

# GHB SERIES

Horizontal type Boring machining center



SUZHOU GUDWAY CNC EQUIPMENT CO.,LTD

Add : No. 21 Xiexin Road, New District, Suzhou City, Jiangsu Province, China.

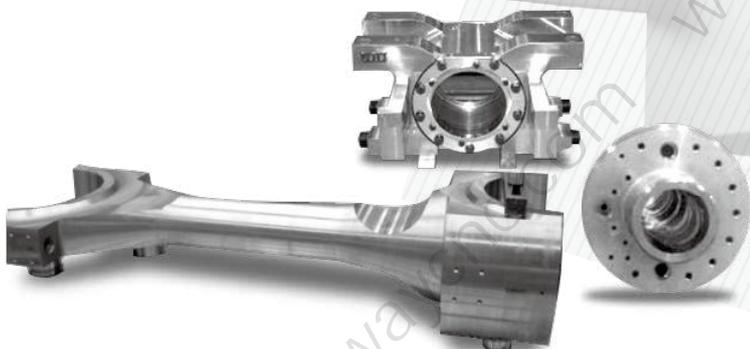
Tel : +86-0512-65580060

Email : [info@gudwaycnc.com](mailto:info@gudwaycnc.com)

Web : <http://www.gudwaycnc.com>

# High rigidity and precision Horizontal type Boring machining center GHB 135H/135LH

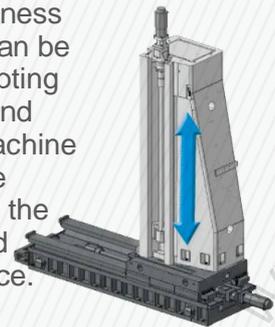
The GHB series is a column mobile horizontal boring and milling machine with special technology. The high rigidity, high precision construction and high performance spindle can greatly improve the processing performance, while a variety of optional configurations can flexibly handle large parts of different sizes, creating higher value for customers.





### 1 High Rigidity

The dynamic stiffness of the structure can be improved by adopting the high rigidity and stability of the machine structure and the optimal design of the slope column and the contact surface.



### 2 High Accuracy

High performance spindle and rotary table enable stable and high precision machining.



### 3 Convenience

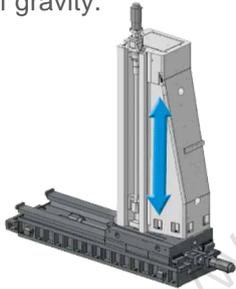
Ergonomic design of slope operation panel, more convenient operation, easy to use operation.



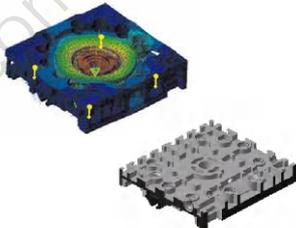
# High rigidity structure

## 1 High rigidity structure

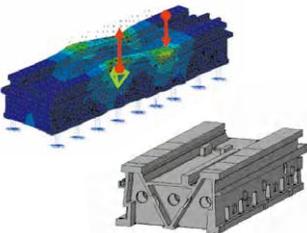
Through the optimization design of the whole bed mechanism, the rigidity of the mechanism can be greatly improved by using the stiffened bed and the slope column with low center of gravity.



The low center of gravity design greatly reduces vibration, and the column moving structure is suitable for heavy loads.



Reduce deformations caused by heavy workpieces with an optimized design of the table and table base.



The M-shaped bar in the bed greatly reduces deformation and vibration.

Max.  
rotation Dia.  
Ø3900 mm

No semi-S/G  
(GHB135H)

Max.  
rotation Dia.

Ø4800 mm

No semi-S/G  
(GHB135LH)

Max.  
rotation Dia.

Ø3400 mm

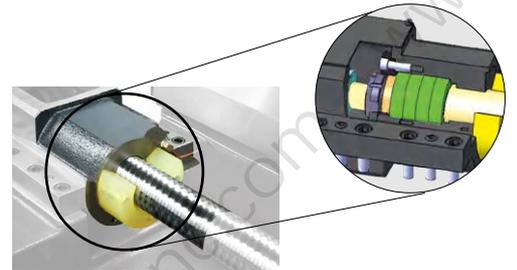
With semi-S/G





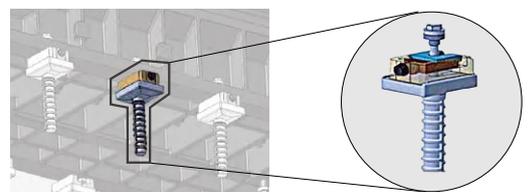
## 2 High stability bed

Optimized slope column and contact surface design, 4 row bearing and lead screw, which can improve the rigidity of the equipment.



### 4 aligned bearings and lead screws

Both ends of the lead screw are supported by 4 rows of angular contact bearings to improve stability.



### Leveling block

The leveling block can strengthen the anchorage force of the foundation, and the realization is simple

# High Accuracy

## 1 High torque spindle

Adopt high rigidity bearing support, high torque spindle to achieve strong heavy cutting. At the same time, easy access to the workpiece spindle nose and the optimized design of the spindle head and the telescopic distance provide stable processing capacity.

Spindle motor power:

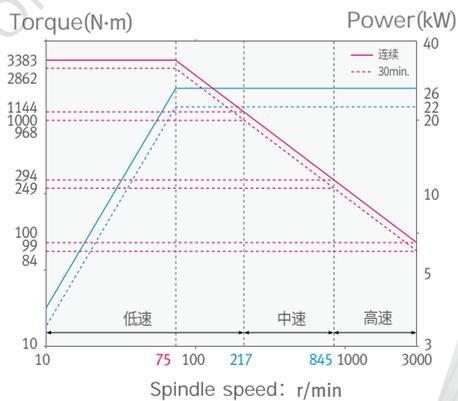
**26/22 kW**

Maximum spindle torque:

**3383 N·m**

## Spindle power-torque diagram

GHB Spindle 3000r/min 26/22kW Standard



Boring bar  
Ø130 mm

Max.  
spindle speed  
3000 r/min

Max.  
spindle Torque  
3383 N·m

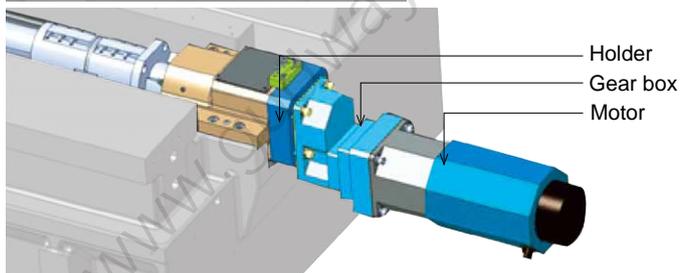
## 2 High precision table

Rotary work table is equipped with high precision, independent encoder standard, to achieve high precision B-axis rotation.

