TAKISAWA TWIN CHUCKER
TT-Series
Parallel Twin-Spindle CNC Lathe

12in/10in

TT-350G



TT-350G **TT-350**CMG



TT-350G

Heavy-Duty Cutting Improves the Productivity



Takisawa twin-chucker **TT-350G** is a parallel 2-spindle CNC lathe for high-accuracy mass production machine for various 12"/10" chuck workpieces, which has the best machine rigidity in this class.



Reduction of power consumption.

Regenerative energy system – the energy generated when the motor decelerates returns to the power supply – is applied.

Internal lighting shutoff function reduces standby power.

Control panel cooling design takes natural radiation amount into account to reduce electric power.

Coolant pump runs only when coolant is being used, reducing electric power.

· Use of oil-water separator extends the coolant life.



Environment

Spindle Stock

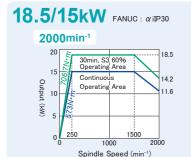
In order to cope with heavy cutting and thermal displacement, low center of gravity structure is applied. Spindle core is placed at a low position from the floor and mounting base.

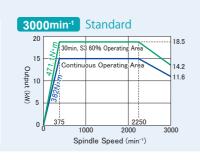
12"/10" Chuck Type

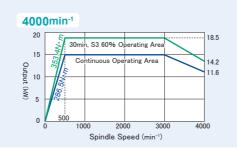
• Bearing Inside Diameter : ϕ 120 • Spindle Nose (Nominal Code) : JIS A2-8

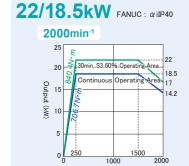
Spindle Motor

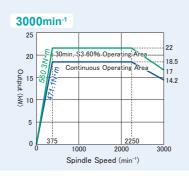
High-performance spindle motor is employed for powerful cutting for 12"/10"chuck workpieces.

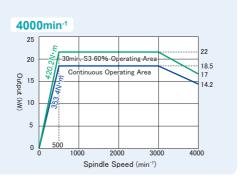








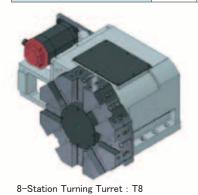




Turret

The stable structure of the turret whose center of gravity is fixed in the X-axis slideway ensures high-accuracy heavy cutting. The decagonal turning (T8/T10/T12: Direct-Mount Type) and milling (T12M: All-Holder Type) turrets ensure optimal machining. Bolt-clamping type tool holder ensures powerful tool holding.

Items		Height of Square Tool Shank	Diameter of Boring Bar Shank
8-Station Turning Turret	T8	□32	φ 50
10-Station Turning Turret	T10	□ 25	φ 50
12-Station Turning Turret	T12	□ 25	φ 40
12-Station Milling Turret	T12M	□ 25	φ 40





3.7/1.1kW FANUC: α iI1.5 3600min⁻¹ 4 0 10min, S3 25% Operating Area 1.1 0 10min, S3 25% Operating Area

Accessibility

Incomparably Close Accessibility

Movable chip chute slides up to 530mm from the chuck face.

Ideal for providing a setup space of the operator.





Central Partition Cover

The removable chip cover can turn left/right when working around the chuck or turret.





Swing Type Operation Panel

Easy for set-up work and the maintenance.





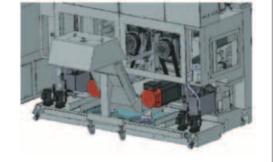
Large Chip Conveyor

It discharges large volume of chips generated from the both spindles towerd the rear.



Coolant System

- Pomp Output : 400W
- Tank Capacity: 380L



Operating Software

Shortened non-production time, setup time, etc.

The operability-convenient software slashes non-production time in setup.



- RAKU-RAKU Loader 3 (Standard) Convenient function capable of easy teaching. Capable of quick operation only by a change of inputting point positions.
- RAKU-RAKU Monitor 3 (Standard) Capable of tool management, load control, offset control, and collection of operation information.

Measurement Monitor 3 (Optional)

This is a function that takes measurement data from a measuring device and calculates a wear offset amount for automatically setting a wear offset value. The measurement data of 120 logs stored as log data are displayed as a log or graph based on the data so that the process performance exponent is calculated.

