GMT-2000 MULTI-TASKING MACHINE

CLOODW:Y

SERIES



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ANY IMAGINATION OF PROCESSING CAN BE ACHIEVED BY GMT-2000 SERIES

Looking for advanced processing equipment, with both high productivity and processing capacity for complex workpieces, as well as excellent cost performance. The seemingly impossible task will be fully achieved by GOODWAY GMT-2000 series.

The GMT-2000 series integrates the functional characteristics of turning centers and machining centers into one. It has the highest 9-axis control and 5-axis simultaneous machining capabilities. It can not only efficiently complete various complex shapes of workpieces, but also easily overcome the need for heavy cutting. This is a versatile model that can be used in all industries.

In addition, the optional G.LINC smart operating system and various automation equipment can further improve production efficiency, reduce manufacturing costs, and fully meet all your processing needs today and tomorrow.

66%

save

66%

save

75 %

save

80%

save



GMT series Advantages of Multi-tasking Machine Center

Manpower requirement

Only one operator needed to complete all processes.

Number of machines

Integrate highly complex machining capabilities such as turning, milling and gear hobbing.

Workpiece time setting

The workpiece can be set from raw material to finished parts once.

Number of fixtures

Significantly reduce the number of fixtures required and the adjustment time.









GMT 2000 Engineering s.r.l.

Automotive

Energy

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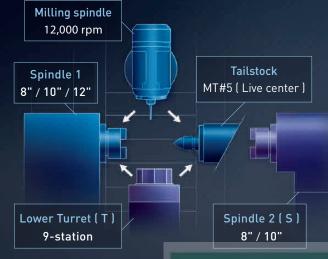
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MULTI-TASKING MACHINE ENSIL NUOVE ED USET

GOODW:Y

THE ULTIMATE MACHINING POWER

Both the milling spindle and the lower turret can flexibly support the spindle 1 or the spindle 2, making the process arrangement more flexible than more general models. In addition, the long and slender bar is clamped and fixed at both ends of the twin spindles. The milling spindle and the lower turret are synchronized to balance cutting, which can greatly shorten the cycle time and ensure the ultimate machining accuracy.



Model	Model		GMT-2000S	GMT-2000ST			
Max. turnir	Max. turning length		1,020 [*] / 1,520 (L1) / 2,520 (L2) mm				
Max.	Milling Spinale		Ø660 mm				
turning diameter	Lower turret			Ø420 mm			
Milling spi	Milling spindle		•	•			
Spindle 1	e 1 🔹 🔹 🔸		•	•			
Servo tails	ailstock • —						
Spindle 2	Spindle 2		bindle 2 –		•	•	
Lower turr	Lower turret		r turret — — —			•	
* GMT-2000ST c	loes not provide this s	pecification. •	Standard —	: Not Available			

GMT-2000 series

Engineering s.r.l.





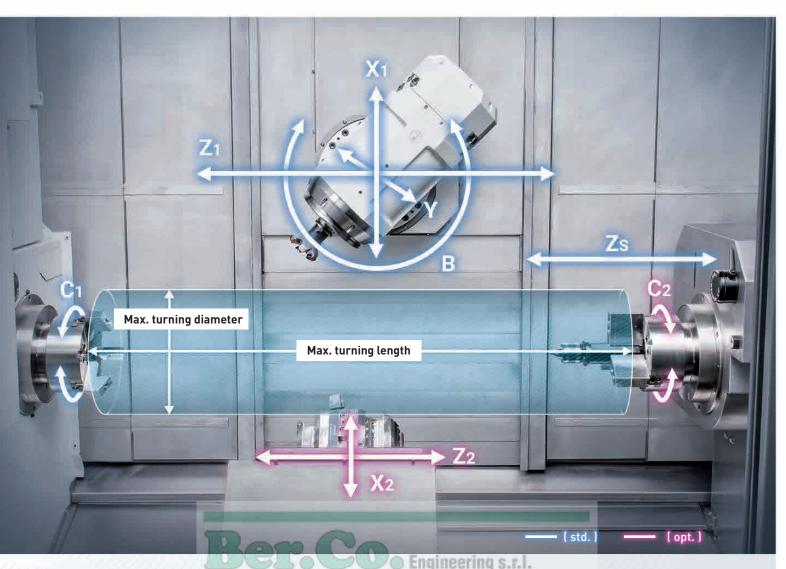








* The processing modes listed above may be an option functions, please contact GOODWAY for more information.



Significant Production Efficiency

- Since the maximum stroke of the X-axis can exceed the centerline of the spindle by 125 mm, and the maximum stroke of the Y-axis is ±150 mm from spindle center, the GMT series can perform high-precision contour milling and drilling even if it is not controlled by the C-axis, and the processing is more efficient.
- The three-axis feed system, including the X, Y, and Z axes, are directly driven by a high-load servo motor with a rapid feed rate of up to 50 / 40 / 50 m/min.

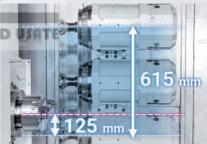
Sufficient Processing Range

- The X, Y, and Z axes maximum stroke leads all other models of the same class, making processing more flexible.
- 3 different lengths of machine beds with 3 different spindle specification providing 9 basic specification combinations.
- A chain type tool magazine with up to 120 tools can be installed to easily overcome any complex cutting tasks.

High-precision Countermeasures

- The spindle, milling spindle and feed system are equipped with cooling circuit design, which can effectively inhibit thermal displacement and ensure the ultimate machining accuracy.*1
- B-axis standard high-resolution rotating linear scale.
- Optional spindle thermal compensation system.

*1 : The X1-axis is equipped with a hollow ball screw as standard, other axial options are available.



X-axis travel



Y-axis travel



Cooling Technology

SUPER RIGIDITY STRUCTURE ACHIEVE PERFECT ACCURACY AND PERFORMANCE

The main castings of the GMT series are all finished with the final processing procedures in the GOODWAY factory; the core components such as the turret and spindle are assembled and verified in GOODWAY's precision assembly plant. The self-manufacturing ability of key components allows us to strictly control the quality of our products, thereby ensuring that the performance of the machine can be maximized. This is the biggest difference between the GMT series and other models of the same grade.

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Finite Element Methods (FEM)

All structural parts have passed FEM (Finite Element Methods), which has the advantages of optimized design and lightweight structure to ensure the best structural rigidity of the whole machine.

MACCHINE UTENSIU

High Rigidity Machine Base

The base with high-performance ribs is not only integrally cast but also made with high-tensile Meehanite cast iron, with heat flow balance design to meet the needs of longterm processing. Because Meehanite cast iron can provide greater damping and reduce deformation, the machine is not only durable but also ensure outstanding performance.

Low Gravity, Lightweight Column

The column structure with low center of gravity can provide the stable support rigidity of the X-axis saddle, avoiding the milling spindle overhang; and the lightweight design allows the Y and Z axes to have higher dynamic performance.

Orthogonal Y-axis Structure

The Y-axis saddle and the X-axis are designed in an orthogonal structure which can achieve a longer Y-axis stroke, thereby providing a more abundant processing range.



Spindle Cooling

The cooling circuit circulates around the spindle shaft and front bearing, and the temperature is precisely controlled by an independent cooler which can effectively reduce the thermal displacement of the spindle and ensure excellent machining accuracy.

Cooling Oil Circulates

High Accuracy Ball Screw

The heat-treated and precision-ground C3 grade ball screw can ensure the highest precision and durability. In addition, each axis has a pre-tensioning design, which can minimize the displacement and greatly improve processing accuracy.

The X1-axis is designed with a hollow ball screw. The cooling circuit can pass through the ball screw axis to suppress the axial thermal displacement and meet the needs of high-speed and high-precision machining. (other axis option are available)



Roller Type Linear Guideway

All linear axes adopt ultra-high rigidity roller-type linear guide, which have both heavy cutting rigidity of box way and the rapid movement and low wear characteristics of linear slides. The rigidity and controllability are greatly improved.

Accuracy Feedback System (Opt.)

The optional high-resolution HEIDENHAIN full-closed loop optical scale or SCHNEEBERGER built-in absolute magnetic decoder linear guideway to achieve higher positioning accuracy.

Automatic Lubrication System

The use of high-grade automatic lubrication and copper tubing can provide lubricating grease for precise adjustment of slide rails, ball screw and other important components. The system will automatically shut down during standby to avoid waste.