ITEM	GHB SERIES				
	ST	OP	ST	OP (GHB135LH)	OP (GHB135LH)
SIZE(mm)	1600x1800	18000x2000	2000x2200	1800x2000	2000x2200
Max. load(kg)	15000	13000	12000	20000	19000
Pallet surface	24H <sub>8</sub> x9	24H <sub>8</sub> x11	24H <sub>8</sub> x13	24H <sub>8</sub> x11	24H <sub>8</sub> x13



The positioning pin is realized by 90° rotation



High torque reduction gear box increases axial thrust, reduces servo load, achieves stable feed and improves machining capacity.

Model	X AXIS	Y AXIS	Z AXIS
GHB135H	OP	ST	OP
GHB135LH	ST	ST	ST

# High Efficiency

## 1 (ATC)

GHB series is equipped with 40 tool storehouses, and the tool storehouses and brackets are driven by servo motors, which greatly reduces the hydraulic system load of the whole machine, reduces the failure rate, makes maintenance more convenient, and can effectively improve the processing efficiency.

- Magazine capacity: **40** ST
- 60/90** OP
- Max. tool dia.: **130** mm(continuous)
- Max. tool length: **600** mm
- Max. weight: **30** kg
- Changing time: **20** s(Tool to tool)
- 30** s(cut-to-cut)

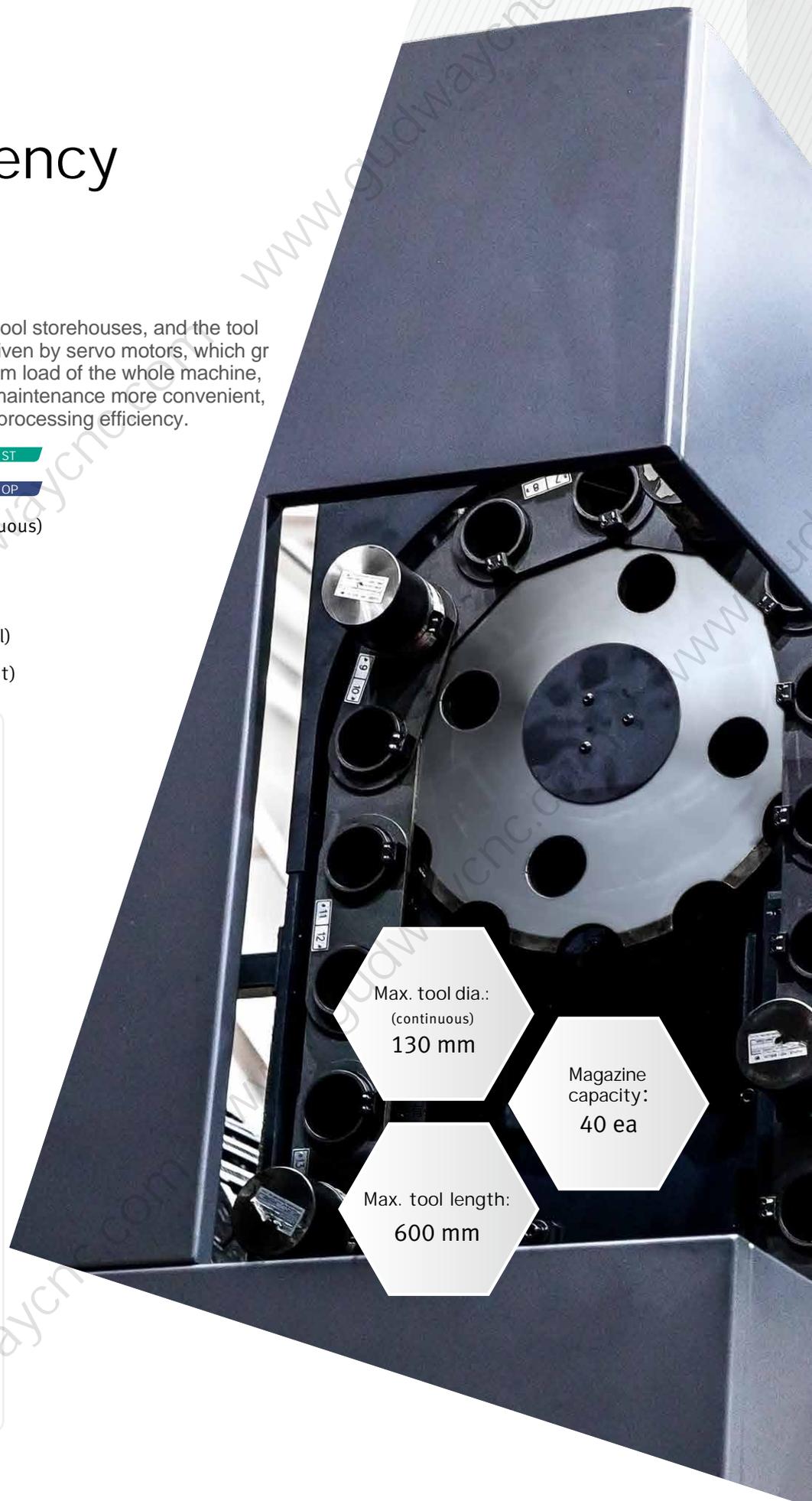
(ATC)