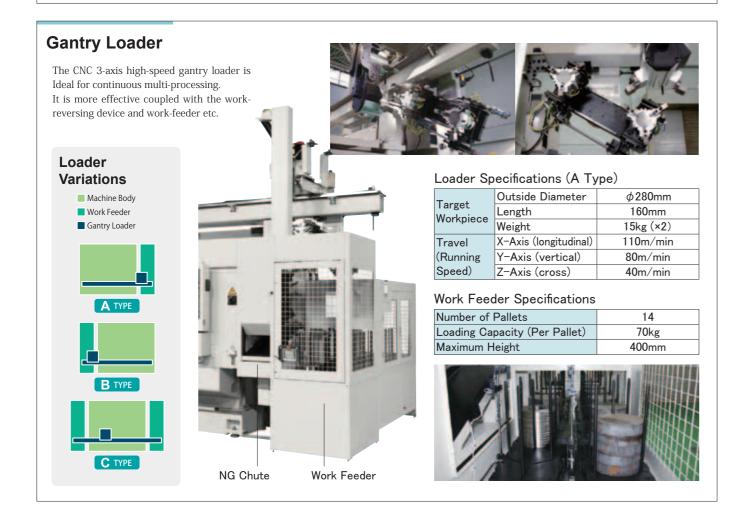
Exclusive Switch (Standard)

A dedicated switch that can call up a useful function on the operation panel by one push, which can perform a smooth operation.

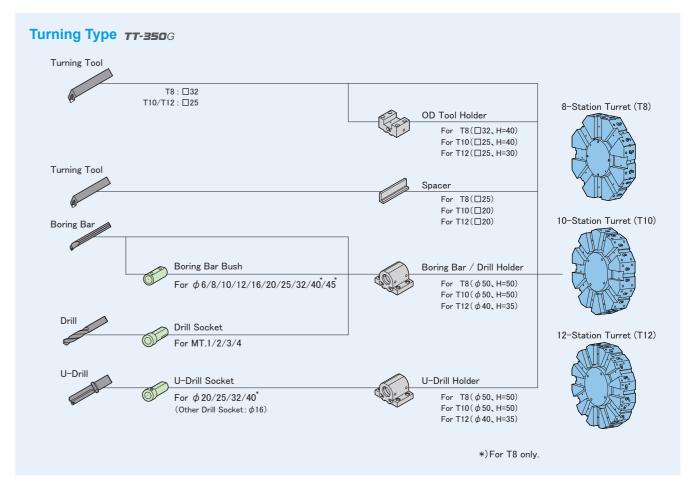


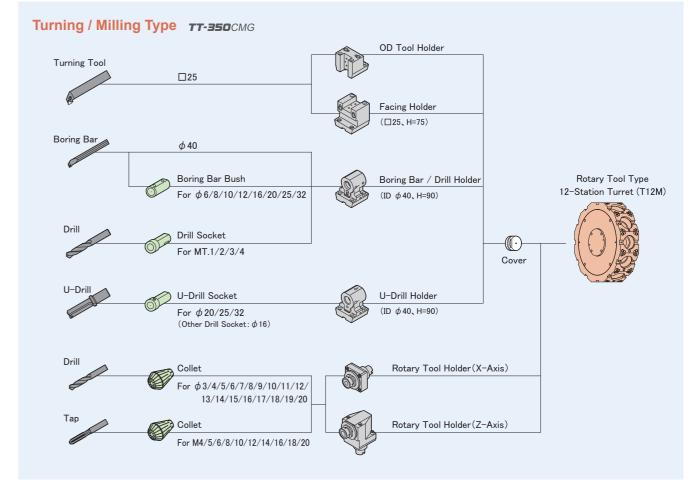
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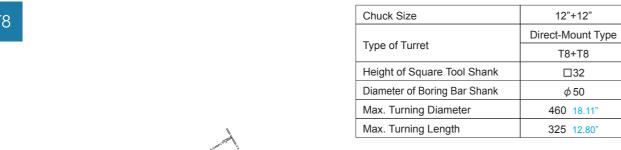
■ Tooling System

