TAKISAWA TWIN CHUCKER

TT-Series

Parallel Twin-Spindle CNC Lathe

10in/8in

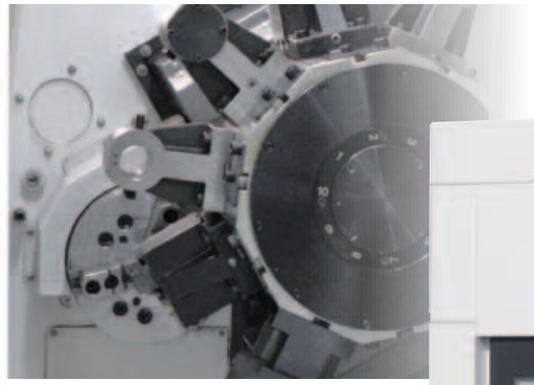
TT-2600

TT-2600G **TT-2600CMG**
T-2600G **T-2600CMG**

TAKISAWA®

TT-2600

High-Accuracy Mass Production Machine for Various Workpieces!



Takisawa twin-chucker **TT-2600** is a parallel 2-spindle CNC lathe
for high-accuracy mass production machine for
various 10″/8″chuck workpieces, which has the best machine rigidity in this class.

*Photo includes options.

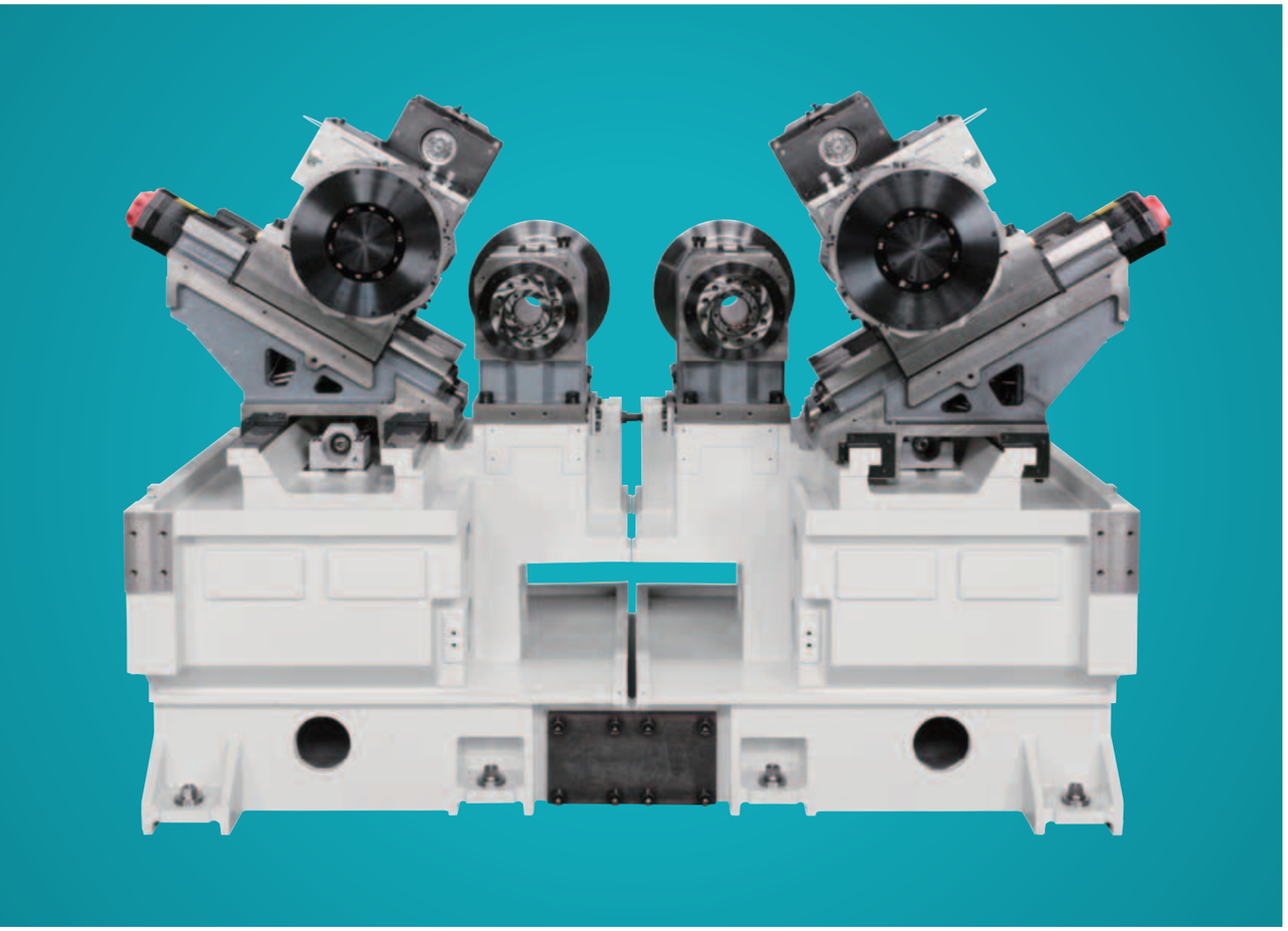
ENERGY SAVING SYSTEM

Environment Friendly

- 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.
- 40% reduction of lubricant consumption amount compared with those of conventional machines.
- The powder coating machine for environmental concern.

The contents of the catalog are subject to change for improvement without notice. Please make confirmation from our sales representatives when entering into the contract.

High-Rigidity & Reliability Twin Chuckers



	Standard Type	CM Type
Processing Classification	Turning	Turning & Milling
Turret	T10	T10M

	10" Chuck Type	**8"** Chuck Type
Chuck Size	10″+10″	8″+8″
Bearing Inside Diameter	ϕ110	ϕ100
Spindle Speed (Std.)	3200min^{-1}	4000min^{-1}

Securing Machine Rigidity

Different from conventional parallel 2-spindle machines, sufficient rigidity as same as standard 2-axis NC lathe is secured by holding down the amount of turret overhang. Hardened and ground square slideways excellent for high-durability are employed.