HIGH PERFORMANCE MILLING SPINDLE

The milling spindle comes with many features such as high speed, high horsepower, low interference, etc.; it can continuously index every 0.0001° within the 240° B-axis travel range. Not only to perform heavy cutting on fixed angle, but also perform 5-axis simultaneous motion contour milling, with extremely flexible processing capabilities.



Modular Design

The milling spindle is composed of three core components, spindle, B-axis and interface connector. The signal line between the components and the air hydraulic pipeline are connected by modular connectors, so there is no need to disassemble the line for maintenance. Significantly reduces downtime for maintenance.

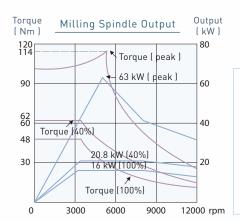
- 12,000 rpm high accuracy built-in spindle.
- B-axis is driven by high rigidity roller cam.
- B-axis is controlled by fully-closed loop.
- High rigidity dual contact spindle.

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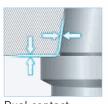
High Precision Built-in Spindle

- The built-in motor design can reduce the rotation vibration of the spindle, extend the life of the spindle, and ensure processing accuracy under long-term operation.
- The special labyrinth structure design allows the spindle to have an excellent protective effect. Even if the high-pressure cooling system is used for cutting, the coolant will not pollute the spindle.
 (CTS function is option)



Cooling Oil Circulates

The cooling circuit circulates around the spindle shaft and front bearing, and the temperature is precisely controlled by an independent cooler which can effectively reduce the thermal displacement of the spindle and ensure excellent machining accuracy.



Dual contact spindle



Single contact spindle

The taper surface and both ends of the twosided fixed beam spindle can be closely attached to the tool holder at the same time, ensuring the required tool blades under heavy cutting conditions and extending the tool.

(HSK-T63 and Capto C6 are available.)

B-axis Turning

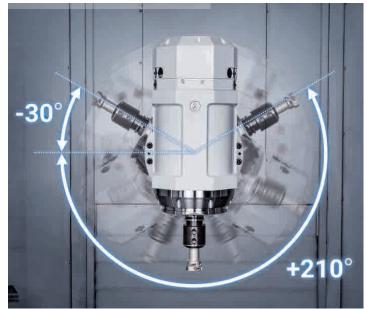
The B-axis turning with the tool tip smooth function can improve machining efficiency while ensuring excellent workpiece surface accuracy.

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High Rigidity B-axis

- High rigidity roller cam transmission design, not only the anti-torque capacity is up to 970 Nm, but also the rotation accuracy is high, the backlash is almost zero, and the minimum indexing of the B axis is 0.0001° (Standard function fully closed loop rotating optical scale)
- The braking system adopts a hydraulic brake combined with a 3-piece curvic couplings design, with a clamping force of up to 3,000 Nm, which can meet the machining rigidity required for heavy cutting at a fixed angle.







Through the rotation and positioning of the milling spindle, the same turning tool can support the first and second spindles, which can reduce the number of tools required, eliminate the time for tool exchange, and improve production efficiency.

HIGH EFFICIENCY AUTOMATIC TOOL CHANGE SYSTEM

The chain type magazine is combined with the design of the arm type automatic tool change system, which has ample tool positions, fast and reliable tool change, can significantly save non-cutting time, and can meet the processing needs of complex workpieces

- High-speed servo motor drives the tool change design, and the tool magazine can select two-way shortcuts. The tool change is extremely efficient. T-T only takes 1.2 seconds.
- The whole process of tool change is controlled by a precision cam, which can realize the tool exchange stably and reliably. Therefore, the taper of the spindle can avoid accidental knocking and injury.
- The automatic tool magazine door can only be opened during tool change, which can effectively avoid contamination of the tool magazine with chips and ensure the reliability of tool change.
- 40T (Std.) / 80T / 120T chain tool magazine can be selected according to requirements.





- The tool magazine and the control panel are both installed on the front of the machine, making it easier and safer to disassemble and assemble tools.
- The protective door of the tool magazine is equipped with a large window, providing a high degree of visibility.

TOOL MAGAZINE	GMT-2000 series
Capacity	40T / 80T / 120T
Max. tool length	450 mm
Max. tool weight	12 kg
Max. tool dia. / adj. pocket empty	Ø 90 / Ø 130 mm

HIGH RIGIDITY LOWER TURRE

The lower turret can not only make the process arrangement of the GMT-2000 series more flexible, but also can install alternative equipment such as live center, steady rest, workpiece support, etc., which greatly improves the processing efficiency.

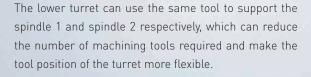
- When the long and slender workpiece is synchronized balance turning through the milling spindle and the lower turret, which can significantly reduce the processing time and obtain higher surface accuracy of the workpiece.
- The servo indexing turret achieving 0.2 second indexing times for adjacent stations and 0.5 second for stations at the opposite end of the disk. Index movements are single step, without pauses, no matter how many stations are skipped.
- The super high precision curvic couplings accurately position the turret disk and the powerful clamping force ensures abundant turret rigidity for all cutting conditions.



🕞 Engineering s.r.l.

KARA KA

9-station lower turret (□ 25 / Ø 40 mm)





Live Center (Opt.)

In addition to using the tailstock, you can also use the lower turret to install a live center for workpiece support, which has the advantages of smaller interference and higher work efficiency.



Automatic Steady Rest (Opt.)

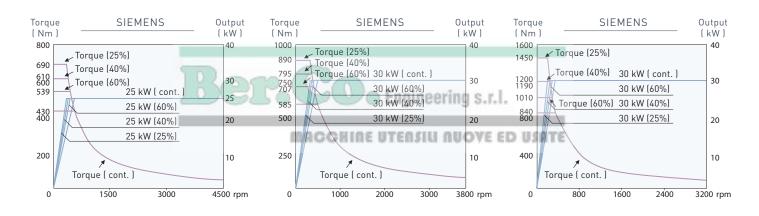
The steady rest installed in the lower turret can provide stable support rigidity for long workpieces and reduce the rotation deflection error. The steady rest can be automatically centered, and the workpiece can be directly processed after clamping.

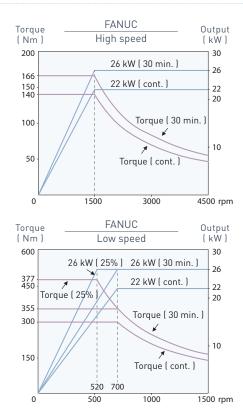
ULTIMATE MACHINING POWER

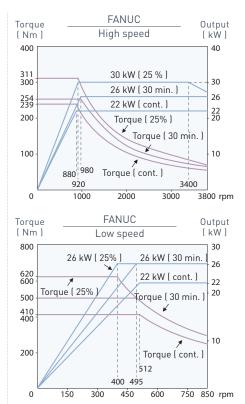
Built-in Motorized Spindle

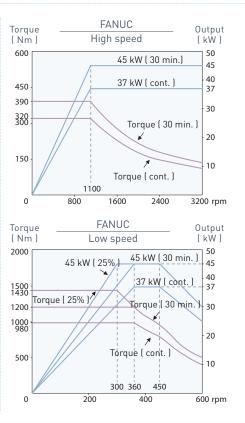
Spindle 1 / Spindle 2 Output

- Provide 3,200 / 3,800 / 4,500 rpm three options, maximum torque output up to 1,450 Nm, whether it is low-speed heavy cutting or high-speed cutting of other non-ferrous metals such as aluminum alloy, it is easy to overcome.
- The built-in motorized spindle design can minimize the rotation vibration of the spindle, ensure excellent surface accuracy of the workpiece, and extend the service life of the spindle (the SIEMENS or FANUC built-in motor can be selected as required)
- The optimized spindle labyrinth structure can effectively prevent the coolant from polluting the spindle and effectively ensure the durability of the spindle.







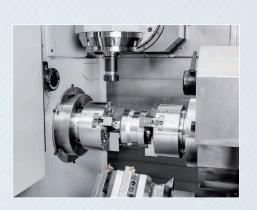


BACK PROCESSING CAPACITY

The spindle 2 adopts the same specification design as the spindle 1, which can provide the same powerful cutting ability on the front and back of the workpiece.

The optional part catcher or part conveyor system can eliminate the burden of manual unloading to meet the needs of mass production.