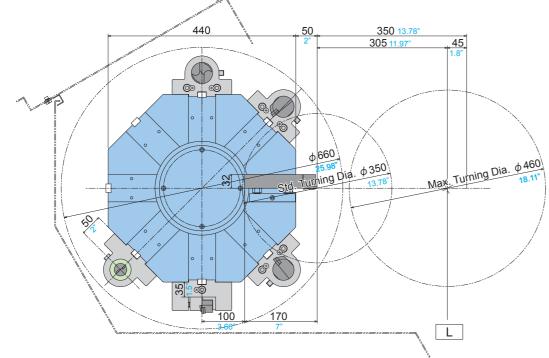


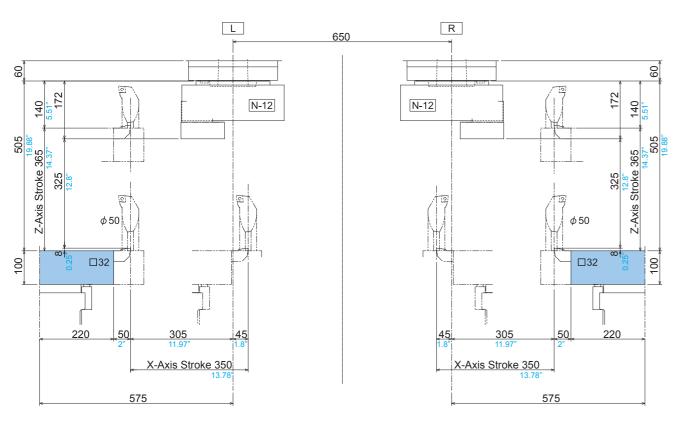


■ Travel Range and Interference Unit: mm inch

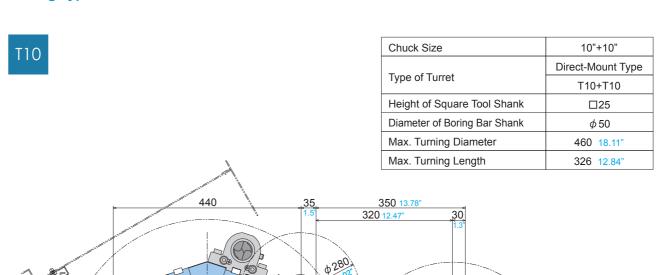
Turning Type TT-350G

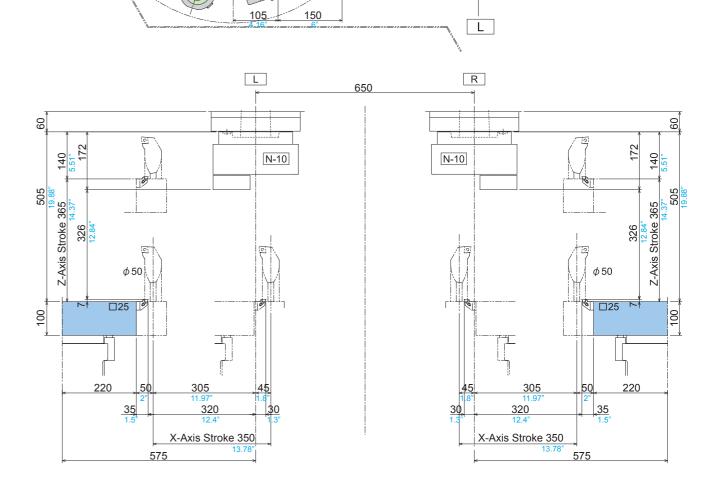






Turning Type TT-350G



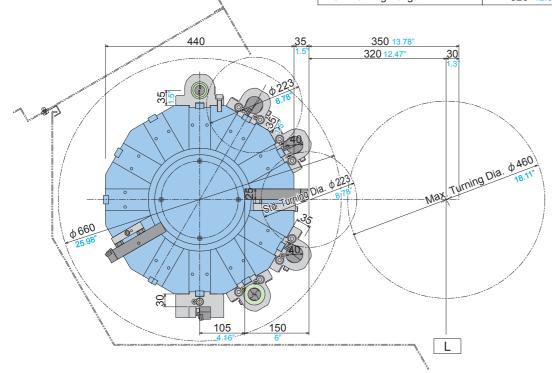


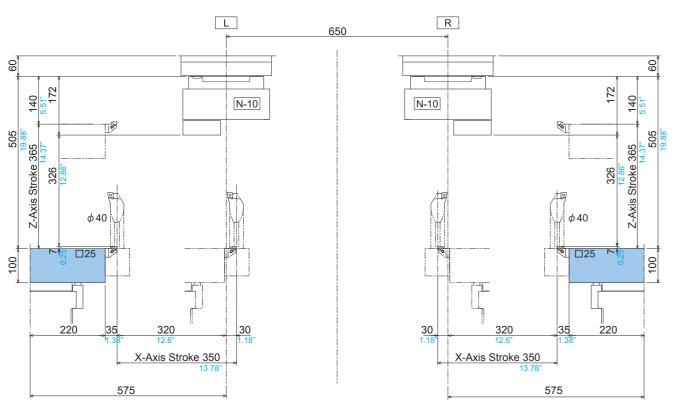
■ Travel Range and Interference Unit: mm inch

Turning Type TT-350G



Chuck Size	10"+10"
	Direct-Mount Type
Type of Turret	T12+T12
Height of Square Tool Shank	□25
Diameter of Boring Bar Shank	φ40
Max. Turning Diameter	460 18.11"
Max. Turning Length	326 12.80"

