

Vertical type Turning lathe

#### V405/M



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# High performance vertical turning center GV T405 SERIES

A strong player in the field of automotive brake disc processing worldwide, with a sales record of over 3000 units in the global market. Tailored servo double-sided knives for automotive related industries such as brake disc processing can meet the efficient production needs of users.





Brake disc







1 High stability structure

The optimized bed structure design ensures the machining accuracy and surface smoothness of the workpiece.

# 2 Powerful processing performance

High performance spindles provide users with more stable machining accuracy while having higher load-bearing capacity.



### 3 High production

High reliability turrets, servo double-sided knives, rotating tool heads, and other configurations bring higher productivity to users.





# High rigidity and high stability structure

#### Bed and column

The use of high rigidity hard rails and high tension mihanna cast iron body design provides a high rigidity guarantee for high-precision and heavy-duty cutting. The unique rigid bed body and reinforced rib structure design ensure the machining accuracy and surface smoothness of the workpiece while ensuring the rigidity of the machine tool.

X/Z-axis travel

Servo double-sided knife axial stroke (GVT405/LOP)

▶ 268/488 mm ▶ 5~60 mm



Perform force analysis and structural optimizatio n on all structural components of the machine tool to achieve optimal design of the bed and column structure. Under long-term continuous heavy load cutting conditions, good machining accuracy and stability can still be maintained.





Fast feed

GVT405/L X/Z axis

▶ 20/20 m/min

GVT405M/ML

▶ 20/24 m/min

Servo double-sided knife movement axis

**15** m/min





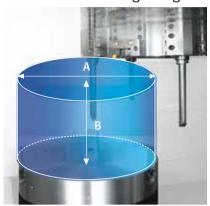


X/Z TRAVEL 268/488 mm

> Swing over bed 610 mm

### Machining range

#### Soindle machining range



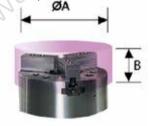
Maximum turning diameter (A) GVT405/405M

▶ Ø496/420 mm

Maximum turning diameter (B) GVT405/405M

▶ 461/400 mm

Servo double-sided tool processing range (GVT405/LOP)



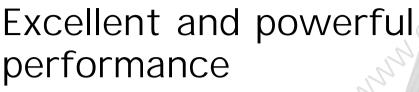
Maximum turning diameter (A)

▶ Ø376 mm

Maximum turning diameter (B)

▶ 60 mm





High speed, high-performance spindle

Equipped with ASA A2-8 spindle nose end, it ensures the machining performance of the machine tool while facilitating maintenance. Especially the rigid coupling bearing components can bear heavy workpieces and reduce thermal displacement of the spindle during long-term operation.