Parts Transfer by Spindle Synchronize RPM Feature

The Zs-axis of the spindle 2 adopts roller-type linear slide rail design, which has the characteristics of high rigidity and fast movement.

Under the condition of two spindle synchronize rotation, the spindle 2 can picked up the workpiece from spindle 1 and then perform back side matching.

PRECISION C-AXIS CONTROL

The C-axis is directly driven by the spindle motor (Cs-axis), with high-resolution position decoder and disc brake system, positioning is accurate and fast, with a minimum positioning index of 0.0001° and extremely high dynamic performance.

Universal Disc Brake System

The brake system adopts the design of 360° all-axial hydraulic brake and disc brake disc, which has the characteristics of high rigidity, heavy cutting resistance, and extremely high resistance to vulcanization.

High Efficiency C-axis Synchronization Function

The C-axis control function can achieve the expected time required for the best synchronization of the first and second spindles (for example: transfer of a workpiece between two spindle at the same time). On average, the efficiency of C-axis synchronization is more than 5 times that of the spindle synchronization mode.

HIGH RIGIDITY SERVO TAILSTOCK

The servo can provide sufficient support rigidity for long shaft workpieces, avoid workpiece rotation yaw errors, and meet highprecision machining requirements.

- Through M code control, the tailstock servo motor and ball screw drive to the desired position, without manual adjustment, it can easily and quickly withstand the center of the workpiece.
- Through the powerful thrust of the servo motor, the tailstock can hold the workpiece firmly and continuously to ensure the supporting rigidity required during heavy cutting.
- The models equipped with the spindle 2 (GMT-2000S / GMT-2000ST) can also use the clamping jaws to install the live center, which has the function of a servo tailstock.

Model	GMT-2000 series
Tailstock type	Programmable servo tailstock
Quill center taper	MT#5 Live center
Quill diameter	Ø110 mm
Tailstock base travel	1,560 mm





OUTSTANDING OPERABILITY

Pneumatic Unit

The pneumatic unit is equipped on the side of machine for checking and maintaining in time.

Tool Magazine

The tool magazine is located in front of machine for quick tool mounting / dismounting.

Spindle Center Height 1,235 mm



Optimized Working Area

The compact designs not only accomplish the optimized working area but provide more convenient and safer loading work.



1,590 mm

MACCHINE UTENSILI NU



High Visibility And Impact-resistance Window



Adjustable Control Panel

The control panel can be rotated 310° and left-right move 900 mm according to operator's requirement.

Roll-out Coolant Tank

Roll-out coolant tank with front pulled-designed is easier for operator to clean and maintain.

STRATEGY FOR CHIPS REMOVING

GMT-2000 series comes with a complete strategy for removing chips. It can provide optimized coolant ability for tools and ensure maximum efficiency in removing chips from the machining area. While ensuring the machining accuracy, it also provides the effect of extending tool lifetime.



Coolant Nozzle Around Spindle



Coolant From Side of Chuck



Coolant Through Spindle



Coolant Through and Air Blow for Tool Holder

Chip Wash Down Coolant System

* Above functions can be chose as optional accessories



Chip Conveyor

Goodway provides the best solution for the chip conveyor according to different type of chips. Chain-belt type chip conveyor is suitable for curled chips. Scrape type chip conveyor is suitable for the powder chips of casting, aluminum and copper.

Chip type	Curled chips				Powde	r chips	
Chip material	Steel	aluminum	color metal	casting	aluminum	copper	non-metal
Chain belt type	•	•	•				•
Scrape type	_		—	•	•	•	

• Applicable — Not applicable

OPTIONAL ACCESSORIES



The Measurement for The Center Point of Rotating Axis

To adjust the deviation of center point for rotating axis.

(The signal is blue tooth transmission with non-directional)



Workpiece Inspection Probe

It is available to identify and set the workpiece, monitor the surface of workpiece and verify the dimension of finished part.



Tool Presetter

Whole travel measurement is programmable control. It can be auto-hided on the collecting box when the tool setter is not used. (The probe arm for lower turret is detachable)



Linear Scale

The full enclosed linear scale is with 0.1 μ m resolution and the position accuracy will be ± 0.010 mm / full travel (JIS)

Auto Doorne utensiu nuove ed Coolant Cooler

It's available to decrease the work loading of the operator by equipping a robot arm, and giving the option to integrate it into an automated production line. It is able to control the coolant temperature efficiently and decrease the possibility of deformation from the machining.

R1000i

R series High Pressure Coolant System Opt.

Max. Pressure : 70 ~ 100 bar (1,000 ~ 1,500 PSI)

Max. Flow Rate : 30 ~ 53 LPM ($8 \sim 14 \; \text{GPM}$)

Coolant Type: Water or Oil

- Pressure output monitoring system
- Filter replacement checking
- Super large capacity coolant tank
- Patented diaphragm pump (made in USA.)
- Touch screen of HMI



- Pressure controlled by programmable valve control, no need to be adjusted manually, more accurate pressure output.
- It is controlled by closed loop of inverted motor, it can be adjusted to proper flow automatically by pressure to save power and decrease heat raising of coolant.^{*1}
- Use Ethernet to connect^{*2} with machine, easy wiring and setting, save cost of purchasing hardware.
- *1 Traditional manual adjusting way is constant frequency full flow output.
- *2 Only FANUC / SIEMENS controller

R1500

GLINC INTELLIGENT OPERATING SYSTEM (Opt.)

Make Your Machine Smarter

- Multi-touch screen
- Excellent operability
- Multiple adjuvant tool
- Utilization rate checking and analysis
- Workpiece counter checking and analysis
- Integrative machining operating interface
- Visible date interface
- Maintenance notification

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Machining preparation \Rightarrow	Program editing 🔿	Machining	Adjuvant function
Ultra fast tool selection	• Adjuvant of G/M code	Load monitor	Data record • Memo
To memorize MDI program	 Graphical procedure 	 Tool life time 	Maintenance • E book
	management CCHIN I	Machined parts counter	Warn
	• Manual Guide <i>i</i>	Visible servo observation	Prt Scrm record



Ultra fast tool selection

To change the current tool number by virtual keyboard and to set the protective button for mistouch.



Tool load monitor

In processing, it is able to monitor each axis loading value. If loading value is out of the reasonable range, alarm will sound.



MDI program memory

Operator can save the current machining program code in bookmark and call it again from there.



Tool life monitor

Set each tool process time and amount. If it reaches to set value, alarm sound.



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G/M code assistance

When editing process program, search G/M coder function to assist in editing program.



Graphical process manager Data recorder

Graphical present process program list and add note to each process program.

Visible servo observation

Observe information of each spindle and servo axis, such as coordinates, rotating speed, torque, etc.

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View after setting every information of machine monitor. Export file and analyze the data.

ADVANCED CONTROL FUNCTION

DIGITAL TWIN (opt.)

Finish following work without using machine in factory under simulated environment by using Digital twins' software Run My Virtual Machine.

- Evaluate process machine movement and actual machine status.
- Test work-piece acceptance by the software.
- Verify status of machine series number and fixture.
- Use real CNC movement to prevent process from collision.
- Use SIEMENS operating panel process 3D model, and finish machine training.



ORISON

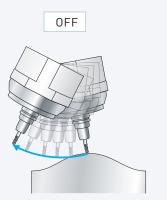
Direction smooth function can ease the position swing in 5 axes program by using multi-block. The purpose is to reach the property of smoothing both position and contour.

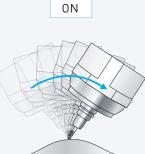
ORISON allows tool position smooth (vector) without involving contour, which is able to use high rotating axis tolerance, and increase process speed rate and shorten process time.



TRAORI

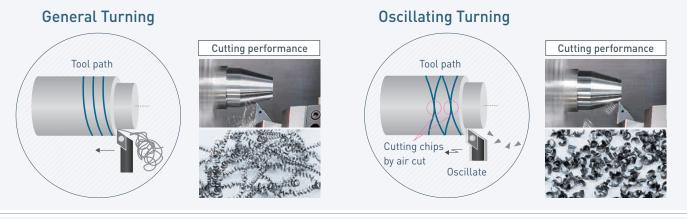
X, Y, Z correction movement will be recalculated and includes changing tool position, which tool tip stays in the same position. When calculating amount of movement, current tool length and work-piece frame will be considered.





OCR (opt.)

OCR oscillating cutting function is to air cut fine chips while oscillates the slide axis fully synchronized relative to spindle rotation. No mechanical failure occurred due to entangled chips which enhances machine effectiveness.