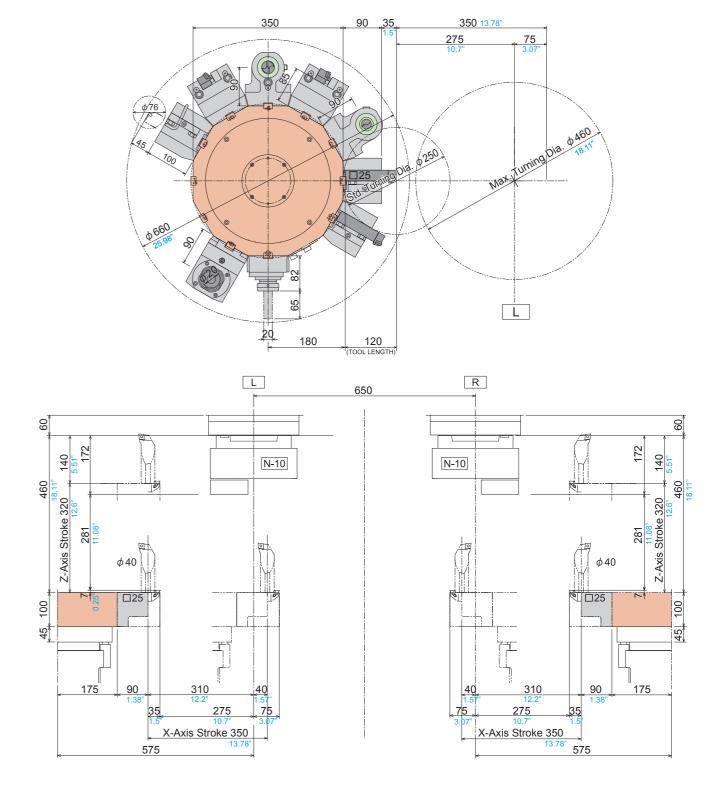




Turning / Milling Type TT-350CMG



Chuck Size	10"+10"
	Direct-Mount Type
Type of Turret	T12CM+T12CM
Height of Square Tool Shank	□25
Diameter of Boring Bar Shank	φ40
Max. Turning Diameter	460 18.11"
Max. Turning Length	281 11.06"



■ Machine Specifications

Itama				TT-350		TT-350CM	
Items			T8	T10	T12	T12M	
Capability •	Distance Between Spindles	mm inch	650 25.59"				
	Max. Turning Diameter	mm inch					
Capacity	Max. Turning Length	mm inch	325 12.80" 326 12.84" 281 11.08°				
Travel X-Axis Travel mm inch				350	13.78″		
Travel	Z-Axis Travel	mm inch		365 14.37"		320 12.60"	
	Number of Spindles 2			2			
	Spindle Speed	min ⁻¹	40 ~ 3000 27 ~ 2000 53 ~ 4000				
Spindle	Spindle Nose (Nom, Code)		JISA2-8				
	Through-Hole Diameter	mm inch		86	3.39"		
	Bearing Inside Diameter	mm inch		120	4.72"		
	Number of Turrets				2		
T	Number of Attachable Tools		8+8	10+10	12+12	12+12	
Turret	Height of Square Tool Shank	mm inch	32 1.25"		25 1"		
	Diameter of Boring Bar Shank	mm inch	50	2"	40	1.5"	
	Number of Rotary Tools			-		12+12	
	Spindle Speed	min ⁻¹	-			36 ~ 3600	
Rotary Tool	Maximum Tool Shank Diameter	mm inch	- 20 0.79 ["]			20 0.79"	
	Tool Spindle Taper Hole (Type, Nom, Coo	de)	- AR32			AR32	
	Tool Spindle Bearing Inside Diameter	mm inch	- 35 1.38"				
Feed	Rapid Traverse Rate	m/min ipm	X:24, Z:24 X:944.88", Z:944.88"				
	Spindle Motor (30 min/continuous)	kW HP		18.5/15 22/18.5	22/18.5 29.3/24.7		
	Rotary Tool Spindle Motor (15 min/	LAW LID				07/11 40/15	
Motors	continuous)	kW HP		_		3.7/1.1 4.9/1.5	
	Feed Axis Motor	kW HP		X:1.8, Z:2.5	X:2.4, Z:3.3		
	Hydraulic Pump Motor	kW HP		1.5	2		
	Coolant Pump Motor	kW HP		0.4	0.5		
Required	Electric Power	kVA		63.8	73.2(22kW)		
Power	Air Pressure Source	Мра		0).4		
T .	Hydraulic Unit Tank	L gal					
Tank	Lubricant Tank	L gal	6.5 1.72				
Capacity	Coolant Tank	L gal	380 100.32				
	Machine Height (Loader Top)	mm inch		4493	176.89"	-	
Machine	Floor to Spindle Center Height	mm inch					
Size	Required Floor Space	mm inch		4395 × 3753	173.03" × 147.76"	-	
	Machine Weight	kg lbs	13500 29700	13500 29700	13500 29700	13700 30140	

※ Red is Optional.

