

GHT SERIES

-Box way type Turning lathe

GHT220/M GHT260/M GHT310/L GHT360



SUZHOU GUDWAY CNC EQUIPMENT CO.,LTD

Add : No. 21 Xiexin Road, New District, Suzhou City, Jiangsu Province, China.
Tel : +86-0512-65580060
Email : info@gudwaycnc.com
Web : <http://www.gudwaycnc.com>



Technical Leader

The GHT series, designed and manufactured based on years of professional experience and the latest technology, makes the machine a turning center that can maximize production and performance.

ITEM	SPINDLE					BED (Z)			Servo tool tower		Milling cutter tower
	8"	10"	12"	15"	580mm	680mm	1,350mm	10position	12position	BMT55	
GHT220	•					•				•	
GHT220M	•					•				•	•
GHT260		•				•				•	
GHT260M		•				•				•	•
GHT310			•				•			•	
GHT310M			•				•			•	•
GHT360				•				•	•		

GHT series

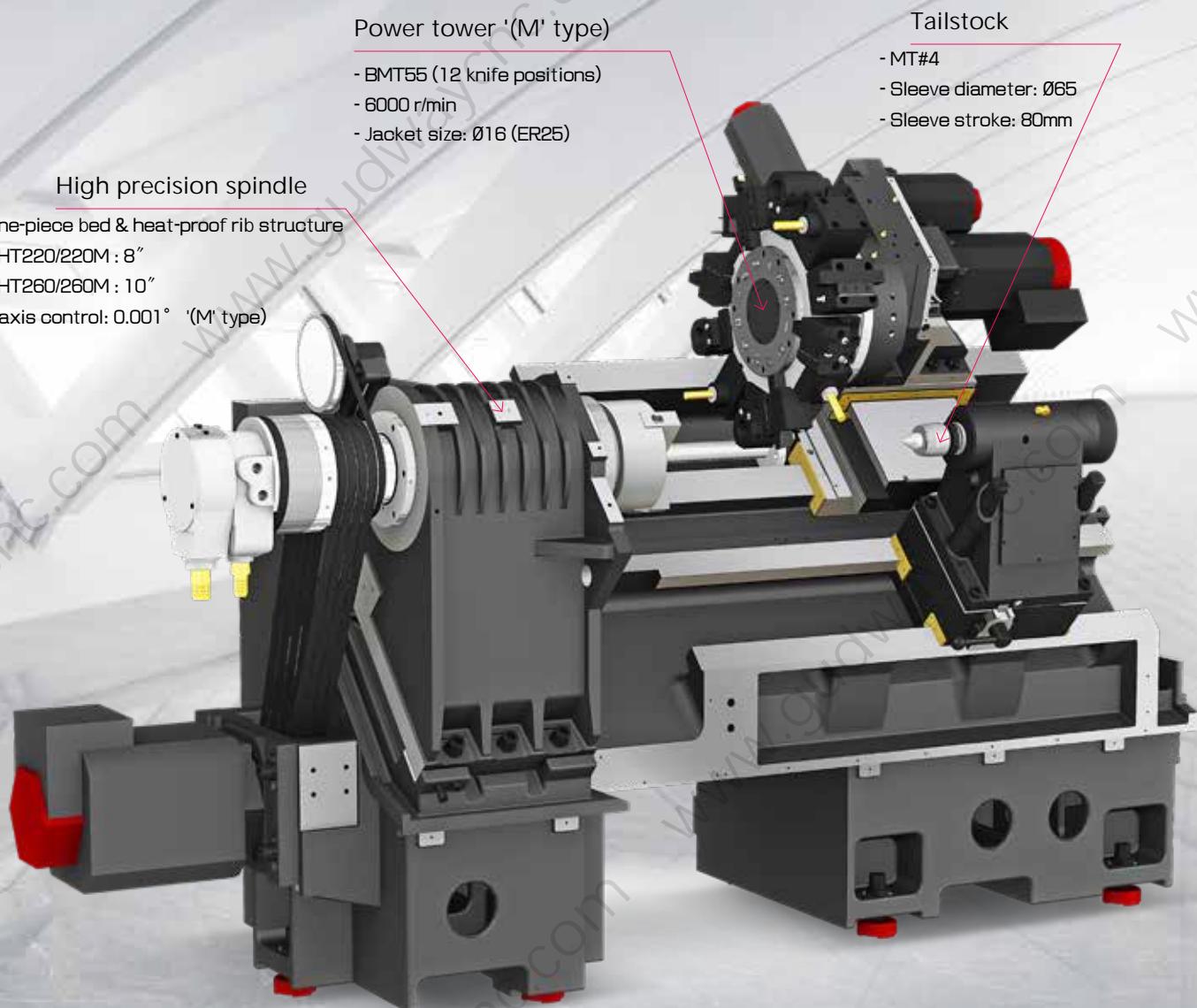
A new generation of high precision CNC lathe for heavy cutting

- Hard rail to achieve strong heavy cutting characteristics
- Optimized design of each unit structure to minimize thermal deformation
- At the same time, the mechanical structure is easy to achieve highly productive operations and can be extended
- Strong fast moving speed: 30m/min (Z-axis)
- High speed servo cutter with excellent rigidity (cutter tray width increases)
- Ergonomic structure design is easy to operate and maintain



01 GHT220/260 series

8 inch /10 inch heavy machinable CNC turning center with productivity



Suitable for heavy cutting high-precision machining structure

One-piece bed

High precision and high rigidity integrated bed

The 45° inclined bed with square and cylindrical reinforcement structure greatly improves the retention of high rigidity. The ability to absorb vibration is outstanding, and can maintain high accuracy while carrying out heavy cutting.

Integrated cutting fluid tank

The cutting fluid box is installed in front of the bed, improving the ease of use, while the iron filings can be cleaned on the right side of the machine.



Guide rail

Hard rail

All axes of the GHT220/260series use a hard rail design with good mobility. Especially in the heavy cutting process, it can offset the vibration transmitted from the feed shaft, which can meet the high precision product processing.

Seal GIB structure

The GHT220/260series X-axis guide mounting surface adopts the sealed GIB structure, which can minimize the damage caused by the chip of the X-axis guide and improve the processing capacity.

Z-axis high-performance motor

The feed capacity of the Z-axis is greatly enhanced by the installation of a high-performance servo motor.

(Z-axis fast moving speed: 30 m/min)



Fast moving speed (X/Z)

24/30 m/min

Travel (X/Z)

235/580 mm

02 GHT310/GHT360 series

12 inch /15 inch heavy machinable CNC turning center with productivity

Turret

- GHT310/310M : 12 tool positions
- GHT360 : 10 tool positions
- OD/ID : □25/Ø50
- BMT55 : 6,000 r/min (GBT310M)
- Jacket size : Ø16 (ER25)

Tailstock

- MT#5
- Sleeve diameter: Ø100
- Sleeve stroke: 120mm

High precision spindle

- One-piece bed & heat-proof rib structure
- GHT310/310M: 12 "(3,000 r/min)
- GHT360:15" (2,500 r/min)
- C Axis control: 0.001° '(M' type)



Suitable for heavy cutting high-precision machining structure

One-piece bed

Optimal structural analysis

Through structural analysis, the main unit structure is optimized, the height of the equipment is reduced, and the dynamic rigidity of the bed can be maintained in the process of heavy cutting. Moreover, GHT310/3608series adopts a 30°tilt inclined bed, which greatly improves its processing stability.



Integrated cutting fluid tank

The cutting fluid box is installed in front of the bed, improving the ease of use, while the iron filings can be cleaned on the right side of the machine.

Guide rail

Hard rail

The whole shaft adopts hard rail, and the heavy cutting process also has excellent vibration absorption capacity, ensuring the processing of high quality products. Special Z axis through the long axis design, the processing of products with long axis length shows superior performance.

Seal GIB structure

The X-axis guide mounting surface adopts the sealed GIB structure, which can minimize the damage caused by the chip of the X-axis guide and improve the processing capacity.

Fast moving speed (X/Z)

24/30 m/min



The 6-side constraint design improves mobility

Travel (X/Z)

GHT310/310M

265/680 mm

GHT360

295/1,350 mm

03High precision spindle

High precision spindles that consistently maintain high precision and excellent performance over a long period of time



Spindle

[] : OP

Item	Speed	Power (Max/continuous)	Torque (Max.)	Drive
GHT220 series	4,000 r/min	18.5/15 kW	206/125.3 N·m	Belt type
	[4,000 r/min]	[18.5/15 kW]	[353.2/214.8 N·m]	
GHT260 series	3,000 rpm	18.5/15 kW	300.2/182.6 N·m	
GHT310 series	3,000 rpm	18.5/15 kW	470.9/286 N·m	
GHT360	2,500 rpm	26/18.5 kW	1,123/657 N·m	Gear
	[2,500 rpm]	[35/22 kW]	[1,613/1,014 N·m]	

Heavy cutting & High precision

Spindle

Special spindle for heavy cutting

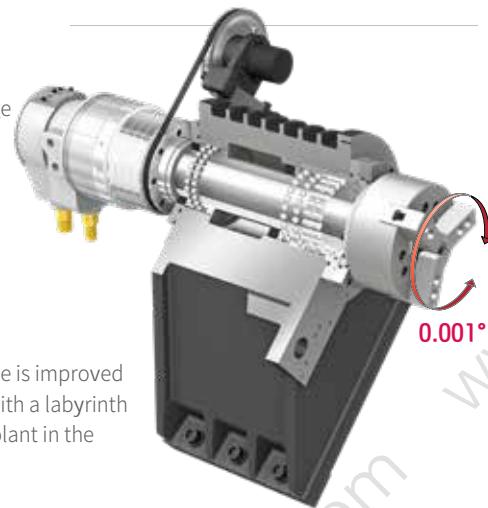
The spindle design uses a structural design usually found in large machine tools, and the combination of cone roller bearings and angular contact ball bearings results in excellent heavy cutting capability. In particular, the GHT360 offers the option of a gear-type spindle, [gear type torque :1,613 N.m] to meet customer requirements for powerful heavy cutting functions.

RIBSTAR multi-wedge belt

By adopting RIBSTAR multi-wedge belts, machining performance is improved and belt slip problems are minimized. The spindle is designed with a labyrinth structure to reduce possible bearing damage caused by the coolant in the spindle and improve machining stability.

C axis control (GHT220M/260M/310M)

By using the standard C-axis 0.001° control function on the spindle, products of all shapes are guaranteed to be processed.



Tailstock

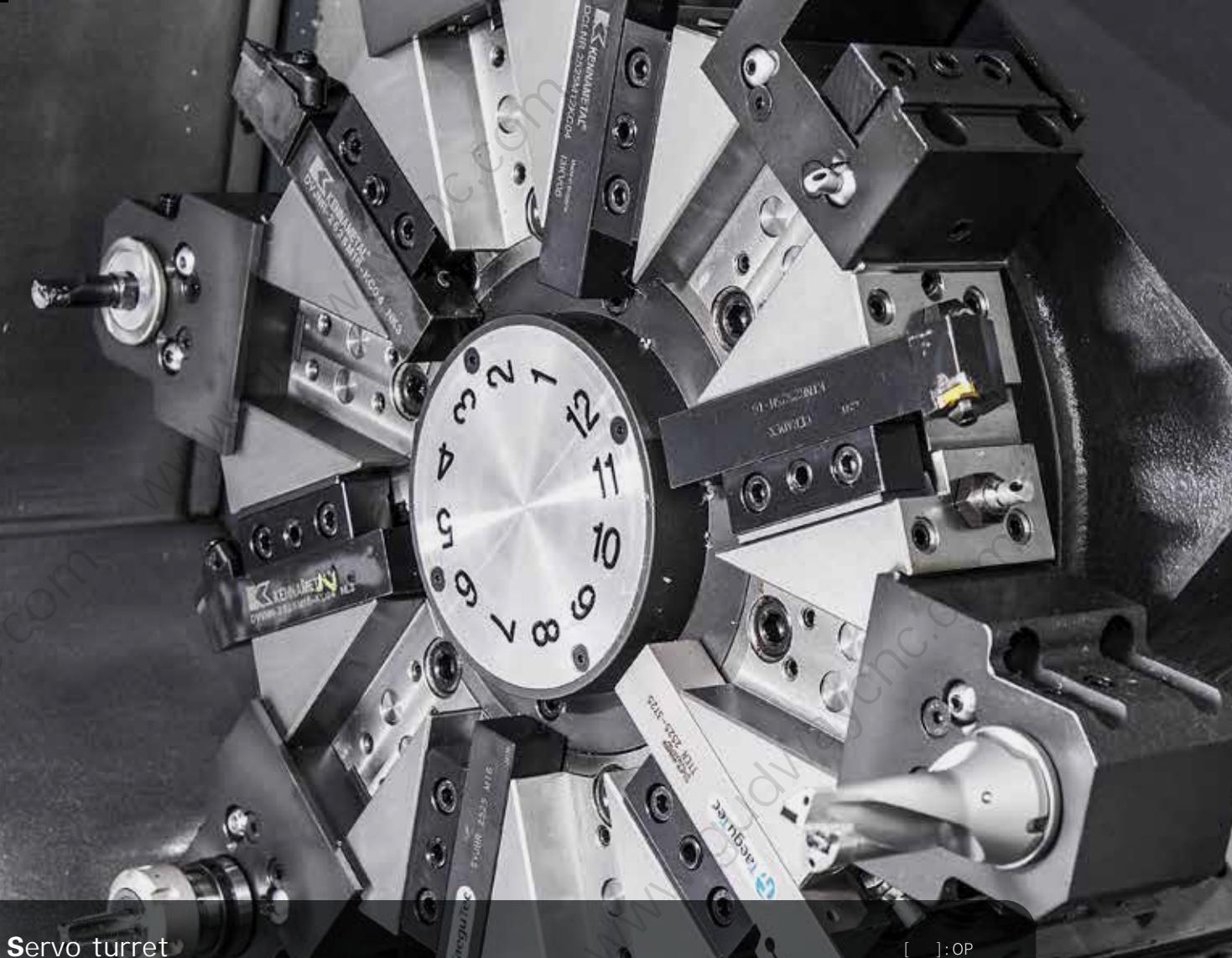
GHTseries standard tailstock can achieve high quality and stable processing of products and tailstock sleeve travel up to GHT220/260: 80mm, GHT310/310M/ 360:120mm, greatly expanding the range of support.