"High Accuracy" and "Heavy Cutting Capability"

Structure of the slideway disposed right under the turret realizes high-accuracy heavy-cutting capability.

"Powerful Turret"

The turret for turning and milling is arranged near the machining point of the slideway, capable of heavy cutting without a problem. Turning type and Turning/Milling type are available.

"Spindle"

Structure of spindle deals with heavy duty cutting and thermal deformation. 8" or 10"chuck is available.

"High-Speed Gantry Loader"

The standard high-speed 3-axis gantry loader ensures high-speed transportation of various heavy workpieces.

Shortening "Non-Operating Time"

The software aimed for convenience and operability slashes non-cutting time like a setup time.

Expansions and Automations

Capable of automation through the turn-key system, inserting pre/post operations such as phasing or measuring and building multi-machine connecting.

Spindle Stock

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

10" Chuck Type
- Bearing Inside Diameter : ϕ110
- Spindle Nose (Nominal Code) : JIS A2-6

8" Chuck Type
- Bearing Inside Diameter : ϕ100
- Spindle Nose (Nominal Code) : JIS A2-6

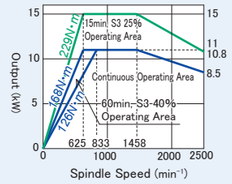
Spindle Motor

High-performance spindle motor is employed for powerful cutting for 10"/8"chuck workpieces.