(Loader Sp	ecifications (A or B Type)]		Π-350G	TT-350CMG
Target	Outside Diameter	mm inch	280	11.02"
Workpiece	Length	mm inch	160	3.60"
	Weight	kg lbs.	15 (×2)	33 (×2)
Travel (Running	X-Axis (longitudinal)	mm inch (m/min ipm)	2790 109.84"	(110 4330.71")
Speed)	Y-Axis (vertical)	mm inch (m/min ipm)	1290 50.79"	(80 3149.61")
	Z-Axis (cross)	mm inch (m/min ipm)	350 13.78"	(40 1574.80")
Hand	Туре		3-Jaws	
	Stroke	mm inch	φ 64	2.52"
Work Feed	der Specifications]	-		
Number of F	Pallets (3 Guide Bars/Pallet)		1	14
Loading Cap	acity (Per Pallet)	kg lbs.	70	154

mm inch

■ Machine Standard Accessories (with A or B Type Loader)

	Т8	T10	T12	T12M
12" Solid Chuck and Cylinder	L/R (Each 1)	-	-	-
10" Solid Chuck and Cylinder	-		L/R (Each 1)	
Chuck Auto Open/Close M-Function		L/R (E	ach 1)	
Chuck Airblow (Outside Spindle)		L/R (E	ach 1)	
Signal Tower Light (3-Color)		L/R (E	ach 1)	
Chip Conveyor (Caterpillar Type / Rear)	0	0	0	0
Tool Holders *1		L/R (E	ach 5)	
Auto Power-Off System	0	0	0	0
Total Counter		L/R (Each 1)		
Gantry Loader	0	0	0	0
Work Feeder	0	0	0	0
Work Turnover Unit	0	0	0	0
NG Chute	0	0	0	0
Splashguard	0	0	0	0
Hydraulic Unit (1.5kW × 2)	0	0	0	0
Footswitch for Hydraulic Unit	L/R (Each 1)			
Coolant Pump (400W × 2)	0	0	0	0
Lighting Apparatus	0	0	0	0
Adjustment Tool Set	0	0	0	0
Instruction Manual	0	0	0	0

■ Machine Optional Accessories

Rotary Tool Holder (for X-Axis) *2 Rotary Tool Holder (for Z-Axis) *2 Collet (for Rotary Tool) *2 OD Turning and Facing Tool Holder Boring Bar / Drill Holder U-Drill Holder Offset U-Drill Holder Boring Bar Bush Drill / U-Drill Socket Special Chuck Spindle Motor 18.5/15kW: 2000min⁻¹ 18.5/15kW: 4000min⁻¹ 22/18.5kW: 2000min⁻¹

22/18.5kW: 4000min⁻¹ Spindle Orientation *3

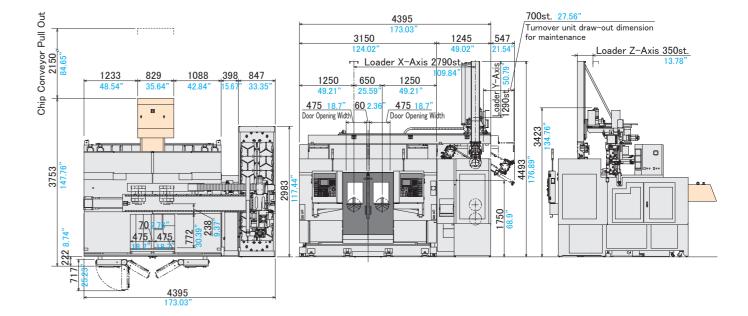
22/18.5kW: 3000min

Chip Bucket Tool Setter

- *1) Selectable for OD Turning & Facing, or Boring Bar/Drill
- *2) Applied to TT-350CMG
- *3) Disk brake type (Max. 360 Point) with M-Function

* For other optional accessories, please contact us.

■ Machine Dimensions Unit: mm inch



Maximum Height

400 15.75["]



Software

* The software specifications are subject to change for improvement without notice.

RAKU-RAKU Monitor 3

[Standard Accessory]

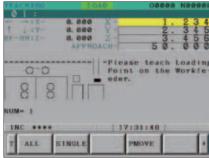
Easy and convenient multi-functional software that can perform the tool life management, cutting load monitoring, group control, and also run information collection, Cp (process capability) calculation, and periodic offset addition.



RAKU-RAKU Loader 3

[Standard Accessory]

The loader operation settings can be changed simply by the operation from the dedicated screen without modifying the program.



▲ RAKU-RAKU Loader 3

Measurement Monitor 3

[Optional Accessory]

This function loads the measured data from a measuring unit and sets automatically the offset value. Also, various convenient functions such as graphical display, Cp (process capability) calculation, and data input/output are included.