Item	GHT220/260series	GHT310/360series
Taper	MT#4 tailstock	MT#5 tailstock
Sleeve dia	Ø65 mm	Ø100 mm
Sleeve travel	80 mm	120 mm



04 Servo turret

High reliability servo tool tower with high speed and high precision



Servo turret

[] : OP

Number of tools installed

12 EA

Tool specifications (OD/OD)

□ 25/Ø40 mm

Indexing time

0.12 sec

GHT360 : 10 EA

GHT310/310M/360 : □ 25/Ø50 mm

Power tower parameters

Model	Max Speed	Power (Max/continuous)	Torque (Max/continuous)	Jacket size
BMT55	6,000 rpm	5.5/3.7 kW	52.5/26.5 N·m	Ø16 (ER25)

High precision cutter tower controlled by servo motor

Turret

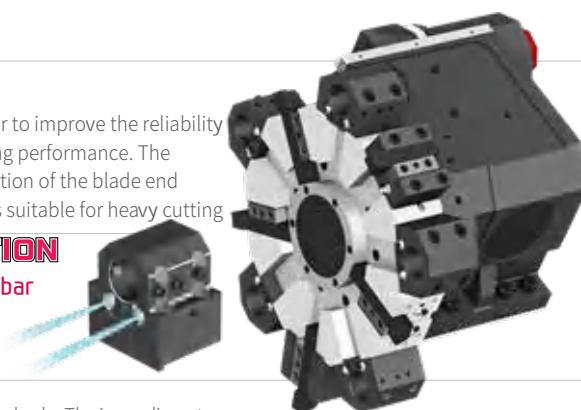
Servo tool tower

The tool tower adopts high-performance AC servo motor to improve the reliability of machining. The 3-piece coupling shows good indexing performance. The powerful tool clamping force can minimize the deformation of the blade end caused by the load, and the outstanding performance is suitable for heavy cutting.

OPTION

20Bar high pressure coolant **20bar**

The turret structure, which can be used smoothly even under high pressure of up to 20bar, shows excellent performance in machining difficult-to-cut materials.



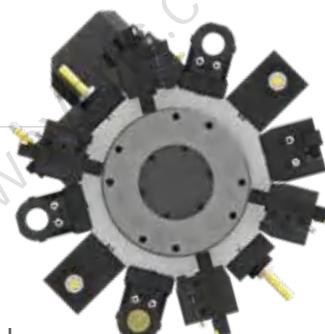
Rigidity is enhanced by increasing the width of the tool tray body. The inner diameter was increased by 20% and the outer diameter by 3%



Power tool tower

BMT55 (GHT220M/260M/310M)

The BMT turret uses 4 bolts to firmly hold the tool holder, which provides excellent performance during heavy cutting, and the use of power tools enables high value-added product processing.



Driven Tool

Machining capacity is greatly enhanced with axial and radial milling power heads for machined product sides and inside diameters. Moreover, it can install a variety of rotary tools such as drill, tap, end mill, etc., which can significantly improve productivity and processing efficiency.



A variety of rotary tools

OPTION

GHT220/260/310series Machining of high value-added products with a wide range of rotary tools. In particular, the compound tool holder that can be installed with a variety of tools on a tool holder can be applied from the eccentric rotary tool that can process the eccentric part without the movement of another shaft to the drilling inclined hole and the hobbing tool holder, so as to realize the intensification of multiple processes with one device.

05 Convenience

Diversified configuration, customers more convenient to use

Rod transfer system

Rod conveyor

It can realize the unmanned processing of bar material and greatly improve the efficiency of processing.



Feeder

The single processed product after processing the bar material is automatically connected to the device outside the equipment for easy operation.



Auto door

The M code enables automatic opening and closing of doors, improving energy efficiency and convenience when equipped with automation.



Discharge conveyor track

The finished parts connected by the feeder are automatically moved to the workpiece bin to improve the working efficiency.



Automatic

When the truss manipulator group automatic line is used, it is not necessary to open the entire door, and automation can be formed by automatic shutter.

High precision system



Auto tool setting gauge

With the M code, operators can quickly and accurately implement tool compensation. Therefore, there is no need to test cutting, detection, calculation, input compensation value and other work, beginners can compensate within 30 seconds.



Linear grating ruler

The linear grating ruler can achieve high precision positioning and compensate the thermal deformation of the ball screw, which can be processed more precise products.



Job measuring device

By detecting the contact signal between the device and the workpiece, the processing basis of the workpiece is measured, and the coordinate value of the basic coordinate system is automatically set.

Optional



Chip removal solutions

Chip-conveyor

With the development of CNC machines and cutting tools, the effective treatment of a large number of chips generated by processing equipment can improve production efficiency and improve the working environment and working conditions.

Hinge	Chip type: rough processing chip, strip chip, compound chip	Material: SS41, 45C, cast steel	Forward right/ rear discharge	
It is beneficial to deal with the large amount of chips and the phenomenon of chips together.				
Scraper	Chip type: Easy broken chip	Material: Cast iron, non-iron		
	Easy to handle chip breakage.			
Spiral	Chip type: Fine chip with low specific gravity	Material: Steel, castings		
	The chips are compressed and discharged, and the situation of the chips curling and winding is less.			
Drum filter	Chip type: Powder, fine chip	Material: Aluminum		
	Fine chips will not flow into the cutting fluid nozzle, which is conducive to machining accuracy.			

Cooling Unit & ECO system



Standard coolant (nozzle)



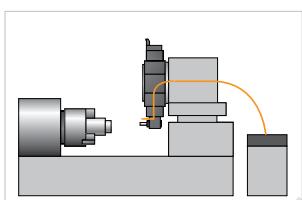
Coolant above chuck



Blow air above the chuck



Air gun



MQL: Minimal lubrication



Oily water separating installation



Oil mist collector



Oil lubricator

Technical Specifications

Standard & Optional

Spindle		GHT220	GHT260
Spindle hollow chuck 3 jaw	8"	●	-
	10"	○	●
	12"	-	☆
	15"	-	-
Standard soft claw (set)		●	●
High torque spindle (353 N·m)		○	-
Chuck clamp foot switch		●	●
2 stage pressure hydraulics		○	○
Spindle built-in quasi-stop block		☆	☆
Chuck clamp/release confirmation device		○	○
2 stage chuck foot switch		○	○
Turret			
Holder		●	●
Milling cutter tower	BMT	-	-
Straight milling head	Chuck type, 1ea	-	-
Angle milling head (radial)	Chuck type, 1ea	-	-
Straight milling head	Adapter type	-	-
Angle milling head (radial)	Adapter type	-	-
Reduction sleeve		●	●
Sleeve		●	●
U Drill tool base		●	●
U drill sleeve		●	●
U Drill end cover		○	○
OD extension tool holder	OD diameter	●	●
Angle head		-	-
Tail seat & center cage			
Sleeve type tailstock	MT#4	●	●
Built-in tailstock	MT#5	○	○
Built-in tailstock	MT#4	○	○
Programmable tail seat		○	○
Manual hydraulic center frame		☆	☆
Standard live center (tail seat: standard)		●	●
High precision live center		-	-
Sleeve forward/backward confirmation device		○	○
Tail seat foot switch		○	○
Cooling unit & blowing unit			
Standard cooling unit		●	●
Coolant above chuck		○	○
Coolant gun		○	○
Spindle center outlet (for special chucks only)		☆	☆
Power tool center water		-	-
Air blowing device above chuck		○	○
Tailstock blow (top)		○	○
Turret blows		☆	☆
Air gun		○	○
Spindle center air blower (for special chucks only)		☆	☆
Standard coolant	0.4Bar	●	●
High pressure coolant	6Bar	○	○
	20Bar	○	○
Bed rinse coolant (only for rear chip extractor)	0.4Bar	○	○
	6Bar	○	○
Powerful cooling system (for automated operation)		☆	☆
Coolant unit (auxiliary water tank for chip remover)		☆	☆
Chip removal			
Cutting fluid tank or coolant tank	Lateral	●	●
	Rear	○	○
	Side (20bar)	○	○
	Rear (20bar)	○	○
Chip-conveyor (Tank location/chip handling)	Front (right discharge)	○	○
	Rear (rear discharge)	○	○
Special chip extractor		☆	☆

	ST (180 ℥)	○	○
Chip cart	Reverse(200 ℥)	○	○
	Plus big flip(370 ℥)	○	○
	Extra large size (470 ℥)	○	○
	Customized	☆	☆
Safety device	GHT220	GHT260	
Full protection	●	●	
Electrical installation			
Monochrome warning light	1color :	●	●
3-color light with buzzer	3color :	○	○
Electric cabinet lighting		○	○
Portable hand wheel		☆	☆
Job counter	digit	○	○
Total counter	digit	○	○
Tool counter	digit	○	○
Compound tool counter	digit	○	○
Leakage protection device		○	○
AVR (Automatic Voltage Regulator)		☆	☆
Transformer	25kVA	○	○
Auto Power Off (Auto Power Off)		○	○
Measurement			
Manual fast tool setting instrument		○	○
Automatic Fast Tool Setting Instrument (Renishaw)		○	○
Airtight testing device (For special chucks only)	SMC	○	○
Aut workpiece measuring	OLP40	○	○
Linear grating ruler	X	○	○
	Z	○	○
Coolant detection (for chip extractor, float type only)		☆	☆
Thermal deformation compensation	4-channel	○	○
Environmental			
Electric cabinet air conditioning		○	○
Oil mist collector		○	○
Oil-water separator		○	○
MQL (minimal quantities of lubricant)		☆	☆
Fixtures and automation devices			
Auto door		○	○
Automatic shutter (for automated systems only)		○	○
Secondary operation panel		☆	☆
Bar conveyor interface		○	○
Bar conveyor		☆	☆
Work ejector device		☆	☆
Extra M-code 4ea		○	○
Automation Interface		☆	☆
I/O module expansion (in / out) 24/16		○	○
Feeder	Spindle	○	○
Turret push device (automatic)		☆	☆
Discharge transfer device (spindle side adapter required)		☆	☆
Front simple automation		☆	☆
Hydraulic device			
Standard hydraulic cylinder	Hollow	●	●
Standard hydraulic unit	35bar/13 ℥	●	●
Software			
Instruction (HW-MCG)		○	○
Energy Saving System (HW-ESS)		○	○
Tool monitoring (HW-TM)		○	○
DNC software (HW-eDNC)		○	○
Monitoring system (HW-MMS)		○	○
Interactive routine (HW-DPRO)		○	○
Other			
Adjust tools and toolboxes		●	●
Custom Colors	Munsel NO.	☆	☆
CAD&CAM software		☆	☆

When high pressure coolants above 6bar are used, a 4-channel thermal deformation compensation device is recommended for high quality product processing.

❖

Performance parameters are subject to change without notice.



Control system

Standard & Optional

Spindle	GHT220M	GHT260M
Spindle hollow chuck 3 jaw	8"	●
	10"	○
	12"	-
	15"	-
Standard soft claw (set)	●	●
High torque spindle (353 N·m)	○	-
Chuck clamp foot switch	●	●
2 stage pressure hydraulics	○	○
Spindle built-in stop block	☆	☆
C-axis control Spindle box (0.001)°	●	●
Chuck clamp/release confirmation device	○	○
2 stage chuck foot switch	○	○
Turret		
Tool holder	●	●
Milling cutter tower	BMT	●
Straight milling head	Chuck type, 1ea	●
Angle milling head (radial)	Chuck type, 1ea	●
Straight milling head	Adapter type	○
Angle milling head (radial)	Adapter type	○
Reducing sleeve	●	●
Sleeve	-	-
U Drill tool base	●	●
U drill sleeve	●	●
U Drill end cover	○	○
OD extension tool holder	For outside diameter	-
Angle head	☆	☆
Tail seat & center cage		
Sleeve type tailstock	MT#4	●
	MT#5	○
Built-in tailstock	MT#4	○
Programmable tail seat	○	○
Manual hydraulic center frame	-	-
Standard live center (tail seat: standard)	●	●
High precision live center	-	-
Sleeve forward/backward confirmation device	○	○
Tail seat foot switch	○	○
Cooling unit & blowing unit		
Standard cooling unit	●	●
Coolant above chuck	○	○
Coolant gun	○	○
Spindle center outlet (for special chucks only)	☆	☆
Power tool center water	○	○
Air blowing device above chuck	○	○
Tailstock blow (top)	○	○
Turret blows	☆	☆
Air gun	○	○
Spindle center air blower (for special chucks only)	☆	☆
Standard coolant	0.4Bar	●
	6Bar	○
High pressure coolant	20Bar	○
Bed rinse coolant (only for rear chip extractor)	0.4Bar	○
	6Bar	○
Powerful cooling system (for auto operation)	☆	☆
Coolant unit (auxiliary water tank for chip remover)	☆	☆
Chip removal		
	Side	●
Cutting fluid tank / coolant tank	Rear	○
	Side(20bar)	○
	Rear(20bar)	○
Chip enclosure (Tank location/chip handling)	Front (right side discharge)	○
	Rear (rear discharge)	○
Special chip extractor	☆	☆

● : Standard ○ : Optional ☆ : Consult - : N/A

Chip cart	ST (180 ℥)	○	○
	REVERSE (200 ℥)	○	○
	LAGER REVERSE (370 ℥)	○	○
	LAGER (470 ℥)	○	○
	Custom	☆	☆
Safety device		GHT220M	GHT260M
Full protection		●	●
Electrical device			
Monochrome warning light	1color :	●	●
3 color light with buzzer	3color :	○	○
Electric cabinet lighting		○	○
Portable hand wheel		☆	☆
Counter	digit	○	○
TOTAL COUNTER	digit	○	○
Tool counter	digit	○	○
Compound tool counter	digit	○	○
Leakage protection device		○	○
AVR (Automatic Voltage Regulator)		☆	☆
Transformer	25kVA	○	○
(Auto Power Off)		○	○
Measurement			
Manual fast knife setting instrument		○	○
Automatic Fast Tool Setting Instrument (Renishaw)		○	○
Airtight testing device (For special chucks only)	SMC	○	○
Auto measuring device	OLP40	○	○
Linear grating ruler	X	○	○
	Z	○	○
Coolant detection (for chip extractor, float type only)		☆	☆
Thermal deformation compensation	4 Channel	○	○
Environmental			
Electric cabinet air conditioning		○	○
Oil mist collector		○	○
Oil-water separator		○	○
MQL (Micro-lubrication)		☆	☆
Fixtures and automation devices			
Auto door		○	○
Automatic shutter (for automated systems only)		○	○
Secondary operation panel		☆	☆
Bar conveyor interface		○	○
Bar conveyor		☆	☆
Work ejector device		☆	☆
Extra M- code 4ea		○	○
Automation Interface		☆	☆
I/O module expansion (in /out)	24/16	○	○
Feeder	Spindle	○	○
Turret push device (automatic)		☆	☆
Discharge transfer (spindle side adapter required)		☆	☆
Front simple automation		☆	☆
Hydraulic device			
Standard hydraulic cylinder	Hollow	●	●
Standard hydraulic unit	35bar/13 l	●	●
Software			
Instruction (HW-MCG)		○	○
Energy Saving System (HW-ESS)		○	○
Tool monitoring (HW-TM)		○	○
DNC software (HW-eDNC)		○	○
Machine Tool Monitoring System (HW-MMS)		○	○
Interactive Program (HW-DPRO)		○	○
Other			
Adjust tools and toolboxes		●	●
Custom Colors	Munsel NO.	☆	☆
CAD&CAM software		☆	☆

* When high pressure coolants above 6bar are used, a 4-channel thermal deformation compensation device is recommended for high quality product processing.
Performance parameters are subject to change without notice.