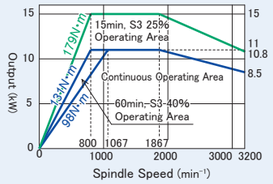
10" Chuck Type

15/11kW FANUC : β iI12

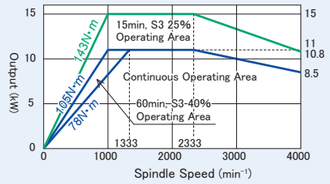
2500min-1



3200min-1 Standard

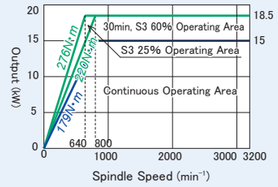


4000min-1

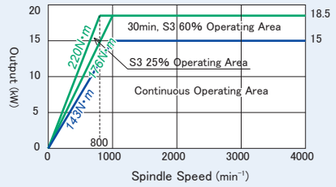


18.5/15kW FANUC : α iI15

3200min-1



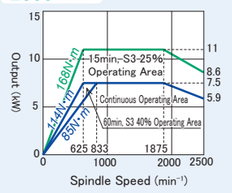
4000min-1



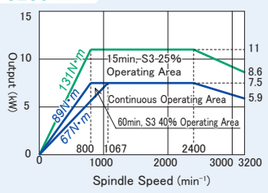
8" Chuck Type

11/7.5kW FANUC : β iI8

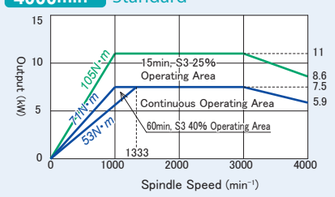
2500min-1



3200min-1

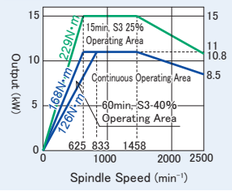


4000min-1 Standard

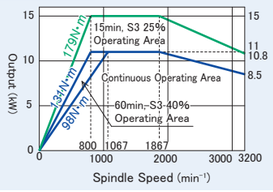


15/11kW FANUC : β iI12

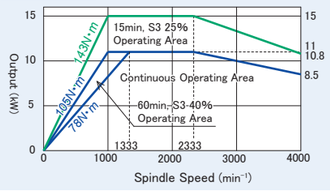
2500min-1



3200min-1



4000min-1



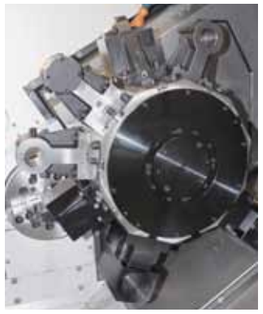
Turret

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 (T10) and milling (T10M) turrets ensure optimal machining.
Bolt-clamping type tool holder ensures powerful tool holding.

10-Station Turret : T10 (Standard)
- Turning Tool : □25mm
- Boring Bar : ϕ40mm

Rotary Tool Type 10-Station Turret : T10M (Optional, CM Type)

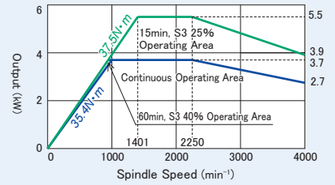
The 10-station milling turret equips a 4000-min^{-1} rotary tool spindle motor of 5.5-kW short-time rating output, optimal for mass production including a milling process.



Milling Type

5.5/3.7kW FANUC : β iI3

4000min-1

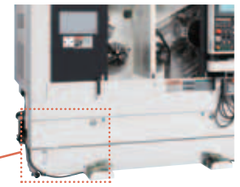


Central Partition Cover

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

Oil Pan

The standard rotary storage gutter ensures safe replenishment of cutting oil during automatic operation.



Status of the gutter stored and the maintenance door closed

Status of the maintenance door is open and the gutter has been taken out

Gantry Loader System

The machine's center of gravity is thoroughly lowered and the loader axis is improved to move faster and quieter to realize optimum cycle time.
By adopting a acrylic window for the work feeder, visibility is improved.

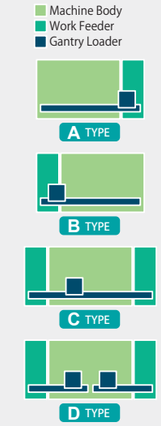
Loader Specifications (A Type)

Items		10" Chuck Type	8" Chuck Type
Target Workpiece	Outside Diameter	ϕ200mm	ϕ160mm
	Length	120mm	100mm
	Weight	8kg (×2)	4kg (×2)
Travel (Running Speed)	X-Axis (longitudinal)	110m/min	150m/min
	Y-Axis (vertical)	125m/min	170m/min

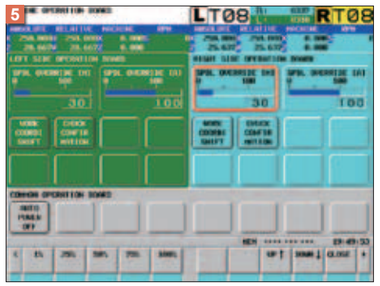
Work Feeder Specifications

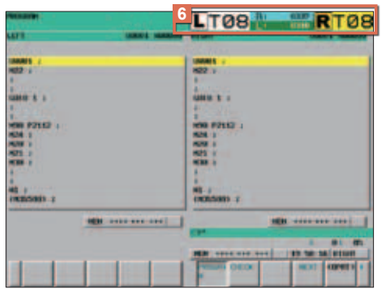
Items	10" Chuck Type	8" Chuck Type
Number of Pallets	14	16
Loading Capacity (Per Pallet)	70kg	40kg
Maximum Height	400mm	450mm

Loader Variations



Pursuing Operability





▲ Program Display

▲ Tool Offset Display

・Dedicated Switch

A dedicated switch to call a desired function to the operation panel with one push is provided for smooth work.