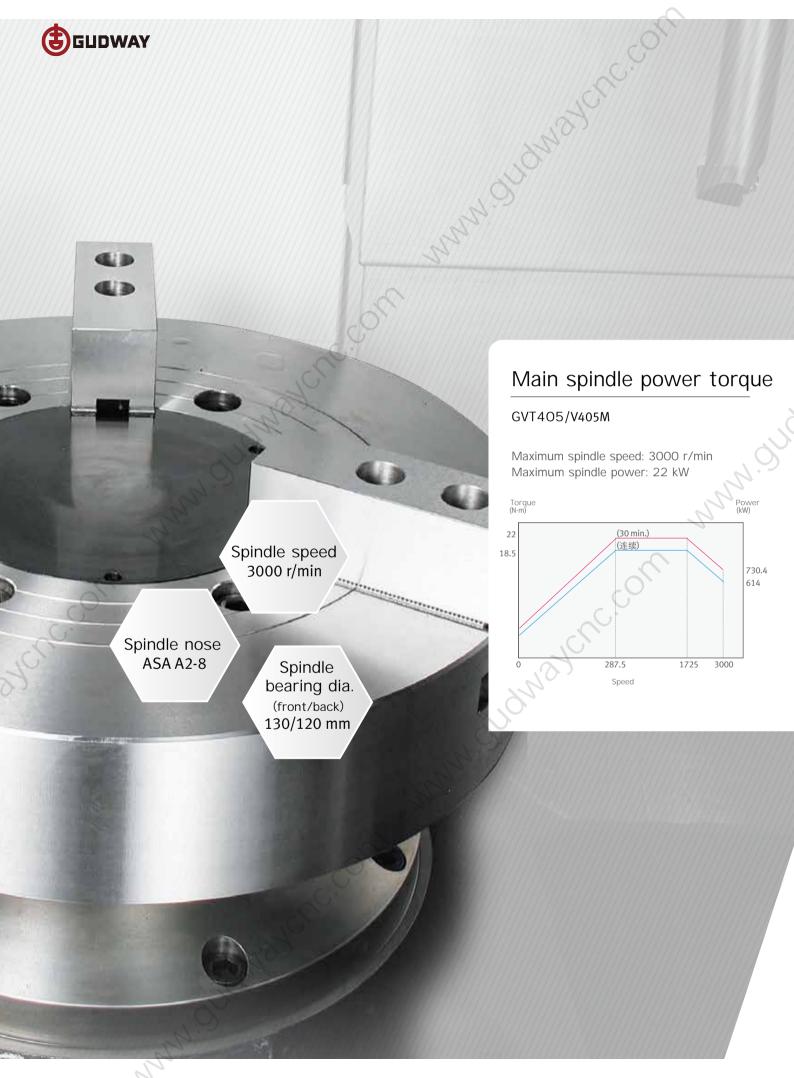
ELIVER CHICKORY

Max spindle speed

▶ 3000 r/min

▶ 22 kW(30min)







# High reliability turret

# 1 High reliability turret

The 12 bit heavy-duty turret has a curved tooth clutch with a diameter of up to 250mm. This heavy-duty design can provide excellent rigidity for rough machining, precision machining, and boring machining, while also extending the service life of the cutting tools. The turret can perform uninterrupted bi-directional rotation, and the rotation time of adjacent tool positions is only 0.15 seconds.

Indexing time (adjacent tool positions)

**0.15** s

Tool number

▶ 12 tool position

▶ 10 tool position (Servo double-sided tool)



50%



Tailored for the automotive brake disc processing industry. The dual tool holder driven by servo motor improves the instability of hydraulic drive in previous models, reduces tool clamping and adjustment time, and greatly improves machining efficiency while ensuring parallel accuracy and workpiece surface smoothness during the machining process.

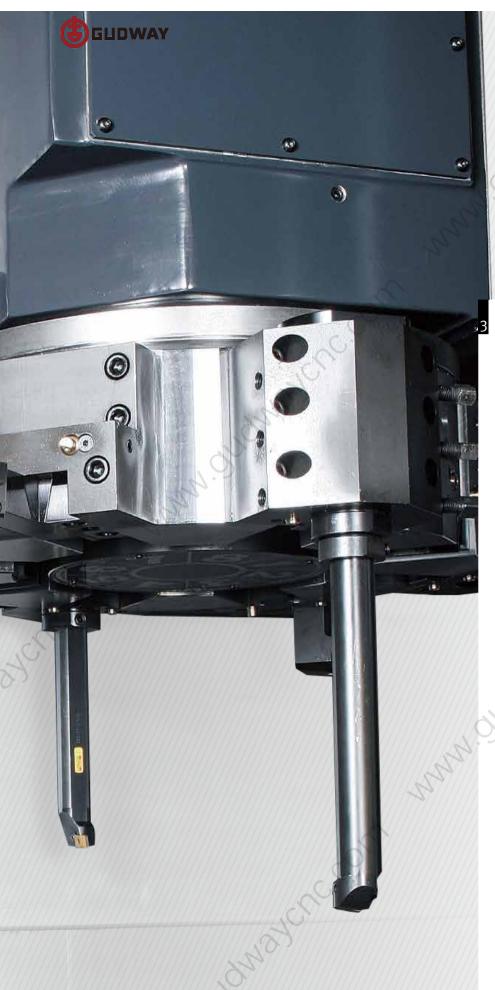
- The processing time is shorten ed by nearly 50% compared to general cutting tools

General tool

Servo double-sided to







## Rotating tool head $_{(\mbox{\scriptsize GVT405M/MLST})}$

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The rotating tool head ensures high rigidity and precision through dual contact between the end face of the rotating tool head, the flange surfac e of the tool clamping insert (referred to as the P reci flex joint), and the conical surface of the tool head.