Technical Specifications

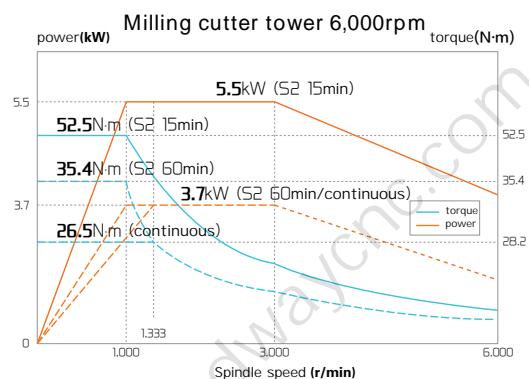
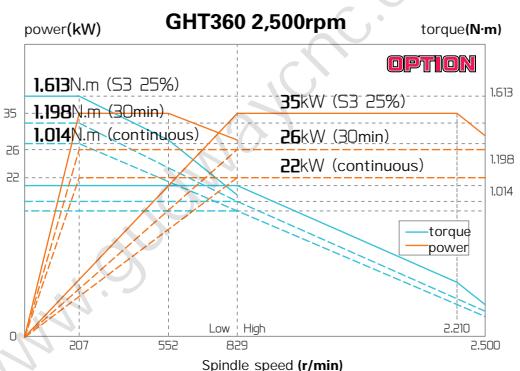
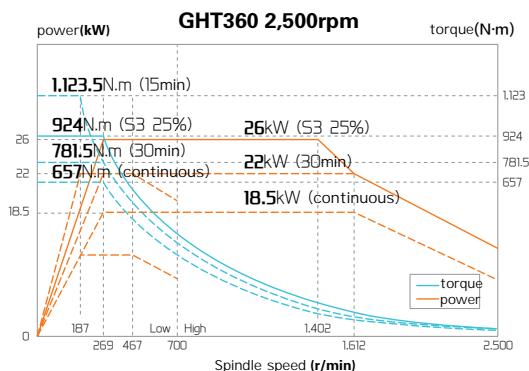
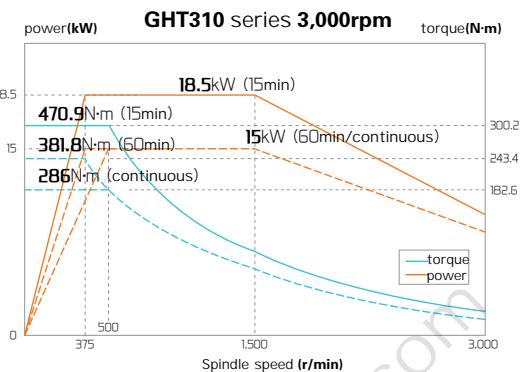
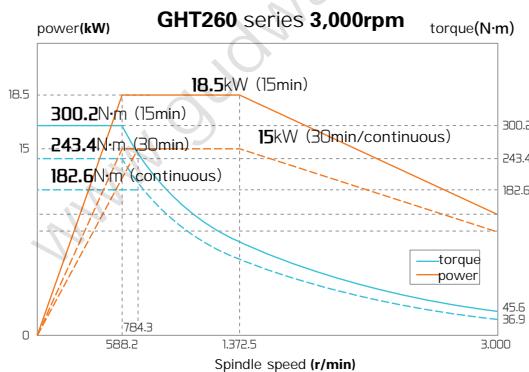
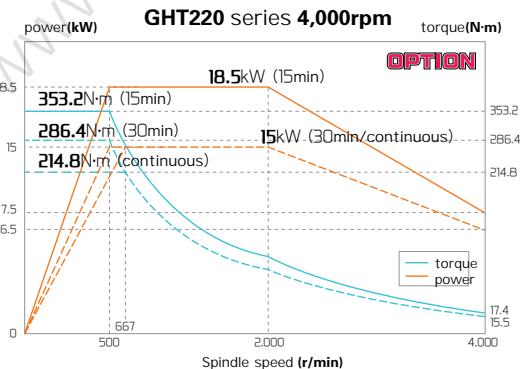
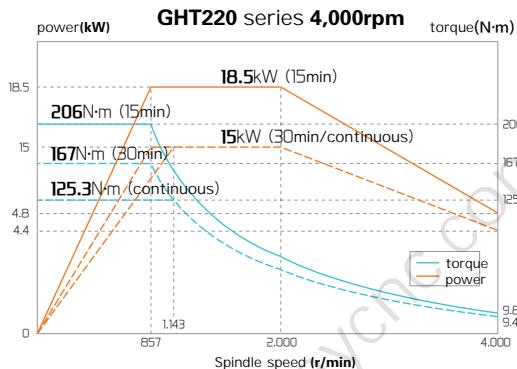
Standard & Optional

Spindle		GHT310	GHT310M	GHT360
Spindle hollow chuck 3 jaw	10"	-	-	-
	12"	●	●	-
	15"	☆	☆	●
	18"	-	-	☆
Standard soft claw (set)		●	●	●
High torque spindle (353 N·m)		-	-	-
Chuck clamp foot switch		●	●	●
2 stage pressure hydraulics		○	○	○
Spindle built-in quasi-stop block		☆	☆	☆
C-axis control headstock (0.001)°		-	●	-
Chuck clamp/release confirmation device		○	○	○
2 stage chuck foot switch		○	○	○
Turret				
Holder		●	●	●
Milling cutter tower	BMT	-	●	-
Straight milling head	Chuck type, 1ea	-	●	-
Angle milling head (radial)	Chuck type, 1ea	-	●	-
Straight milling head	Adapter type	-	○	-
Angle milling head (radial)	Adapter type	-	○	-
Reduction sleeve		●	●	●
Sleeve		●	-	●
U Drill tool base		●	●	●
U drill sleeve		●	●	●
U Drill end cover		○	○	○
OD extension tool holder	For outside diameter	●	-	●
Angle head		-	☆	-
Tail seat & center cage				
Sleeve type tailstock	MT#4	-	-	-
	MT#5	●	●	●
Programmable tail seat		○	○	○
Manual hydraulic center frame		-	-	-
Standard live center (tail seat: standard)		●	●	●
High precision live center		-	-	-
Sleeve forward/backward confirmation device		○	○	○
Tail seat foot switch		○	○	○
Cooling unit & blowing unit				
Standard cooling unit		●	●	●
Coolant above chuck		○	○	○
Coolant gun		○	○	○
Spindle center outlet (for special chucks only)		☆	☆	☆
Power tool center water		-	○	-
Air blowing device above chuck		○	○	○
Tailstock blow (top)		○	○	○
Turret blow		☆	☆	☆
Air gun		○	○	○
Spindle center air blower (for special chucks only)		☆	☆	☆
Standard coolant	0.4Bar	●	●	●
High pressure coolant	6Bar	○	○	○
	20Bar	○	○	○
Bed rinse coolant	0.4Bar	○	○	○
(only for rear chip extractor)	6Bar	○	○	○
Powerful cooling system (for auto operation)		☆	☆	☆
Coolant unit (auxiliary water tank for chip remover)		☆	☆	☆
Chip removal				
Cutting fluid tank or coolant tank	Side	●	●	●
	Rear	○	○	○
	Side (20bar)	○	○	○
	Rear (20bar)	○	○	-
chip cleaner (Tank location/chip handling)	Front (right side discharge)	○	○	○
	Rear (rear discharge)	○	○	-
Special chip extractor		☆	☆	☆
Chip cart	Standard	○	○	○
	Reverse	○	○	○
	Plus reverse	○	○	○
	Extra large size	○	○	○
	Custom	☆	☆	☆

Safety device		GHT310	GHT310M	GHT360
Full protection		●	●	●
Electrical device				
Monochrome warning light	1color:	●	●	●
3 color light with buzzer	3color: B	○	○	○
Electric cabinet lighting		○	○	○
Portable hand wheel		☆	☆	☆
Counter	digit	○	○	○
TOTAL COUNTER	digit	○	○	○
Tool counter	digit	○	○	○
Compound tool counter	digit	○	○	○
Leakage protection device		○	○	○
AVR (Automatic Voltage Regulator)		☆	☆	☆
Transformer	30kVA	○	○	○
(Auto Power Off)		○	○	○
Measurement				
Automatic Fast Tool Setting Instrument (Renishaw)		○	○	○
Airtight testing device (For special chucks only)	SMC	○	○	○
Auto measuring device	OLP40	○	○	○
Linear grating ruler	X	○	○	○
	Z	○	○	○
Coolant detection (for chip extractor, float type only)		☆	☆	☆
Thermal deformation compensation	4Channel	○	○	○
Environment				
Electric cabinet air conditioning		○	○	○
Oil mist collector		○	○	○
Oil-water separator		○	○	○
MQL (Micro-lubrication)		☆	☆	☆
Fixtures and automation devices				
Auto door		○	○	○
Automatic shutter (for automated systems only)		○	○	○
Secondary operation panel		☆	☆	☆
Bar conveyor interface		○	○	○
Bar conveyor		☆	☆	☆
Work ejector device		☆	☆	☆
Extra M-code 4ea		○	○	○
Automation Interface		☆	☆	☆
I/O module expansion (in/out)	24/16点	○	○	○
Feeder	Spindle	○	○	○
Turret push device (automatic)		☆	☆	☆
Discharge transfer (spindle side adapter required)		☆	☆	☆
Front simple automation		☆	☆	☆
Hydraulic device				
Standard hydraulic cylinder	Hollow	●	●	●
Standard hydraulic unit	35bar/13 l	●	●	●
Software				
Instruction (HW-MCG)		○	○	○
Energy Saving System (HW-ESS)		○	○	○
Tool monitoring (HW-TM)		○	○	○
DNC software (HW-eDNC)		○	○	○
Machine Tool Monitoring System (HW-MMS)		○	○	○
Interactive Program (HW-DPRO)		○	○	○
Other				
Adjust tools and toolboxes		●	●	●
Custom Colors	Munsel NO.	☆	☆	☆
CAD&CAM software		☆	☆	☆

♦ When high pressure coolants above 6bar are used, a 4-channel thermal deformation compensation device is recommended for high quality product processing.
Performance parameters are subject to change without notice.

Spindle motor power/torque diagram

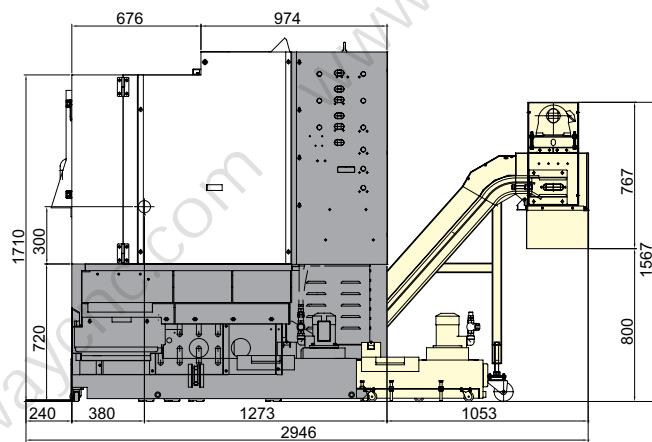
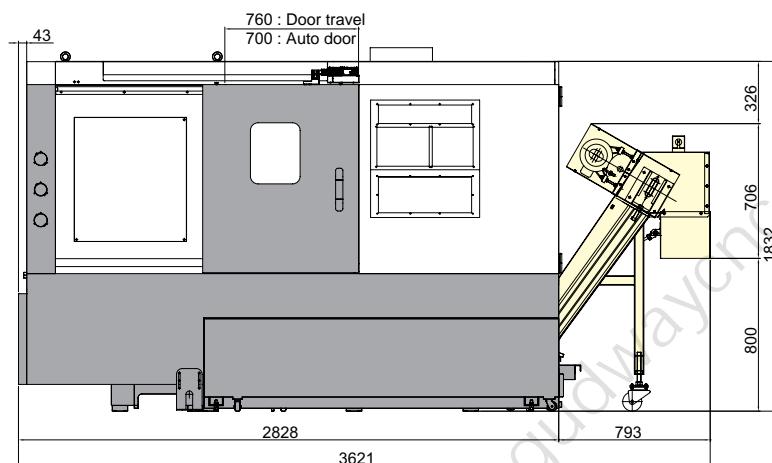
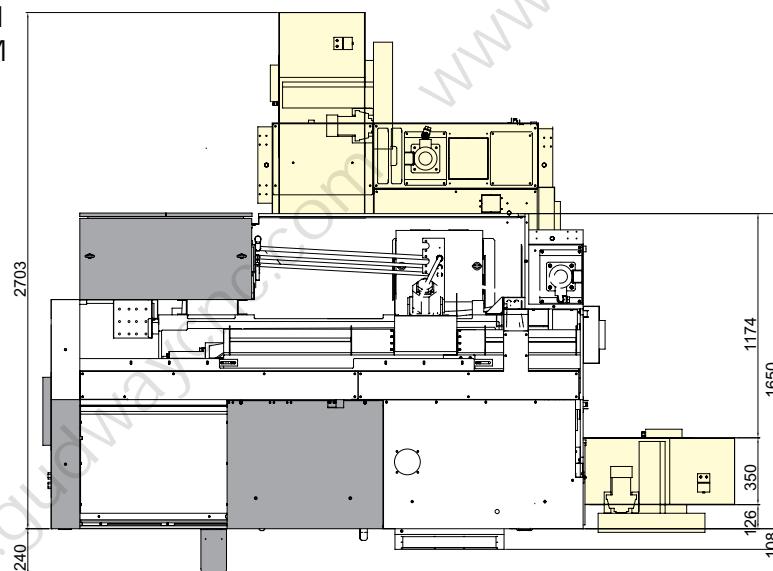