Servo tool magazine



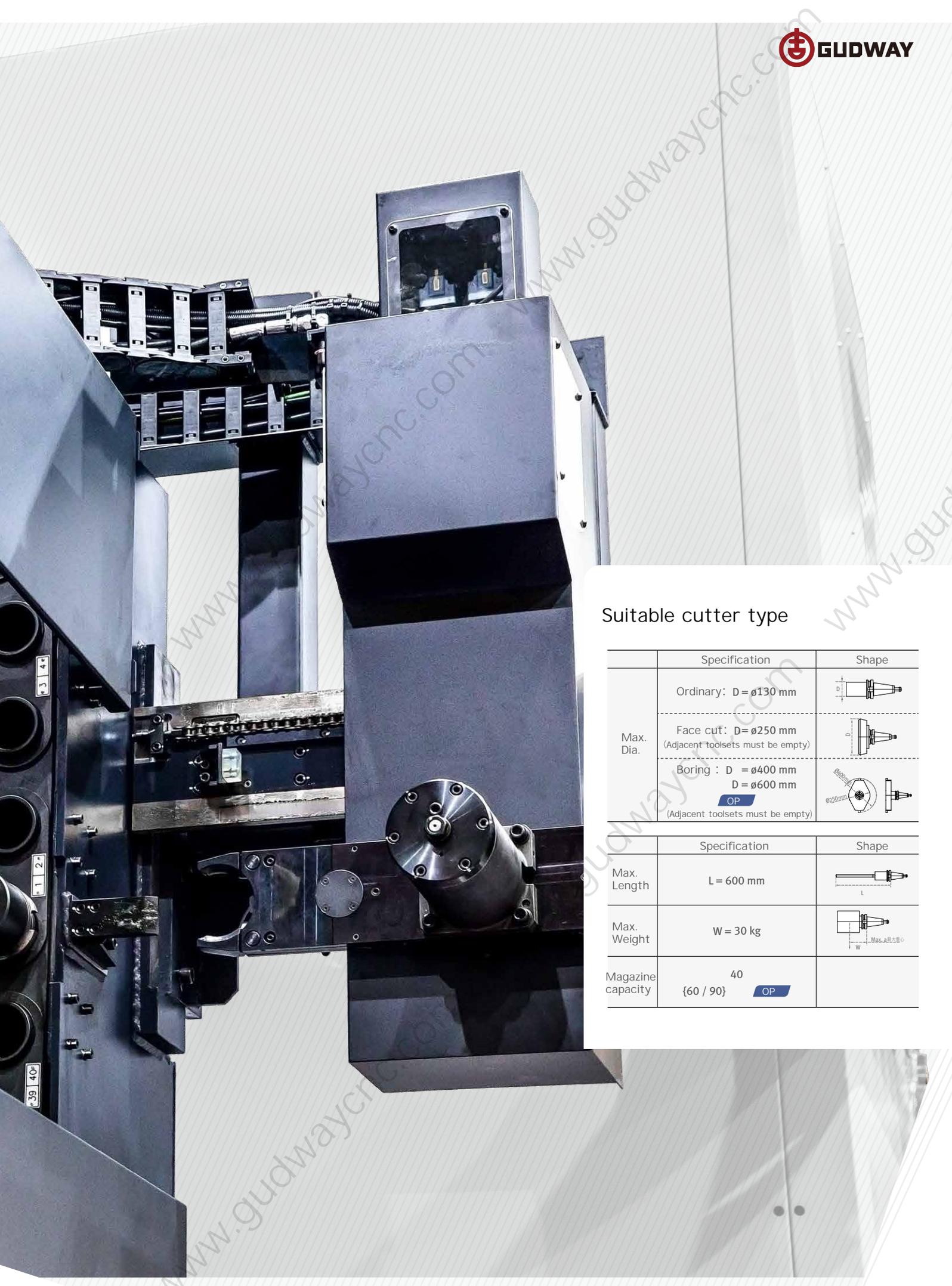
Servo bracket



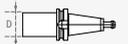
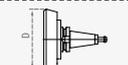
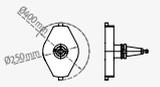
Max. tool dia.:  
(continuous)  
**130 mm**

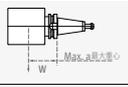
Magazine capacity:  
**40 ea**

Max. tool length:  
**600 mm**



### Suitable cutter type

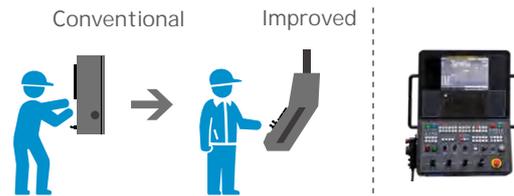
	Specification	Shape
Max. Dia.	Ordinary: D = $\phi 130$ mm	
	Face cut: D = $\phi 250$ mm (Adjacent toolsets must be empty)	
	Boring : D = $\phi 400$ mm D = $\phi 600$ mm <b>OP</b> (Adjacent toolsets must be empty)	

	Specification	Shape
Max. Length	L = 600 mm	
Max. Weight	W = 30 kg	
Magazine capacity	40 {60 / 90} <b>OP</b>	

# Convenience

## 1 Convenience of operation

Standard equipped with FANUC 0iF PLUS system, improve user operation convenience.



The use of ergonomic design, the user more convenient operation slope operation panel makes the operation more convenient.



The newly designed operation panel gives GHB series quick access to commonly used functions thanks to differentiated shortcut keys.

Optimized design of the operating panel for improved convenience.

Comes standard with a pulse handle for easy operation and an MPG for easy workpiece fixation. The top of the main operating panel is equipped with a single lever point switch (standard) to facilitate the long axis movement of large machine tools.



Portable MPG



ATC Operation panel



3 portable MPG

OP



MPG with LCD display

OP



Single lever point switch

# User-friendly software (EOP Function)

## User-friendly software



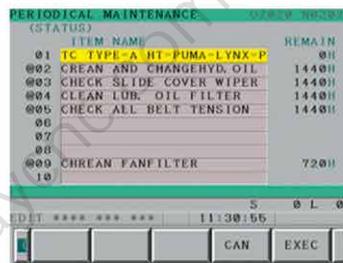
### Tool load detection

Use the M code to automatically detect tool wear when the workload is abnormal. Can store the specific processing data of the workpiece.



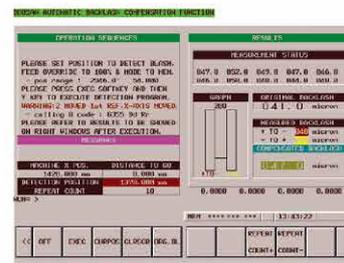
### Tool management

Avoid abnormal load on the servo shaft by skipping the tool or issuing a stationary alarm.



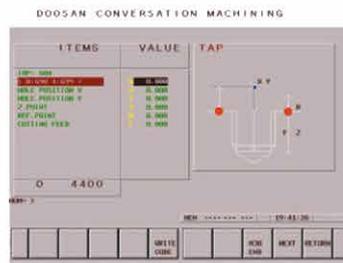
### Periodic check function

This feature updates the operator's maintenance-related information, such as refill time.



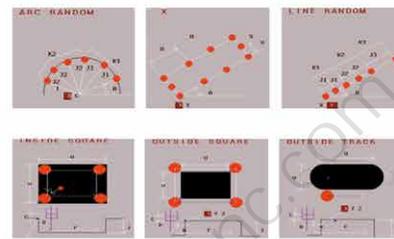
### Auto back backlash compensation

After the workpiece is set, the feed backlash is automatically detected and compensated by G-code instructions or through the function screen.



### Simple mode cycle

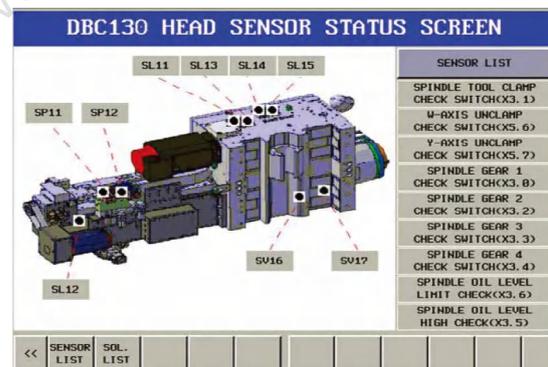
Major processing mode loops and programs can be created by entering only major factors. This feature is built into the CNC, thus greatly reducing programming time and making it easy to use in the field. A total of 22 modes are available, including 5 basic modes.



