![GUDWAY logo]

GHT SERIES

Box way type Turning lathe GHT355

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GHT**355**

Equipped with a 15-inch chuck, the GHT 355 has a high-torque spindle and the largest Z-axis travel in its class, which can process large workpieces to meet the various processing needs of customers.

![GUDWAY]

1 High rigidity, high stability structure

The low center of gravity structure of the 30˚ inclined bed and the hard rail with the full axle widening achieve high rigidity and stability.

2 High productivity

The servo turret effectively reduces the non-cutting time, and the high torque spindle and fast feed shaft improve the production efficiency.
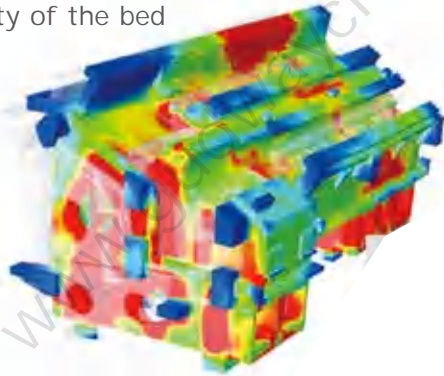
3 Convenience

The rocker arm operating panel and the tool position viewing device greatly improve the ease of operation.

High rigidity structure

1 High Rigidity

Through FEM (finite element analysis), the bed structure was optimized to ensure the high rigidity of the bed structure.
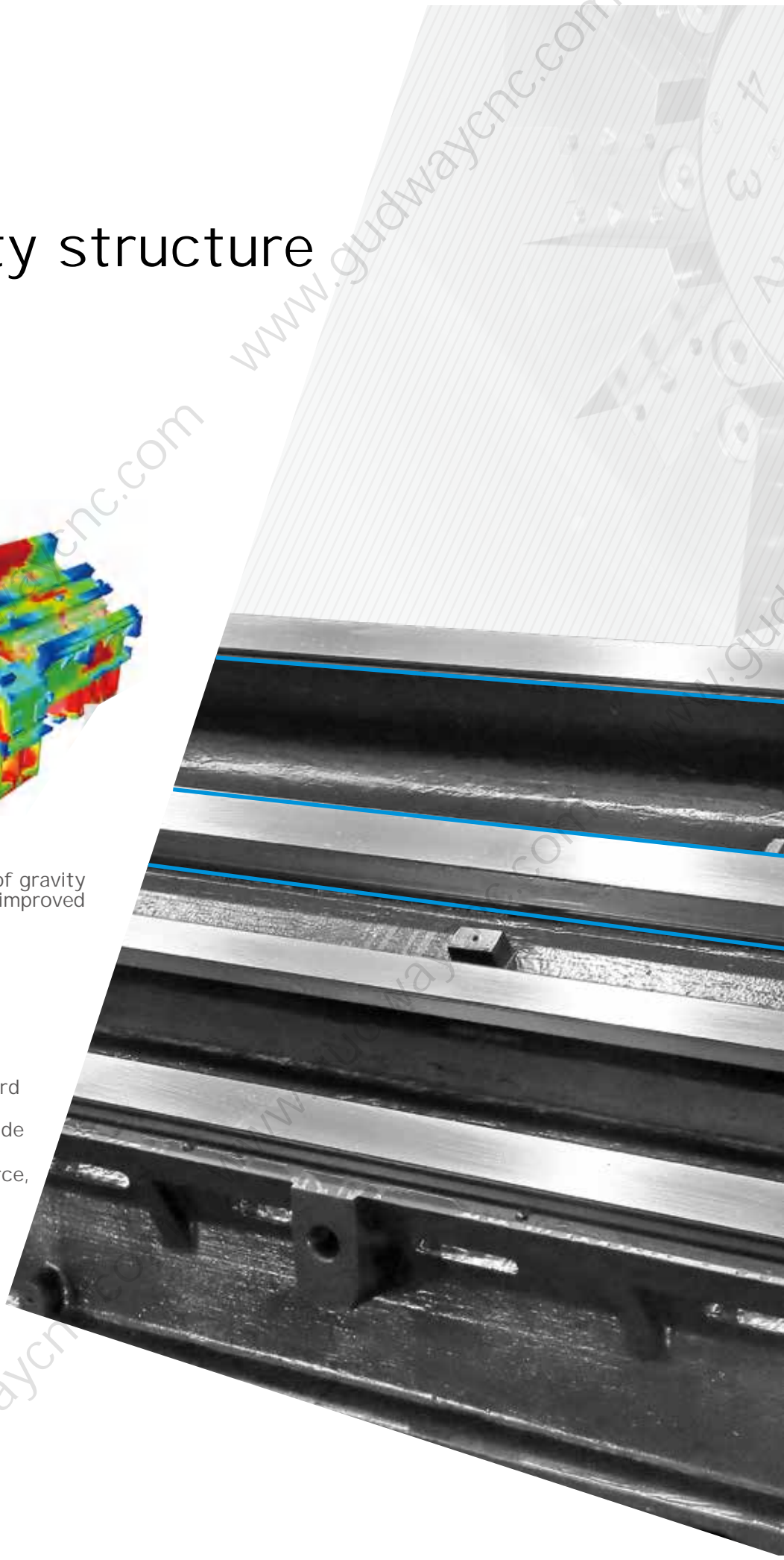
2 Low center of gravity