Technical Specifications

Size

UNIT : mm

GHT220/220M
GHT260/260M



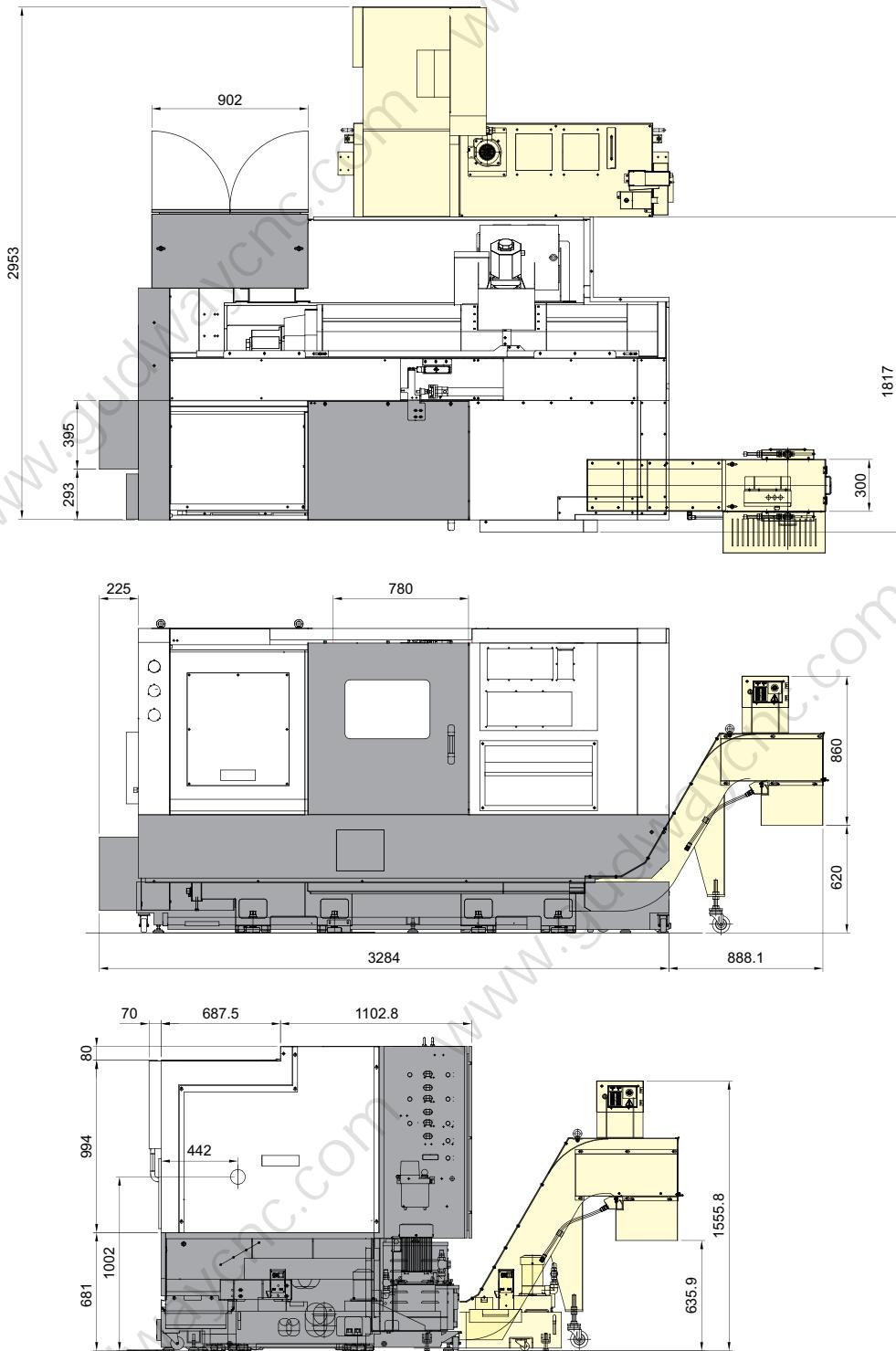


Control system

Size

UNIT : mm

GHT310/310M



Performance parameters are subject to change without notice.

HYUNDAI WIA
MACHINE TOOL

GHT Series
CNC Turning Center

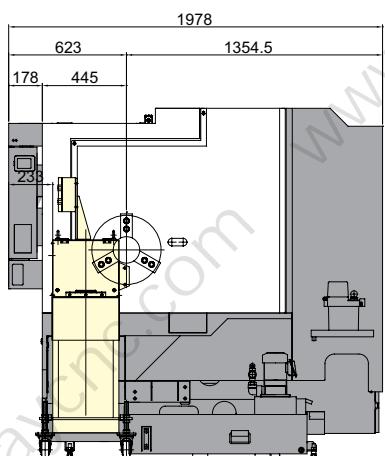
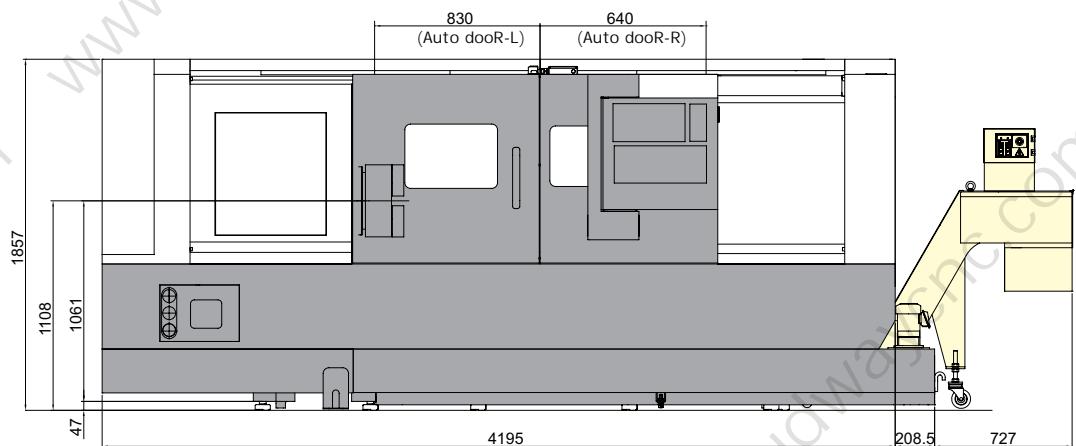
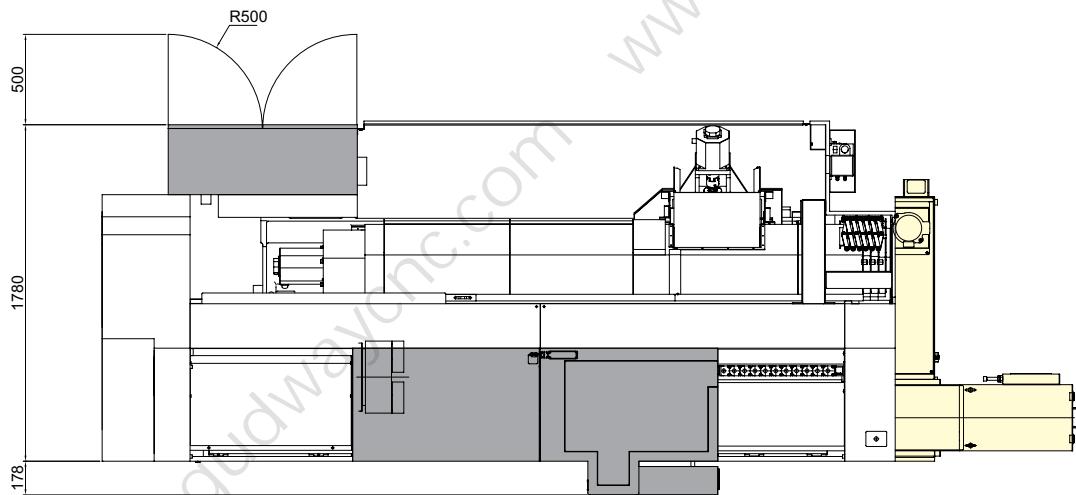
EXPERIENCE
THE NEW TECHNOLOGY

Technical Specifications

Size

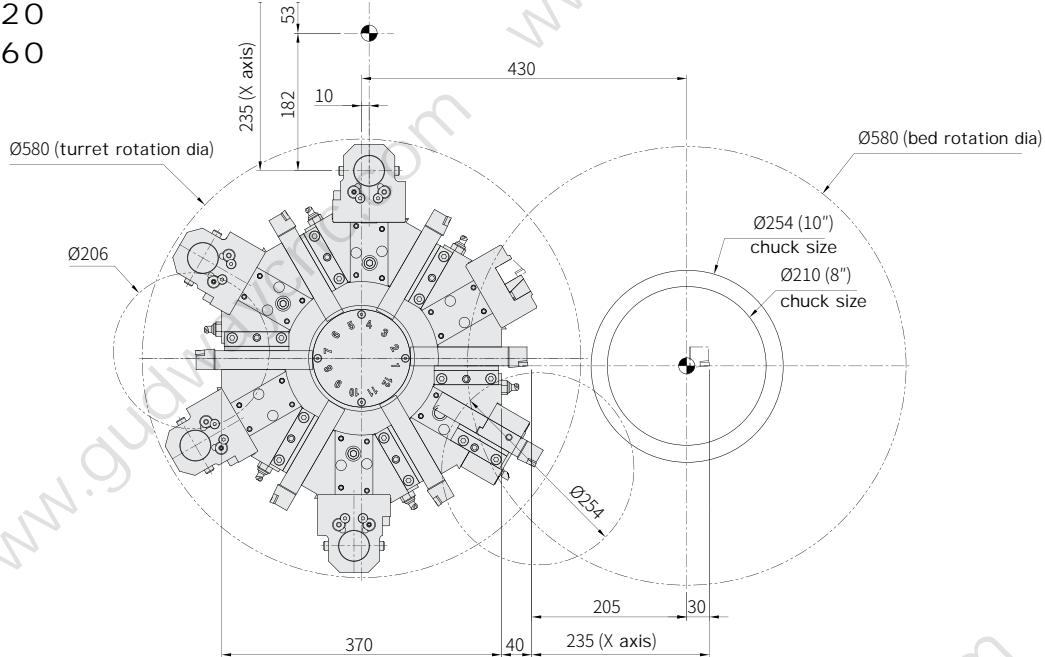
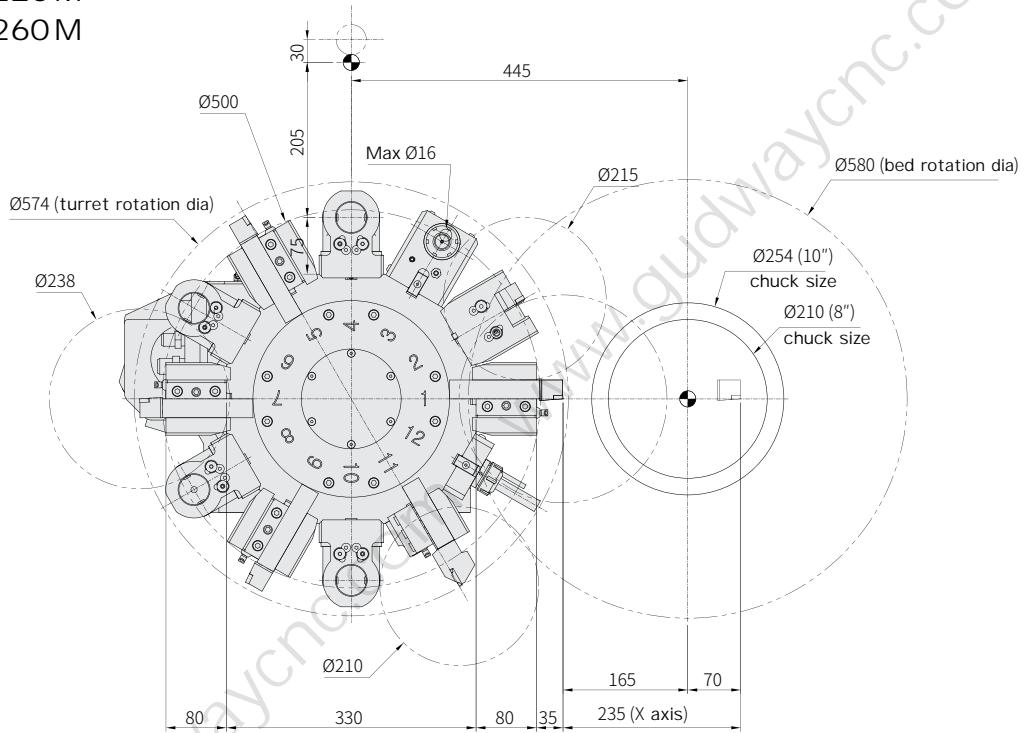
UNIT : mm

GHT360



Tool interferogram

UNIT : mm

**GHT220
GHT260**

**GHT220 M
GHT260 M**


When the position of the tool holder is changed arbitrarily, the content of the interference shown in the figure above will change.