## Maintenance Support - Simple operation guide

OP

Detect machine faults including ATC tool library and recommend corrective actions to troubleshoot faults. For simple instructions, display Windows are provided - including function selection, thermal error setting, program processing display, and operation report display.



# Various optional configurations

## 1 Chip conveyor OP

Chip conveyor	Material	Note
hinge type	Steel	Common chip conveyor types are suitable for steel production of 30mm or longer lengths of chips
Drag type	Cast iron	The conveyor with magnet is suitable for the processing of cast iron with small and fine chips



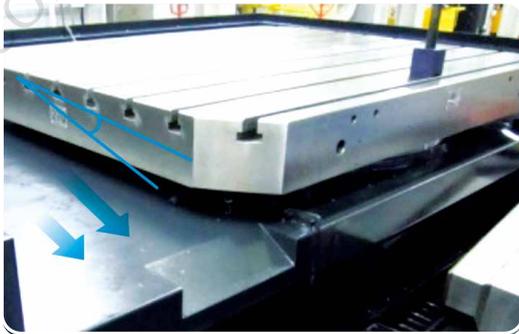
Drag type



Hinge type

Drum filter

## 2 Optional



Chip catcher ST



Coolant gun OP



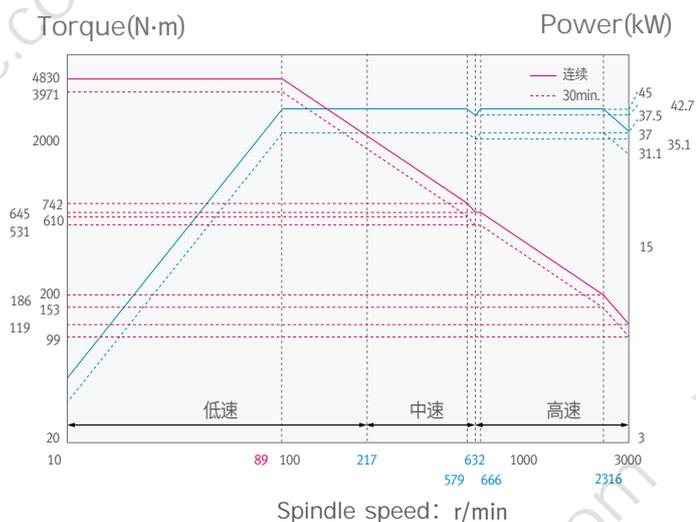
Hinged chip extractor ST



Lifting chip extractor OP

### 3 SPINDLE (GHB SERIES)

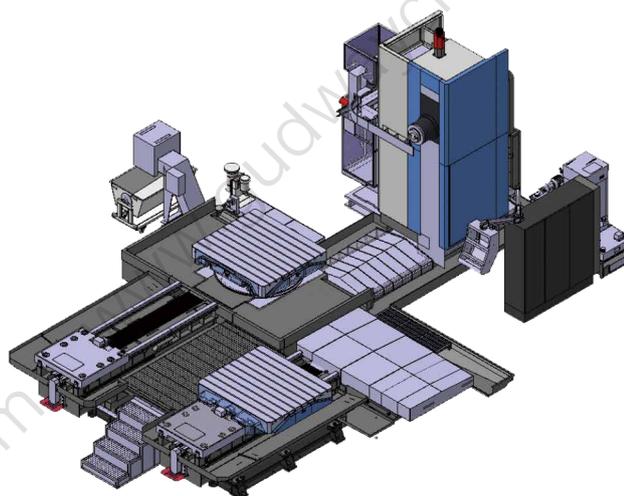
Speed 3000 r/min, Power 45/37kW OP



### 4 (APC)

OP

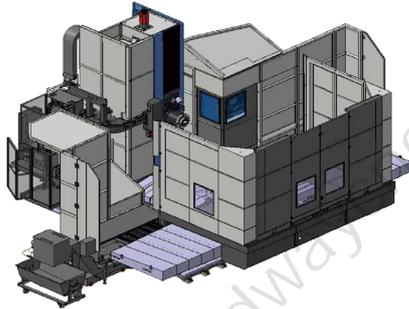
GHB SERIES WITH APC 3D LAYOUT



#### APC Specification

Description	Unit	Specification
Number of pallet	ea	2
APC type	-	Parallel propulsion (Z-axis direction)
Pallet size (W x L) and workpiece load	mm & ton	<ul style="list-style-type: none"> <li>• 1600 x 1800 &amp; 10</li> <li>• 1800 x 2000 &amp; 8</li> </ul>

**5** Semi-enclosed shield OP



**6** grating ruler OP  
(X/Y/Z)



**7** (TSC) OP

	20 BAR	30 BAR	70 BAR
Specifications (Pressure/flow)	MAX. 2 MPa / MAX. 20 L/min	MAX. 3 MPa / MAX. 15 L/min	MAX. 7 MPa / MAX. 30 L/min
Pump type	Gear pump	Gear pump	Screw Pumps
Tank specifications (with filter)	Independent water tank40L	Independent water tank40L	Independent water tank65L
Pump power	1.5kW	1.5kW	7.5kW

**8** Special option OP

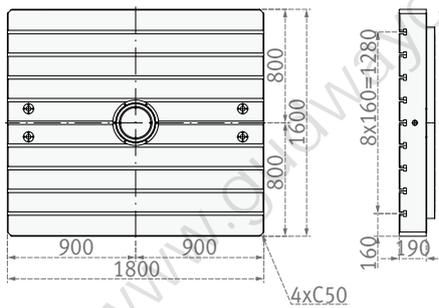
<p>1. Angle head (Manual ) (L=365mm)</p> 	<p>2. Elongated Angle head (Manual) (L=660mm)</p> 	<p>3. Universal head Manual</p> 															
<p>4. Chuck (Manual ) (Ø650mm)</p> 	<p>5. Rotary Angle head (90° Auto)</p> 	<p>6. spindle carrier * ghb135h,L=310mm</p> 															
<p>7. Face milling head TA-Center (D' andrea) U-axis preparation • ATC tool changing</p> 	<p>8. Face milling headU-Tronic (D' andrea) U-axis preparation Manual tool changing Manual installation</p> 	<p>9. Angle plate (4 models)</p>  <p>Unit:mm</p> <table border="1"> <tbody> <tr> <td><b>A</b></td> <td>600</td> <td>1000</td> <td>1250</td> <td>2000</td> </tr> <tr> <td><b>B</b></td> <td>450</td> <td>500</td> <td>750</td> <td>1000</td> </tr> <tr> <td><b>C</b></td> <td>400</td> <td>550</td> <td>750</td> <td>1000</td> </tr> </tbody> </table>	<b>A</b>	600	1000	1250	2000	<b>B</b>	450	500	750	1000	<b>C</b>	400	550	750	1000
<b>A</b>	600	1000	1250	2000													
<b>B</b>	450	500	750	1000													
<b>C</b>	400	550	750	1000													