AIR BAG (opt.)

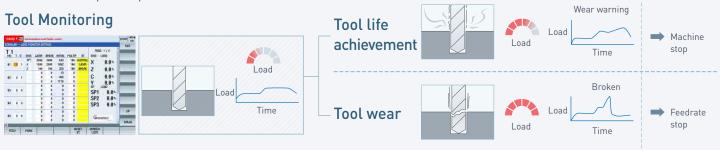
Check servo motor loading torque. When loading torque is out of range (accidently crash), system will enter emergency status and return servo axis at the same time to lower the damage and avoid too much service cost and loss from the machine long stop.

Retract tools within 0.009 sec. TEALING OVE E*This function is limited to FANUC controller.



LOAD MONITOR (opt.)

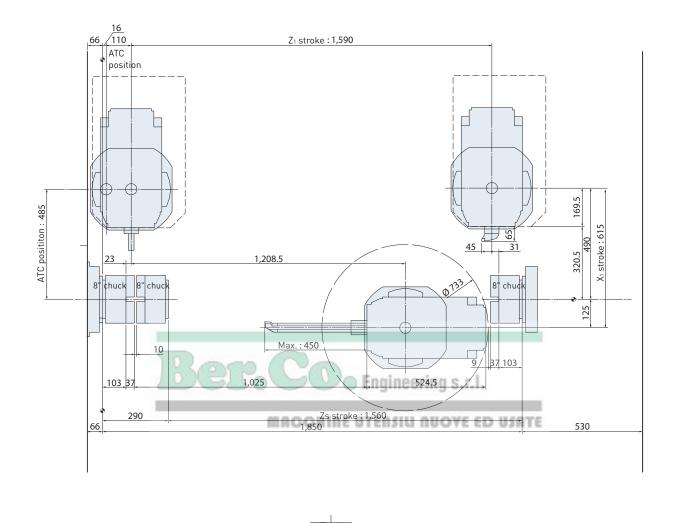
Load monitoring function can check the abnormal tool load via detecting the electric current variation of main spindle and servo motor when turning. When abnormal loading occurs, if achieve tool life, machine will stop when program end (M30); If achieve wear value, machine will immediately pause the feedrate but will not stop the spindle.

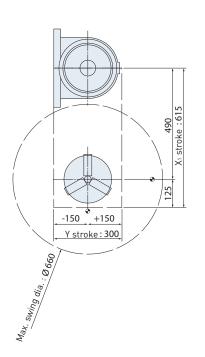


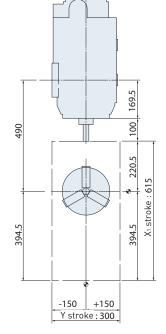
GENERAL DIMENSION

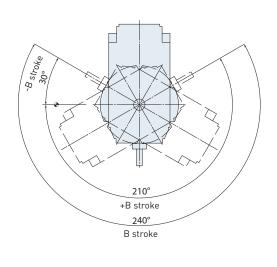
Work Range SIEN

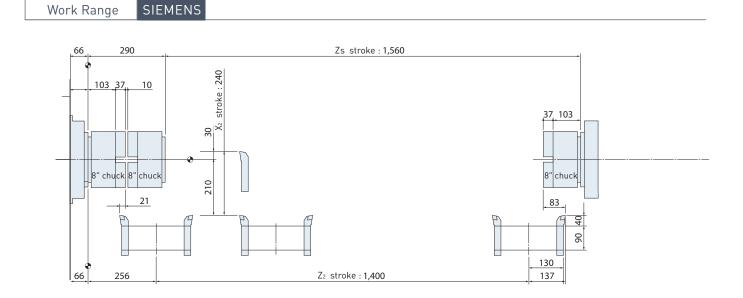
SIEMENS

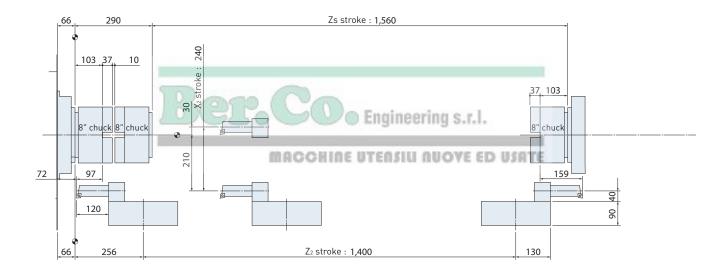




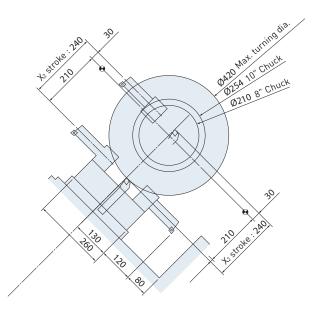








Interference Diagram SIEMENS

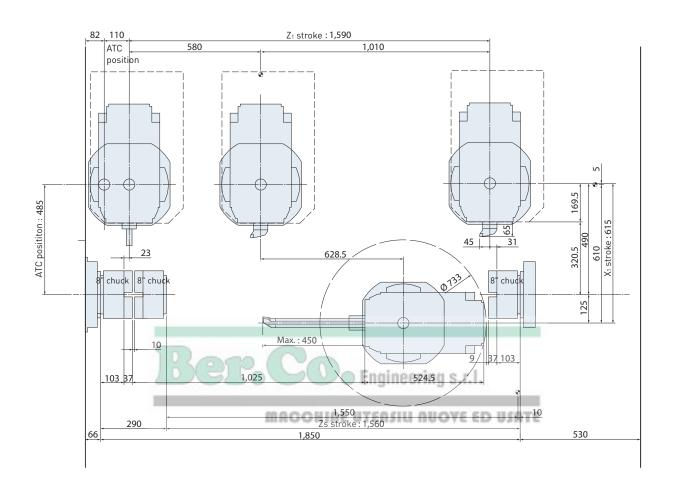


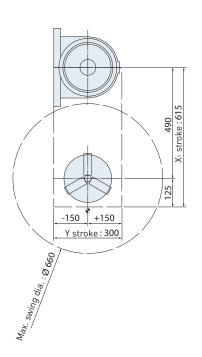
Unit:mm

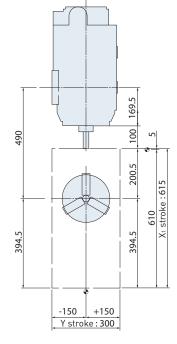
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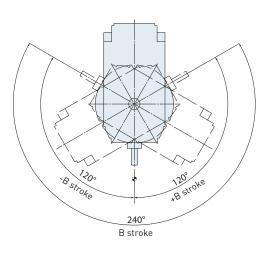
Work Range

FANUC



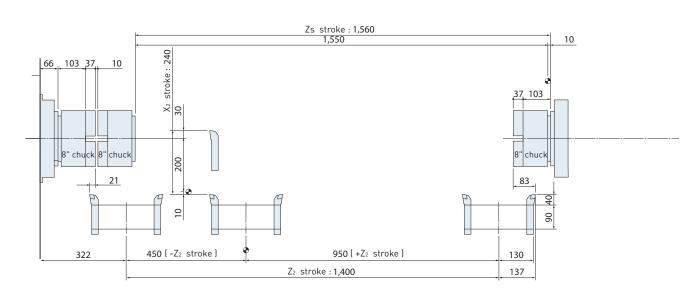


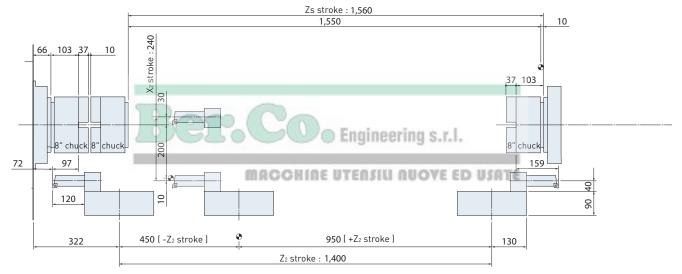




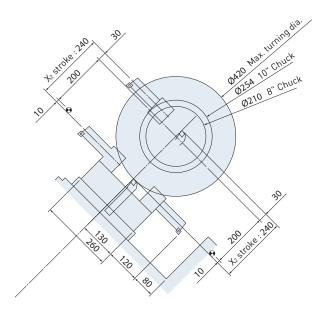
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Work Range FANUC





Interference Diagram FANUC



Unit : mm

GENERAL DIMENSION

Tooling System



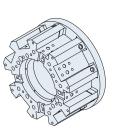
Clamp Block CV-3045 Clamp Gib CV-3046

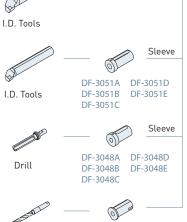
> 0 DF-3044

> > CV-3097

I.D. Tool Holder

DF-3026





DF-3049 DF-3050 Drill

STANDARD & OPTIOANL FEATURES

ς	Standard	

0 : Option - : Not Available C : Contact GOODWAY Engineering s.r.l.