2 Program Reset Function

Left/right/loader programs can be reset and rewound.

3 Zero Point Return Function

It allows left/right X- and Z-axes zero point return and loader X-, Y-, and Z-axes zero point return.*

*) Subject to some conditions. For details, contact us.

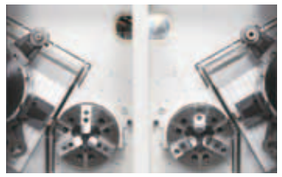
Function to minimize inputting error on right and left.

4 Right/Left Selection Button

Operate the machine after selecting right or left with the button. Operation is possible only on the side with the indication lamp turned on. When both of the lamps are turned off, the machine cannot be operated.

Operation on Right Side ▶

The information on the right side is displayed on the screen and you can operate the right side.



Link of Panel Light ▶

The light on the operation side is turned on.

5 Machine Operation Panel Screen

The machine operation panel is displayed on the screen.
Buttons can be added and displayed/undisplayed easily.

6 Information Display Window

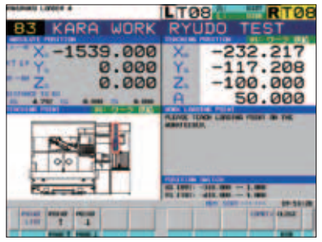
"Right/left selection, indexed turret number of right/left machine, and number of workpieces on right/left" can be checked on the upper right of the screen.

・Information on Right and Left is Displayed Simultaneously (Specific Screen)

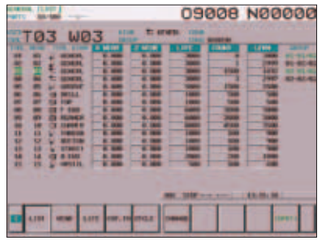
On the tool offset screen and the workpiece shift screens, inputting errors are avoided by the color coding of right/left, the zoom function and simultaneous display.