# Work table

UNIT: mm

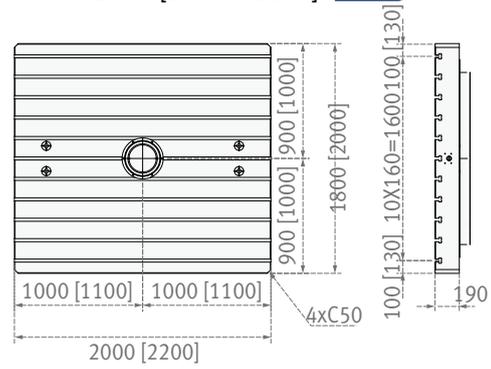
## GHB SERIES

1600 x 1800(63.0 x 70.9)



1800 x 2000 [2000 x 2200]

OP

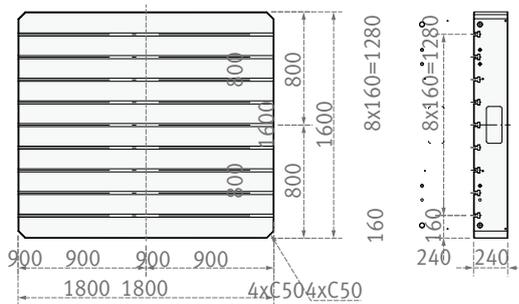


## GHB SERIES(APC)

1600 x 1800

OP

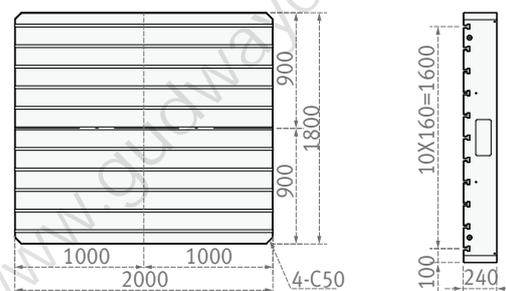
APC Capacity 10 tons



1800 x 2000

OP

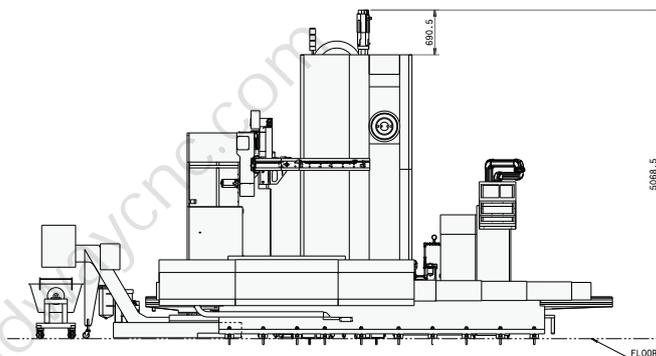
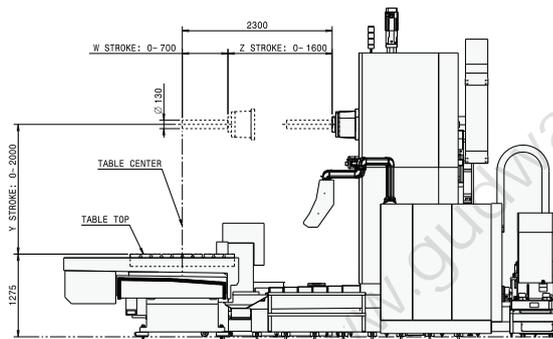
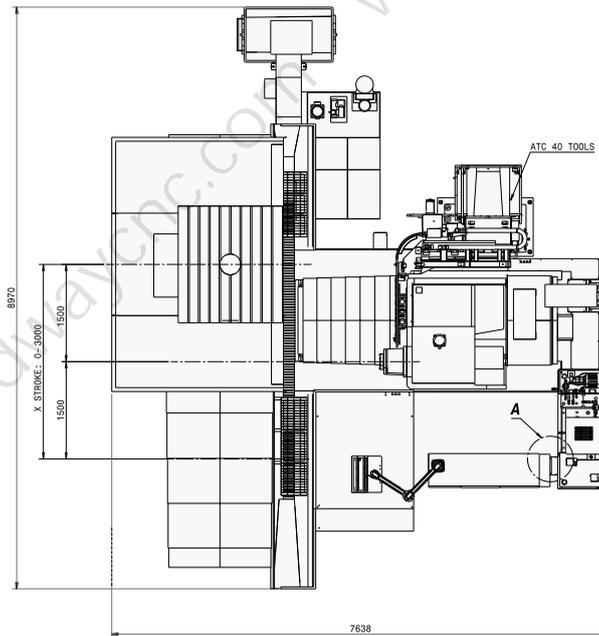
APC Capacity 8 tons



# Size

**GHB135H**

UNIT: mm

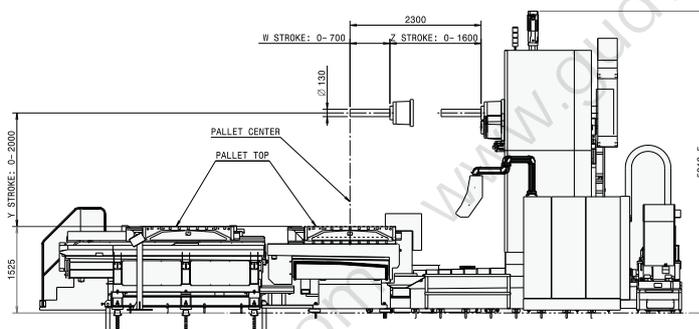
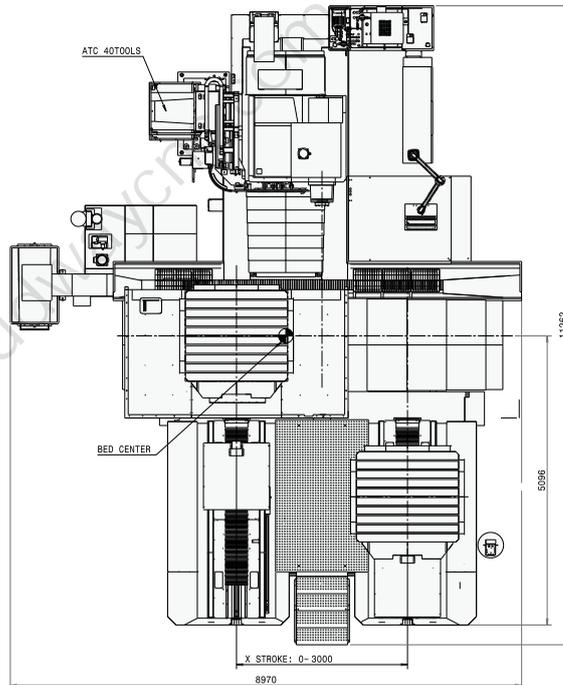