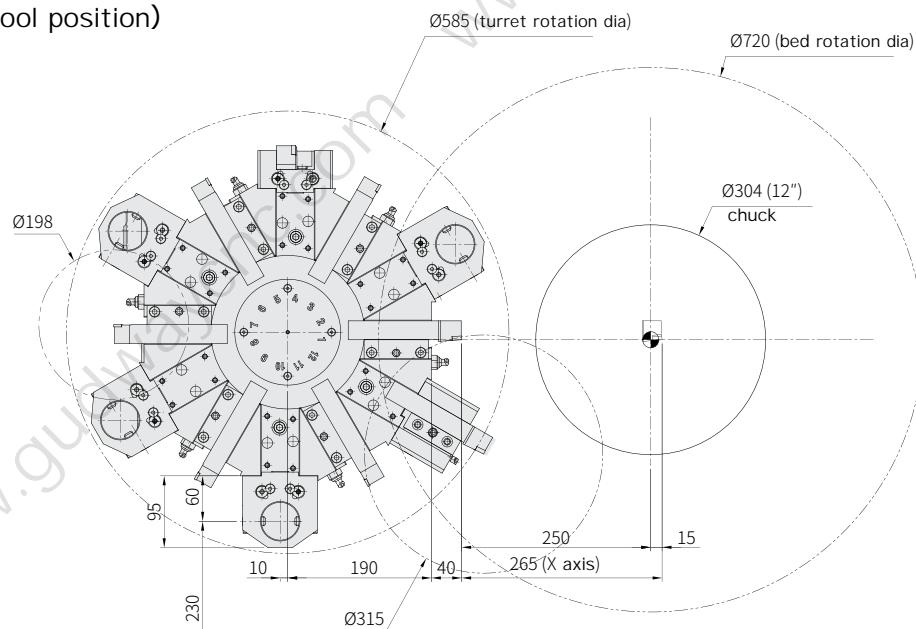
Performance parameters are subject to change without notice.

Technical Specifications

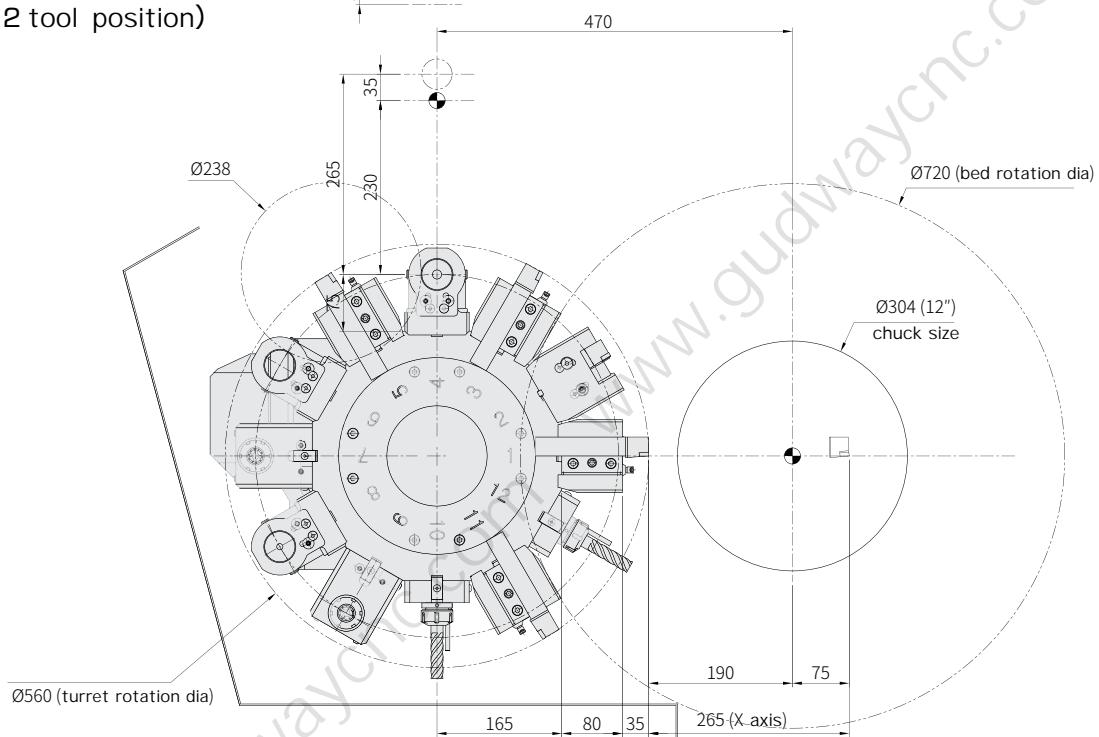
Tool interferogram

UNIT : mm

GHT310 (12 tool position)



**GHT310 M
(12 tool position)**

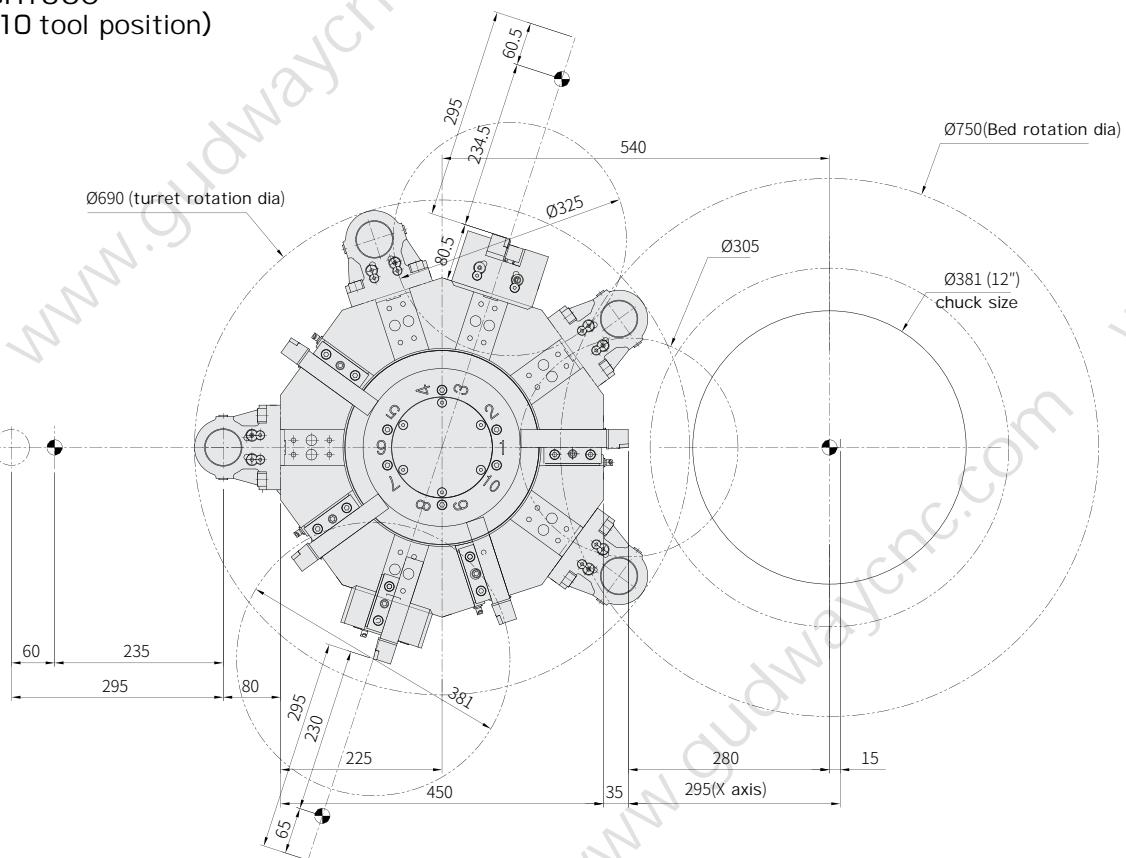


When the position of the tool holder is changed arbitrarily, the content of the interference shown in the figure above will change.

Performance parameters are subject to change without notice.

Tool interferogram

UNIT : mm

GHT360
(10 tool position)

When the position of the tool holder is changed arbitrarily, the content of the interference shown in the figure above will change.

Performance parameters are subject to change without notice.

Technical Specifications

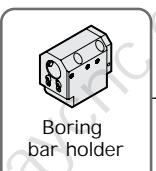
Tool system

UNIT : mm

Optional



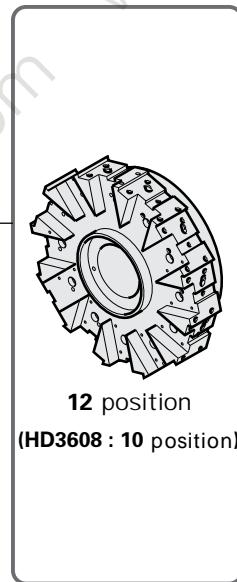
Boring
bar sleeve



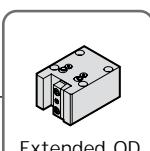
Boring
bar holder



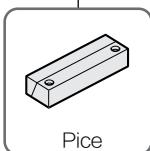
U Drill
end cover



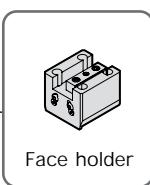
12 position
(HD3608 : 10 position)



Extended OD
tool holder



Pice



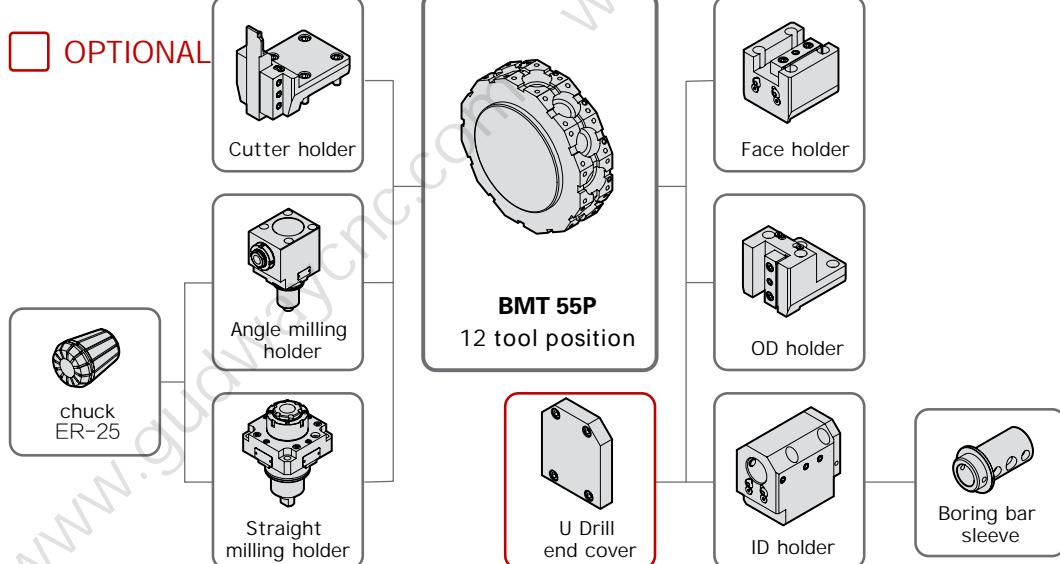
Face holder

Tool details

	Item	GHT220/260	GHT310/360
Turning tool holder	OD holder	Lengthen	1
	Transverse tool holder		1
Boring tool holder	ID tool holder	$\varnothing 40$ ($\varnothing 1\frac{1}{2}$)	4
	U Drill tool holder	END BRACKET	Optional
Driven tool holder	Straight milling cutter holder	Standard	-
		TTC	-
	Angle cutter seat (radial)	Standard	-
		TTC	-
Sleeve	Boring	$\varnothing 10$ ($\varnothing 3/8$)	1
		$\varnothing 12$ ($\varnothing 1/2$)	1
		$\varnothing 16$ ($\varnothing 5/8$)	1
		$\varnothing 20$ ($\varnothing 3/4$)	1
		$\varnothing 25$ ($\varnothing 1$)	1
		$\varnothing 32$ ($\varnothing 1\frac{1}{4}$)	1
		$\varnothing 40$ ($\varnothing 1\frac{1}{2}$)	1
	Drill	MT 1 x MT 2	1
		MT 2	1
	ER chuck		-

Tool system

UNIT : mm



Tool details

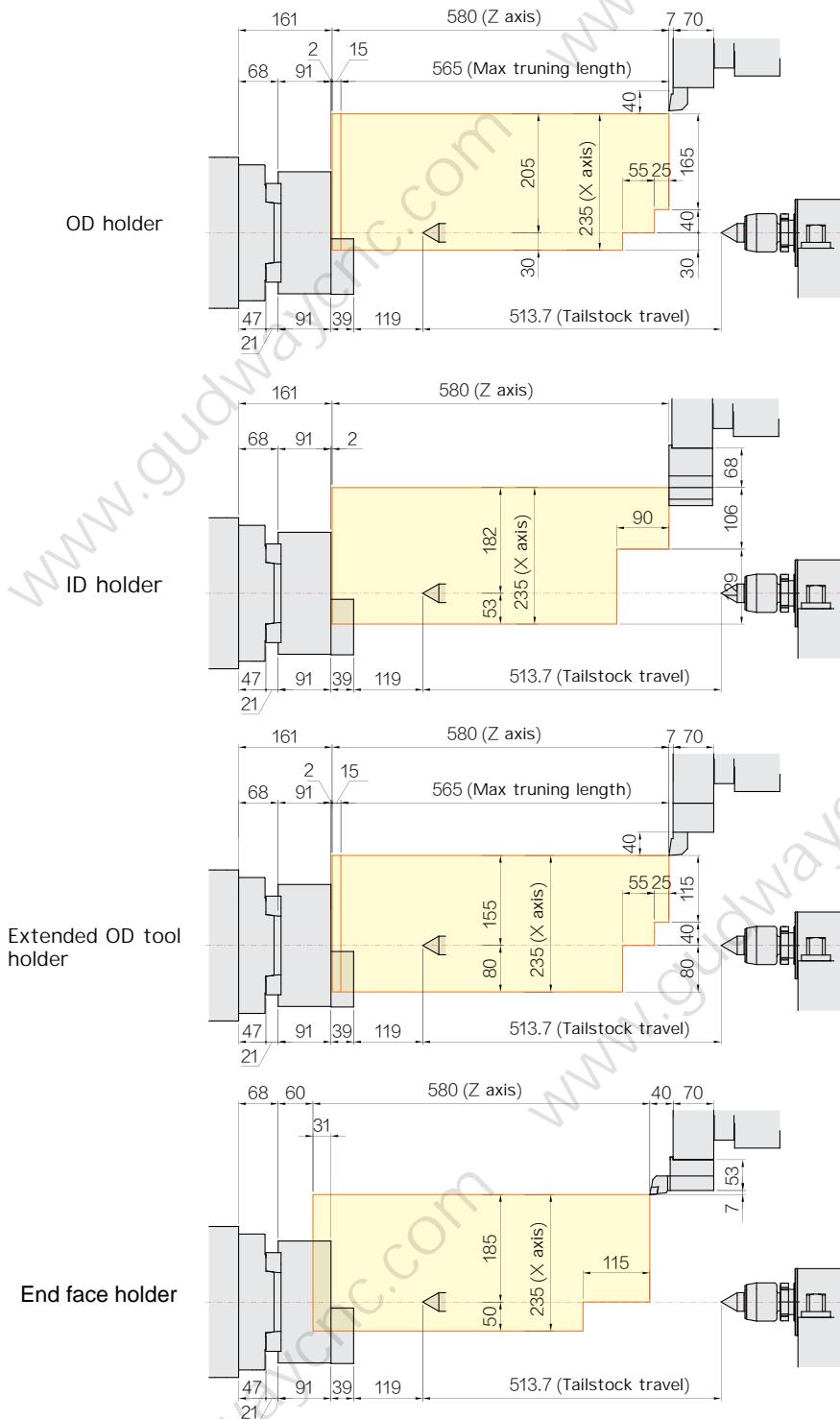
	Item	GHT220M/260M	GHT310M
Turning tool holder	OD holder	Right/Left	4
	Cutter seat		1
	Transverse holder		1
Boring holder	ID holder	Ø40 (Ø1 1/2")	4
	U drill tool holder	END BRACKET	Optional
Driven holder	Straight milling cutter holder	Standard	1
		TTC	Optional
	Angle cutter seat (radial)	Standard	1
		TTC	Optional
Sleeve	Boring	Ø10 (Ø3/8")	1
		Ø12 (Ø1/2")	1
		Ø16 (Ø5/8")	1
		Ø20 (Ø3/4")	1
		Ø25 (Ø1")	1
		Ø32 (Ø1 1/4")	1
	Drill ER chuck	MT 1 x MT 2	Optional
		MT 2	Optional
		MT 3	Optional
		1 set	1 set

