GLH SERIES

Linear rail type Horizontal machining center

550· 630 · 800

SUZHOU GUDWAY CNC EQUIPMENT CO.,LTD

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GUDWAY

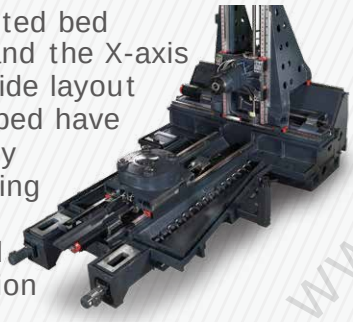
GLH SERIES

GLH 550
GLH 630
GLH 800

GLH550/630/800 series with BT 50 tool holder, high speed and high rigidity design, can achieve high productivity while carrying out heavy cutting, and offers GLH550 and GLH800 single pallet models, coupled with a wide range of optional configurations, to meet the diverse needs of users.

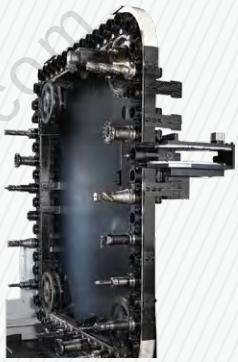
1 High rigidity structure

The integrated bed structure and the X-axis stepped guide layout make the bed have good rigidity corresponding to heavy cutting and high-precision processing.



2 Efficiency

Servo driven ATC, good high-speed transfer shaft acceleration/ deceleration performance, improve productivity.



3 Automated convenience

Multi-pallet system or linear pallet system can be configured according to production requirements to achieve automation and intelligence. Among them, the single pallet model uses the lower row of pipes, which is easier to realize automatic connection.

High rigidity structure

The stepped rail layout and the one-piece bed provide the overall structure with high rigidity.

1 Step guide rail

The stepped rail bed structure can support the column stably and achieve high rigidity.

2 Stable and fast axial feed structure

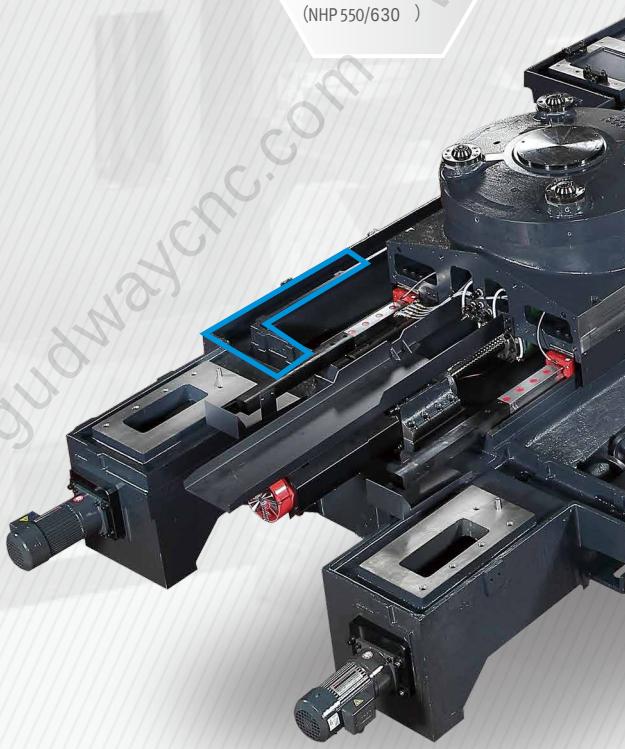
All shafts are equipped with roller linear guides and 3 rows of angular contact thrust bearings at both ends to improve the overall reliability of the equipment. Low noise, high precision ball screw support high precision shaft feed.

	UNIT	GLH 550	GLH 630	GLH 800
Travel (X/Y/Z)	mm	800/750/850	1050/900/1000	1400/1200/1370
Fast feed (X/Y/Z)	m/min	60/60/60	60/60/60	50/50/50

X,Y,Z travel 1400/1200/1370 mm (GLH 800)

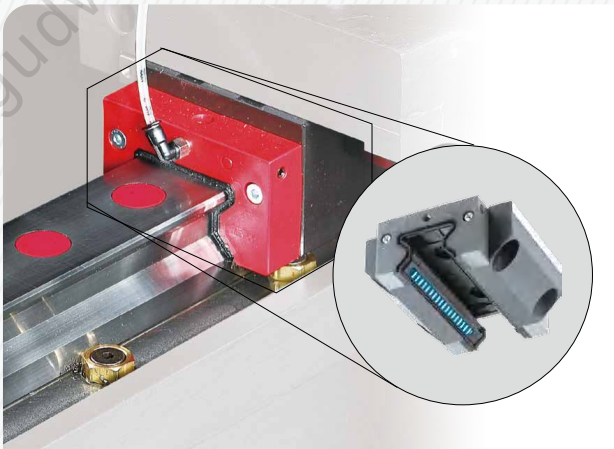
Fastfeed 60/60/60 m/min (NHP 550/630)

Distance between spindle end face and center of table 100mm (NHP 550/630)



One-piece bed structure

One-piece bed structure



High rigidity, high precision roller linear gui

Powerful spindle with excellent performance

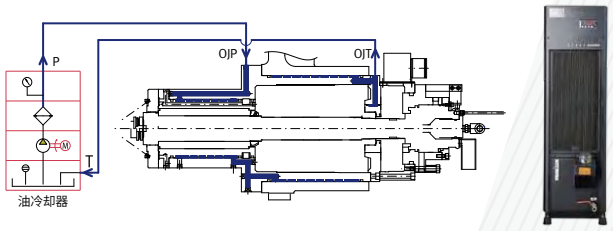
1 High speed, high performance spindle

Equipped with a high-performance spindle, effectively reduce the vibration and thermal errors generated during high-speed machining of the spindle, and provide excellent acceleration and deceleration performance. High-torque built-in motorized spindles provide the machining capacity required for high-force cutting.

	ST	OP	OP
Speed (r/min)	10000	6000	15000
Power (kW)	45/25	37/25	37/30
Torque (N·m)	600	809	398
holder type	ISO #50		

2 Spindle cooling system

The standard spindle oil cooling device can reduce the thermal error caused by vibration and heating in the case of long processing time, and maintain good processing accuracy.



3 Double-sided tool clamping system

The double-sided tool clamping system improves the tool clamping stability, reduces the impact of vibration, and improves the tool service life and the surface roughness of the workpiece.

Shank type
BT 50

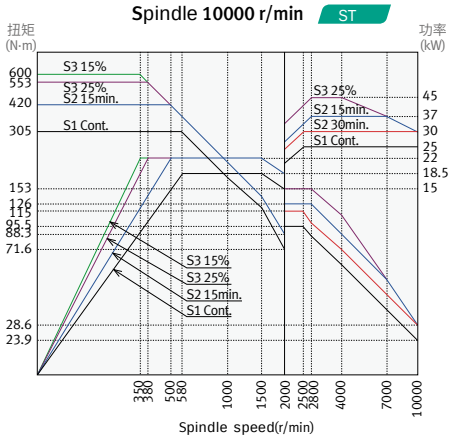
Spindle speed
10000 r/min
{OP: 6000,15000r/min}

Motor
Power
45/25 kW
{OP: 37/25, 37/30}

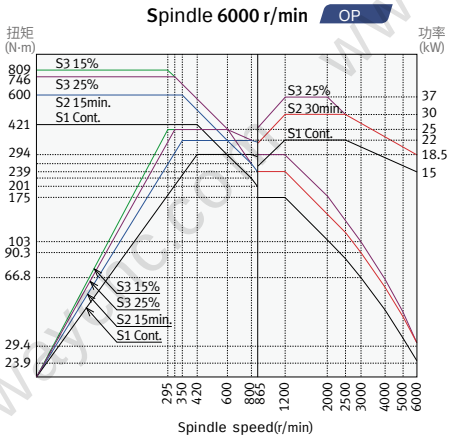
Spindle torque
600 N·m
{OP: 809,398 N·m}

Spindle power-torque

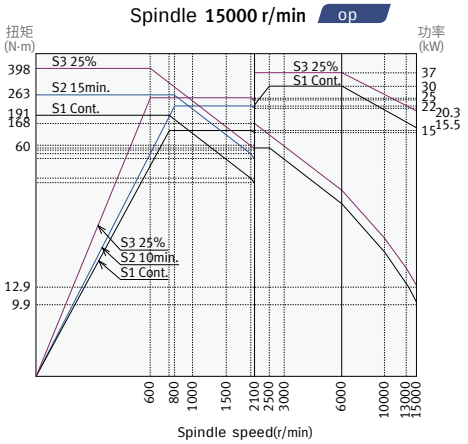
Spindle 10000 r/min ST



Spindle 6000 r/min OP



Spindle 15000 r/min op



High reliability

1 Servo drive ATC (Automatic Tool changer)

The servo-driven ATC, which can be equipped with up to 30kg of tools, can change the tool in 2 seconds, thereby reducing the non-cutting time and enabling fast tool change through tool positioning and spindle positioning.