# SIZE

DGHB135H(APC)

OP

UNIT: mm



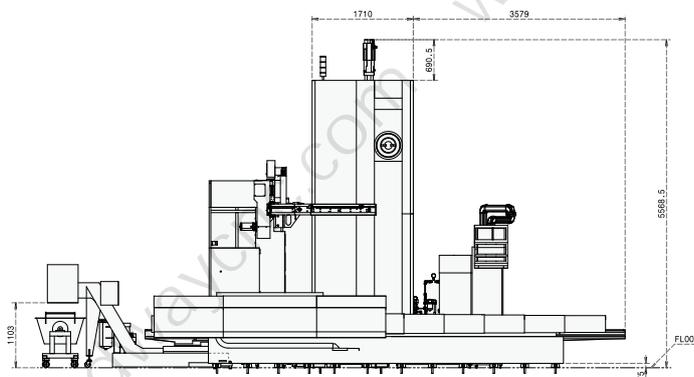
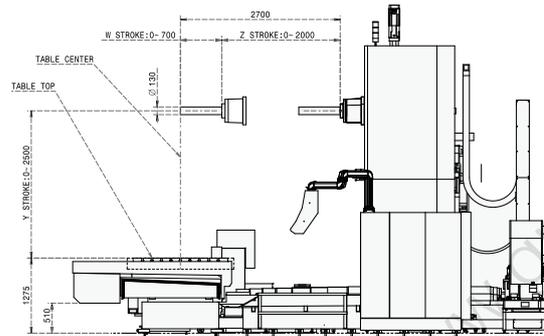
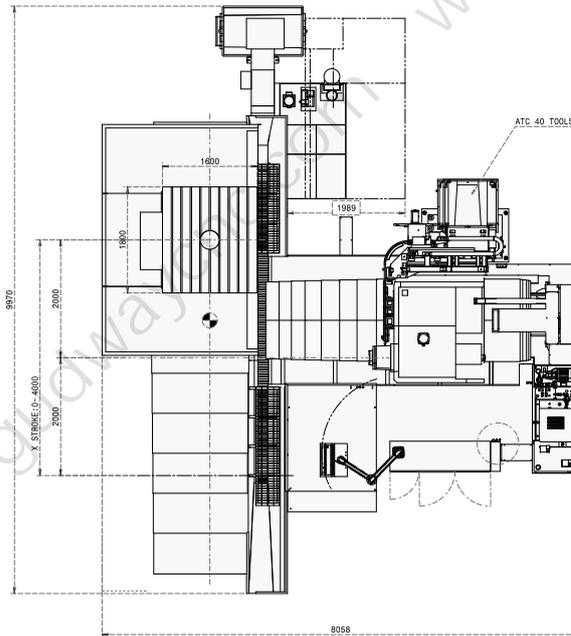
\* Some peripherals can be placed elsewhere  
 \*\* Anchor bolts are available. The foundation must be laid.

For more details about the specifications,  
 please contact us.

# SIZE

GHB135LH

UNIT: mm

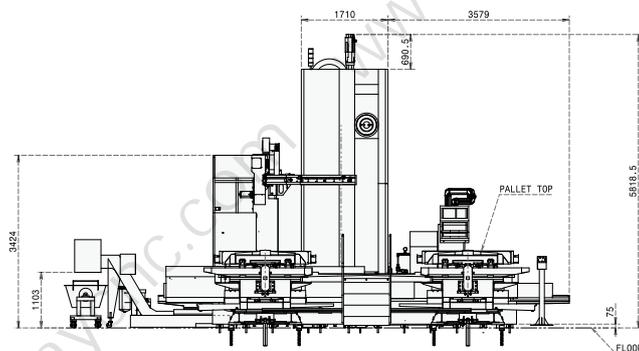
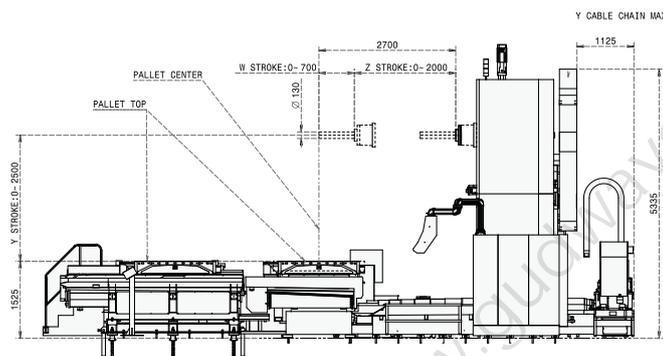
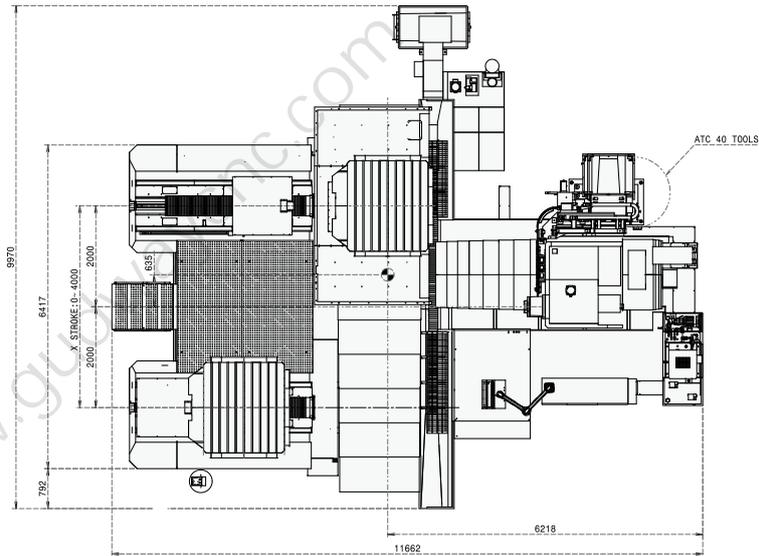


# SIZE

GHB 135LH (APC)

OP

UNIT: mm



\* Some peripherals can be placed elsewhere  
 \*\* Anchor bolts are available. The foundation must be laid.

For more details about the specifications, please contact us.