Technical Specifications

Tool interferogram

UNIT : mm

GHT220

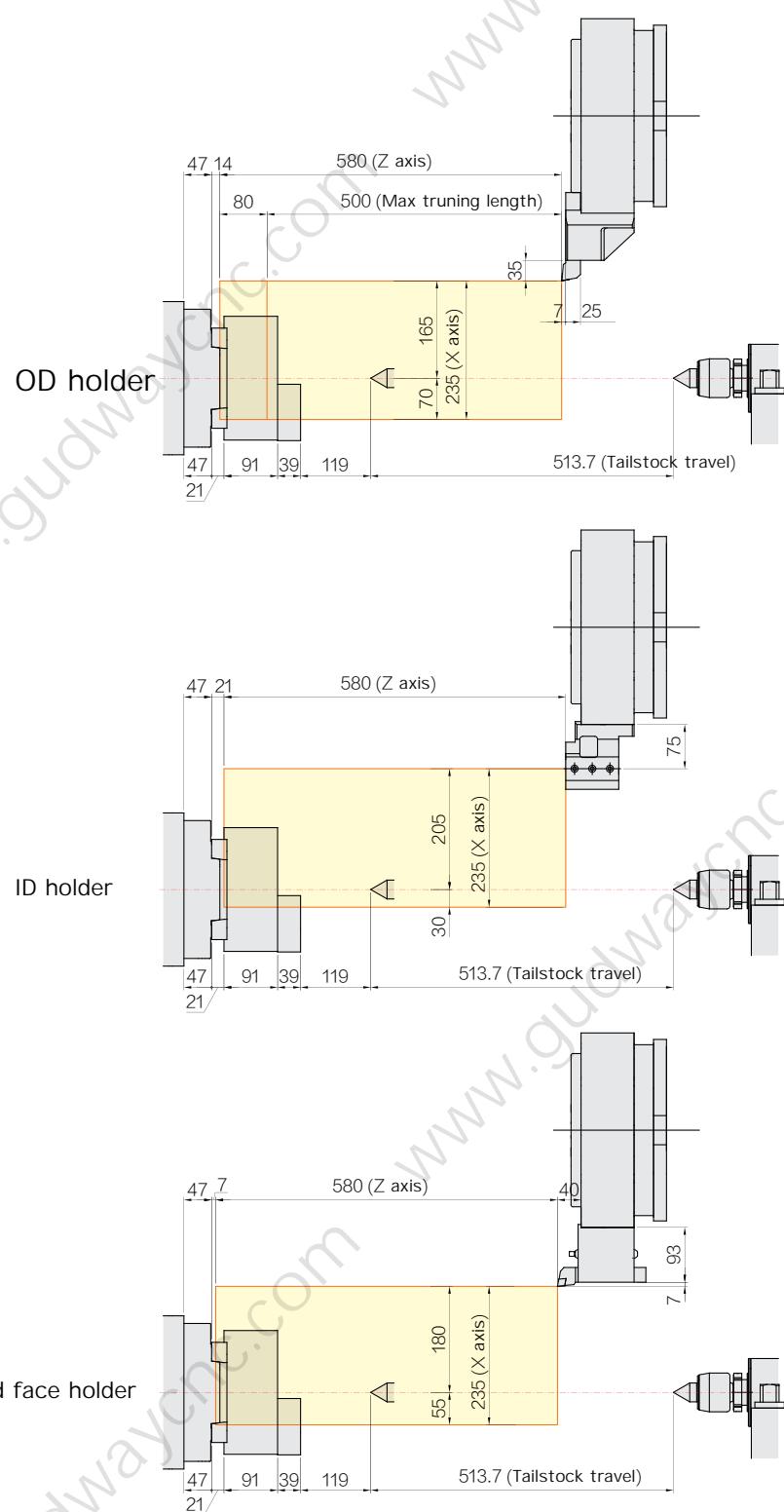


Technical Specifications

Tool interferogram

UNIT : mm

GHT220M

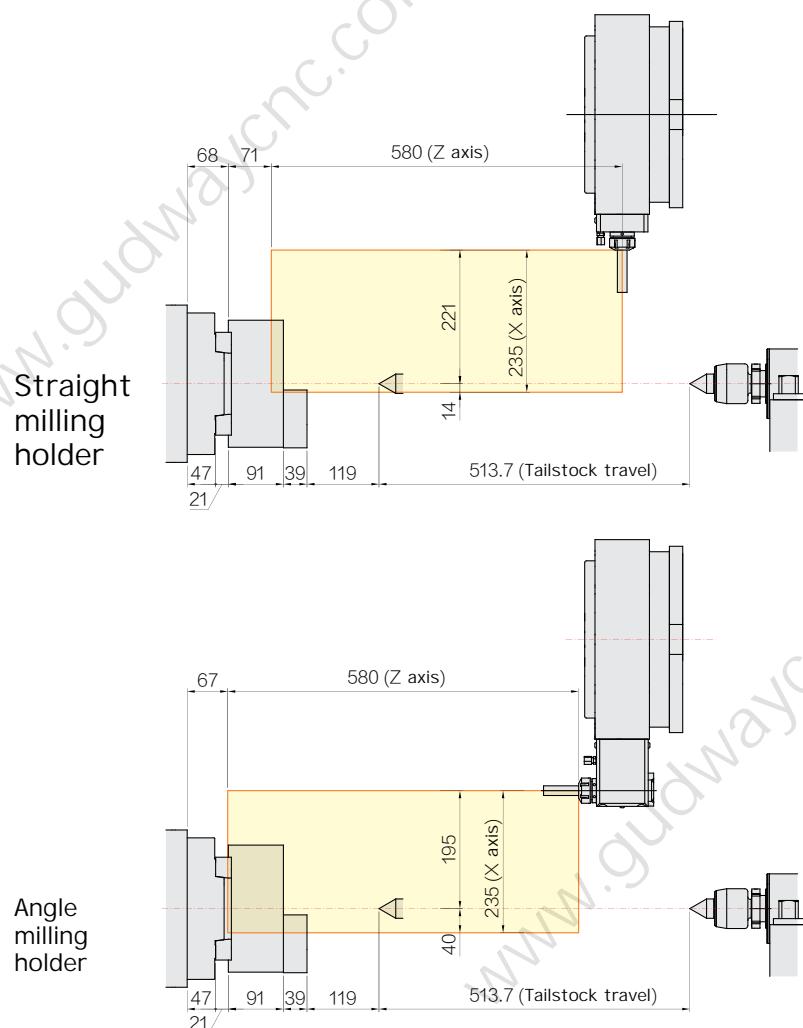


Technical Specifications

Tool interferogram

UNIT : mm

GHT220M

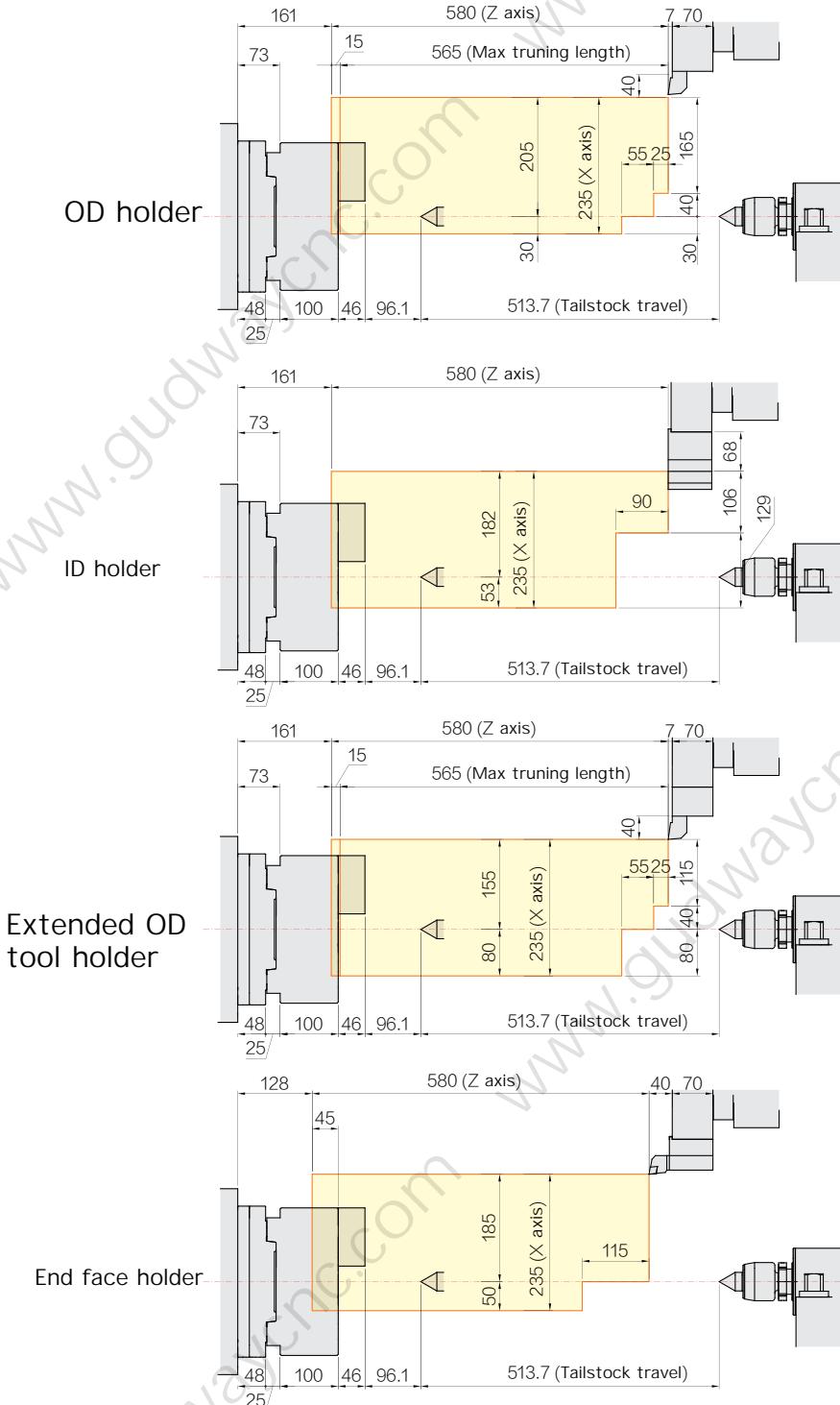


Technical Specifications

Tool interferogram

UNIT : mm

GHT260

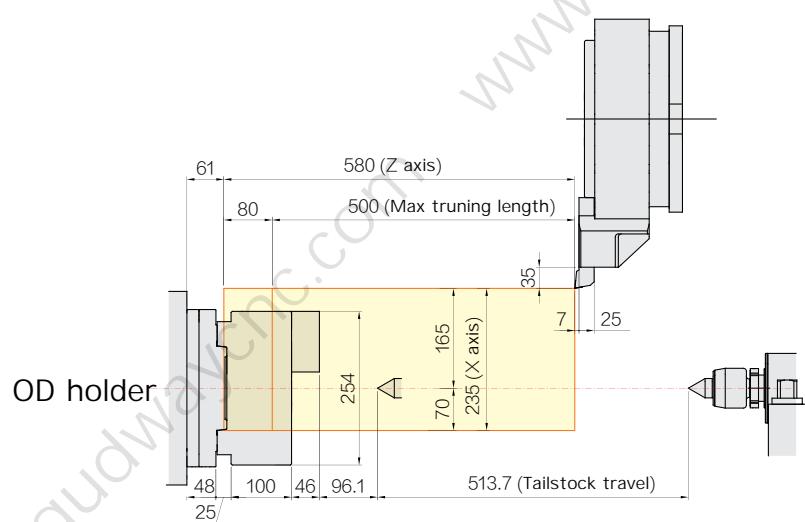


Technical Specifications

Tool interferogram

UNIT : mm

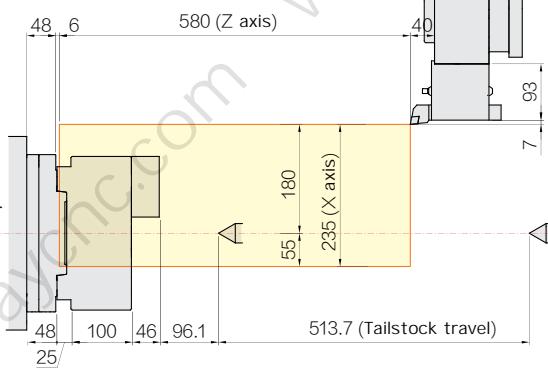
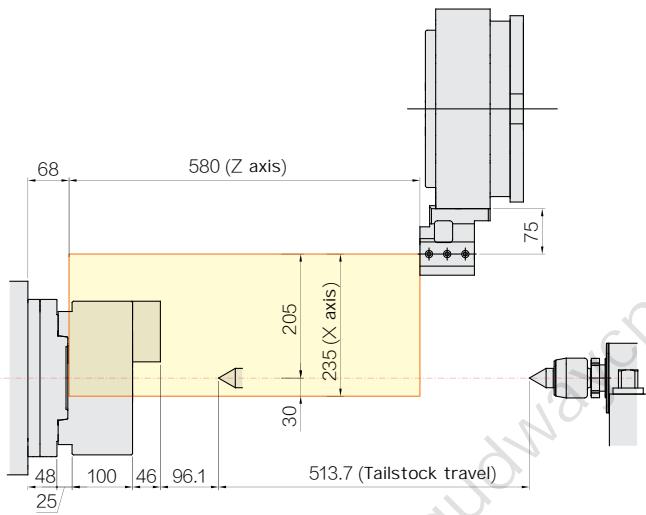
GHT260M