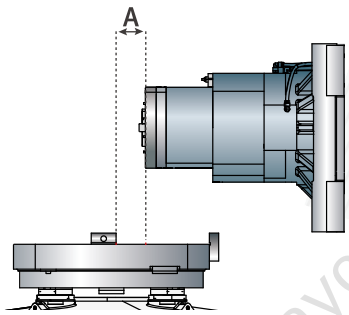
Specifications (Tool Max diameter x tool Max length)		
		GLH 550
ST (mm)	BT/CT/DIN	320 x 530
	HSK	320 x 630
OP	BT/CT/DIN	-
	HSK	

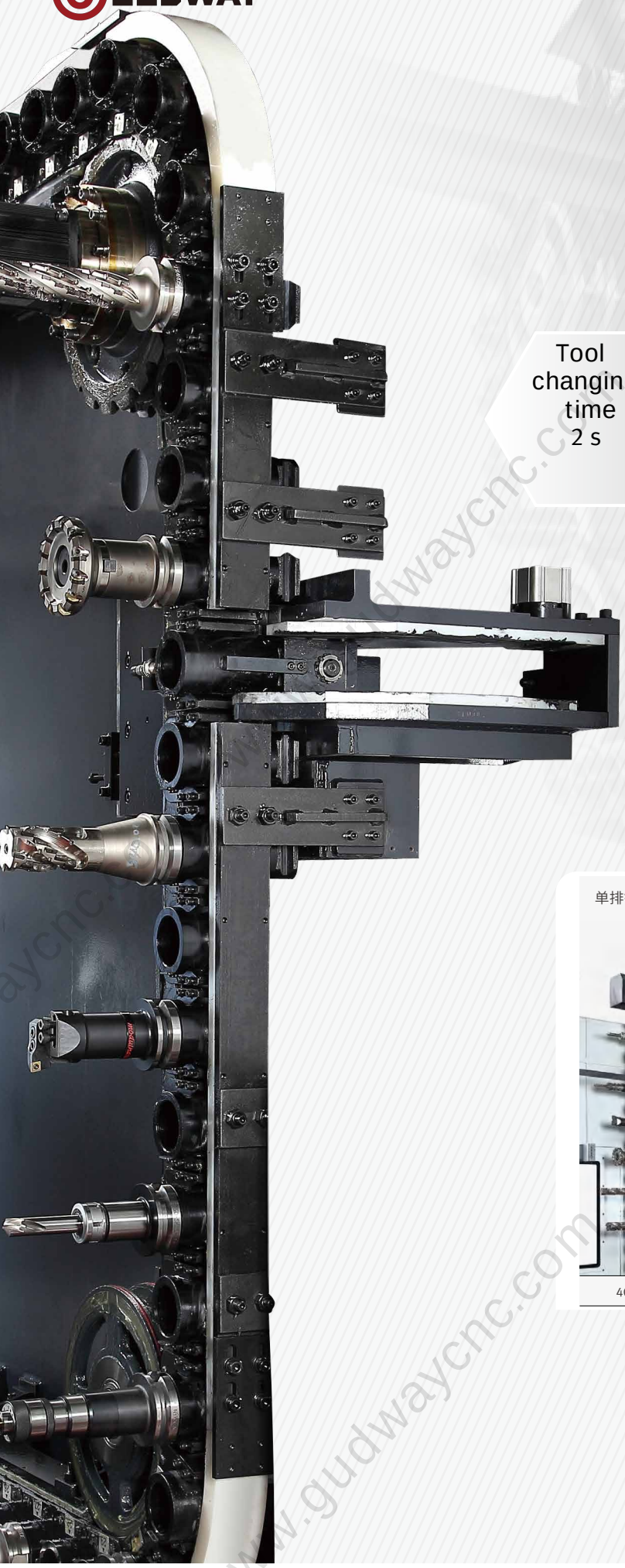
Tool change time (tool weight less than 12KG)			
	GLH 550	GLH 630	GLH 800
Tool-tool	2s		
Cutting-cutting	5s	5.4s	6s

2 More convenient short tool machining

The distance between the spindle and the center of the tray is reduced, allowing for heavy cutting with shorter tools.

- Tool diameter increases, rigidity increases
- Reduce Z-axis displacement at high speeds
- Extend tool life





Tool specification
ø 320x630 mm
(Max tool dia X length)
(GLH 8005)