30° inclined bed low center of gravity structure, with a wider bed, improved stability.
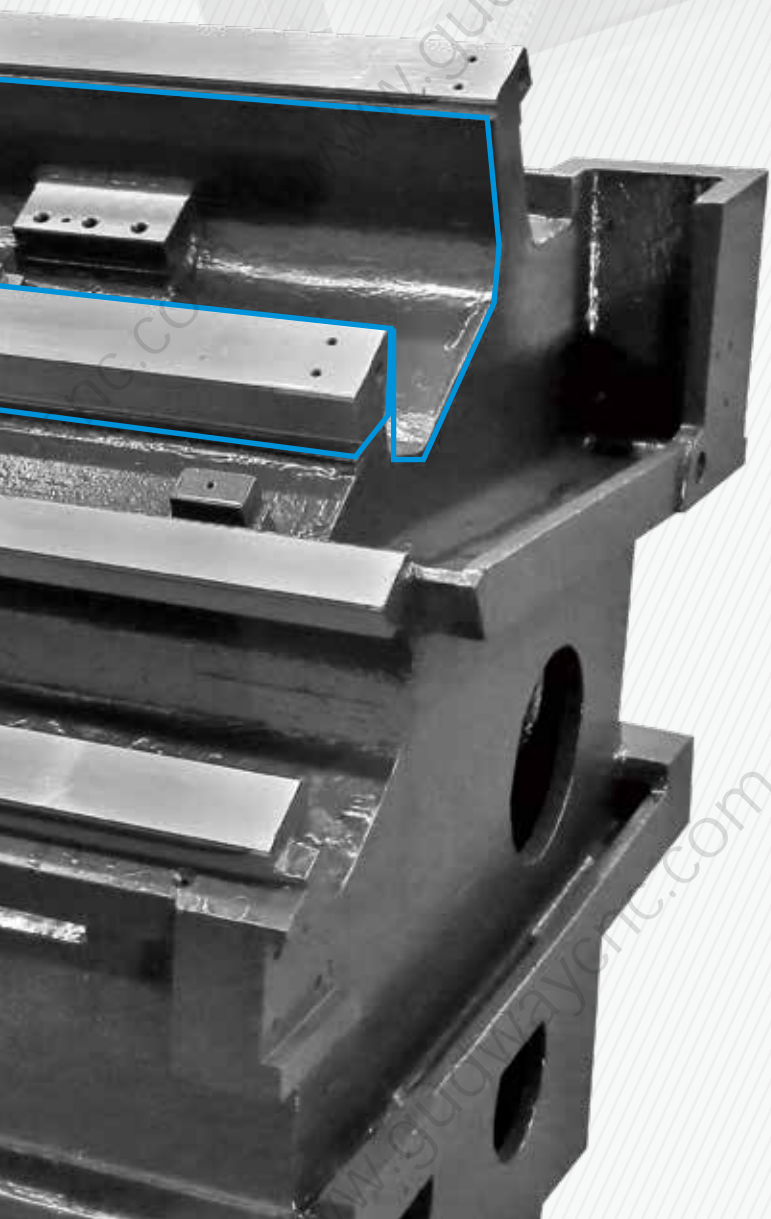
3 Stability