OD holder

ID holder

End face holder

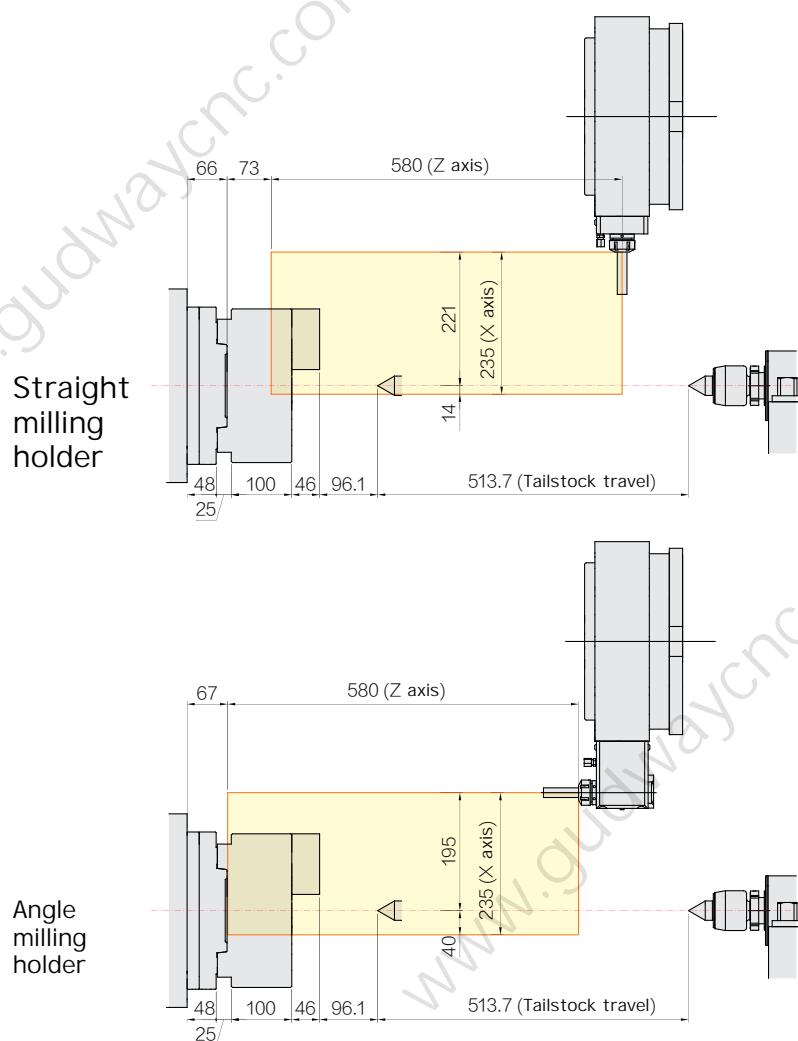


Technical Specifications

Tool interferogram

UNIT : mm

GHT260M

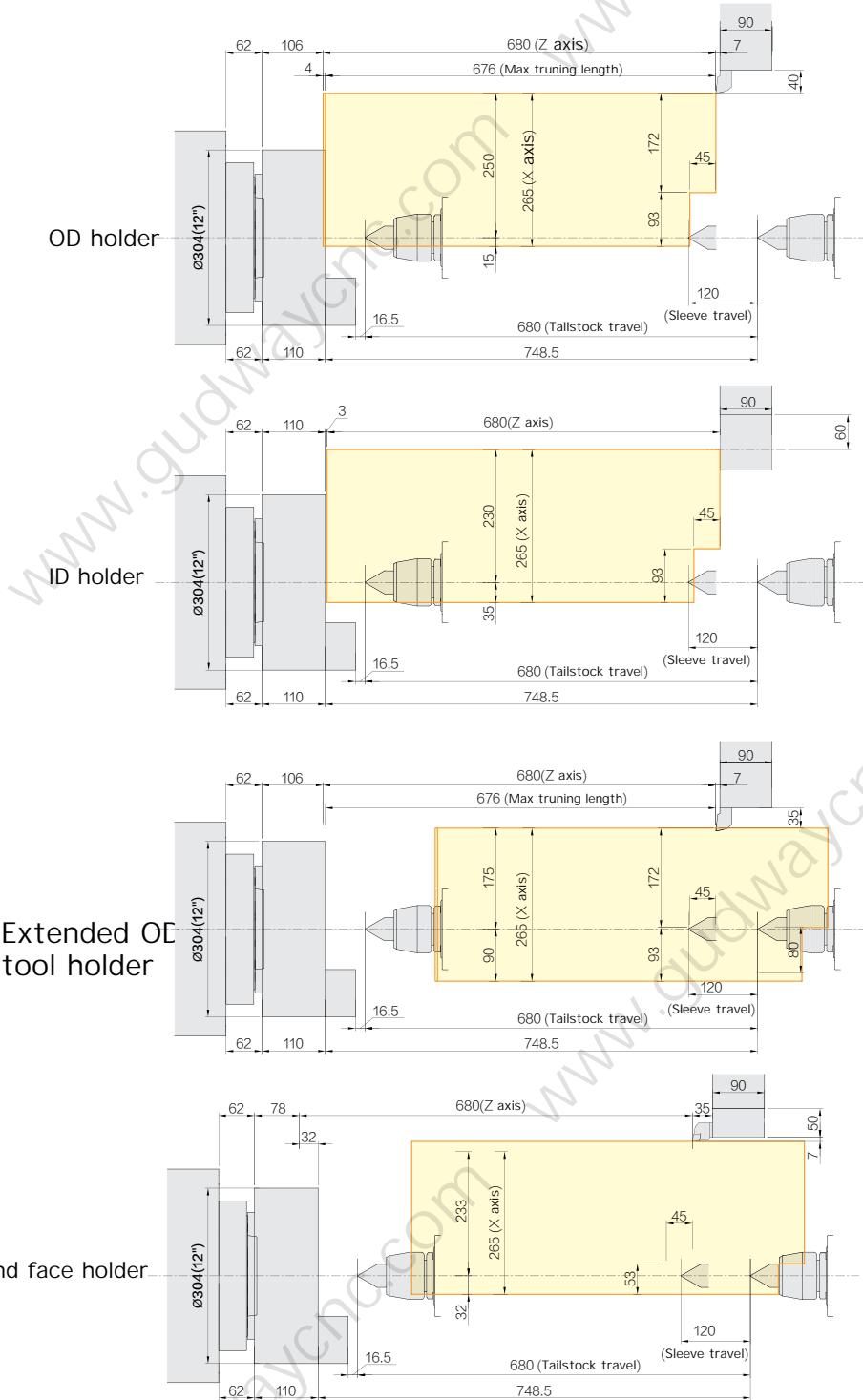


Technical Specifications

Tool interferogram

UNIT : mm

GHT310

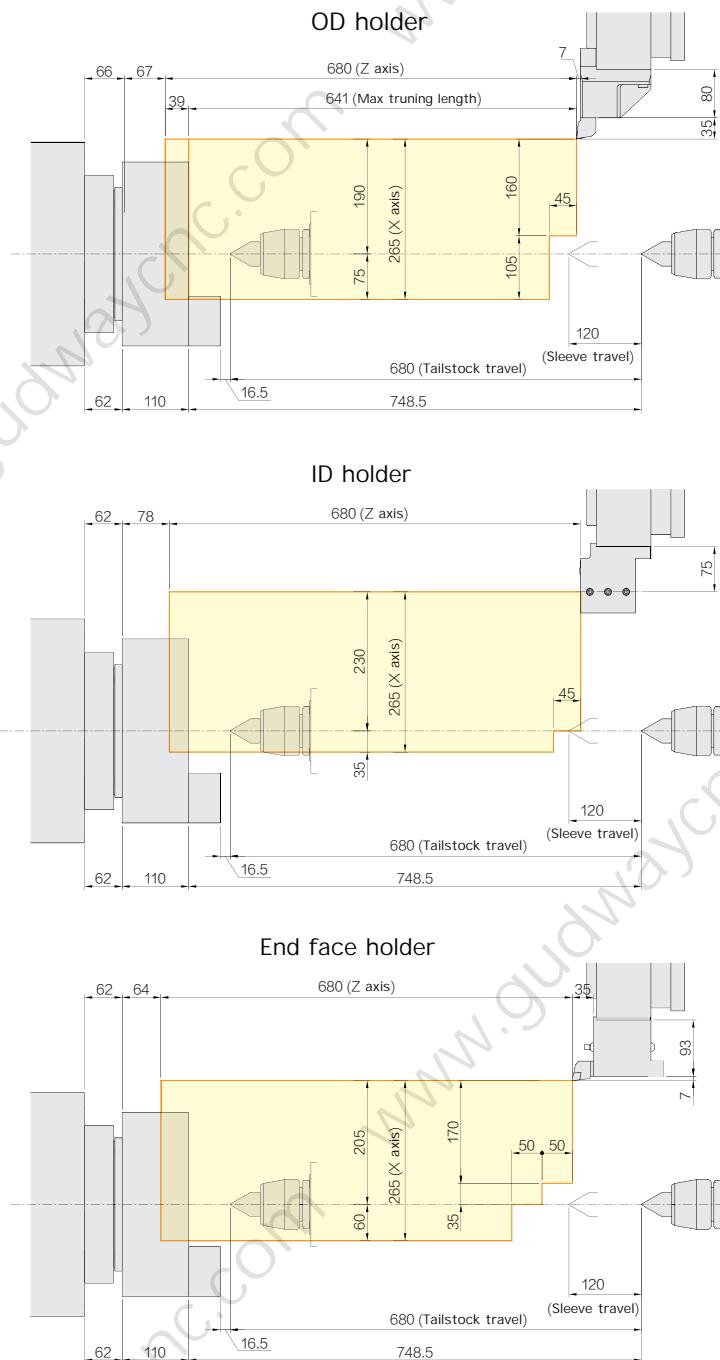


Technical Specifications

Tool interferogram

UNIT : mm

GHT310M

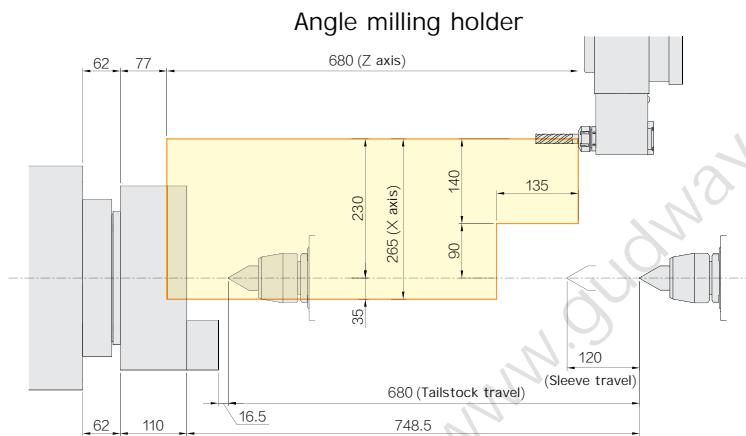
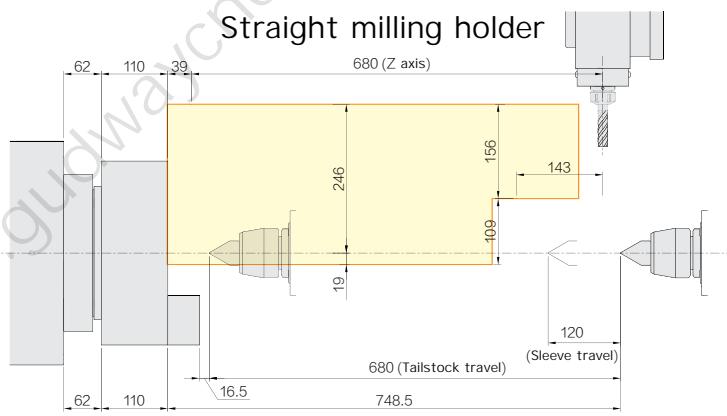