Tool changing time
2 s

Tool capacity
40
{OP：60 }

3 多种可选的刀库

用户可根据自身需求，选配链条式或矩阵式刀库，且提供若干种容量配置可供选择。

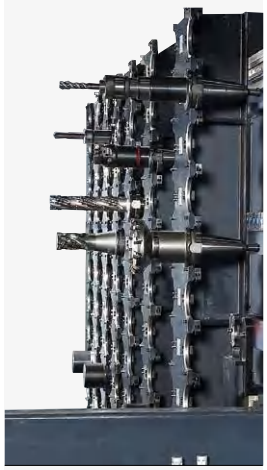
单排链式刀库

40/60 tool OP

链条式刀库 可选

90/120/150 TOOL

矩阵式刀库 可选



196/256/316/376 TOOL

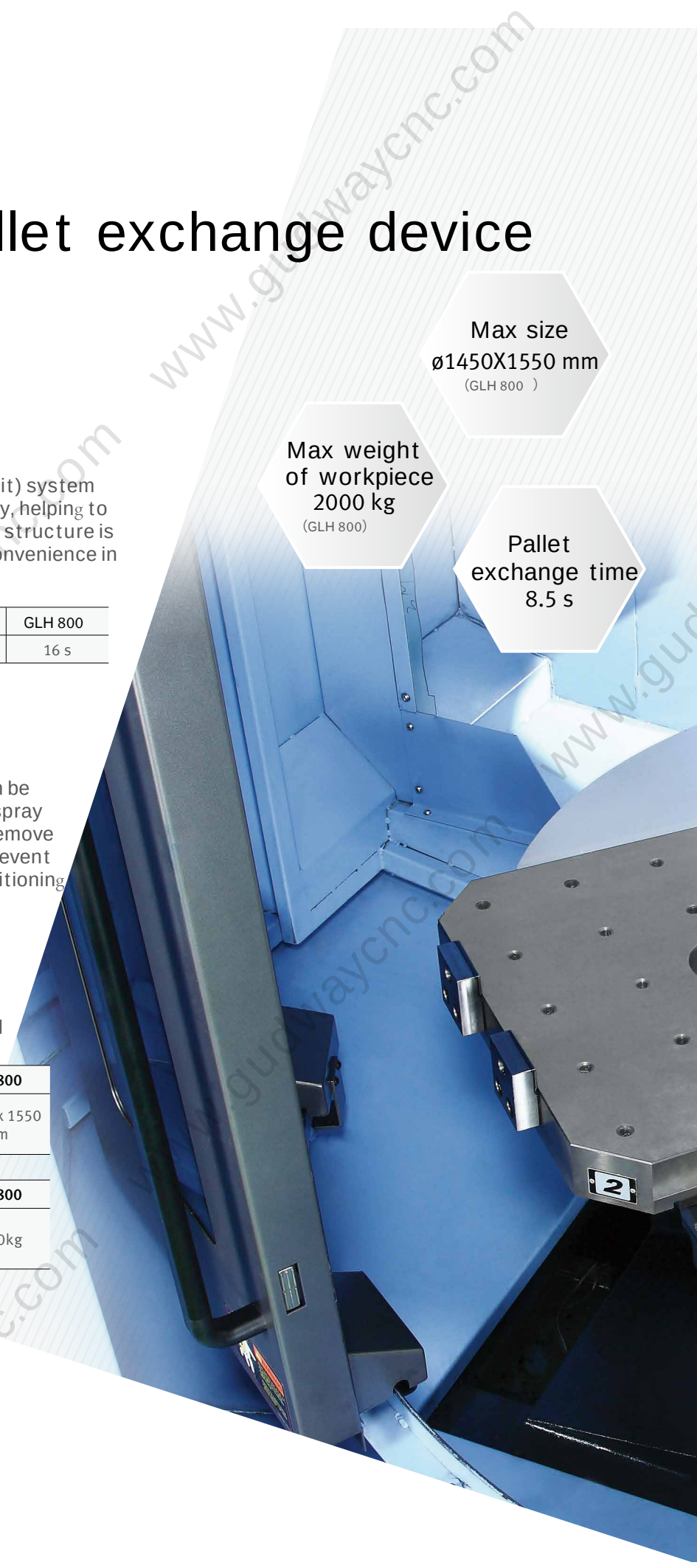
Automatic pallet exchange device

(Only for two pallet models)

Max size
ø1450X1550 mm
(GLH 800)

Max weight of workpiece
2000 kg
(GLH 800)

Pallet exchange time
8.5 s



1 Servo drive APC

The APC (Automatic Pallet Exchange Unit) system exchanges pallets quickly and accurately, helping to improve production efficiency. The APC structure is designed with operator maintenance convenience in mind.

	GLH 550	GLH 630	GLH 800
Pallet exchange time	8.5 s	12 s	16 s

2 Accurate pallet positioning

The positioning hole of the pallet nail can be controlled according to the program to spray compressed air, which can effectively remove the chip on the positioning surface to prevent the influence of residual chip on the positioning accuracy of the pallet.

3 Maximum workpiece size

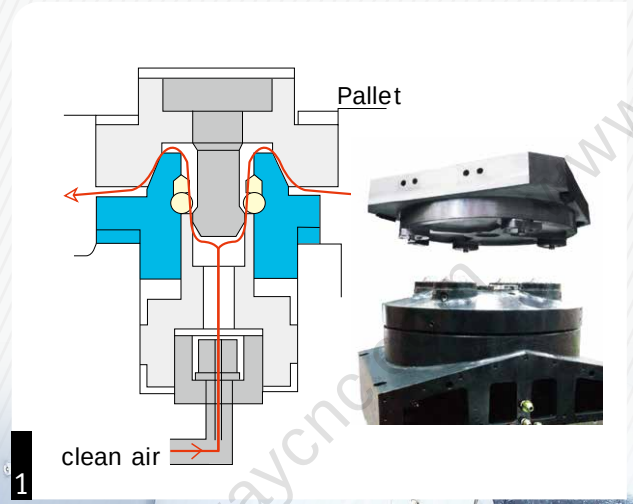
The wide processing area provides convenience for processing medium and large parts

	GLH 550	GLH 630	GLH 800
Max size (D X H)	ø850 x 1100 mm	ø1050 x 1350 mm	ø1450 x 1550 mm

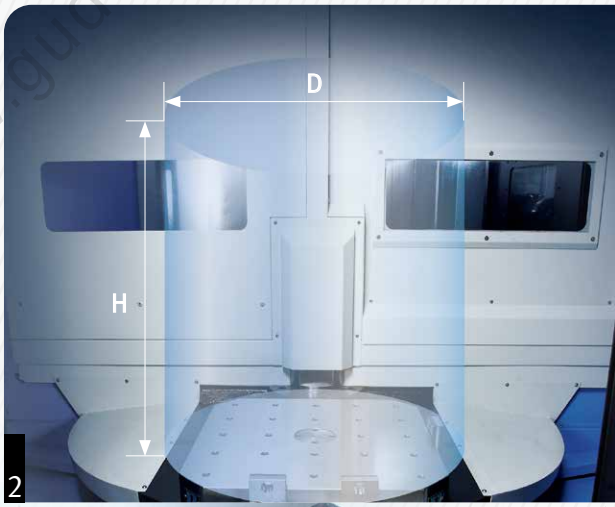
	GLH 550	GLH 630	GLH 800
Max weight (W)	800kg	1500kg	2000kg

4 Fixture system OP

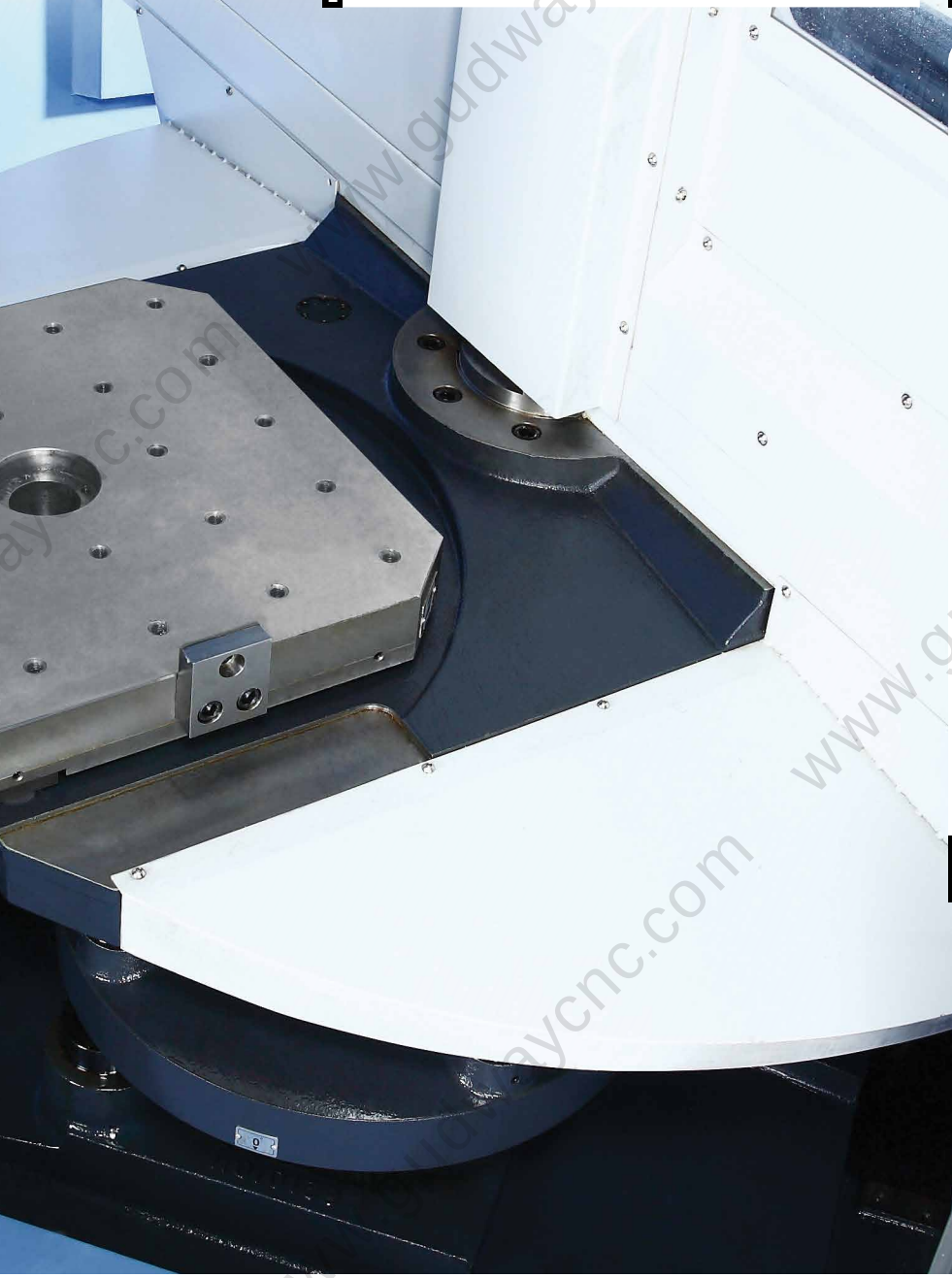
Select hydraulic and pneumatic fixtures according to user requirements.