■ Composition

_				
Specifications • Contents	TT-350G	TT-350CMG		
[NC Unit]				
Loader A, B, C Type	0i-TD(2)+0i-TD			
Loader D Type	0i-TD(2)+0i-TD(2)			
Screen (8.4" Color LCD/MDI)	•	•		
[Software]				
RAKU-RAKU Monitor 3	•	•		
RAKU-RAKU Loader 3	•	•		
Measurement Monitor 3 *1	0	0		
[Safety Devices]				
Front Door Interlock	•	•		
Front Door Locking Mechanism	0	0		
Safety Relay	•	•		
Control Panel Breaker with Tripper	•	•		

Main Eupation List

Main Function List				
Specifications · Contents	0i-TD			
[Controlled Axes]				
Least Input Increment *2	•			
Maximum Programmable Dimension (±999999.999)	•			
Cs Contour Control	CM			
Least Input Increment C *3	A			
Inch/Metric Selection	•			
Interlock	•			
Machine Lock *4	0			
Emergency Stop	•			
Stored Stroke Check 1	•			
Stored Stroke Check 2, 3 *5	A			
Stroke Limit Check Before Movement	A			
Chuck Tailstock Barrie *6	A			
Mirror Image (Each Axis)	A			
Chamfering ON/OFF	•			
Overload Detection *7	A			
Position Switch	0			
[Operation]				
Auto Run (Memory)	•			
MDI Run	•			
DNC Run *8	0			

Position Switch	(O)
[Operation]	
Auto Run (Memory)	•
MDI Run	•
DNC Run *8	0
DNC Run with Memory Card *8 *9	0
Program Number Search	•
Sequence Number Search	•
Sequence Number Collation and Stop	•
Wrong Operation Preventive	A
Buffer Register	•
Dry Run	•
Single Block	•
Jog Feed	•
Manual Reference Point Return	•
Dogless Reference Point Setting	•
Manual Handle Feed, 1 Unit	•
[Interpolating Functions]	

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Dogless Reference Point Setting	•
Manual Handle Feed, 1 Unit	•
[Interpolating Functions]	
Positioning (G00)	•
Exact Stop Mode (G61)	•
Tapping Mode (G63)	•
Cutting Mode (G64)	•
Exact Stop (G09)	•
Linear Interpolation (G01)	•
Circular Interpolation (G02/03)	•
Dwell (G04)	•
Polar Coordinate Interpolation	CM
Cylindrical Interpolation	CM
Thread Cutting	•
Multiple Thread Cutting	•
Thread Cutting Cycle and Retraction	•
Continuous Thread Cutting	•
Variable Lead Thread Cutting	•
Reference Point Return (G28)	•
Reference Point Return Check (G27)	•
2nd Reference Point Return (G30)	•
3rd, 4th Reference Point Return	0
[Feed Functions]	