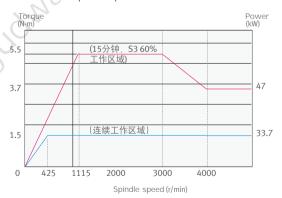
GVT405M: BMT65P





#### Main spindle power torque diagram

Maximum spindle speed: 4000 r/min Maximum spindle power: 5.5 kW



Clamp application

Precision flex connector application



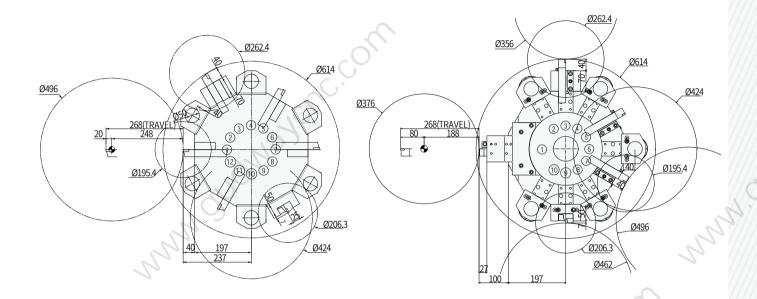


#### Tool interference diagram

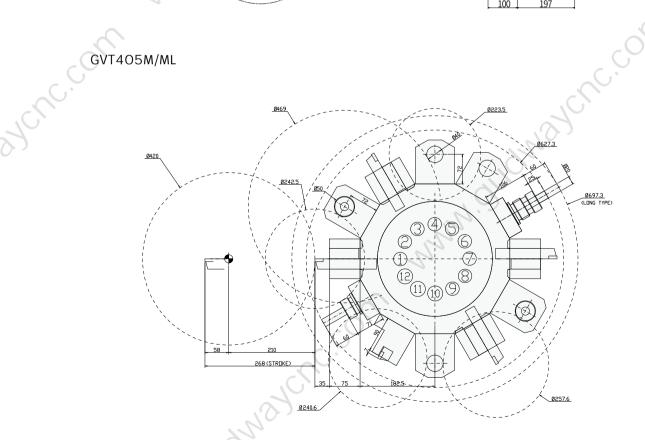
GVT405/L UNIT:mm

GVT405 [OP]