The design of two-axis all-hard rail structure, wide guide surface and wide span of guide rail spacing, makes the force area larger, more uniform force, and improves the processing stability.

Z axis travle
1350 mm

Workpiece
length
1270 mm

Workpiece
weight
1300 kg

1 Widened rail surface
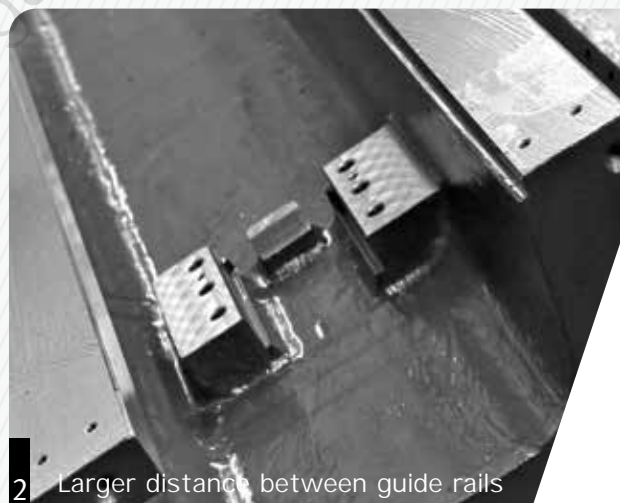
2 Larger distance between guide rails

High productivity

1 Spindle

Equipped with high-performance spindles that minimize vibration and thermal displacement during spindle rotation, high-torque spindles provide superior machining capabilities

2 Turret

The newly designed turret, driven by an efficient servo motor, ensures its machining capability and stable tool changing performance at high speeds.

3 Fast moving speed

X-axis   24m/min
Z-axis   30m/min

Spindle power-torque diagram
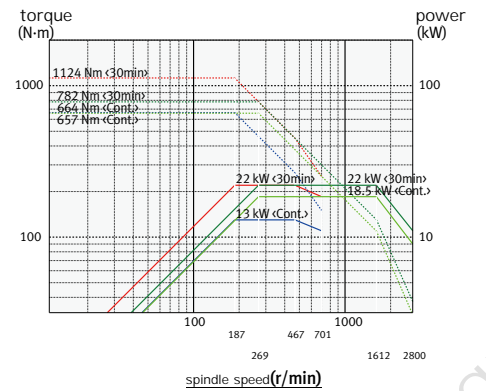
chuck

Chuck size: 15 inch

Turning diameter (mm)	Ø380
Max. turning diameter (mm)	Ø481
Bar machining diameter (mm)	Ø102

Spindle speed
2500 r/min

Motor power
22/18.5 kW

Spindle torque
1123 N·m

Convenience of operation

1 Convenience of operation

The newly designed operating panel enhances ease of operation with universal buttons and positioning.
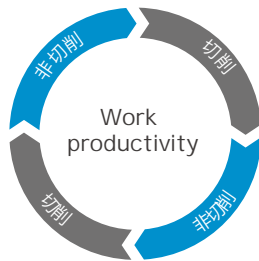
10.4 inch display

• USB & PCMCIA card (ST)

New ergonomic design

Easy to install button switch additional options

Simple software

raise productivity

Reduce non-cutting time

10%

The non-cutting time during machining is greatly reduced, thus guaranteeing maximum productivity.