	0i-TD
Feed Per Revolution	•
Constant Tangential Speed Control	•
Cutting Feedrate Clamp	•
Automatic Acceleration/Deceleration	•
Rapid Traverse Bell-Shaped Accel/Decel	•
Linear Accel/Decel After Feedrate Interpolation	•
Feedrate Override (15 steps)	•
Jog Override (15 steps)	•
Override Cancel	•
Manual Feed Per Revolution	A
(Program Input)	
Tape Code (EIA/ISO Auto Recognition)	•
Label Skip	•
Parity Check	•
Control In/Out	•
Optional Block Skip, 1 Piece	•
Optional Block Skip (2 to 9 Pieces)	0
Program Number O4 Digits	•
Sequence Number N5 Digits	•
Absolute/Incremental Command	•
Decimal Point Input/	_
Pocket Calculator Type Decimal Point Input	•
Diameter/Radius Programming (X-Axis)	•
	•
Coordinate System Setting (G50)	_
Auto Coordinate System Setting	
Drawing Dimension Direct Input *10	<u> </u>
G-Code System A	•
G-Code System B/C	A
Chamfering/Corner R Programming *11	•
Programmable Data Input	•
Sub Program Call (10 Levels)	•
Custom Macro	•
Additional Custom Macro Common Variables	•
Single Canned Cycle	•
Combined Canned Cycle	•
Combined Canned Cycle II	•
Drilling Canned Cycle	•
Arc Radius Programming	•
Macro Executor *12	•
Coordinate System Shift	•
Coordinate System Shift Direct Input	
[Miscellaneous Functions/Spindle Functions]	
M Function (M3 Digits)	_
Second Miscellaneous Function (B Function)	•
Spindle Functions (S4 Digits)	•
Constant Surface Speed Control	•
Spindle Orientation (No Lock, 1 Point)	•
Rigid Tap (Spindle Center)	•
Rigid Tap (Rotary Tool)	CM
[Tool Functions/Tool Offset Functions]	
	•
T Function (T2+2 Digits)	
	•
Tool Offsets, 64 Pieces *13	0
Tool Offsets, 64 Pieces *13 Tool Offsets, 99 Pieces	_
Tool Offsets, 64 Pieces *13 Tool Offsets, 99 Pieces Tool Offsets, 128 Pieces *14	0
Tool Offsets, 64 Pieces *13 Tool Offsets, 99 Pieces Tool Offsets, 128 Pieces *14 Tool Offsets, 200 Pieces *14	0
Tool Offsets, 64 Pieces *13 Tool Offsets, 99 Pieces Tool Offsets, 128 Pieces *14 Tool Offsets, 200 Pieces *14 Tool Position Offset	0
Tool Offsets, 64 Pieces *13 Tool Offsets, 99 Pieces Tool Offsets, 128 Pieces *14 Tool Offsets, 200 Pieces *14 Tool Position Offset Tool Diameter/Nose R Compensation	0
Tool Offsets, 64 Pieces *13 Tool Offsets, 99 Pieces Tool Offsets, 128 Pieces *14 Tool Offsets, 200 Pieces *14 Tool Position Offset Tool Diameter/Nose R Compensation Tool Geometry/Wear Compensation	0
Tool Offsets, 64 Pieces *13 Tool Offsets, 99 Pieces Tool Offsets, 128 Pieces *14 Tool Offsets, 200 Pieces *14 Tool Position Offset Tool Diameter/Nose R Compensation Tool Geometry/Wear Compensation Tool Offset Counter Input	0
Tool Offsets, 64 Pieces *13 Tool Offsets, 99 Pieces Tool Offsets, 128 Pieces *14 Tool Offsets, 200 Pieces *14 Tool Position Offset Tool Diameter/Nose R Compensation Tool Geometry/Wear Compensation Tool Offset Counter Input Tool Offset Measured Value Direct Input	0
Tool Offsets, 64 Pieces *13 Tool Offsets, 99 Pieces Tool Offsets, 128 Pieces *14 Tool Offsets, 200 Pieces *14 Tool Position Offset Tool Diameter/Nose R Compensation Tool Geometry/Wear Compensation Tool Offset Counter Input Tool Offset Measured Value Direct Input B *15	0 0 0 0
Tool Offsets, 64 Pieces *13 Tool Offsets, 99 Pieces Tool Offsets, 128 Pieces *14 Tool Offsets, 200 Pieces *14 Tool Position Offset Tool Diameter/Nose R Compensation Tool Geometry/Wear Compensation Tool Offset Counter Input Tool Offset Measured Value Direct Input B *15 Tool Life Management *16	0
Tool Offsets, 64 Pieces *13 Tool Offsets, 99 Pieces Tool Offsets, 128 Pieces *14 Tool Offsets, 200 Pieces *14 Tool Position Offset Tool Diameter/Nose R Compensation Tool Geometry/Wear Compensation Tool Offset Counter Input Tool Offset Measured Value Direct Input Tool Offset Measured Value Direct Input B *15 Tool Life Management *16 [Accuracy Offset Functions]	
Tool Offsets, 64 Pieces *13 Tool Offsets, 99 Pieces Tool Offsets, 128 Pieces *14 Tool Offsets, 200 Pieces *14 Tool Position Offset Tool Diameter/Nose R Compensation Tool Geometry/Wear Compensation Tool Offset Counter Input Tool Offset Measured Value Direct Input Tool Offset Measured Value Direct Input B *15 Tool Life Management *16 [Accuracy Offset Functions] Backlash Compensation	0 0 0 0
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Tool Offsets, 64 Pieces *13 Tool Offsets, 99 Pieces Tool Offsets, 128 Pieces *14 Tool Offsets, 200 Pieces *14 Tool Offsets, 200 Pieces *14 Tool Position Offset Tool Diameter/Nose R Compensation Tool Geometry/Wear Compensation Tool Offset Counter Input Tool Offset Measured Value Direct Input Tool Offset Measured Value Direct Input B *15 Tool Life Management *16 [Accuracy Offset Functions] Backlash Compensation Backlash Compensation Backlash Compensation by Rapid Traverse / Feedrate [Editing] Part Program Memory Capacity 521Kbyte (1280m) *13 Part Program Memory Capacity 1Mbyte *14	0 0 0 0 0 0
Tool Offsets, 64 Pieces *13 Tool Offsets, 99 Pieces Tool Offsets, 128 Pieces *14 Tool Offsets, 200 Pieces *14 Tool Offsets, 200 Pieces *14 Tool Position Offset Tool Diameter/Nose R Compensation Tool Geometry/Wear Compensation Tool Offset Counter Input Tool Offset Measured Value Direct Input Tool Offset Measured Value Direct Input B *15 Tool Life Management *16 [Accuracy Offset Functions] Backlash Compensation Backlash Compensation Backlash Compensation by Rapid Traverse / Feedrate [Editing] Part Program Memory Capacity 521Kbyte (1280m) *13 Part Program Memory Capacity 1Mbyte *14 Registrable Programs, 400 Programs *13	0 0 0 0 0 0 0
Tool Offsets, 64 Pieces *13 Tool Offsets, 99 Pieces Tool Offsets, 128 Pieces *14 Tool Offsets, 200 Pieces *14 Tool Offsets, 200 Pieces *14 Tool Position Offset Tool Diameter/Nose R Compensation Tool Geometry/Wear Compensation Tool Offset Counter Input Tool Offset Measured Value Direct Input Tool Offset Measured Value Direct Input B *15 Tool Life Management *16 [Accuracy Offset Functions] Backlash Compensation Backlash Compensation Backlash Compensation by Rapid Traverse / Feedrate [Editing] Part Program Memory Capacity 521Kbyte (1280m) *13 Part Program Memory Capacity 1Mbyte *14 Registrable Programs, 400 Programs *13 Registrable Programs, 800 Programs *14	
Tool Offsets, 64 Pieces *13 Tool Offsets, 99 Pieces Tool Offsets, 128 Pieces *14 Tool Offsets, 200 Pieces *14 Tool Offsets, 200 Pieces *14 Tool Position Offset Tool Diameter/Nose R Compensation Tool Geometry/Wear Compensation Tool Offset Counter Input Tool Offset Measured Value Direct Input Tool Offset Measured Value Direct Input B *15 Tool Life Management *16 [Accuracy Offset Functions] Backlash Compensation Backlash Compensation Backlash Compensation by Rapid Traverse / Feedrate [Editing] Part Program Memory Capacity 521Kbyte (1280m) *13 Part Program Memory Capacity 1Mbyte *14 Registrable Programs, 400 Programs *13 Registrable Programs, 800 Programs *14 Program Editing	
Tool Position Offset Tool Diameter/Nose R Compensation Tool Geometry/Wear Compensation Tool Offset Counter Input Tool Offset Measured Value Direct Input	