double-sided Tool

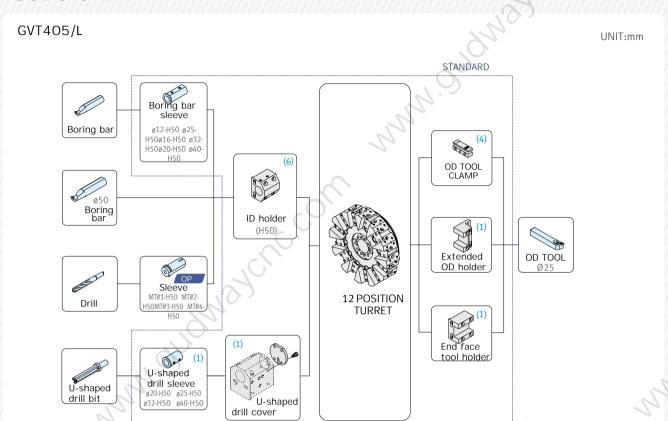


UNIT:mm

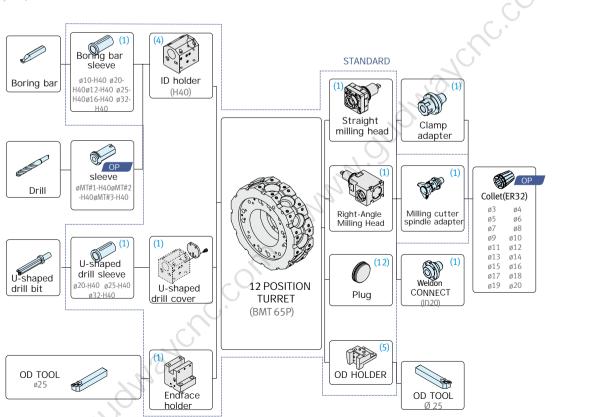




#### TOOL SYSTEM



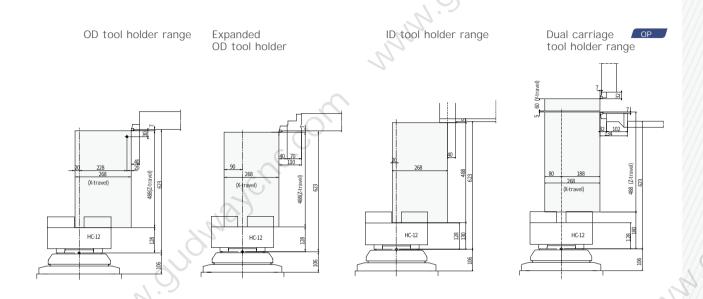
#### GVT405M/ML



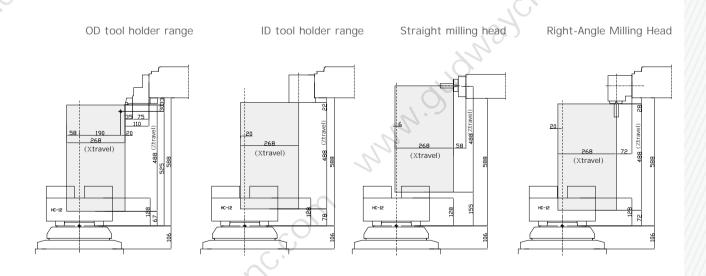


#### Machining range

GVT405/L UNIT: mm



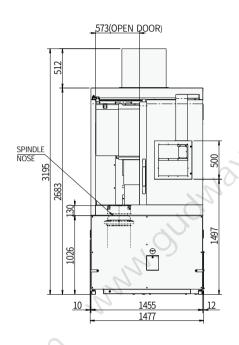
GVT405M/ML UNIT: mm

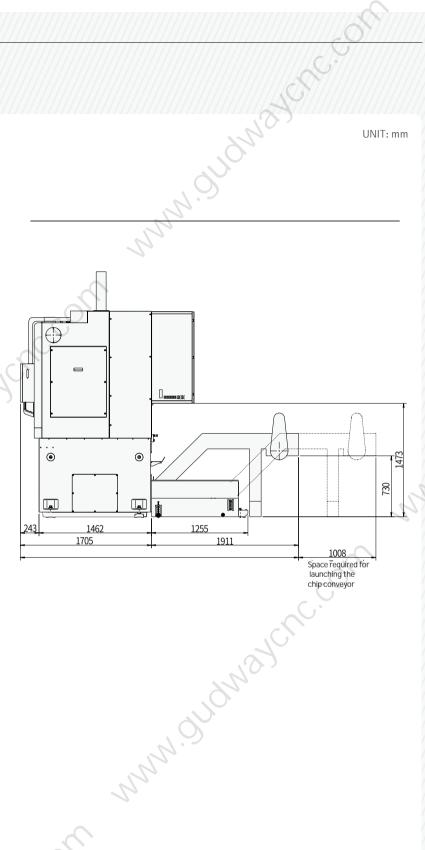


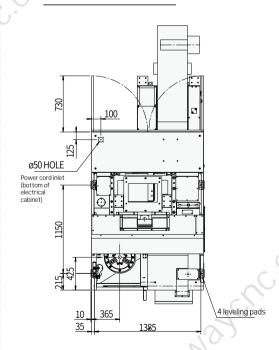


#### SIZE

GVT405/405M UNIT: mm









#### **PARAMETER**

PARAMETER	ITEM		UNIT	GVT405/L	GVT405M/ML
FAINMIVILTER		Swing over bed	mm Ø610		0
		Max. turning dia. on the saddle	mm	Ø50	0
		Recommended turning diameter	mm	Ø305	
	CAPABILITY	Max turning diameter	mm	Ø496	Ø420
		Max. turning diameter	mm	Ø376	
		Max. turning length	mm	461	400
		X-axis	mm	268	}
	TDAVE	Z-axis	mm	488	}
	TRAVEL	C-axis	degree		360
		{Servo double-sided knife axial str	oke} mm	5~60	
		Max. spindle speed	r/min	3000	
	CDINIDITE	Spindle nose	ASA	A2-8	
	SPINDLE	Spindle bearing diameter (front)	mm	Ø130	
		spindle bore	mm	Ø90	
	. 6	Tool number	st	12	
		Number of cutting tools	st	10	
	TUPPET	OD tool size	mm	25×25	
	TURRET	Servo end face tool size	mm	25×25	.4
lus.	7.	Boring bar diameter	mm	Ø50	Ø40
ill,		Adjacent tool position rotation time	ie s	0.15	
		X-axis	m/min	20	
	FASTFEED	Z-axis	m/min	20	24
Ache.com	FASIFEED	C-axis	r/min		200
		{Servo double-sided tool move axis	s} m/min	15	ر ۹
	MOTOR POWER	Spindle motor power (30min/continuous) kW		22/18.5	
O.		Servo motor power	kW	3.0/4.0	3.0/7.0
		{Servo double-sided knife motor}	kW	0.75	
	POWER	Electricity supply (rated capacity)	kVA	30.49	37.14
)		Height	mm	3199	5
	SIZE	Length×Width	mm	1475 ×	2717
		Net weight	kg	6000	0

