lubrication System

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 Center Shaft	Stationary Quill Type (w/ MT-5 Live Center) Live Quill Type (w/ MT-4 Dead Center)	● ○	● ○
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 Conveyor	○	○	—



Auto Tool Length Measurement System



Chip Conveyor