Software

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



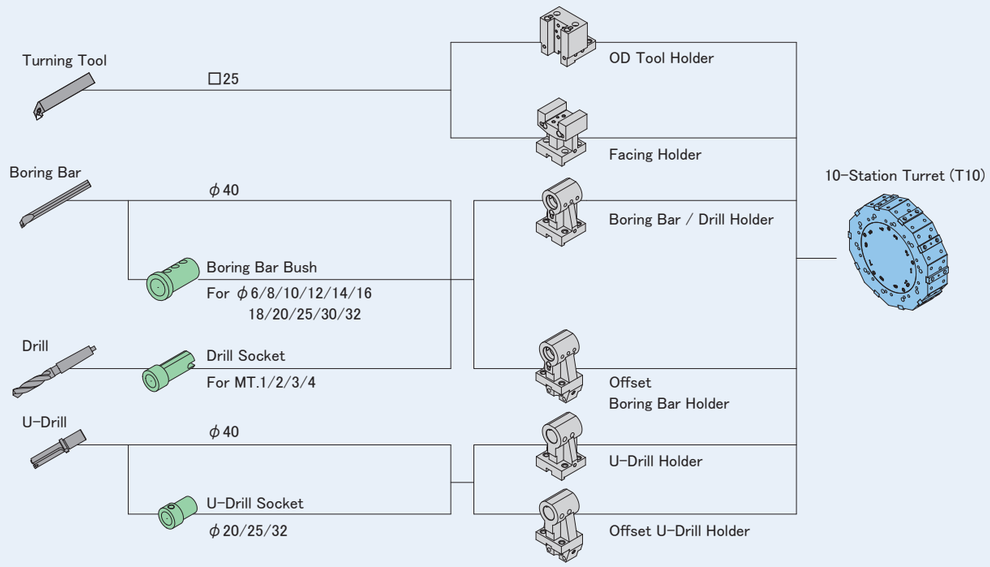
▲ RAKU-RAKU Loader 4



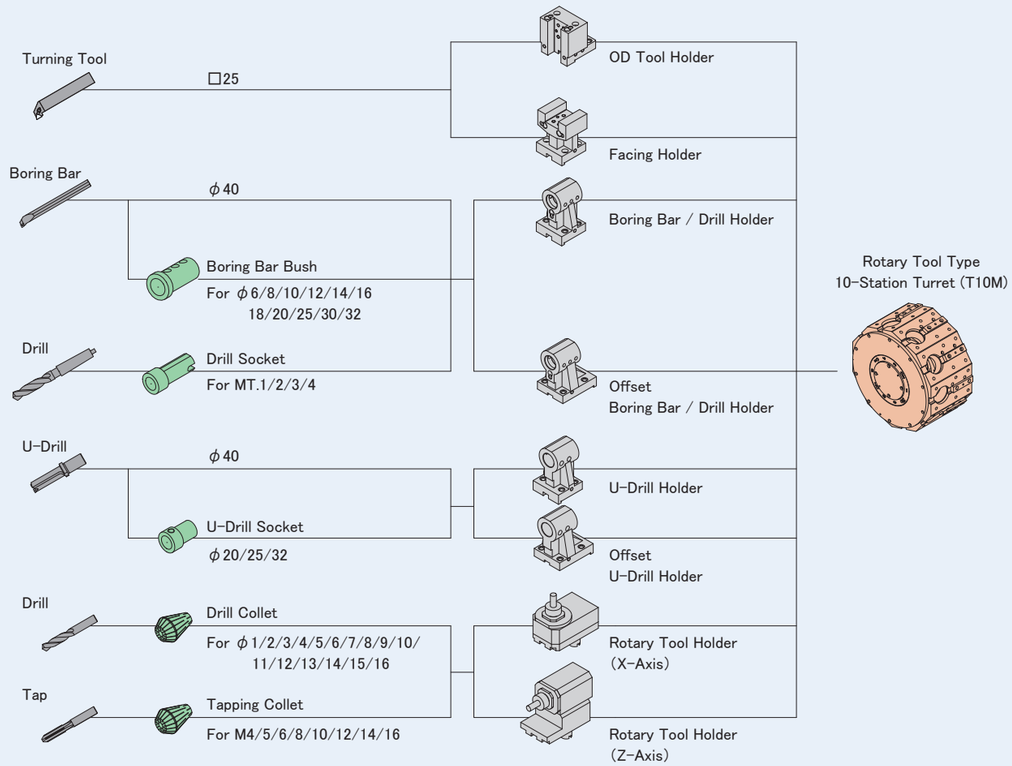
▲ RAKU-RAKU Monitor 3

■ Tooling System

Turning Type *TT-2600G / T-2600G*



Turning / Milling Type *TT-2600CMG / T-2600CMG*

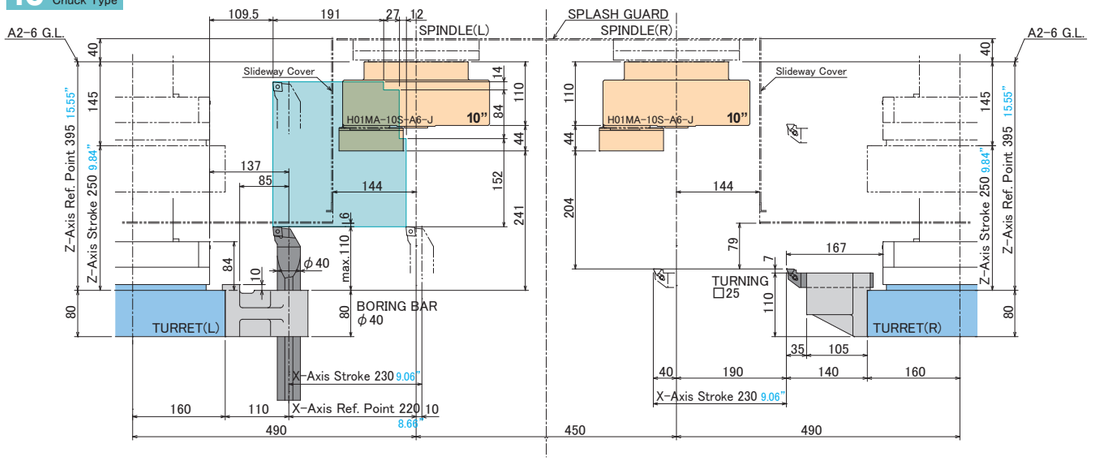