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#### **STANDARD**

Soft claw

Standard tool holder Hydraulic power unit

Cutting fluid supply. Lubrication equipment

Work light Pedal switch "WW Grig

Hydra chuck&rotary cylinder Front door interlock device

Safety warning nameplate Leveling bolts and shims

Random toolbox (including small tools for operation)

Work condition light Iron filings and cooling safety protection sheet

Operation and component manual

#### **OPTIONAL**

Chip conveyor

Additional tool holder&boring sleeve

Chip truck Auto tool alignment (plug-in)

Hard claw Auto door

Air gun Claw cleaning and blowing

Water gun Auto power off Oil skimmer Air condition

Servo double-sided tool

(GVT405/L)



#### NC **SPECIFICATION**

#### FANUC i Plus Series

	Axis control	User macro
	Control path	1 path Decimal point input/Calculator decimal point input
	Control number of axes 2axis	Diameter/radius specified
	Also control the number of axes 2axis  Control shaft disassembly	Coordinate offset direct input G code class B/C
///////	Reverse clearance compensation	Any Angle chamfer/corner R
////NC	Reverse clearance compensation for	10 times input units
SPECIFI	ATION each quick feed and cut feed	
///// 01 2011 1	Chamfer start/stop  Advanced feedforward control	Mark Skip  Manual Absolute value 0N/OFF
	Position tracking	Maximum instruction value Earth 9 d
// FANILG:	Some HDV controls HDV2	Compound fixed loop
// FANUC i	lus Imperial/metric conversion	Composite fixation cycle II
Series	Interlocking	All axes/all axes Select program segment Skip 9 pie
Series	Minimum input increment 0.001/0.0001	Parity Check
	mm /inch Minimum setting unit C SXC	Plane selection G17,G18,
	Mechanical lock	All axes/all axes Program file name 04 d
	Mirroring	Programmable data entry
	Overpass	Sequence number N8 d
	Servo off Storage stroke detection 1	Subroutine instruction call 10 layers of net Paper tape code EIA RS422/IS0
	Abnormal Load Detection	Paper tape code EIA RS422/IS0 FANUC10/11 System paper tape format
	Emergency stop	Workpiece coordinate System G52-
	Position switch	Job coordinate system preset
	Operations	User software capacity
	Autorun (memory)	Macro actuator
	MDI run Buffer register	Tool function/tool compensation  Automatic tool compensation
	DNC run	The measurement of tool compensation value is
		entered directly into B
	Marie Marie Profesional	A CF card and a
	Use a memory card for a DNC run dec	dicated adapter are Cutter features
	Scheduling features	required Tool shape/wear compensation
	Empty run	Tool life Management
	Incremental feed	X1,X10,X100 Tool radius compensation G43,G44,
	Handwheel feed interrupt	Tool position offset 128
	JOG feed	Number of tool compensation
	Manual intervention and return  Hand wheel feed	Tool life management extension Program Editing
	Manually return to the reference point	Background editing
	Program number retrieval	Extension editing
	Program restart	Number of login programs 100
	Sequence number search Interpolation function	Program editing Program Protection
	Return to first reference point	Manual, G28 Program storage capacity
	Return to second reference point G30	Setup and display
	Return to reference points 3 and 4	Show actual speed
7	Naninterpolating	Display alarm information
	Exact way to stop Tapping method	Show alarm history Show current location
	Method of cutting	Display the floppy disk directory
	20 Charles Market	Displays the actual spindle rotation number /T
	Accurate stopping	code
	Arc interpolation G02,G03	Help features
	Continuous Thread Cutting Polygon machining	Display in languages by country Show operational history
<i>C</i> .	Cylindrical interpolation	Show parameter Settings
	Pause	Show program notes 32,31 charac
	High Speed skip	Show working hours/number of parts
	Straight interpolation  Multiple thread cutting	G01 Self-diagnostic function Servo information screen
	Positioning	G00 Spindle information screen
	The second secon	
	Return to reference point to detect G27	Graphic display Knife path dis
	Thread cutting/synchronous feed	Status display
	Thread cut cycle back	Clock function
	Torque limit skip	Parameter checksum function
	Variable nitch thread cutting	
	Variable pitch thread cutting Feed function	Data input/output External data input
	Feed function Automatic acceleration/deceleration	Data input/output External data input External key input
	Feed function Automatic acceleration/deceleration Cutting feed rate reed	Data input/output External data input External key input External program number retrieval 1-1
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	Feed function Automatic acceleration/deceleration Cutting feed rate reed Feed per minute Feed per turn Feed rate multiplier (10% unit)	Data input/output