## Parameters

GHB series

ITEM		UNIT	GHB135H	GHB135H	
TRAVEL	X AXIS	mm	3000	4000	
	Y AXIS	mm	2000	2500	
	Z AXIS	mm	1600	2000	
	W AXIS	mm	700	700	
	Distance from spindle face to table surface	mm	0-2000	0-2500	
	Distance from spindle end face to center of table	mm	700-2300	700-2700	
TABLE	TABEL SIZE	mm	1600x1800 {1800x2000,2000x2200}	1600x1800 {1800x2000,2000x2200}	
	Tactical diameter	without simi-S/G	mm	Φ3900	Φ4800
		with simi-S/G	mm	Φ3400	
	Max. load	kg	15000 {13000,12000}	15000 {13000/20000,12000/19000}	
Spindle	Maximum spindle speed	r/min	3000		
	Boring bar diameter	mm	Φ130		
	Maximum spindle motor power	kW	26/22 {30/22,45/37}		
	Maximum spindle torque (30min)	N·m	3383		
ATC	Tool storage capacity	ea	40 {60/90}		
	Shank type		MAS403 BT50		
	Maximum tool diameter (continuous)	mm	Φ130		
	Maximum tool length	mm	600		
	Maximum tool weight	kg	30		
	Maximum tool moment	N·m	34.3		
	Tool change time (cutting - cutting)	s	30		
	Tool change time (tool-tool)	s	20		
Feedrate	Fast feed(X/Y/Z/W)	m/min	10/10/10/6	10{7}/8/10/6	
	Cutting feed speed	mm/min	1-4000		
Power	Power supply (rated power)	KVA	70		
Tank capacity	Coolant tank capacity	L	120	110	
	Lubricating oil pot capacity	L	45		
Size	Height	mm	4910	5570	
	Length x Width	mm	8970x7660	9970x8040	
	Weight	kg	45650	50650	
NC system			FANUC Oi PLUS {31i,32i}		

• {}

### ST

- Working light(LED)
- Internal hinge chip extractor
- Lamp(red, yellow, green)
- Installation parts
- Spare parts
- Install & debug tools
- Spindle cooling unit & oil cooler

### OP

- Chip extractor - side mounted
- Chip truck
- CTS
- CTS preparation
- Test bar
- Auto off
- Auto measurement system
- Aut tool length measurement
- Water gun system
- Scale ruler-X/Y/Z axis
- Oil skimmer
- Column heightening-250mm
- Auto pallet exchange device

## NC specification

### FANUC iPlus Series (ST)

<b>Axis control</b>	
- Axis control	4 (X, Y, Z, B)
- Simultaneously Controlled Axes	
	Position (G00)/line interpolation(G01): 4axis
	Circle interpolation(G02,G03): 2axis
- Control shaft removal	
- Reverse gap compensation	
- Emergency stop/trip	
- HRV control	HRV3
- Position tracking	
- Incremental system	0.001/0.0001 mm/inch
- Least input increment	0.001/0.0001 mm/inch
- Incremental system C	ISXC
- Machine lock	All axis/Zaxis
- Mirror	All axis
- Memory pitch error compensation	
- Memory trip check	
- Position switch	
- Absolute pulse encoder	
<b>Interpolation and feed function</b>	
- Return to the second reference point	G30
- Return to reference point 3/4	
- Circle interpolation	G02,G03
- Nanointerpolation	
- Inverse time feed	
- Cylindrical interpolation	G07.1
- Polar coordinate interpolation	G15,G16
- Feed pause	G04
- Exact stopping mode	G09,G61
- Feed rate ratio(10%)	0-200%
- Spiral interpolation	
- Pre-read interpolation bell acceleration and deceleration	
- Smooth reverse clearance compensation	
- JOG rate 10%	0-200%
- Automatic corner magnification	G62
- Automatic corner reduction	
- Cutting feed rate pliers	
- Rapid fluid acceleration and deceleration	
- Linear interpolation	G01
- Manual feed per turn	
- Hand wheel feed rate	0.1/0.01/0.001mm
- Rate cancel	M48/M49
- Manual wheel break	
- Position	ONLY DBC 135 II
- Fast feed rate	F0 (fine feed),25/50/100%
- 返回参考点	G27,G28,G29

- PASS	G31
- Feed per minute	mm/min
- AICC II	200BLOCK
- Selection of processing conditions	
- High speed and high precision processing package	
- Interpolation pitch error compensation	
- nanosmoothing	
- Acceleration control	
<b>Spindle and M code function</b>	
- M code	M3 digits
- Orientation	
- Spindle serial output	
- Spindle speed function	55 digits
- Spindle output switching	
- Rigid tap return	
- Rigid tap	G84,G74
- Spindle speed ratio	50-150%
<b>Tool function</b>	
- Tool radius compensation C	G40,G41,G42
- Tip radius compensation	G40,G41,G42
- Number of tool offset	400 pairs
- Tool life management expanded	
- Tool life management	
- Tool length compensation	G43,G44,G49
- Tool length measurement	
- Tool function	T8 digits
- Tool length compensation	
- Tool compensation	G45 X G48
- Tool function	
- Tool life management	
- Tool compensation storage C	H/D code, Geometry / Wear memory
- Tool length measurement	
<b>Programming and editing functions</b>	
- Absolute/incremental programming	G90/G91
- Automatic coordinate system setting	
- Background editing (background editing)	
- Process recycle	G73,G74,G76,G80-G89,G99
- RProgramming circular interpolation	
- User macro	
- User macro public variable appends	#100 - #199, #500 - #999
- 1010 times the input unit	
- Multistage jump	
- Macro actuator	
- User package	6M
- Extension editing	

## NC specification

### FANUC i Plus Series (ST)

RS-232C interface	
-USB port	
Imperial/metric conversion	G20/G2
- Mark Skip	
Maximum instruction value	+ / - 99999.999 mm (9999.9999 inch) -
Number of programs that can be stored	500 ea
Select program segment Skip	
- Select Stop	M01
Parts program store length	2 m
- Program protection	
- Program number	04 digits
- Sequence number	N5 digit
Inversion function	
- Program stop/end	M00,M02,M30
Programmable data entry	Type tool compensation and workpiece compensation through G10,G11
- Rigid tapping	G84,G74
Subroutine call	10 layers of nesting
Paper tape code	EIA RS422/IS0840
- Thread cutting	
Local/machine coordinate system	G52/G53
- Program restart	

#### Other functions (operation, setting, display, etc.)

- Alarm display
- Report history shows
Self-actuating Angle multiplier G62
- Clock display
- Start running/hold
-PMC alarm information display
- Empty operation
- Actual speed display
- Embedded Ethernet
Memory card-based DNC running
- External data entry
- Multilingual display
-Cs profile control
RS232 interface (for 2ch)
- Polar coordinates commands G15,G16
- Programmable mirror G50.1,G51.1
Schema data entry
-FS10/11T format
- Graphic display
.Help function
- High-speed skip function

Load table display	
- Display device	10.4" color LCD/MDI
Look-ahead control	G08
Memory card port	
- Operating functions	
Operation resume display	
Arbitrary chamfer/comer R	
Programmable data input ONLY DBC 135II	
Run time and component count display	
Scale scaling	G50,G51
Coordinate system rotation	G68,G69
Retrieval function	Sequence number/program number
Self-diagnostic function	
Servo setting screen	
Single step run	
One way position G60	
Store Trip Check 2	
Ethernet Features	
Automatic data backup	
Dynamic graphics display (10.4"ColorTFT LCD)	
- Machining quality level adjustment function	
-EOP(Easy Operation Package)	
Toolload monitoring function	