■ Travel Range and Interference

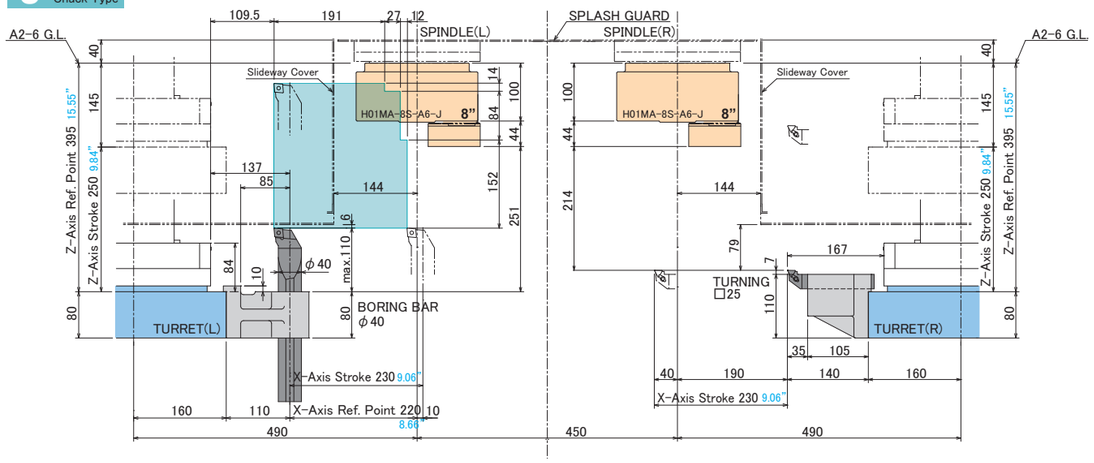
Unit : mm inch

Turning Type *TT-2600G*

10" Chuck Type



8" Chuck Type



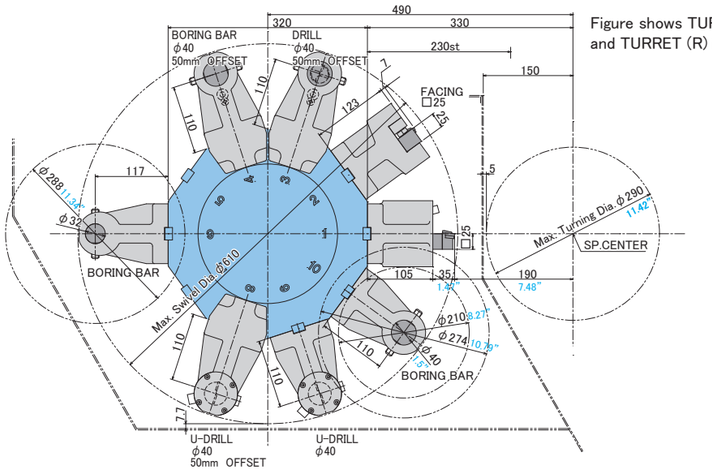
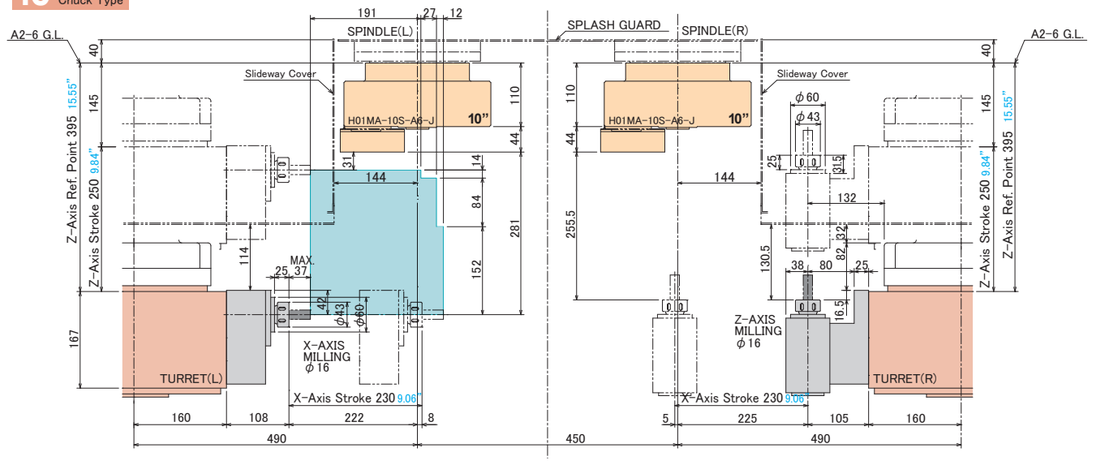


Figure shows TURRET (L), and TURRET (R) is mirror-image component.