1



2

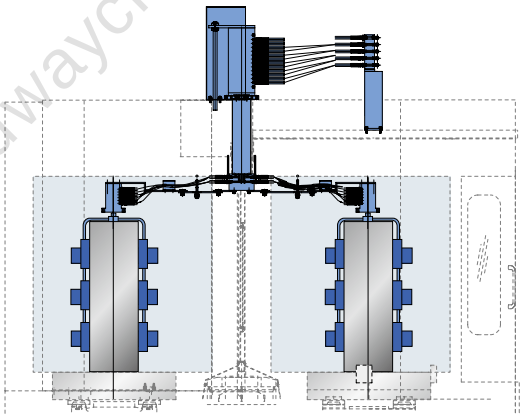


Hydraulic/pneumatic fixture sleeve

- A/B wire: 2、4、6、8 (including solenoid valve)
- P/T wire: 2、4、 6、8 (not include solenoid valve)

Hydraulic motor for fixed fixture

- 2.2 kW / 7MPa
- 3.7 kW / 15MPa
- 5.5 kW / 21MPa



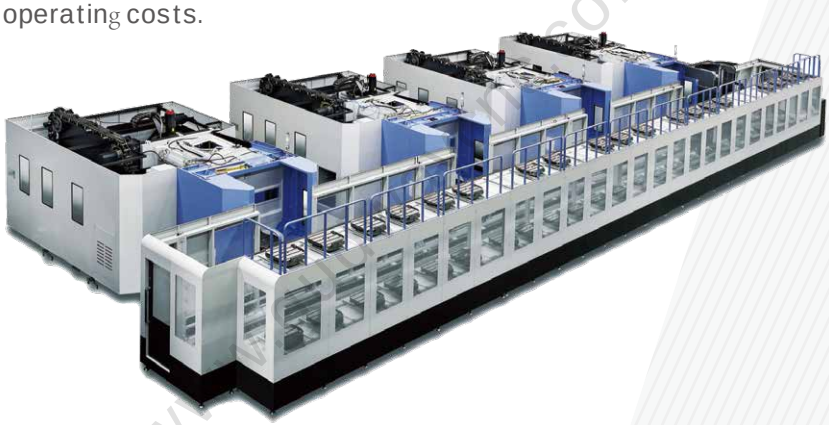
3

Pallet automation system

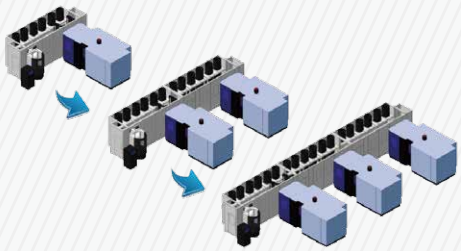
OP

1 Linear Pallet System [LPSII]

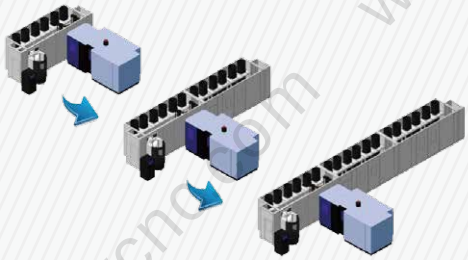
The LPSII linear pallet system is designed to provide users with a convenient automation system while reducing operating costs.



Increasing productivity



Increase automation uptime



LPS II MODEL	LPS 500 II	LPS 630 II	LPS 800 II
MODEL	GLH 550	GLH 630	GLH 800
Bifurcated type	双叉型		
Equipment number	1 – 7		
Number of tooling stations	1 – 4		
Pallet quantity	12 ~ 70	10 ~ 70	8 ~ 70
Dimensions (L x W)	7824 x 2400 mm	7904 x 2785 mm	8952 x 3500 mm

Feature

- Easy to expand
- Ample work space
- The system runs stably and efficiently
- Quick installation and commissioning
- Suitable for all HMC series machines
- Good maintainability

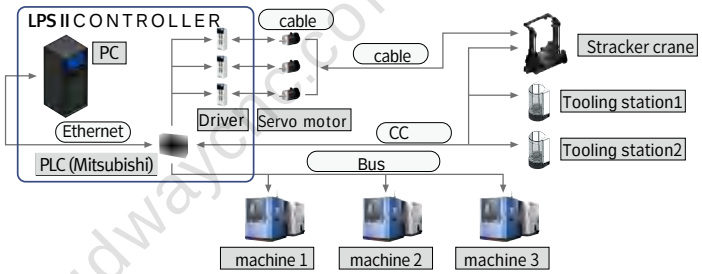
LPS Controlling software

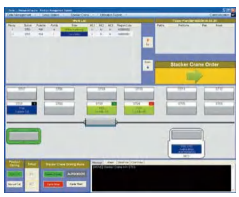
- Easy storage of basic information
- platform management software for fast, flexible production

Production Management System (DPMS)

DPMS is LPS's production management sy stem, which allows real-time management of production conditions and quick and eas y adjustment of production schedules throu gh software.

System diagram

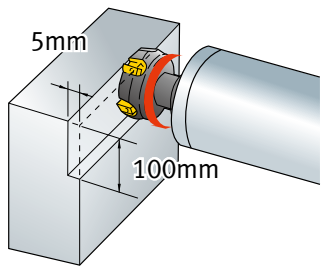




Machinability

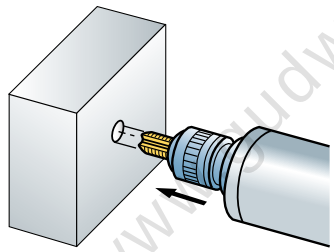
(Motor power : 45/25 kW)

1



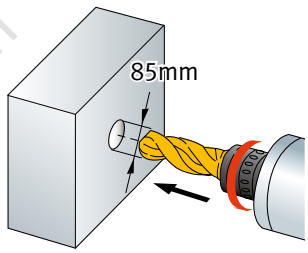
Carbon steel face milling (SM45C)	
Tool	ø125mm Face cutter(8Z)
Cutting per minute	700 cm^3/min
Spindle speed	500 r/min
Speed of feed	1400 mm/min

2



Carbon steel tapping (SM45C)	
Tool	M42×P4.5
Spindle speed	150 r/min
Speed of feed	675 mm/min

3



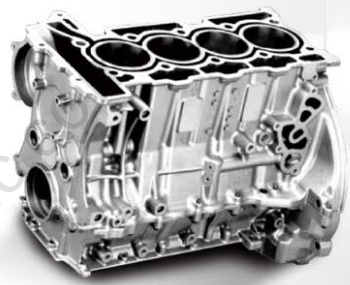
Carbon steel drilling (SM45C)	
Tool	ø85mm U型钻头 (2Z)
Cutting per minute	567 cm^3/min
Spindle speed	600 r/min
Speed of feed	100 mm/min

Productivity

The improved cutting performance is more than 8% higher than the previous model
- Workpiece: diesel engine cylinder block
- Material: Cast iron
- Number of knives used: 20 knives

Machining time

reduce by **8%**



OPTIONAL

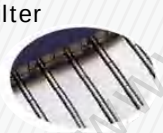
1 Chip conveyor

The disposal of debris is very important from the point of view of production efficiency and environmental protection. GLH models are equipped with a scour device as standard, and equipped with a large diameter spiral debris conveyor, which provides a guarantee for efficient debris removal.