SIEMENS CONTROL FUNCTIONS	$\langle \cdot \rangle$	0	
		IDE S	BS
Control 2~4 axis at the same time	S	S	
Control 5 axes at the same time -	-	S	
Minimum command unit 1nm, 0.0001 mm, .00001", 0.0001°	S	S	-
±9999.99999", ±99999.9999°	S	S	
configuration Max.number of programs : 1000	S	S	
Program storage : 6GB	S	S	
Program storage expansion : USB/ FTP	S	S	
Display : 19" touch panel	S	S	_
Resolution : 720P	S	S	-
Linear, circle, helix	S	S	
Splines, polynomials, involutes	S	S	
	S	S	
Look Ahead	S	S	
Compressor	S	S	
Axis functions Equal pitch threading	S	S	_
Variable pitch threading	S	S	
Re-threading	S	S	
Override threading	S	S	_
Override variable threading	S	S	
SINUMERIK CNC programming language with high-level language elements	_	S	
Online ISO dialect interpreter -	-	S	
ProgramGUIDE -	-	S	
DXF reader	0	0	_
Technology cycles for drilling, milling and turning	S	S	_
CNC Balance Cutting	S	S	_
programming ShopMill / ShopTurn machining step programming	S	_	
Cycles for process measurements	S	S	
ProgramSYNC (multi-channel operation and programming)	S	S	
3D CNC simulation for turning / milling	S	S	
Simulation in parallel to the main machining time	S	S	

eering s.r.l	Duramic precontrol	rograme	2
SIEMENS CONTRO	DL FUNCTIONS	3	10p
	Acceleration with jerk limiting	S	S
Axis functions	Dynamic precontrol	S	S
	Dynamic servo control in the drive	S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S	S
	Tool Management		S
Tool function	Number of tools/cutting edges, up to 600 / 1500	S	S
	Unit quantity / tool life monitoring with management of replacement tools	S	S
	3D tool radius compensation	_	S
Communication	OPC UA	S	S
	Machine coordinate system	S	S
	Work coordinate system	S	S
Coordinate	Local coordinate system	S	S
system	External workpiece coordinate shift	S	S
	Machine coordinate system shift	S	S
	Additional work coordinates	S	S
	Face / peripheral surface transformation	S	S
Transformations	Multi-side machining (3+2-axis machining)	S	S
	Dynamic 5-axis machining (TRAORI)	S S S S S S S S S S S S S S S S S S S	S
	Travel to fixed stop with force control	S	S
Mashina anazisi	Synchronized actions	S	S
Machine special function	Asynchronous subprograms	S	S
runction	Hobbing	_	0
	Collion Avoidance	S	S
Compensation	Volumetric compensation	0	0
Monitoring	Vibration control and monitoring	0	0
	Specifications are subject to change with	nout n	otic

Specifications are subject to change without notice.