Specifications • Contents	0i-TD
[Setting/Display]	
Status Display	•
Clock Function	•
Current Position Display	•
Program Comment Display (31 Characters)	•
Parameter Setting and Display	•
Alarm Display	•
Alarm Log Display	•
Operator Massage Log Display	•
Operation Log Display	A
Run Hours and Parts Count Display	•
Actual Speed Display	•
Actual Spindle Speed and T Code Display	•
Floppy Cassette Directory Display	•
Grouped Directory Display and Punching	•
Servo Adjustment Screen	•
Maintenance Information Screen	•
Data Protection Key, 1 Kind	•
Help Function	•
Self Diagnostic Function	•
Scheduled Maintenance Screen	•
Hardware & Software System Configuration Display	•
Graphic Display	•
Dynamic Graphic Display	0
[Display Languages]	
English	•
Other Language *17	A
Display Language Dynamic Switching	A
[Data I/O]	
RS-232C Interface for 1ch	•
Fast Data Server	0
External Message	•

- ●:Standard O:Optional ⊚:Special —:None
- ▲ : Parameter setting is required.

Memory Card I/O

External Workpiece Number Search

(Note: Normally, the parameters need not to be changed. If the parameters are to be set or changed, understand completely the functions of such parameters. Wrong setting could cause the machine to be moved unexpectedly, resulting in machine or workpiece damage or personal injury.)

0

CM: C-Axis/Milling Standard Specification.

- *1) I/O addition and the PC change are necessary.
- *2) 0.001mm, 0.0001inch, 0.001deg(for CM type) *3) IS-C 0.0001mm, 0.0001deg, 0.00001inch.
- *4) Addition of switch is required. *5) Not coexistent with chuck tailstock barrier.
- *6) Not coexistent with Stored Stroke Check 2. 3.
- *7) Required when RAKU-RAKU Monitor 3 is used.
- *8) DNC run mode transfer switch is required.
- *9) CF card and adaptor is required.
- *10) Not coexistent with chamfering/corner R.
- *11) Not coexistent with drawing dimension direct input.
- *12) Required when RAKU-RAKU Monitor 3/RAKU-RAKU Loader 3 is used.
- *13) Sub NC.
- *14) Main NC, Two system total number.
- *15) Tool setter is required.
- *16) Cannot be used when RAKU-RAKU Monitor 3 is installed.
- *17) Japanese (Kanji), German, French, Spanish, Italian, Chinese (traditional), Chinese (simplified), Korean, Portuguese, Dutch, Danish, Swedish, Hungarian, Czech, Polish, Russian, Turkish

Rapid Traverse Override (F0,25%,50%,100%)

Feed Per Minute



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Japanese laws prohibit this machine from being used to develop or manufacture "weapons of mass destruction" or "conventional arms", as well as from being

used to process parts for them.

Export of the product may require the permission of governmental authorities of the country from where the product is exported.

Should you wish to resell, transfer or export the product, please notify Takisawa Machine Tool Co., Ltd. or our distributor in advance.





ISO 9001 Certified JQA-2010 (Head Office)







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^{*}The appearance, specifications, and relevant software of the product are subject to change for improvement without notice.

*Please make an inquiry to our sales representatives for details of the product.