Work productivity

Tool monitor OP

During the cutting operation, abnormal loads caused by tool wear or damage are detected and alarms are triggered to prevent further damage.

2 Tool position viewing device

The tool position visual device installed on the upper end of the chuck can easily see the moving shaft and the tool position during processing, without the need to pass the control panel, the tool change operation will be more convenient, and effectively improve the operation convenience.

3 Rocker arm type operating panel

The operation panel is redesigned and the rocker arm type operation panel is selected to meet the operating convenience of the operator to the greatest extent.

Excellent processing performance

(Motor power : 45/25 kW)
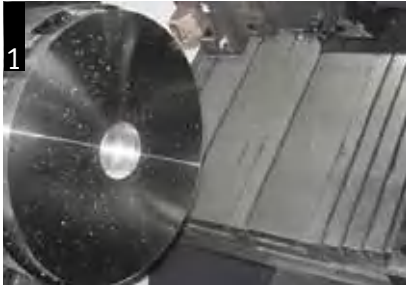
Machining Outer diameter turning (high speed)

Chip removal rate	565 cm^3/min
Cutting speed	225 m/min
Feedrate	0.35 mm/rev
Spindle speed	269 r/min
Cutting depth	7 mm
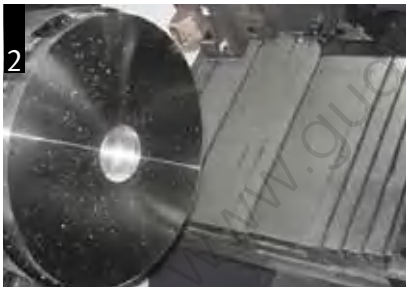
Machining outer diameter turning (low speed)

Chip removal rate	617 cm^3/min
Cutting speed	156 m/min
Feedrate	0.55 mm/rev
Spindle speed	187 r/min
Cutting depth	7 mm

Machining inside diameter turning

Cutting speed	280 m/min
Feedrate	0.3 mm/rev
Spindle speed	1486 r/min
Cutting depth	3 mm
Tool length	4.0 D

U drill (2 axes)

Chip removal rate	799 cm^3/min
Cutting speed	200 m/min
Feedrate	0.32 mm/rev
Spindle speed	1273 r/min
U Drill diameter	15 mm

Environmental-friendly

1 LED work light and condition light

Even in the state of low voltage, LED lights can still work stably in a highly efficient state, and the service life is 10 times that of halogen lamps.

LED working light

LED condition light

2 Auto off

After 10 minutes of no operation on the operation panel, the working light will be automatically turned off.

ON

OFF

3 Auto off

After 10 minutes of no operation on the operation panel, the spindle, servo motor, chip remover motor, and coolant tank motor will automatically shut down, saving energy and protecting the equipment.

Coolant tank motor stops and turns off

The spindle and servo motor stop and turn off

Motor of the chip remover stops and turns off

Optional configurations

1 Chip conveyor `OP`

chip conveyor	material	Note
hinge type	steel	The most typical type of chip conveyor is suitable for steel production of chips of 30mm or longer length
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

2 Optional

oil skimmer `OP`

Automatic tool setting gauge `OP`

Chuck blow `OP`

oil mist collector `OP`

Single hydraulic center frame   Double support hydraulic center frame

Hydraulic center frame `OP`
If you need to turn longer parts, you can use various types of hydraulic center frames (single, double supported or double supported)

Machining range

GHT355 OD HOLDER

UNIT: mm

ID holder

Face holder

Auxiliary view(1:10)

Tool interferogram

GHT355

UNIT: mm

Ø630 (Max tool rotation)