Model	GLH 550	GLH 630	GLH 800
Coolant	825 L	925 L	925 L

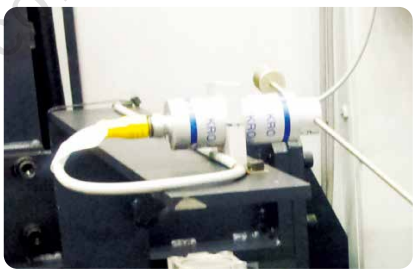
Drag type

Drum filter

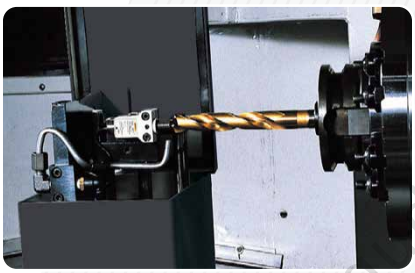


Hinge type

2 Measuring equipment



Automatic tool breakage detection device I OP



Automatic tool breakage detection device II OP

Automatic tool measuring device OP

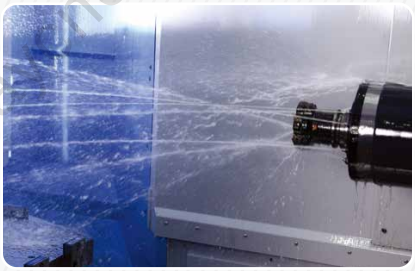
3 Environmental protection equipment

Oil skimmer

Oil mist collector OP

5 Chip handling system

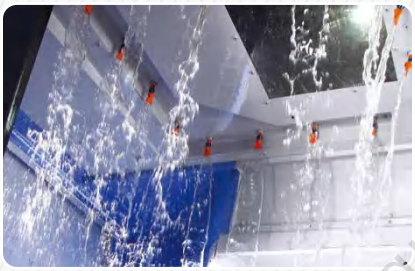
Rinse coolant



Standard cooling

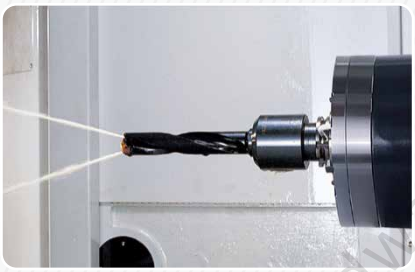
Spindle top wash

Spiral chip extractor



Spray coolant OP

Cooling gun OP



Spindle center discharge OP

OP

Micro-lubrication system oil mist device

Ease of use

1 Easy to operate

User-friendly design of the operation panel, custom function switch options, to provide convenience for operators.

Clamp lock/release buttons, counters, timers and other special optional buttons can be installed.

Partition button to prevent misoperation

PCMCIA CARD

USB PORT

Rotary operating panel

The operation panel can be rotated 90° and displays various alarm information and controller errors for the machine, which is more convenient for the operator.

PCMCIA CARD

PCMCIA card can upload and download NC program, NC parameters, tool information and ladder program, in addition to support DNC operation.

USB PORT

Allows the use of USB drive to upload/download NC software programs, NC parameters, tool information and ladder programs, but does not support DNC operation.

PORTABLE MPG

The portable MPG makes it easier for users to set up workpieces.

EOP

The Easy Operation Package (EOP) provides users with tool monitoring, management and help, operation and tray library.

Tool Manager

Tool Manager I

Tool magazine control
Display tool status
Fastems tool add/remove function OP

Tool Manager II OP

Tool magazine control
Tool life management
Tool life prediction
Display tool status
Balluff TOOL ID function

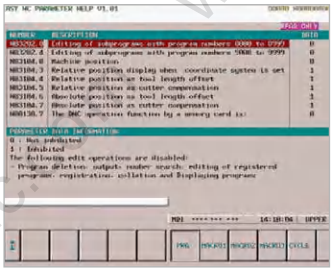
Tool load monitor

Tool damage detection
Anomaly detection during operation
No load blank cut detection

ATC/APC PANEL

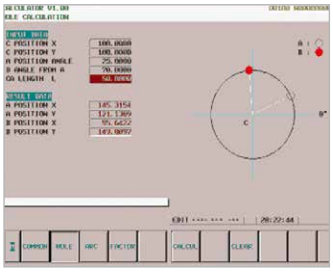
ATC Manual
APC Manual

Help



Simple NC parameters

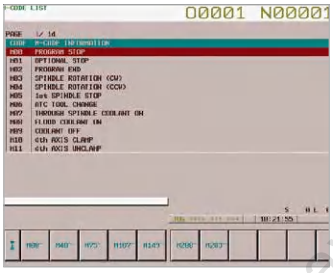
Main parameter help
Display parameter Settings



Calculator

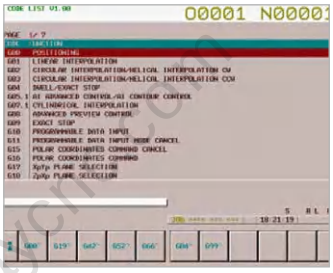
Calculator capabilities
- 4 kinds of arithmetic operations

Support for math functions



M code list

- List of main M codes



G code list

- List of main G codes

Operations

Running speed

Measure speed of various machine
Supports 3 shift operations
Calculate and store speed 30 days
Displays data for a specified date

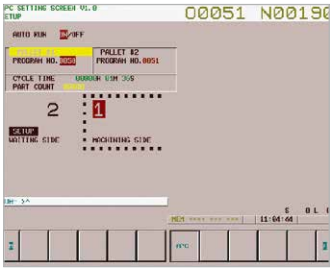
PMC switch

Operation panel function (op)
Replacement switch
NC software is optional

Pallet storage

Multi-tray station op

Control MPS operation
Displays MPS PMG information
Set processing progress
Automatic call function
Manual operation and coordinate setting functions