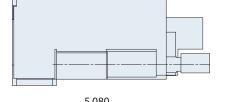
STANDARD & OPTIOANL FEATURES

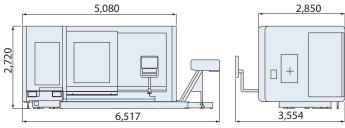
	0 : Option C : Contact GOODWAY	11, 20	GMT 2002	2	
SPINDLE 1		8	<u> </u>	5	_
4,500 rpm (Hole throu	igh spindle Ø76mm)	S	S	S	_
3,800 rpm (Hole throu	ıgh spindle Ø91mm)	0	0	0	_
3,200 rpm (Hole throu	igh spindle Ø113mm)	0	0	0	-
	8" (Hole through spindle Ø76mm)	0	S	S	-
Hollow	10" (Hole through spindle Ø91mm)	0	0	0	-
hydraulic chuck	12" (Hole through spindle Ø113mm)	0	0	0	-
,	15" (Hole through spindle Ø113mm)	0	0	0	-
	0 1	S	-	-	-
Solid	8" (Hole through spindle Ø76mm)		-	-	-
hydraulic chuck	10" (Hole through spindle Ø91mm)	0	-	_	_
-	12" (Hole through spindle Ø113mm)	0	-	_	_
Work-piece block in s	pindle	0	0	0	_
SPINDLE 2					
4,500 rpm (Hole throu	igh spindle Ø76mm)	-	S	S	
3,800 rpm (Hole throu	igh spindle Ø91mm)	_	0	0	-
	uck + solid hydraulic chuck	_	S	S	-
	huck + solid hydraulic chuck		0	0	-
			0	0	
C-AXIS		-		-	
	ndexing (C-axis control)	S	S	S	_
Second spindle 0.0001	5	_	S	S	
(C-axis control / sync	nronization function J				
LOWER TURRETS					
9-station turret		-		S	_
MILLING SPINDLE					
Y-axis control		S	S	S	-
B-axis 0.0001° indexir	a / contouring (EIA)	S	S	S	-
12,000 rpm (oil-air lui		S	S	S	-
		-	0	0	-
12,000 rpm (oil-air lui	Sheation) CAPTO	0	0	0	b .
ATC MAGAZINE		1		20	
40T	20000	S	S	S	
80T		0	0	0	_
120T		0	0	0	-
TAILSTOCK		III H	00	2611	ne.
Programmable base ta	ailstock	S	-	_	
MT#5 Live center		S	_	_	-
Hydraulic steady rest	$[1^{1} & 1^{2} \text{ opt }]$	0	0	0	-
					-
Programmable dual		0	0	0	_
pressure	Spindle 2	-	0	0	
HIGH PRECISION PR	EPAREDNESS				
	X-axis	S	S	S	
Ball screw hollow	Y,Zaxes	0	0	0	
coolant	Zs-axis	_	0	0	-
	X ₂ , Z ₂ axes	_	_	0	-
	B-axis	S	S	S	-
					-
High Resolution			0	0	_
High Resolution Linear Scale	X,Y,Zaxes	0	-		
Linear Scale	X ₂ , Z ₂ axes	-	-	0	-
Linear Scale	X ₂ , Z ₂ axes	0 — S	S	0 S	-
Linear Scale X, Y, Z axes screw pitch	X ₂ , Z ₂ axes	-	-		-
Linear Scale X, Y, Z axes screw pitch	X2 , Z2 axes n correction poth transmission measuring head	— S	S	S	-
Linear Scale X, Y, Z axes screw pitch RMP60 wireless blueto AUTOMATIC OPERATI	X2 , Z2 axes n correction poth transmission measuring head	— S	S	S	-
Linear Scale X, Y, Z axes screw pitch RMP60 wireless blueto	X ₂ , Z ₂ axes a correction both transmission measuring head ON SUPPORT Tooling spindle / Automatic	— S 0		S 0 0	-
Linear Scale X, Y, Z axes screw pitch RMP60 wireless bluete AUTOMATIC OPERATI Tool Presetter	X2 , Z2 axes a correction both transmission measuring head ON SUPPORT Tooling spindle / Automatic Lower turret / Automatic		- S 0 -	S 0 0 0	-
Linear Scale X, Y, Z axes screw pitch RMP60 wireless blueto AUTOMATIC OPERATI Tool Presetter Automatic chuck jaw o	X2 , Z2 axes a correction both transmission measuring head ON SUPPORT Tooling spindle / Automatic Lower turret / Automatic ppen / close		- S 0 - S	S 0 0 0 S	-
Linear Scale X, Y, Z axes screw pitch RMP60 wireless blueto AUTOMATIC OPERATI Tool Presetter Automatic chuck jaw o Chuck jaw open / close	X2 , Z2 axes a correction both transmission measuring head ON SUPPORT Tooling spindle / Automatic Lower turret / Automatic upen / close e confirmation		- S 0 - S S S	S 0 0 0 S S	-
Linear Scale X, Y, Z axes screw pitch RMP60 wireless blueto AUTOMATIC OPERATI Tool Presetter Automatic chuck jaw o Chuck jaw open / close Automatic opening / cl	X2 , Z2 axes a correction both transmission measuring head ON SUPPORT Tooling spindle / Automatic Lower turret / Automatic upen / close a confirmation losing front door		- S 0 - S S 0	S 0 0 0 S S 0	-
Linear Scale X, Y, Z axes screw pitch RMP60 wireless blueto AUTOMATIC OPERATI Tool Presetter Automatic chuck jaw o Chuck jaw open / close Automatic opening / cl	X2 , Z2 axes a correction both transmission measuring head ON SUPPORT Tooling spindle / Automatic Lower turret / Automatic upen / close e confirmation		- S 0 - S S S	S 0 0 0 S S	-
Linear Scale X, Y, Z axes screw pitch RMP60 wireless blueto AUTOMATIC OPERATI Tool Presetter Automatic chuck jaw o Chuck jaw open / close Automatic opening / cl	X2 , Z2 axes a correction both transmission measuring head ON SUPPORT Tooling spindle / Automatic Lower turret / Automatic uppen / close a confirmation losing front door OFF + warm-up system		- S 0 - S S 0	S 0 0 0 S S 0	-
Linear Scale X, Y, Z axes screw pitch RMP60 wireless blueto AUTOMATIC OPERATI Tool Presetter Automatic chuck jaw of Chuck jaw open / close Automatic opening / cl Automatic power ON /	X2 , Z2 axes a correction both transmission measuring head ON SUPPORT Tooling spindle / Automatic Lower turret / Automatic appen / close e confirmation losing front door OFF + warm-up system er		- S 0 - S S 0 0 0	S 0 0 0 S S 0 0 0	
Linear Scale X, Y, Z axes screw pitch RMP60 wireless blueto AUTOMATIC OPERATI Tool Presetter Automatic chuck jaw oc Chuck jaw open / closo Automatic opening / cl Automatic power ON / Machining finish buzze RFID tooling managen	X2 , Z2 axes a correction both transmission measuring head ON SUPPORT Tooling spindle / Automatic Lower turret / Automatic appen / close e confirmation losing front door OFF + warm-up system er		- S 0 - S S 0 0 0 0 0 0	S 0 0 0 S S 0 0 0 0	
Linear Scale X, Y, Z axes screw pitch RMP60 wireless blueto AUTOMATIC OPERATI Tool Presetter Automatic chuck jaw oc Chuck jaw open / closo Automatic opening / cl Automatic power ON / Machining finish buzze RFID tooling managen Bar feeder	X2 , Z2 axes a correction both transmission measuring head ON SUPPORT Tooling spindle / Automatic Lower turret / Automatic appen / close e confirmation cosing front door OFF + warm-up system er hent system			S 0 0 0 S S S 0 0 0 0 0 0 0 0	
Linear Scale X, Y, Z axes screw pitch RMP60 wireless blueto AUTOMATIC OPERATI Tool Presetter Automatic chuck jaw oc Chuck jaw open / closo Automatic opening / cl Automatic power ON / Machining finish buzze RFID tooling managen Bar feeder Gantry-type loader / u	X2 , Z2 axes a correction both transmission measuring head ON SUPPORT Tooling spindle / Automatic Lower turret / Automatic appen / close e confirmation closing front door OFF + warm-up system er heat system Inloader			S 0 0 0 S S S 0 0 0 0 0 0	
Linear Scale X, Y, Z axes screw pitch RMP60 wireless bluete AUTOMATIC OPERATI Tool Presetter Automatic chuck jaw of Chuck jaw open / close Automatic opening / cl Automatic power ON / Machining finish buzze RFID tooling managen Bar feeder Gantry-type loader / u Part catcher Ø90 mm	X2 , Z2 axes a correction both transmission measuring head ON SUPPORT Tooling spindle / Automatic Lower turret / Automatic user / close e confirmation losing front door OFF + warm-up system er hent system Iloader × L150 mm × 6 kg			S 0 0 0 S S S 0 0 0 0 0 0 0 0	-
Linear Scale X, Y, Z axes screw pitch RMP60 wireless bluete AUTOMATIC OPERATI Tool Presetter Automatic chuck jaw op Chuck jaw open / close Automatic opening / cl Automatic power ON / Machining finish buzze RFID tooling managen Bar feeder Gantry-type loader / u Part catcher Ø90 mm (Hole through spindle	X2 , Z2 axes a correction both transmission measuring head ON SUPPORT Tooling spindle / Automatic Lower turret / Automatic upen / close a confirmation cosing front door OFF + warm-up system er hent system nloader × L150 mm × 6 kg Ø76 mm)			S 0 0 S S S 0 0 0 0 0 0 0 0 0 0	-
Linear Scale X, Y, Z axes screw pitch RMP60 wireless bluete AUTOMATIC OPERATI Tool Presetter Automatic chuck jaw or Chuck jaw open / close Automatic opening / cl Automatic opening / cl Automatic power ON / Machining finish buzze RFID tooling managen Bar feeder Gantry-type loader / u Part catcher Ø90 mm (Hole through spindle Part catcher Ø90 mm	X2 , Z2 axes a correction both transmission measuring head ON SUPPORT Tooling spindle / Automatic Lower turret / Automatic upen / close a confirmation losing front door OFF + warm-up system er hent system nloader × L150 mm × 6 kg Ø76 mm] × L150 mm × 6 kg			S 0 0 S S S 0 0 0 0 0 0 0 0 0 0	-
Linear Scale X, Y, Z axes screw pitch RMP60 wireless bluete AUTOMATIC OPERATI Tool Presetter Automatic chuck jaw oc Chuck jaw open / close Automatic opening / cl Automatic opening / cl Automatic power ON / Machining finish buzze RFID tooling managen Bar feeder Gantry-type loader / u Part catcher Ø90 mm (Hole through spindle Part catcher Ø90 mm	X2 , Z2 axes a correction both transmission measuring head ON SUPPORT Tooling spindle / Automatic Lower turret / Automatic upen / close e confirmation losing front door OFF + warm-up system er hent system nloader × L150 mm × 6 kg Ø76 mm] × L150 mm × 6 kg Ø91 mm]			S 0 0 0 5 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0	
Linear Scale X, Y, Z axes screw pitch RMP60 wireless bluete AUTOMATIC OPERATI Tool Presetter Automatic chuck jaw oc Chuck jaw open / close Automatic opening / cl Automatic opening / cl Automatic power ON / Machining finish buzze RFID tooling managen Bar feeder Gantry-type loader / u Part catcher Ø90 mm (Hole through spindle Part catcher Ø102 mm	X2 , Z2 axes a correction both transmission measuring head ON SUPPORT Tooling spindle / Automatic Lower turret / Automatic upen / close a confirmation losing front door OFF + warm-up system er nent system nloader × L150 mm × 6 kg Ø76 mm) × L150 mm × 6 kg			S 0 0 S S S 0 0 0 0 0 0 0 0 0 0 0 0	
Linear Scale X, Y, Z axes screw pitch RMP60 wireless bluete AUTOMATIC OPERATI Tool Presetter Automatic chuck jaw oc Chuck jaw open / close Automatic opening / cl Automatic opening / cl Automatic power ON / Machining finish buzze RFID tooling managen Bar feeder Gantry-type loader / u Part catcher Ø90 mm (Hole through spindle Part catcher Ø90 mm	X2 , Z2 axes a correction both transmission measuring head ON SUPPORT Tooling spindle / Automatic Lower turret / Automatic upen / close a confirmation losing front door OFF + warm-up system er nent system nloader × L150 mm × 6 kg Ø76 mm) × L150 mm × 6 kg			S 0 0 0 5 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0	

		GMT	GMT 2	GMT 200	5
COOLANT / CHIP DISPOSAL				13 \ Z	NS.
Base flushing			S	S	S
Coolant nozzle around spindle			S	S	S
	0.5 Mpa		S	S	S
	1.5 Mpa		0	0	0
Coolant through spindle	3.5 Mpa		0	0	0
	7 Mpa		0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0
Lower turret coolant oil large fl	ow		_	_	S
Spindle 1 side coolant			0	0	0
Coolant temperature control			0	0	0
Oil skimmer			0	0	0
Oil mist collector			0	0	0
Spindle 1 side coolant + air blow			0	0	0
Air blast through spindle			0	0	0
Spindle 1 jaws air blow			0	0	0
Spindle 2 jaws air blow			0	S	S
Tailstock quill air blow			0	_	-
Chip conveyor (Hinge)			0	0	0
Chip conveyor (Magnet scraper	•]		0	0	0
Chip conveyor (Scraper)			0	0	0
Chip cart			0	0	0
SAFETY					
Hydraulic pressure lock (press	ure promise)		S	S	S
Auto door lock			S	S	S
Electrical leakage short circuit	(200 mA)		S	S	S
Load monitor			0	0	0
OTHER					
Tri-color operation status light	tower		S	S	S
Florescent work light			S	S	S
Double type foot pedal			0	0	0
Operation & maintenance manu	uals (CD)		S	S	S

TENTED STUDIE Specifications are subject to change without notice.