#### Optional specification

- Additional control axis number	5 axes in total
- Hand controlled hand rotation retreat	
- Data Server	
- Operational bootstrap i	
- Operation guide 0i	
- Word carving	
-CF Card (2GB)	
-PROFIBUS-DP	
PROFINET	
-CC-LINK	
- Number of login programs	1000
- The number of workpiece coordinate system groups is added	G54.1 P1X300 (300 pairs)
- Incline plane indexing instruction	G68.2,Guidance screens is not shown on8.4"LCD
Incline plane indexing instruction function	G68.2 TWP command on guidance window
- Multi-spindle control	
- Data server (1GB PCMCIA card)	
- Fast Ethernet board	
Three-dimensional coordinate conversion	G72.1, G72.2
- Graphic copy	
- Machine timestamp function	
-EZGuide1(10.4"Color TFTLCD)	

# NC specification

FANUC 31i  
Series (OP)

Axis control	Select Stop	M01
Number of control axes 4(X, Y, Z, B) Program file name 32 characters		
Also control axis number 4 axis serial number N 8-digit		
Positioning (G00)/ Linear Interpolation (G01):3 axes Program protection		
Arc Interpolation (G02,G03): 2-axis program stop [End M00/M02,M30		
Reverse gap compensation programmable data input tool offset with workpiece offset by G10,G11 input		
Emergency stop/overpass subroutine call 10 layers nested		
Location tracking paper tape code ISO/EIA automatic identification		
Increment system 0.001mm/0.0001" G54-G59		
Minimum input increment 0.001mm/0.0001" Additional workpiece coordinate system G54.1P1-48 pairs		
Machine locks all axis/Z-axis rotating coordinate system G68,G69		
Mirror each axis extension section program edit		
(Set screen and M function) Optional chamfer Angle R		
Memory type pitch error compensation Macro actuator for pitch error compensation of each axis		
Storage stroke check 1 Overrange is controlled by software rigid tapping diamond acceleration and deceleration (NHP series)		
Interpolation and feed function Other functions (operation,setting,display,etc.)		
Locate the G00 USB port		
Straight line interpolation G01 alarm display		
Arc interpolation		91.1 resume shows
Feed pause	G02,G03	Actual cutting speed displayed
Exact way to stop	G04	Clock display
Skip	G09,G61(mode)	Start running/feed hold (cycle stop)
Return to reference point to check	G31	Information displayed when PMC alarm occurs.
Return to reference point check	G27	Display
Return to the second reference	G28	Running Empty
Return third/fourth reference point (HM1000/1250 is	G30	Single step run
		Ethernet features (Embedded)
Feed per minute	mm/min.	Graphic display
Quick feed multiplier	F0(fine feed),25/50/100%-0-200%	Help features
JOG magnification (10%)	0-200%	Load table display
Magnification Cancel	M48/M49	Display device
Manual feed for each turn		Memory card interface
Hand wheel feed multiplier	0.1/0.01/0.001 mm	Operating function
Automatic acceleration/deceleration		Operating history display
Spiral interpolation		DNC operation with memory card
AI Contour Control II	200	Program restart
Machine status selection function		Run time and part count display
Thread cutting, synchronous cutting		Retrieval function
Program restart		Self-diagnostic function
Automatic corner deceleration (specify AI contour control IJ)		Servo setup screen
Linear acceleration and deceleration before		External data entry
Linear acceleration and deceleration before		Multilingual display
Control axis separation		Optional specification
Diamond quick feed acceleration and		3D coordinate conversion
Leveling clearance compensation		3D tool compensation
Spindle and M code function		Additional tool life management tool logarithm 1024 pairs
M code function	M3 digits, AI Profile control pre-read 600 paragraphs	Attach control shafts up to 6 shafts per channel
Spindle orientation		Additional workpiece coordinate system G54.1P1-300(300 pairs)
Spindle serial output		Preread 1000 paragraphs
Spindle speed function	S5 digits	Automatic corner magnification G62
Spindle speed multiplier	10-150%	Cutting function G81.1
Spindle Output conversion		Cylindrical interpolation G07.1
Rigid tapping backdrop		Data server
Rigid tapping	G84,G74 =	Dynamic graphics show the contour of the machining wheel is displayed
		The dynamic graphics display function cannot be installed when using interpolation type pitch error compensation
Tool function EZGuidei (Doosan Interactive Program Scheme)		
Tool Tip Radius compensation FS15 tape format		
Number of tool offset		Increment system 1/10
Tool length compensation		Graphic copy G72.1,G72.2
Tool function		Manual hand wheel feed 2/3 unit
Tool Life Management		Hand wheel interpolation
Tool compensation store C H/D code,Geometry /Wear memory		High speed jump function
Tool length measurement		Involute interpolation G02.2,G03.2
Programming and editing functions		Screw interpolation
Absolute/incremental programming G90/G91-		Third/fourth reference point return
Automatic coordinate system setting machining time identification function		
Background editing (background editing - register the number of programs 1000 ea		
Machining recycle G73,G74,G76,G80-G89 Gg9 Tool compensation number 400/499/999/2000 ea		
R programming arc interpolation 2-9 blocks		
Work plane set G17,G18,G19 program storage capacity 512kb(1280m)kbyte		
User Macro B 1 MB (2560 m) / 2 MB (5120 m) / 8 MB mbyte (20480 m)		
Custom software size 8MB(31i) Rewind feature		
Extended P-code variable size 512kb Polar coordinate instruction G15/G16		
Add custom macros Common variables #100-#199,#500-#999- polar coordinate interpolation G12.1 / G13.1		
10x input unit programmable image G50.1 / G51.1		
I/O interface RS-232C. Scale to scale G50,G51		
Imperial/Metric conversion G20/G21- single phase positioning G60		
Mark Skip Storage type trip detection 2/3		
Local/machine coordinate system G52/G53- Tool position offset G45-G48		
Max command value (±9999.9999inch)- Position switch		
Part program Storage Length 256kb (640m)256kb Tool center vintage control G43.4		
Number of programs that can be stored 500 ea- Turntable dynamic fixture compensation		
Selecting Program segment Skip *) indicates advance negotiation is required		

## GHB SERIES



Item	UNIT	GHB135H	GHB135H
Travel (X/Y/Z/W)	mm	3000/2000/1600/700	4000/2500/2000/700
Max. spindle motor power	kW	26/22 {30/22,45/37}	26/22 {30/22,45/37}
Spindle power rate	r/min	3000	3000
Tool Capacity	ea	40 {60/90}	40 {60/90}
Fast move(X/Y/Z/W)	m/min	10/10/10/6	10{7}/8/10/6

**SUZHOU GUDWAY CNC EQUIPMENT CO.,LTD**

Address: Room 418B-35, Building 6, No. 25 Lushan Road, New district, Suzhou, China