Technical Specifications

Tool interferogram

UNIT : mm

GHT310M



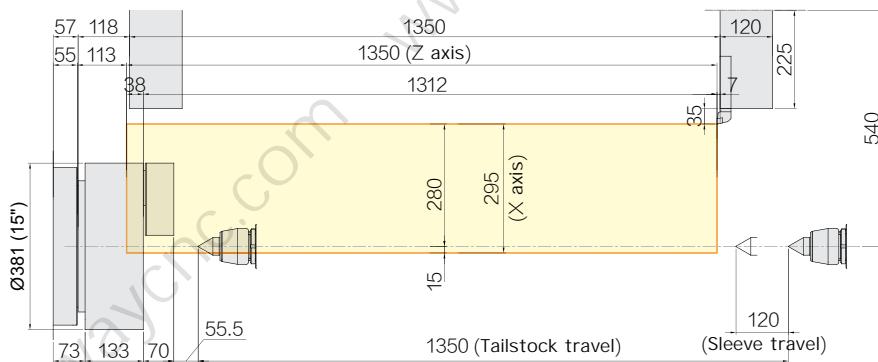
Technical Specifications

Tool interferogram

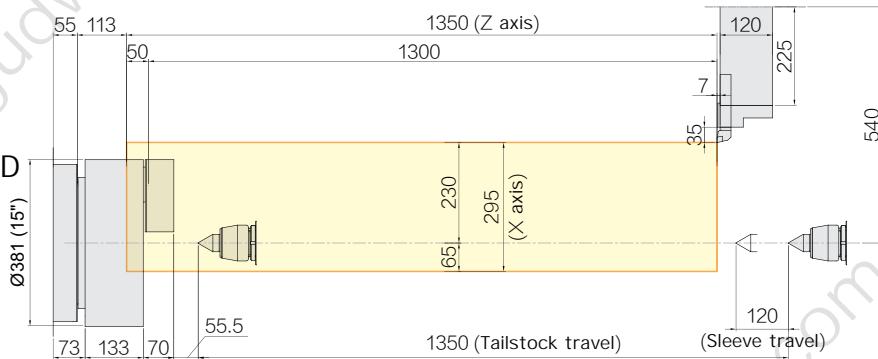
UNIT : mm

GHT360

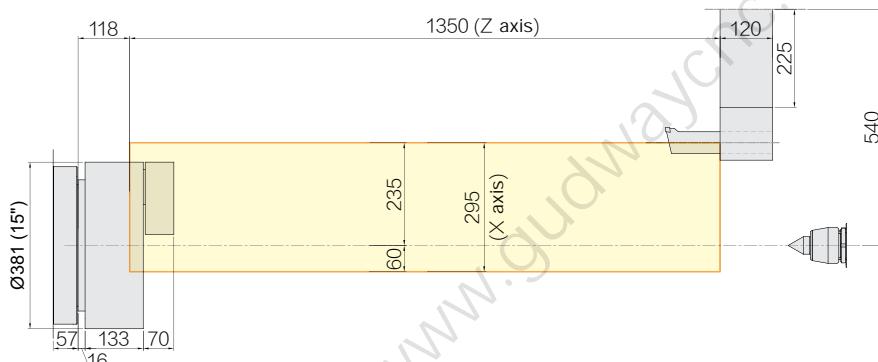
OD holder



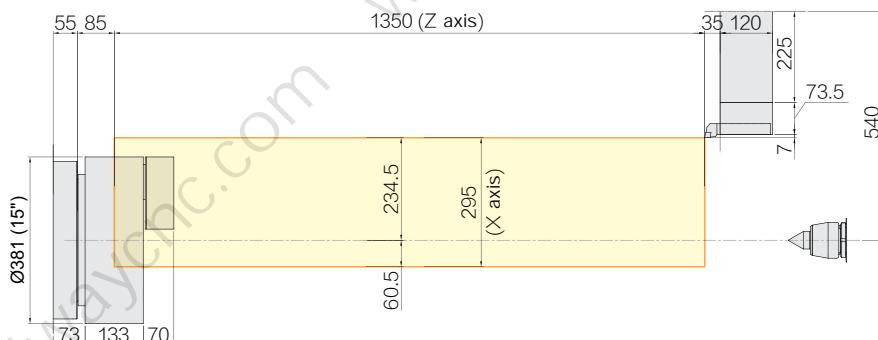
Extended OD
tool holder



ID holder



End face
holder





Technical Specifications

Specifications

[]: High torque spindle

ITEM		GHT220	GHT220M
Machining	Max bed turning diameter	mm	Ø580
	Max. turning dia	mm	Ø420
	Max truning length	mm	565
	Maximum bar diameter	mm	Ø65
Spindle	Chuck size	inch	8"
	Through diameter of spindle	mm	Ø76
	Spindle speed (rpm)	r/min	4,000 [4,000]
	Motor power (Max/continuous)	kW	18.5/15 [18.5/15]
	Torque (Max/continuous)	N.m	206/125.3 [353.2/214.8]
	Spindle form	-	Belt
	Spindle nose	-	A2-6
	C-axis indexing	deg	0.001°
Feed	Travel(X/Z)	mm	235/580
	Fastfeed speed(X/Z)	m/min	24/30
	Guide type	-	Hard rail
Turret	Number of tools	ea	12
	Tool dimension	OD	Ø25
		ID	Ø40
	Indexing time (1-step)	sec/step	0.12
Live Tool	Motor power (Max/continuous)	kW	5.5/3.7
	Power tool speed (rpm)	r/min	6,000
	Torque (Max/continuous)	N.m	52.5/26.5
	Chuck size	mm	Ø16(ER25)
	Model	-	BMT55
Tailstock	Taper	-	MT#4
	Sleeve diameter	mm	Ø65
	Sleeve travel	mm	80
	Stroke	mm	513.7
Water tank capacity	Coolant tank	l	150
	Lubrication oil tank	l	3
Power supply	Power supply	kVA	25
	Minimum cable diameter	Sq	> 16
	Voltage	V/Hz	220/50
Machine size	Floor area (length × width)	mm	2,828 × 1,758
	Height	mm	1,832
	Weight	kg	4,100
CNC	CNC system		FANUC i



Technical Specifications

Specifications

[] : High torque spindle

	Item	GHT260	GHT260M
Machining	Max bed turning diameter	mm	Ø580
	Max. turning dia	mm	Ø420
	Max truning length	mm	565
	Max diameter of bar	mm	Ø76
Spindle	Chuck size	inch	10"
	Through diameter of spindle	mm	Ø92
	Spindle speed (rpm)	r/min	3,000
	Motor power (Max/continuous)	kW	18.5/15
	Torque (Max/continuous)	N.m	300.2/182.6
	Spindle form	-	Belt
	Spindle nose	-	A2-8
	C-axis indexing	deg	-
Feed	Travel(X/Z)	mm	235/580
	Fast moving speed (X/Z)	m/min	24/30
	Guide type	-	Belt
Turret	Number of tool	ea	12
	SIZE	OD mm	Ø25
		ID mm	Ø40
	Indexing time (1-step)	sec/step	0.12
Live tool	Motor power (Max/continuous)	kW	-
	Power tool speed (rpm)	r/min	-
	Torque (Max/continuous)	N.m	-
	Chuck size	mm	-
	Model	-	BMT55
Tailstock	Taper	-	MT#4
	Sleeve diameter	mm	Ø65
	Sleeve travel	mm	80
	Travel	mm	513.7
Water tank capacity	Coolant tank	ℓ	150
	Lubrication tank	ℓ	3
Power supply	Power supply	kVA	25
	Minimum cable diameter	Sq	> 16
	Voltage	V/Hz	220/50
	Floor area (length × width)	mm	2,828 × 1,758
Machine	Height	mm	1,832
	Weight	kg	4,200
CNC	CNC SYSTEM	-	FANUC i

Performance parameters are subject to change without notice.

Technical Specifications

Specifications

[] : High torque spindle

	ITEM	GHT310	GHT310M	GHT360
Machining	Max bed turning diameter	mm	Ø720	Ø750
	Max. turning dia	mm	Ø475	Ø380
	Max. turning length	mm	676	641
	Maximum bar diameter	mm	Ø76	Ø102
Spindle	Chuck size	inch	12"	15"
	Through diameter of spindle	mm	Ø92	Ø115
	Spindle speed (rpm)	r/min	3,000	2,500 [2,500]
	Motor power (Max/continuous)	kW	18.5/15	26/18.5 [35/22]
	Torque (Max/continuous)	N.m	470.9/286	1,123.5/657 [1,613/1,014]
	Spindle form	-	Belt	Belt [gear]
	Spindle nose	-	A2-8	A2-11
Feed	C-axis indexing	deg	-	-
	Travel (X/Z)	mm	265/680	295/1,350
	Fast feed(X/Z)	m/min	24/30	-
Turret	Guide type	-	Hard rail	-
	Number of tools	ea	12	10
	Tool size	OD mm	Ø25	-
		ID mm	Ø50	-
Live tool	Indexing time (1-step)	sec/step	0.12	-
	Motor power (Max/continuous)	kW	-	5.5/3.7
	Power tool speed (rpm)	r/min	-	6,000
	Torque (Max/continuous)	N.m	-	52.5/26.5
	Chuck size	mm	-	Ø16(ER25)
Tailstock	Model	-	-	BMT55
	Taper	-	MT#5	-
	Sleeve diameter	mm	Ø100	-
	Sleeve travel	mm	120	-
Water tank capacity	Travel	mm	680	1,350
	Coolant tank	l	180	225
	Lubrication oil tank	l	3	-
Power supply	Power supply	kVA	30	-
	Minimum cable diameter	Sq	> 16	-
	Voltage	V/Hz	220/50	-
Machine	Floor area (length × width)	mm	3,284 × 1,817	4,195 × 1,978
	Height	mm	1,755	1,857
	Weight	kg	5,800	6,000
CNC	CNC system	-	FANUC i	-



Control system

[] : OP

FANUC i

Axis control number/display/precision compensation	Program input
Number of control axes 2 axes (X,Z)/3 axes (X,Z,C)/X,Z,B)/4 axes (X,Z,Y,C)	Compound fixed cycle 1,I
5 axes (X,Z,B,C,A)/6 axes (X,Z,Y,B,C,A)	Lathe fixed cycle
Control number of shafts at the same time 2 axes [Up to 4 axes	Auxiliary/spindle speed function.
Number of spindle 3 axes (1 system) X,Z,Y,B axes: 0.001 mm(0.0001 inch)	Accessibility M4 digit
Minimum setting unit O A-axis: 0.001 deg	Grade raise M code Spindle speed function
X,Z,Y,B axis: 0.001mm(0.0001 inch)	Spindle magnification 0% to 150%
Minimum moving units CA axis: 0.001 deg	orientation M19(S)
Feed/metric conversion 320/G21	Rigid tapping
High response vector control	Constant linear spindle speed control G96,G97
Interlock All axes/every axis	Tool function/tool compensation
Machine lock All axes	Tool function T2 bit + Compensation 2 bit
Back backlash compensation ±0~9999 pulse (fast shift/cutting advance)	Tool life management
Position switch LCD/MDI 8.4 "[10.4" Color LCD]	Cutter compensation number 1, 2, 8 pairs Tip radius compensation G40,G41,G42
Feedback Absolute motor feedback	Shape/wear compensation
Storage travel mom check Overtravel	Detect tool compensation value B direct input
Store stroke check 2,3	Editing function
Pm-c axis control	Job program storage 512KB
Operations Automatic operation (storage)	logged in 1000 Program protection
M DI operation	Background editing
D N C operation DNC software /CF card required	lengthening workpieces Copy, move and change of NC
Program restart	Memory card program edit & operation
Error Operation Prevention	Data input/output and interface
Program check function Run empty	VO interface CF card, USB storage, embedded Ethernet interface
Single program segment	Screen hard copy
Search function Program number/serial number	External information
Interpolation function	External keystroke input
Nano interpolation	External job number lookup
Quick positioning G00	Automatic data backup
Straight line compensation G01	Setup, display, diagnose
Cylindrical interpolation G02,G03	Self-diagnostic function
Precise stop mode Single: G09, continuous: G61	Historical Display Alarm and operator information with operations
Adjust the time G04.0 to 9989.9989 sec	Run hours/job count display
Segment skip G31	Maintenance information
Reference point 1: G28, reference point 2: G30	Actual cutting advance rate display
Reference point return Line point pole search; G27	Spindle speed display/T code
Thread/synchronous cutting	Graphic display
Thread cutting retractor	Operate the load on the monitor screen spindle/servo unit, etc
Variable lead thread cutting	Power monitoring spindle and servo unit
Multiple/continuous threads	Spindle/servo set display
Feed function/acceleration and deceleration control	Multilingual display supports 26 languages
Fast movement Spot move: 0~2,000 mm/min(79ipm)	Dynamic switching language display is included in the country language display
Hand wheel in Sau	Manual control: x1,x10,x100 pulses LCD Screen Saver Screen Saver Handle select BST(Reverse Torque Limit)
Liner point return	Functions of different machine specifications
Cutting into group commands Enter the F code directly	C Profile Control (C-axis & A-axis) MII,MS,Y,SY,LF-MII,TTMS,TTSY
Jin Sau multiplier 0 to 200%(10% units)	interpolation MII,MS,Y,SY,LF-MII,TTMS,TTSY
Cut into Sau command 1%, 25%, 50%, 100%	Cylindrical interpolation MII,MS,Y,SY,LF-MII,TTMS,TTSY
Jin Sau multiplier	Drilling fixed cycle MII,MS,Y,SY,LF-MII,TTMS,TTSY
Remonstrating to Sau multiplier G98	Spindle positioning expansion MS,SY TTS,TTMS,TTSY
Multiplier cancel G99	control MS,SY TTS,TTMS,TTSY
Enter sau per minute 1 program segment	Torque control MS,SY TTS,TTMS,TTSY
Program input	Y-axis compensation Y,SY,TTSY
Paper tape code FAS°	Tilt shaft control Y,SY,TTSY
Optional program segment skip 1	Blend/overlay control MS,SY TTS,TTMS,TTSY
Absolute/increment instruction G90/G91	Balanced cut
Program stop/end M00,M01/M02,M30	MS,SY TTS,TTMS,TTSY
Maximum programmable size ±999,999.999mm(±99,999.999 inch)	Optional
Plane choice X-Y:G17/Z-X:G18/Y-Z:G19	Select program segment to 9 of them
Workpiece coordinate system setting G52,G53.6 pairs (G54~G59)	High speed network Optional board required
Manual absolute value Fixed open	Data server Optional board required
Programmable data entry G10	Level 8 data protection features
Subroutine calls Level 10	Number of tool 200 sets
User macros # 100 ~ # 199, # 500 to # 999	Program storage capacity 5120m(2MB)
G code system A	Multilateral turning (2) MII,MS,Y,SY,LF-MII,TTMS,TTSY
Programmable mirror G51.1, G50.1	How-to Guide i Interactive Programs
G code to prevent buffering G4.1	Moving image display
Drawing dimensions are entered directly	Include chamfer/corner R

Conversion from British to metric values | FANUC controller specifications are subject to change according to FANUC's CNC system supply policy.

HYUNDAI WA
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