Turning / Milling Type *TT-2600CMG*

10" Chuck Type



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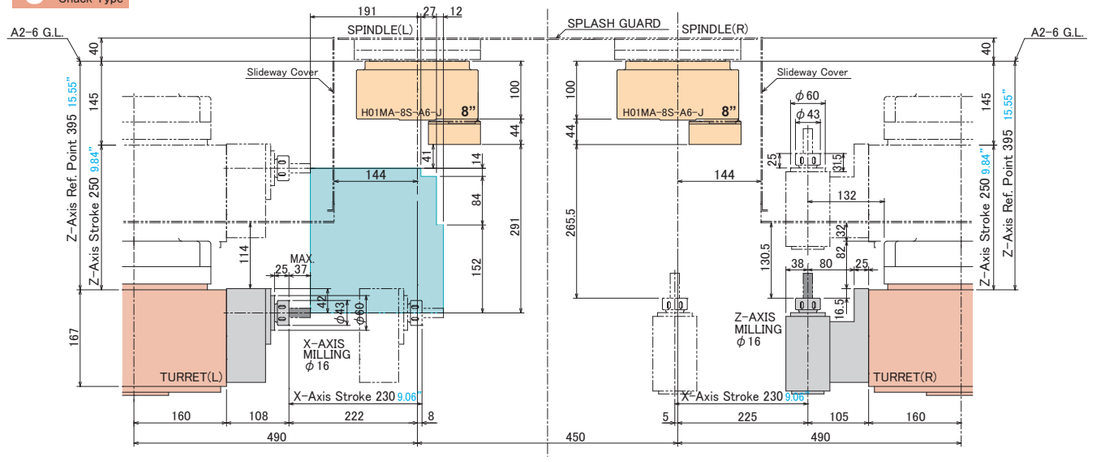

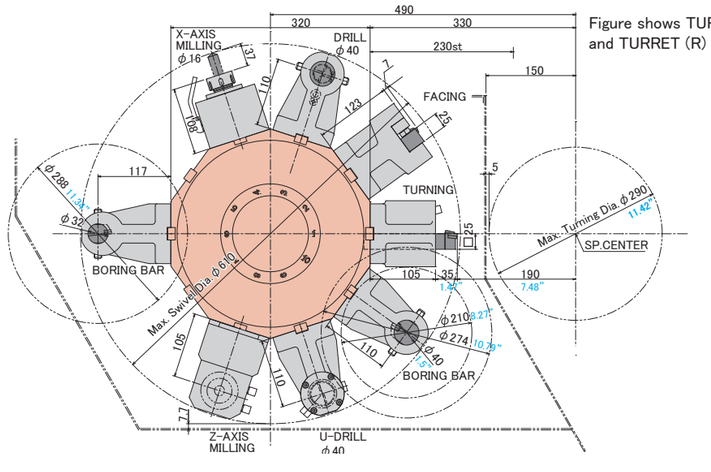

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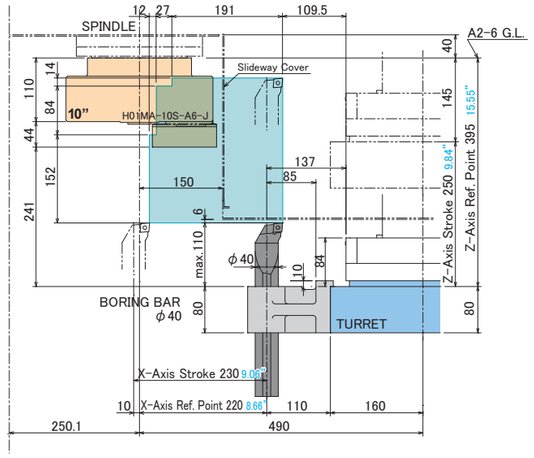
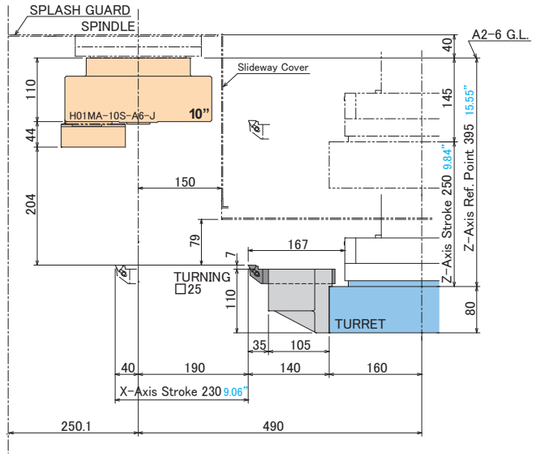
■ Travel Range and Interference