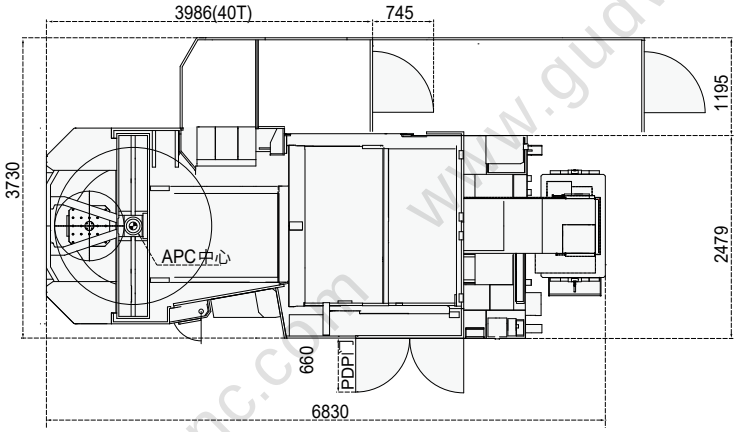
APC setting

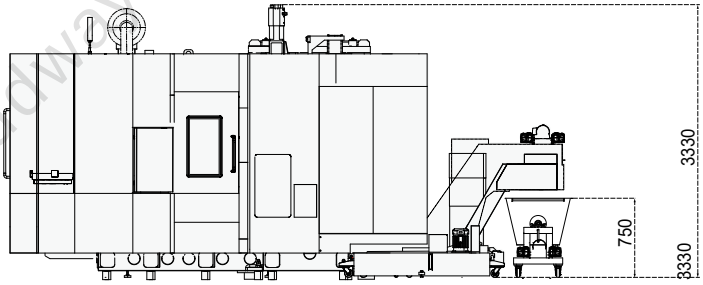
- 2 tray APC operation screen

Size

GLH550

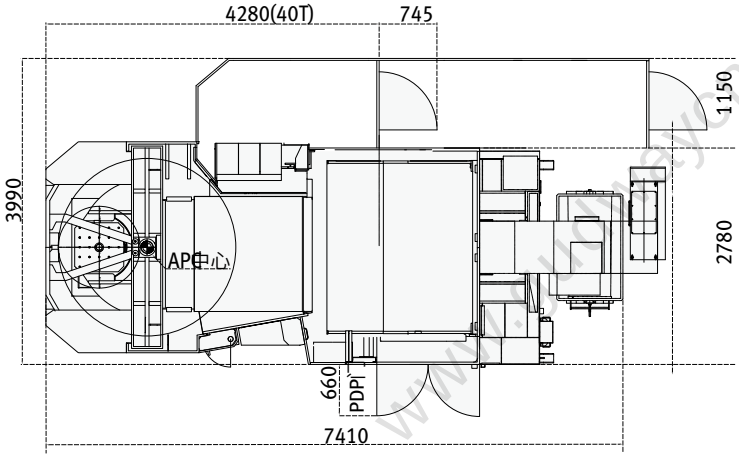
UNIT: mm

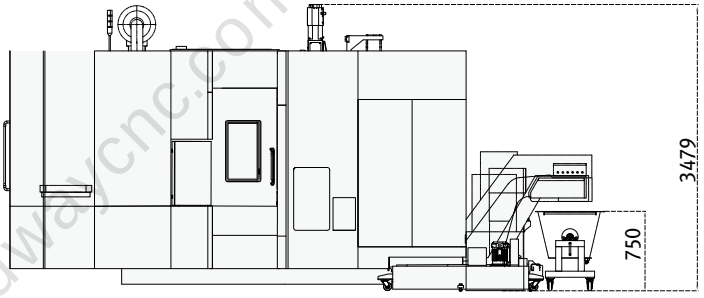




GLH630

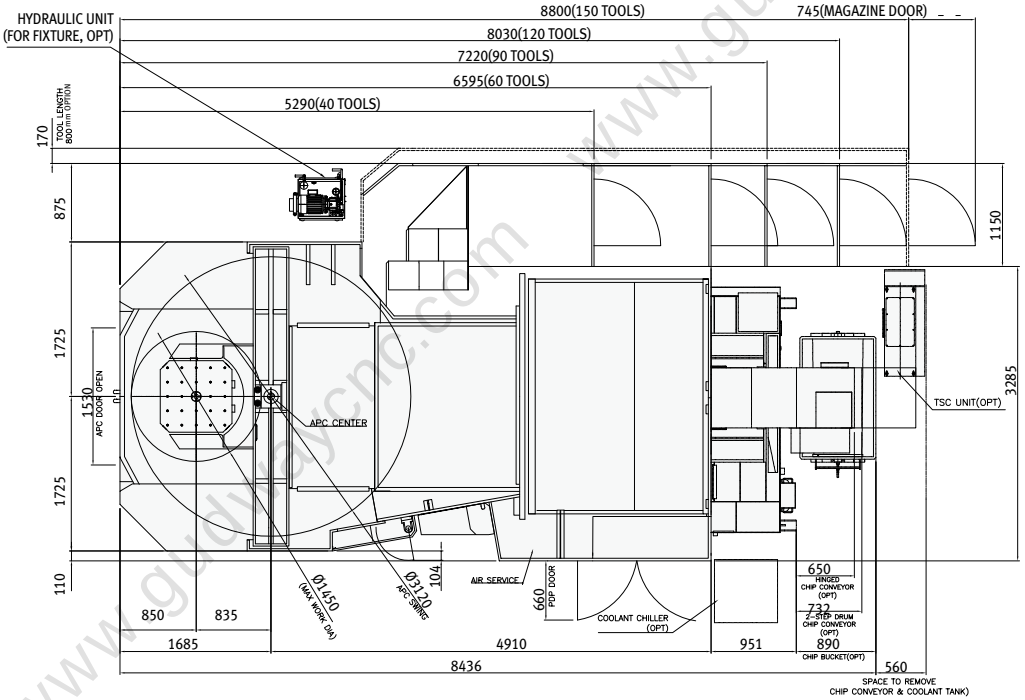
UNIT: mm

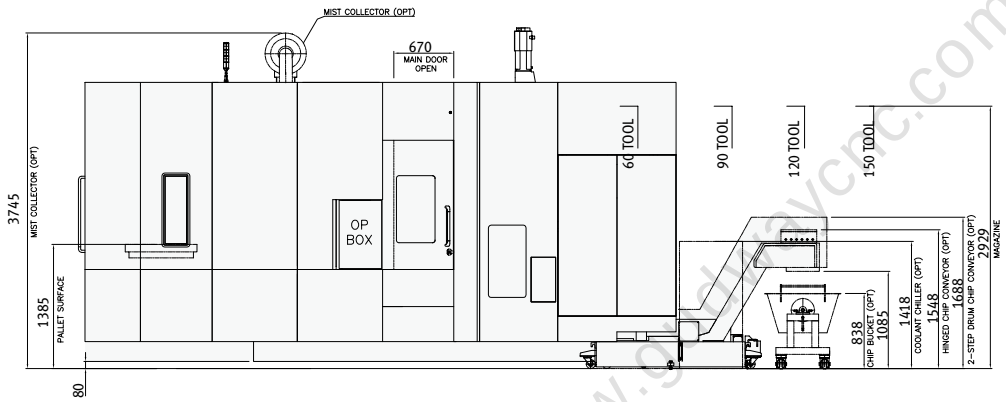




GLH 800

UNIT: mm





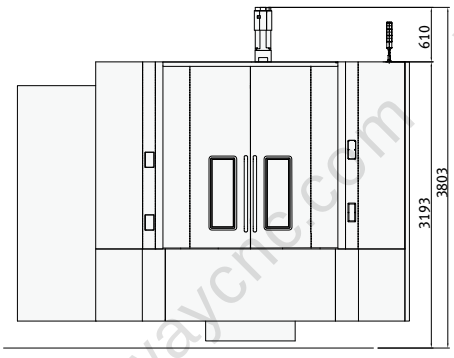
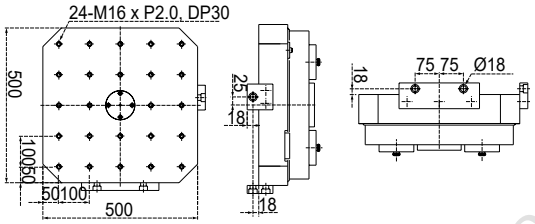