Ø481 (Maximum Turning Diameter)

Ø381 (15inch chuck)

485.5

260(X-travel)

58.8

Zaxis Sliding Cover

73

388

205

40

240.5

90

19.5

260(X-travel)

GHT355   Basic parameters

Tool system

10 POSITION TURRET

- OD holder
- ExtendedOD
- holderFace
- OD TOOL Ø25

Boring bar sleeve
Ø12-H50
Ø16-H50
Ø20-H50
Ø25-H50
Ø32-H50
Ø40-H50

- boring bar

holder
ID holder-H50

- boring bar

OP

drill socket
MT# 1-H50
MT# 2-H50
MT# 3-H50
MT# 4-H50

- Ø50 DRILL

U-shaped drill cap

U-shaped drill sleeve
Ø20-H50
Ø25-H50
Ø32-H50
Ø40-H50

- U-shaped drill

Machine size

GHT355   UNIT: mm

Ø50 HOLE
484
105
1840
469
11

4203
1417   910   5(DOOR WIDTH) 800   1068
760(OPEN)   630(OPEN)
393
580
1190   1110
1150
1821
2808
4273   1365
5636
111   440   1844

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Basic parameters
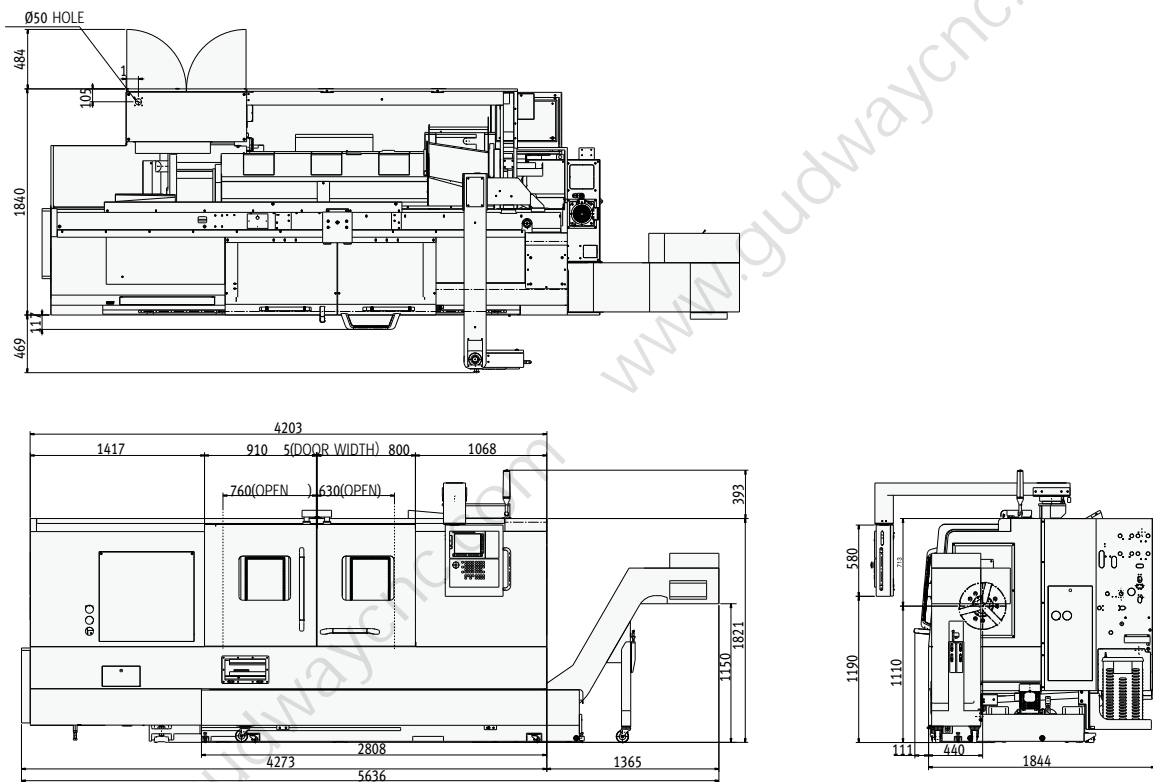
Parameter