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	Feed function Automatic acceleration/deceleration Cutting feed rate reed Feed per minute Feed per turn Feed rate multiplier (10% unit) JOG magnification (10% units) Manual feed per turn Multiplier cancel Quick feed multiplier Fast feed speed 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 functions Spindle function Spindle serial output Spindle magnification Spindle magnification Spindle magnification Spindle output switching Rigid tapping Program input Absolute/incremental instructions Append user macro public variables	Data input/output   External data input   External data input   External key input   External program number retrieval   1-9   G98   External job number retrieval   9   G99   Input/output of memory card   0-2000   Reader/puncher interface   CH1. Interf   0-2,000 mm/min   R5232C port   USB port   Automatic data backup   USB port   Automatic data backup   F0, 50100% Other   Start running and the indicator lights up   Display unit   10.4 "color LCD/l   Feed is held and indicator light is on   NC and servo ready   PMC System   0i-P   Ethernet features   EOP(Easy operation screen)   M 8-bit number   Select specifications   S5 digits   - Data Server   Start specifications   S5 digits   - Hand wheel feed rollback   0-150%   Dynamic graphic display   - Operation boot 0i   - Tool load monitoring   -CF Card (2GB)   PROFIBUS-DP   Maximum number preread segment   PRO FINET   -CC-LINK   Maximum number preread segment   PRO FINET   -CC-LINK   Maximum number preread segment   PRO FINET   -CC-LINK   Profile Control
	Feed function Automatic acceleration/deceleration Cutting feed rate reed Feed per minute Feed per minute Feed per turn Feed rate multiplier (10% unit) JOG magnification (10% units) Manual feed per turn Multiplier cancel Quick feed multiplier Fast feed speed 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 functions Spindle function Spindle magnification Spindle magnification Spindle magnification 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	Data input/output External data input External lata input External program number retrieval G98 External job number retrieval 9 G99 input/output of memory card 0-2000 Reader/puncher interface 0-2,000 mm/min R8232C port USB port Automatic data backup F0, 50100% Other Start running and the indicator lights up Display unit Feed is held and indicator light is on NC and servor ready PMC System Ethernet features EOP(Easy operation screen) M 8-bit number S5 digits - Data Server S5 digits - Data Server - Land wheel feed rollback 0-150% Dynamic graphic display - Operation boot 0i - Tool load monitoring - CF Card (2GB) PRO FINET - CC-LINK Maximum numbe
	Feed function Automatic acceleration/deceleration Cutting feed rate reed Feed per minute Feed per minute Feed per turn Feed rate multiplier (10% unit) JOG magnification (10% units) Manual feed per turn Multiplier cancel Quick feed multiplier Fast feed speed Fast feed speed 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 Spindle function Spindle serial output Spindle magnification Spindle magnification Spindle magnification Spindle output switching Rigid tapping Program input Absolute/incremental instructions Append user macro public variables Fixed loop for drilling Single shape fixed cycle	Data input/output   External data input   External data input   External key input   External program number retrieval   1-9   G98   External job number retrieval   9   G99   Input/output of memory card   0-2000   Reader/puncher interface   CH1. Interf   0-2,000 mm/min   R5232C port   USB port   Automatic data backup   USB port   Automatic data backup   F0, 50100% Other   Start running and the indicator lights up   Display unit   10.4 "color LCD/l   Feed is held and indicator light is on   NC and servo ready   PMC System   0i-P   Ethernet features   EOP(Easy operation screen)   M 8-bit number   Select specifications   S5 digits   - Data Server   Start specifications   S5 digits   - Hand wheel feed rollback   0-150%   Dynamic graphic display   - Operation boot 0i   - Tool load monitoring   -CF Card (2GB)   PROFIBUS-DP   Maximum number preread segment   PRO FINET   -CC-LINK   Maximum number preread segment   PRO FINET   -CC-LINK   Maximum number preread segment   PRO FINET   -CC-LINK   Profile Control





ITEM	UNIT	GVT405/L	GVT405M/ML		
Max. turning dia.	mm	Ø496	Ø420		
Max. turning dia.	mm	Ø376			
Max. turning length	mm	461	400		
Spindle motor power (30min/continuous)	kW	22/18.5			
Max spindle speed	r/min	30	3000		
Tool number	st	12			
Number of cutting tools st		10			

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