Table size

UNIT: mm

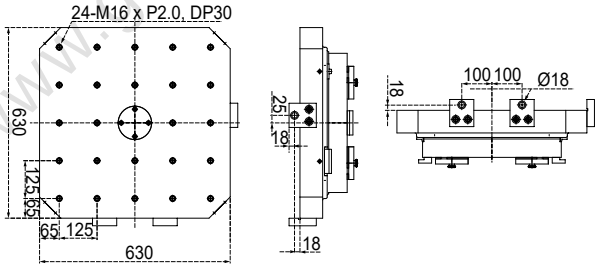
GLH 550

Standard（500x500）



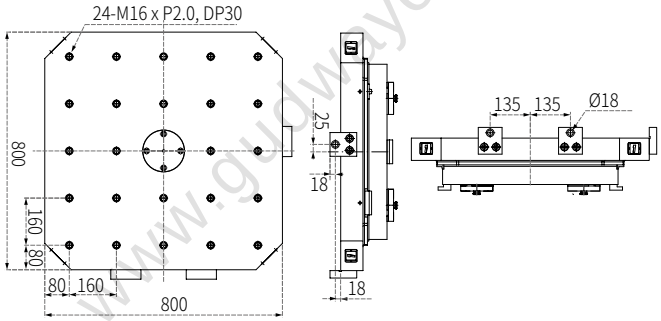
GLH 630

Standard（630x630）

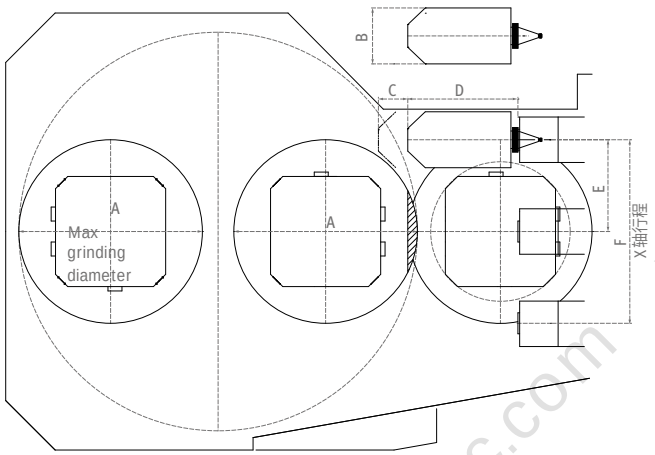


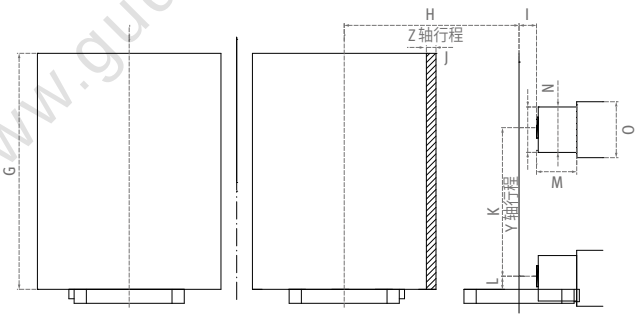
GLH 800

Standard（800x800）



Machining range





Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
GLH550	Ø850	Ø320	168	530	400	800	1100	850	100	5	750	75	230	Ø260	Ø320
GLH630	Ø1050	Ø320	168	630	525	1050	1350	1000	100	55	900	75	230	Ø260	Ø320
GLH800	Ø1450	Ø320	168	630	700	1400	1550	1370	150	5	1200	75	230	Ø260	Ø320

Parameter

ITEM		UNIT	GLH 550	GLH 630	GLH 800
Machining capacity	Feed distance (X/Y/Z)	mm	800/750/850	1050/900/1000	1400/1200/1370
	Distance from spindle front to bench center	mm	100 - 950	100 - 1100	150 - 1520
	Distance from spindle center to table surface	mm	75 - 825	75 - 975	75 - 1275
Pallet	Type		24-M16 x P2.0		
	Indexing Angle	deg	1 {0.001}		
	Max load	kg	800	1500	2000
	Max workpiece size	mm	850 x 1100	1050 x 1350	1450 x 1550
	Size	mm	2-500 x 500/ 1-500 x 500	2-630 x 630	2-800 x 800/ 1-800 x 800
Spindle	Max speed	r/min	10000 {6000, 15000}		
	Taper specification		ISO #50, 7/24 TAPER		
	Max Torque	N·m	600 {809, 398}		
Feedrate	Fast feed （ X/Y/Z)	m/min	60/60/60		50/50/50
	Cutting feed speed	mm/min	30000		25000
Auto pallet exchange device	Pallet quantity	ea.	2/1	2	2/1
	Pallet switching system		Rotary shuttles		
	Pallet exchange time	s	8.5	12	16
	APC rotary indexing Angle	deg	90		
Auto tool changing device	Shank type		BT50 {CAT50/DIN50/HSK-A100}		
	Tool magazine capacity — Single chain knife library	ea	40 {60}		
	Tool magazine capacity — chain tool magazine	ea	{90/120/150}		
	Tool magazine capacity — Matrix tool library	ea	{196/256/316/376}		
	Max tool diameter — 40/60 tool	mm	125 (continous.) (40/60 tools), 130 (continous.) (90-376 tools)		
	Max tool diameter — 90~376 tool	mm	320 (12.6) (相邻刀位空着时)		
	Maximum tool length	mm	530 (BT/CAT/DIN), 600 (HSK)	630 (BT/CAT/DIN), 700 (HSK)	630(BT / CAT / DIN), 700(HSK)
	Maximum tool weight	kg	25 (40/60 tools), 30 (90-376 tools)		
	Tool change time (tool to tool, ＜12kg)	s	2		
	Tool change time (cut to cut, ＜12kg)	s	5	5.4	6
Motor	Spindle motor power	kW	45/25 {37/25, 37/30}		
	Coolant pump motor power	kW	1.8	1.8	1.8
Power	Power supply	kVA	79	79	79
	Air pressure	MPa	0.54	0.54	0.54
Box capacity	Cooling tank capacity	L	825	925	925
	Lubricating oil pot capacity	L	4		
Size	Height	mm	3270	3420	3760
	Machine area (L X W)	mm	6035 x 3730	7300 x 3990	7376 x 4360
	Weight	kg	16800/15700	18000	27000/24000

• {}op

Standard

Spiral chip extractor
Oil skimmer
Working light
Condition light
Spindle head cooling system
Coolant tank and debris fan
Install parts
ST FANUC 31i

Optional

5th axis preparation
Linear grating ruler
Air gun
Auto workpiece measuring device
Automatic power cut-off device
Auto tool length measuring device
Water gun
Chip extractor/chip truck
Text rod
Spray cooling
Hydraulic clamp interface
Spindle center water

NC Specification

FANUC 31i Series (ST)

Shaft control	
Number of control axes 4(X,Y,Z,B)	
Control the number of axes at the same time 4 axes	
Positioning (G00)/ Linear Interpolation (G01):3 axes	
Arc interpolation (G02,G03):2 axes	
Reverse clearance compensation	
Emergency stop/overshoot	
Location tracking	
Increment system 0.001mm/0.0001"	
Min input increment 0.001mm/0.0001"	
The machine locks all axes/z-axes	
Mirror each axis	
(Set screen and M function)	
Storage type pitch error compensation Each axis pitch error	
Storage trip Check 1 Overtrip is controlled by software	

Select Stop	M01
Program file name	32 characters
Serial number	N 8-digit
Program protection	
Program stop/end	M00 /M02,M30
Programmable data entry	Tool offset with workpiece offset by
Subroutine call	10 layers of nesting
Paper tape code	ISO/EIA automatic identification
	G54-G59
Additional workpiece coordinate	3 P1 pairs
Rotate the coordinate system	G68,G69
Extend part program editing	
Optional chamfer Angle R	
Macro actuator	
Rigid tapping diamond acceleration and deceleration (GLH series)	

Interpolation and feed function	G00
Positioning	G01
Linear interpolation	G02,G03
Arc interpolation	G04
Feed pause	G09,G61(mode)
Exact way to stop	G31
Skip	G27
Return to reference point to check	G28
Return to reference point check	G30
Return to the second reference point	Is standard, others are options)
Return to the third/fourth reference point (HM1000/1250	mm/min
Feed per minute	FO(fine feed),/50/100%
Fast feed multiplier	0-200%
	0-760%
JOG (10%	M48/M49
Magnification cancellation	
Manual feed per turn	0.1/0.01/0.001 mm
Hand wheel feed multiplier	
Automatic acceleration/deceleration	200 paragraph pre-read
Screw interpolation	
AI Profile Control II	
Machine tool state selection function	
Thread cutting, synchronous cutting	M3 digits
Program restart	
Automatic corner deceleration (specify AI contour Control 1)	S5 digits
Arc acceleration magnification fixed	10-150%
Linear acceleration and deceleration before interpolation (specify AI contour control 10	G84,G74
Linear acceleration and deceleration before interpolation (specify AI contour control ID	
Control axis separation	
Diamond fast feed acceleration and deceleration	H/D code,Geometry /Wear memory
Smooth clearance compensation	
Spindle and M code function	G90/G91
M code function	
Spindle orientation	G73,G74,G76,G80-G89,G99
Spindle serial output	
Spindle speed function	G17,G18,G19
Spindle speed multiplier	
Spindle output conversion	# 100 - # 199, # 500 - # 999
Rigid tap backout	
Rigid Tapping	RS-232C
Tool function	G20/G21
Tool tip radius compensation	
Number of tool offset	G52 /G53
Tool length compensation	(±9999.9999 inch)
	(640m)256 kb
	500 ea