GHT**355**

ITEM		UNIT	GHT **355**
Machine capacity	Machine bed Max Turning Dia	mm	Ø740
	Saddle Max Turning Dia	mm	Ø555
	Recommended turning diameter	mm	Ø380
	Max. turning dia	mm	Ø481
	Max truning length	mm	1270
	Bar machining diameter	mm	Ø102
Spindle	Max pindle speed	r/min	2500
	Spindle nose	ASA	A2-11
	Spindle through hole diameter	mm	Ø115
	bearingdia(front)	mm	Ø160
	Max. spindle Torque	N·m	1123
Travel	X-axis	mm	260(19.5+240.5)
	Z-axis	mm	1350
Fast move	X-axis	m/min	24
	Z-axis	m/min	30
Turret	Tool number	ea	10
	Cylindrical tool dimensions	mm	25 x 25
	Boring bar diameter	mm	Ø50
	Transposition time	s	0.15
Tailstock	Center diameter	mm	Ø100
	Center taper		MT#5
	Center stroke	mm	100
Motor	Spindle motor power	kW	22 / 18.5
Power	Power supply (rated capacity)	Kva	28.83
Size	Height	mm	1930
	Floor area Length	mm	4675
	Width	mm	1840
	Weight	kg	6900

• {}OP

STANDARD

Hydraulic chuck&Rotary cylinder

Soft clamp

Chuck clamp detection switch

Live tip

Standard tool holder

Hydraulic power unit

Cutting fluid supply equipment

Lubricating oil equipment

Iron filings and safety metal

Working light

Condition light

Foot switch

Front door interlock

Safety nameplate

Leveling bolts & pad iron

Toolbox

Machine instructions and manuals

OPTIONAL

Chip remover

Chip truck

Hard clasp

Automatic power off

Air gun

Water gun

Oil skimmer

Additional holder&bush

Auto tool setting (manual)

Clamp clean blowing device

Clamp clean water blowing

Auto door

Programmable tailstock

Dead center for tail seat(MT#4)

Center frame (hydraulic type)

* Special chuck

GHT 355

NC specification

FANUC i Plus Series

Basic parameters

Shaft control	
Control path 1 path	
Control axis number 2 axis	
Control axis number 2 axes at the same time	
Control shaft disassembly	
Reverse clearance compensation	
Reverse clearance compensation for each quick feed and cut	
Chamfer start/stop	
Advanced feedforward control	
Position tracking	
Servo HRV controls HRV2	
Imperial/metric conversion	
Interlock all axes/shafts	
Minimum input increment 0.001/0.0001 mm /inch	
Minimum setting UNITC ISXC	
Mechanical lock all axes/shafts	
Mirroring	
Overpass	
Servo off	
Storage stroke detection 1	
Abnormal Load Detection	
Emergency stop	
Position switch	
Operations	
Autorun (memory)	
MDI run	
Buffer register	
DNC run	
Use a memory card for a DNC run	A CF card and a dedicated adapter are required
Scheduling features	
Empty run	
Incremental feed	X1,X10,X100
Handwheel feed interrupt	
JOG feed	
Manual intervention and return	
Hand wheel feed	
Manually return to the reference point	
Program number retrieval	
Program restart	
Sequence number search	
Interpolation function	
Return to first reference Point Manual, G28	
Return to second reference point G30	
Return to reference points 3 and 4	
Naninterpolating	
Exact way to stop	
Tapping method	
Method of cutting	
Accurate stopping	
Arc interpolation G02,G03	
Continuous Thread Cutting	
Polygon machining	
Cylindrical interpolation	
Pause	
High Speed skip	
Straight interpolation G01	
Multiple thread cutting	
Positioning G00	
Return to reference point to detect G27	
Thread cutting/synchronous feed	
Thread cut cycle back	
Torque limit skip	
Variable pitch thread cutting	
Feed function	
Automatic acceleration/deceleration	
Cutting feed rate reed	
Feed per minute	G98
Feed per turn	G99
Feed speed multiplier (10%UNIT)	0-200%
JOG multiplier (10%UNIT)	0-2,000 mm/min
Manual feed per turn	
Multiplier cancel	
Quick feed multiplier	F0, 50100%
Fast feed speed	
Fast feed bell type acceleration and deceleration	
Auxiliary/spindle speed function	
Spindle positioning	
Actual spindle speed output	
Auxiliary function locks	
Constant weekly speed control	
Auxiliary function M 8-bit number	
Spindle function S5 digits	
Spindle serial output S5 digits	
Spindle magnification 0-150%	
Spindle output switching	
Rigid tapping	
Program input	
Absolute/incremental instructions	
Append user macro public variables	
Fixed loop for drilling	
Single shape fixed cycle	
Arc radius R specified	
Control input/output	
Coordinate system setting	G50
Frame offset	