Machine Dimensions





Unit : mm

MACHINE SPECIFICATIONS

	GMT-2000 GMT-2000S	GMT-2000ST	
CAPACITY			
Max. swing diameter	Ø 660 mm 25.98"		
Max. turning diameter (Milling spindle)	Ø 660 mm 25.98"		
Max. turning diameter (Lower turret)	_	Ø 420 mm 16.53"	
Max. turning length	1,020 / 1,520 (L ¹) / 2,520 (L ²) mm 40.15" / 59.84" / 99.21"	1,520 (L ¹) / 2,520 (L ²) mm 59.84" / 99.21"	
Bar capacity	A : Ø 65 / B : Ø 80 / C : Ø 102 mm 2.55" / 3.	15" / 4.01"	
Distance between spindle nose		n 1,850 (L ¹) / 2,850 (L ²) mm 72.83" / 112.2"	
Spindle center height	1,235 mm 48.62"		
TRAVEL			
Max. X1-axis travel (Milling spindle)	615 mm 24.21"		
Max. Z1-axis travel (Milling spindle)	1,090 / 1,590 (L ¹) / 2,590 (L ²) mm 42.91" / 62.59" / 101.96"	1,590 (L ¹) / 2,590 (L ²) mm 62.59" / 101.96"	
Max. Y1-axis travel (Milling spindle)	±150 mm ±5.9"		
Max. X2-axis travel (Lower turret)	_	240 mm 9.44"	
Max. Z2-axis travel (Lower turret)	_	1,400 (L ¹) / 2,400 (L ²) mm 55.11" / 94.48"	
Max. B-axis travel (Milling spindle)	240° (+ 210° ~ - 30°)		
Max. Zs travel (Spindle 2)) mm 41.73" / 61.41" / 100.78"	
	41.73 7 61.41 7 100.78 ED USETE		
SPINDLE 1			
Chuck size	A : 8" / B: 10" / C : 12"		
	A : 8" / B: 10" / C : 12" A : 4,500 / B : 3,800 / C : 3,200 rpm		
Chuck size			
Chuck size Max. spindle speed	A : 4,500 / B : 3,800 / C : 3,200 rpm		
Chuck size Max. spindle speed Spindle nose	A : 4,500 / B : 3,800 / C : 3,200 rpm A : A2-6 / B : A2-8 / C : A2-8	58" / 4.44"	
Chuck size Max. spindle speed Spindle nose Hole through spindle	A : 4,500 / B : 3,800 / C : 3,200 rpm A : A2-6 / B : A2-8 / C : A2-8 A : Ø 76 / B : Ø 91 / C : Ø 113 mm 2.99" / 3.	58" / 4.44" .51" / 6.29"	
Chuck sizeMax. spindle speedSpindle noseHole through spindleSpindle bearing diameter	A : 4,500 / B : 3,800 / C : 3,200 rpm A : A2-6 / B : A2-8 / C : A2-8 A : Ø 76 / B : Ø 91 / C : Ø 113 mm 2.99" / 3. A : Ø 120 / B : Ø 140 / C : Ø 160 mm 4.72" / 5	58" / 4.44" .51" / 6.29"	
Chuck sizeMax. spindle speedSpindle noseHole through spindleSpindle bearing diameterSpindle torque S6-40%	A : 4,500 / B : 3,800 / C : 3,200 rpm A : A2-6 / B : A2-8 / C : A2-8 A : Ø 76 / B : Ø 91 / C : Ø 113 mm 2.99" / 3. A : Ø 120 / B : Ø 140 / C : Ø 160 mm 4.72" / 5 A : 610 / B : 795 / C : 1,190 Nm 449 / 586 /	58" / 4.44" .51" / 6.29"	
Chuck sizeMax. spindle speedSpindle noseHole through spindleSpindle bearing diameterSpindle torque S6-40%Min. indexing increment	A : 4,500 / B : 3,800 / C : 3,200 rpm A : A2-6 / B : A2-8 / C : A2-8 A : Ø 76 / B : Ø 91 / C : Ø 113 mm 2.99" / 3. A : Ø 120 / B : Ø 140 / C : Ø 160 mm 4.72" / 5 A : 610 / B : 795 / C : 1,190 Nm 449 / 586 / 0.0001°	58" / 4.44" .51" / 6.29"	
Chuck sizeMax. spindle speedSpindle noseHole through spindleSpindle bearing diameterSpindle torque S6-40%Min. indexing incrementSPINDLE 2	A : 4,500 / B : 3,800 / C : 3,200 rpm A : A2-6 / B : A2-8 / C : A2-8 A : Ø 76 / B : Ø 91 / C : Ø 113 mm 2.99" / 3. A : Ø 120 / B : Ø 140 / C : Ø 160 mm 4.72" / 5 A : 610 / B : 795 / C : 1,190 Nm 449 / 586 / 0.0001° — A : 8" / B:	58" / 4.44" .51" / 6.29" 877 lb-ft	
Chuck sizeMax. spindle speedSpindle noseHole through spindleSpindle bearing diameterSpindle torque S6-40%Min. indexing incrementSPINDLE 2Chuck size	A : 4,500 / B : 3,800 / C : 3,200 rpm A : A2-6 / B : A2-8 / C : A2-8 A : Ø 76 / B : Ø 91 / C : Ø 113 mm 2.99" / 3. A : Ø 120 / B : Ø 140 / C : Ø 160 mm 4.72" / 5 A : 610 / B : 795 / C : 1,190 Nm 449 / 586 / 0.0001° A : 8" / B: A : 4,500 / B : 3,8	58" / 4.44" .51" / 6.29" 877 lb-ft 10" / C : 10"	
Chuck sizeMax. spindle speedSpindle noseHole through spindleSpindle bearing diameterSpindle torque S6-40%Min. indexing incrementSPINDLE 2Chuck sizeMax. spindle speed	A : 4,500 / B : 3,800 / C : 3,200 rpm A : A2-6 / B : A2-8 / C : A2-8 A : Ø 76 / B : Ø 91 / C : Ø 113 mm 2.99" / 3. A : Ø 120 / B : Ø 140 / C : Ø 160 mm 4.72" / 5 A : 610 / B : 795 / C : 1,190 Nm 449 / 586 / 0.0001° — A : 8" / B: — A : 4,500 / B : 3,8 — A : 4,500 / B : 3,8	58" / 4.44" .51" / 6.29" 877 lb-ft 10" / C : 10" 00 / C : 3,800 rpm	
Chuck sizeMax. spindle speedSpindle noseHole through spindleSpindle bearing diameterSpindle torque S6-40%Min. indexing incrementSPINDLE 2Chuck sizeMax. spindle speedSpindle nose	A : 4,500 / B : 3,800 / C : 3,200 rpm A : A2-6 / B : A2-8 / C : A2-8 A : Ø 76 / B : Ø 91 / C : Ø 113 mm 2.99" / 3. A : Ø 120 / B : Ø 140 / C : Ø 160 mm 4.72" / 5 A : 610 / B : 795 / C : 1,190 Nm 449 / 586 / 0.0001° A : 8" / B: A : 4,500 / B : 3,8 A : 4,500 / B : 3,8 A : A2-6 / B : A : Ø 76 / B : Ø 91 / C : Ø 9	58" / 4.44" .51" / 6.29" 877 lb-ft 10" / C : 10" 00 / C : 3,800 rpm A2-8 / C : A2-8	
Chuck sizeMax. spindle speedSpindle noseHole through spindleSpindle bearing diameterSpindle torque S6-40%Min. indexing incrementSPINDLE 2Chuck sizeMax. spindle speedSpindle noseHole through spindle	A : 4,500 / B : 3,800 / C : 3,200 rpm A : A2-6 / B : A2-8 / C : A2-8 A : Ø 76 / B : Ø 91 / C : Ø 113 mm 2.99" / 3. A : Ø 120 / B : Ø 140 / C : Ø 160 mm 4.72" / 5 A : 610 / B : 795 / C : 1,190 Nm 449 / 586 / 0.0001° A : 610 / B : 795 / C : 1,190 Nm 449 / 586 / 0.0001° A : 610 / B : 795 / C : 1,190 Nm 449 / 586 / 0.0001° A : 610 / B : 795 / C : 1,190 Nm 449 / 586 / 0.0001° A : 8" / B: A : 4,500 / B : 3,8 A : 4,500 / B : 3,8 A : 4,500 / B : 3,8 A : 676 / B : Ø 91 / C : Ø 9 A : Ø 120 / B : Ø 140 / C : Ø	58" / 4.44" .51" / 6.29" 877 lb-ft 10" / C : 10" 00 / C : 3,800 rpm A2-8 / C : A2-8 1 mm 2.99" / 3.58" / 3.58"	
Chuck sizeMax. spindle speedSpindle noseHole through spindleSpindle bearing diameterSpindle torque S6-40%Min. indexing incrementSPINDLE 2Chuck sizeMax. spindle speedSpindle noseHole through spindleSpindle bearing diameter	A : 4,500 / B : 3,800 / C : 3,200 rpm A : A2-6 / B : A2-8 / C : A2-8 A : Ø 76 / B : Ø 91 / C : Ø 113 mm 2.99" / 3. A : Ø 120 / B : Ø 140 / C : Ø 160 mm 4.72" / 5 A : 610 / B : 795 / C : 1,190 Nm 449 / 586 / 0.0001° A : 610 / B : 795 / C : 1,190 Nm 449 / 586 / 0.0001° A : 610 / B : 795 / C : 3,80 A : 4,500 / B : 3,8 A : 4,500 / B : 3,8 A : A2-6 / B : A : A2-6 / B : A : Ø 76 / B : Ø 91 / C : Ø 9 A : Ø 120 / B : Ø 140 / C : Ø A : 610 / B : 795 / C : 795	58" / 4.44" .51" / 6.29" 877 lb-ft 10" / C : 10" 00 / C : 3,800 rpm A2-8 / C : A2-8 1 mm 2.99" / 3.58" / 3.58" 140 mm 4.72" / 5.51" / 5.51"	
Chuck sizeMax. spindle speedSpindle noseHole through spindleSpindle bearing diameterSpindle torque S6-40%Min. indexing incrementSPINDLE 2Chuck sizeMax. spindle speedSpindle noseHole through spindleSpindle bearing diameterSpindle noseHole through spindleSpindle bearing diameterSpindle bearing diameterSpindle bearing diameter	A : 4,500 / B : 3,800 / C : 3,200 rpm A : A2-6 / B : A2-8 / C : A2-8 A : Ø 76 / B : Ø 91 / C : Ø 113 mm 2.99" / 3. A : Ø 120 / B : Ø 140 / C : Ø 160 mm 4.72" / 5 A : 610 / B : 795 / C : 1,190 Nm 449 / 586 / 0.0001° A : 610 / B : 795 / C : 1,190 Nm 449 / 586 / 0.0001° A : 610 / B : 795 / C : 3,80 A : 4,500 / B : 3,8 A : 4,500 / B : 3,8 A : A2-6 / B : A : A2-6 / B : A : Ø 76 / B : Ø 91 / C : Ø 9 A : Ø 120 / B : Ø 140 / C : Ø A : 610 / B : 795 / C : 795	58" / 4.44" .51" / 6.29" 877 lb-ft 10" / C : 10" 00 / C : 3,800 rpm A2-8 / C : A2-8 1 mm 2.99" / 3.58" / 3.58" 140 mm 4.72" / 5.51" / 5.51" Nm 449 / 586 / 586 lb-ft	
Chuck sizeMax. spindle speedSpindle noseHole through spindleSpindle bearing diameterSpindle torque S6-40%Min. indexing incrementSPINDLE 2Chuck sizeMax. spindle speedSpindle noseHole through spindleSpindle bearing diameterSpindle noseHole through spindleSpindle bearing diameterSpindle bearing diameterSpindle torque S6-40%Min. indexing increment	A : 4,500 / B : 3,800 / C : 3,200 rpm A : A2-6 / B : A2-8 / C : A2-8 A : Ø 76 / B : Ø 91 / C : Ø 113 mm 2.99" / 3. A : Ø 120 / B : Ø 140 / C : Ø 160 mm 4.72" / 5 A : 610 / B : 795 / C : 1,190 Nm 449 / 586 / 0.0001° A : 610 / B : 795 / C : 1,190 Nm 449 / 586 / 0.0001° A : 610 / B : 795 / C : 3,80 A : 4,500 / B : 3,8 A : 4,500 / B : 3,8 A : A2-6 / B : A : A2-6 / B : A : Ø 76 / B : Ø 91 / C : Ø 9 A : Ø 120 / B : Ø 140 / C : Ø A : 610 / B : 795 / C : 795	58" / 4.44" .51" / 6.29" 877 lb-ft 10" / C : 10" 00 / C : 3,800 rpm A2-8 / C : A2-8 1 mm 2.99" / 3.58" / 3.58" 140 mm 4.72" / 5.51" / 5.51" Nm 449 / 586 / 586 lb-ft	
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📕 : Metric 📕 : Inch