Other functions (operations,	Information displayed when
Option Specifications	
3D coordinate conversion	
3D tool compensation	
Additional tool life management tool logarithm	1024 pairs
Attached control shaft	Up to 6 axes per
Additional workpiece coordinate system	G54.1 P1300(300 pairs)
AI Contour Control I	Preread 600 paragraphs
	Read 1000 paragraphs in advance
Automatic corner multiplier	G62
	G8.1
Cutting function	G07.1
Cylindrical interpolation	Machining
Data server	Outline display
=> The dynamic graphic display function cannot be installed when	
EZ Guidei(Interactive Program Scheme)	
FS15 tape format	
Incremental System 1/10	
Graphic Copy	G? 172.2.
Manual hand wheel feed 2/3 unit	
High speed jump function	
Involute interpolation	G022, G03.2
Spiral interpolation	
Third/fourth reference point return	
Processing time identification function	
Number of registered programs	1000 ea
Amount of tool compensation	400/499199912000 ea
Program storage capacity	2~9 blocks
	kb(1280m)kbyte
	1 MB (2560 m) / 2 MB (5120 m) / 8 MB
Rewind function	
Polar command	G15/G16
Polar coordinate interpolation	G12.1 / G13.1
Programmable image	G50.1 / G51.1
Scale to zoom	G50,G51
Single phase positioning	G60
Storage type stroke detection 213	
Tool position offset	G45-G48
Position switch	
Tool center point control	G43.4
Turntable dynamic fixture compensation	
Small indicates need to be negotiated in advance	

NC Specification

FANUC i Plus Series (OP)

Shaft control	
- Number of control axes 4(X,Y,Z,B)	
- Control the number of axes simultaneously	
Positioning (G00)/ Linear Interpolation (G01):4 axes	
Arc interpolation (G02,G03):2 axes	
- Control shaft removed	
- Reverse clearance compensation	
· Emergency stop/overshoot	
-H RV control HRV?	
Position tracking	
Increment system 0.001/0.0001 mm/inch	
, the minimum input increment is 0.001/0.0001 mm/inch	
Delta system C SXC	
The machine locks all axes /Z axes	
Mirror each axis	
- Storage type pitch error compensation	
- Storage stroke check 1	
close.	
- Absolute pulse encoder	
Interpolation and feed function	
- This second reference point G30	
- Return to reference point 3/4	
Member Research Kuchi G02,G03	
- Nanointerpolation	
Inverse time feed	
Member post: interpolation)? 1	
Label interpolation 16	
Feed Zhe Ting G04	
Exact stopping mode	G09. :61
b e a m	0-2009%
C	
Spiral interpolation	
Read the pre-interpolation bell acceleration and deceleration	
Smooth reverse clearance compensation	
JOG magnification (10% units)	)-J()()m
Automatic corner multiplier	G 6
Self-actuating corner deceleration	
- Cutting feed speed clamp	
- Fast bell type acceleration and deceleration	
Linear interpolation	01
Turn in	
Ten round feed multiplier	0170.01/0.001 m
Magnification cancel	M 49
Hand controlled handwheel break	
Positioning	UNLY NHM
Fast feed multiplier	F0(fine feed),25/50/100%
Reference point this time	G27,G28,G29
- Skip	G31
- Feed per minute	mm/min
-AICC	200BLOCK
Selection of processing conditions	
High speed and high precision processing package	
Interpolation type pitch error compensation	
- Nano smoothing	
Add speed control	
Spindle and M code function	
-M code function M3 digits	
· Spindle orientation	
Shaft serial output	
Spindle speed function S5 digits	
- Spindle output toggle	
- Rigid tapping returns	
Just tapped G84,G74	
· Spindle speed multiplier 50-150%	
Tool function	
- Tool radius compensation C G40,G41,G42	
- Tool tip radius compensation C G40,G41,G42	
- Number of tool	400 pairs
· Tool life management extension	
- Tool life management	
- Tool length compensation	G43,G44,G49
- Tool length measurement	
- Tool function	T8 digits
- Tool length compensation	
- Tool compensation	G45XG48
- Tool function	
- Tool life management	
- Tool compensation storage C H/D code.Geometry /Wear memory	
Tool length measurement	
Programming and editing functions	
- Absolute/Incremental programming G90/G91	
- Automatic coordinate system setting	
Editing (background editing	
- Processing recycle G73,G74,G76,G80-G89,G99	
-R programming arc interpolation	
· User macros	
· User macro public variables append #100-#199,#500-#999	
- 10x input units	
· Multiple jumps	
- Macro actuator	
- User software package 6M	
· Extension program editing	

·RS-232C interface	
-USB interface	
· Imperial/metric conversion	
Mark Skip	
· Maximum instruction value	
· The number of programs that can be stored	
· Select program segment to skip	
· Select Stop	G20/G21
.Parts program store length	
· Program protection	±99999.999mm(±9999.9999 inch)
· Program number	1000ea
Sequence number	
· Inversion function	M01
· Program stop/end	2 m
· Programmable data entry	
· Rigid tapping	04 digits
· Subroutine calls	N5 digit
· Paper tape code	
Thread cutting	M00,MO2,M30
· Local/machine coordinate system	Type tool compensation and workpiece
. Program restart	compensation through G10,G11
· The number of workpiece	G84,G74
coordinate system groups is added	10 layers nested
· Workpiece coordinate system	EIA RS422/IS0840
Other functions (operation, setting and display, etc.)	652JG53
· Alarm display	
· Report history shows	G54.1P1-48(48 pairs)
· Automatic corner multiplier	G54-G59
· Clock display	
· Start running/feed hold	
·PMC alarm information display	G62
· Empty operation	
· Actual speed display	
· Embedded Ethernet	
· DNC operation based on memory card	
- External data entry	
Multilingual	
-Cs profile control	G15,G16
·RS232 interface (for 2ch)	G50.1, G51.1
· Polar command	
. Programmable mirror	
- Mode data entry	
·FS10/11 T format	
· Graphic display	10.4" Color LCD/MDI
· Help function	G08
Quick Skip function	
Load meter display	
· Line display control installation	
.Memory card interface	ONLY NHM
· Operation function	
Field display calendar is shown	G50,G51
· Arbitrary chamfer/corner R	G68,G69
· Programmable data entry	Sequence number/program number
· Run time and part count display	
· Scaling	
· Coordinate system rotation	G60
· Retrieval function	
· Self-diagnostic function	
- Servo setting screen	
· Single step operation	
· Unidirectional positioning	
· Storage trip Check 2	
· Ethernet features	
· Automatic data backup	
. Motion graphic display (10.4 "Color TFTLCD)	
· Machining quality level adjustment function	
·EOP(Easy Handling Package)	
· Tool load monitoring function	
Option Specifications	5 axes in total
· Attach the number of control axes	
- Hand control hand rotation back	
- Data Server	
· Operation bootstrap i	
· Operation lead oi	
· Word carving	
-CF card (2GB)	1000
-PROFIBUS-DP	G54.1P1X300(300 pairs)
·PROFINEJ	G68.2,Guidance screens is not shown
-CC-LINK	on 8.4"LCD.
· Number of login programs	G68.2 TWP command on
· The number of workpiece coordinate system groups is added	guidance window
- Incline plane indexing instruction	
	G72.1, G72.2
- Incline plane indexing instruction function	
· Multi-spindle control	
Data server GB PCMCIA card)	
- Fast Ethernet Board	
· 3D coordinate conversion	

GUDWAY

GLH **BT50** SERIES

Item	Unit	GLH **550**	GLH **630**	GLH **800**
Travel（X/Y/Z)	mm	800/750/850	1050/900/1000	1400/1200/1370
Worktable size	mm	2-500 x 500/ 1-500 x 500	2-630 x 630	2-800 x 800/ 1-800 x 800
Max load of table	kg	800	1500	2000
Max spindle power	kW	45/25 {37/25, 37/30}		
Max spindle speed	r/min	10000{6000,15000}		
Max spindle torque	N·m	600 {809,398}		
Tool storage capacity	ea.	40 {60, 90, 120,150}		
Shank type	-	BT50 {CAT50/DIN50/HSK-A100}		
Fastfeed speed(X/Y/Z)	m/min	60 / 60 / 60	60 / 60 / 60	50 / 50 / 50

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