User macro	
Decimal point input/Calculator decimal point input	
Coordinate offset direct input	
Any Angle chamfer/corner R	
Maximum instruction value	Earth 9 digits
Compound fixed loop	9 pieces
Composite fixation cycle II	
Select program segment Skip	G17,G18,G19
Parity Check	04 digits
Plane selection	G10
Subroutine instruction call	N8 digits
Paper tape code	10 layers of nesting
FANUC10/11 System paper tape	EIA RS422/IS0840
User software capacity	G52-G59
Macro actuator	6 M
Tool function/tool compensation	
Automatic tool compensation	
Tool compensation value The measurement value is entered	
Tool function	
Tool shape/wear compensation	
Tool life Management	
Tool radius compensation	G43,G44,G49
Tool position offset 128 pairs	
Number of tool compensation	
Tool life management extension	
Program Editing	
Background editing	
Extension editing	
Number of login programs 1000ea	
Program editing	
Program Protection	
Program storage capacity 2 M	
Setup and display	
Show actual speed	
Display alarm information	
Show alarm history	
Show current location	
Display the floppy disk directory	
Displays the actual spindle rotation number /T code	
Help features	
Display in languages by country	
Show operational history	
Show parameter Settings	
Show program comment 32,31 characters	
Show working hours/number of parts	
Self-diagnostic function	
Servo information screen	
Spindle information screen	
Graphic display cutting path display	
Status display	
Clock function	
Parameter checksum function	
Data input/output	
External data input	
External key input	
External program number	1-9999
External job number retrieval	9999
Input/output of memory card	
Reader/puncher interface	CH1. Interface
RS232C port	
USB port	
Automatic data backup	
Other	
Start running and the indicator lights up	
Display unit 10.4 "color LCD/MDI	
Feed is held and indicator light is on	
NC and servo ready	
PMC System 0i-PMC	
Ethernet features	
EOP(Easy operation screen)	
Select specifications	
- Data server	
- Hand wheel feed rollback	
- Dynamic graphics display	
- Operation guide i	
- Operation boot 0i	
- Tool load monitoring	
-CF Card (2GB)	
-PROFBJS-DP	
-AI Profile control I	Maximum number of preread segments 40
-PROFINET	
CC-LINK	
-AI Profile Control II	Maximum number of preread segments 200
- Fast Ethernet	

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GHT355

ITEM	UNIT	GHT 355
Max. turning dia	mm	Ø481
Max truning length	mm	1270
Bar machining dia	mm	Ø102
Chuck dia	mm	Ø381
Spindle motor power	kW	22
Max spindle speed	r/min	2500
Max. spindle torque	N·m	1123
Tool number	ea.	10

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