	GMT-2000	GMT-2000S	GMT-2000ST	
LOWER TURRET				
Stations		_	9	
Live tooling drive motor		_	AC Servo motor	
0.D. tool shank size			□ 25 mm 1"	
.D. tool shank size	_		Ø 40 mm 1-1/2"	
ndex speed (Adjacent)		_	0.2 sec.	
TAILSTOCK				
Quill center taper	MT#5 Live center	-	_	
ATC MAGAZINE		1		
Aagazine capacity	40 / 80 / 120 T			
lax. tool diameter	Ø 90 mm (adj. pocket empty : Ø 130 mm) 3.54" (5.11")			
Aax. tool length		450 mm 17.71"		
Max. tool weight		12 kg 26 lb		
FEED RATE				
(1-axis		50 m/min. 1,968 IPM		
Z1-axis		50 m/min. 1,968 IPM		
'1-axis		40 m/min. 1,574 IPM		
(2-axis		_	30 m/min. 1,181 IPM	
Z2-axis			40 m/min. 1,574 IPM	
3-axis		60 rpm		
C-axis	100 rpm 8 m/min. 314 IPM 40 m/min. 1,574 IPM			
Z₅-axis				
SPINDLE MOTOR	magginer in	TANIL ALLANS ST. ILSAT		
Spindle 1 (SIEMENS)	A : 25 / B: 30 / C : 30 kW 33 / 40 / 40 HP		HP	
Spindle 2 (SIEMENS)	— A : 25 / B: 30 / C : 30 kW 33 / 40 / 40 HP			
Milling spindle S6-40%	20.8 kW 27 HP			
GENERAL				
NC controller	SIEMENS 840D sl / FANUC 31 <i>i</i> - B5 (5-axis) / 31 <i>i</i> - B (4+1 axis)			
/oltage / Power requirement	AC 380 / 400 ±10% 3 phase / 133 KVA / 106 kW			
lydraulic tank capacity	40 L 10.5 gal			
_ubricating oil tank capacity	0.7 L 0.18 gal			
Coolant tank capacity	385 L 100 gal	520 L 140 gal	790 L 210 gal	
lachine height		2,720 mm 108"		
Dimensions (L × W)	4,580 × 2,850 / 5,080 × 2,850 (1	4,580 × 2,850 / 5,080 × 2,850 (L ¹) / 6,080 × 2,850 (L ²) mm 180" × 112" / 200" × 112" / 239" × 112"		
Machine weight	14,500 kg 32,000 lb	16,600 kg 36,600 lb	20,800 kg 45,900 lb	

Specifications are subject to change without notice.

GMT-4000 SERIES Series Series Metric Series

- Max. swing diameter : Ø 820 mm 32.28"
- Max. turning diameter : Ø 820 mm 32.28"
- Max. turning length : 3,100 mm 122.04"
- Chuck size : 15" (24" opt.)







MACCHINE UTENSILI NUOVE ED USATE



HEADQUARTERS

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