Unit : mm inch

Turning Type *T-2600G*

10" Chuck Type





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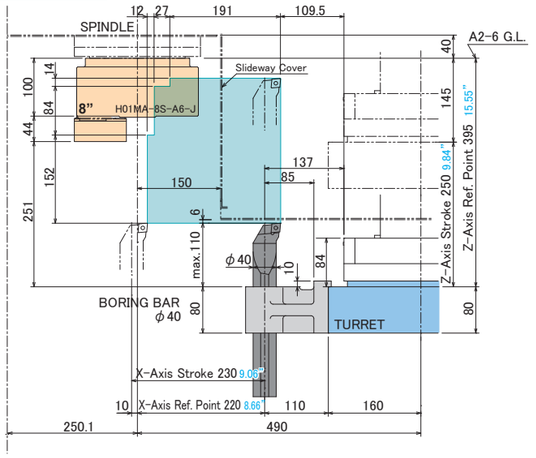
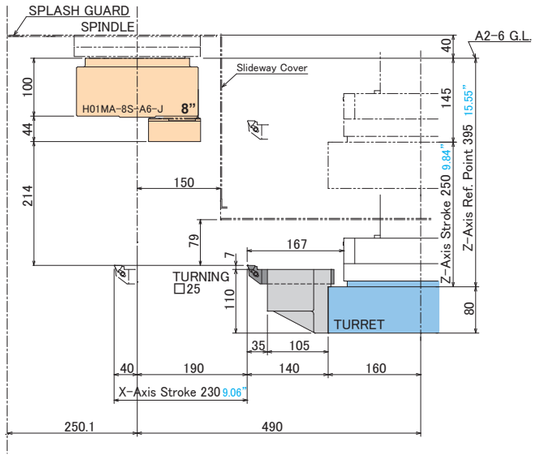
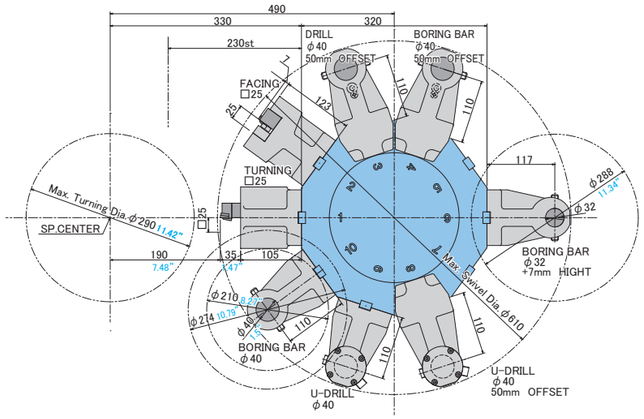
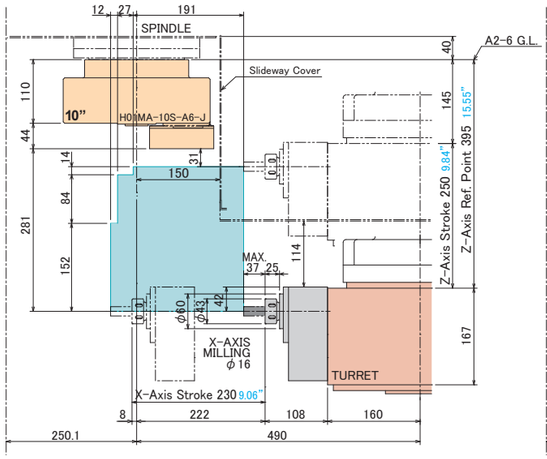


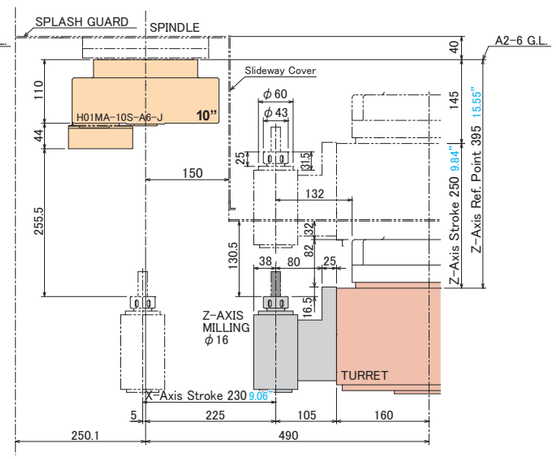




Turning / Milling Type *T-2600CMG*

10" Chuck Type





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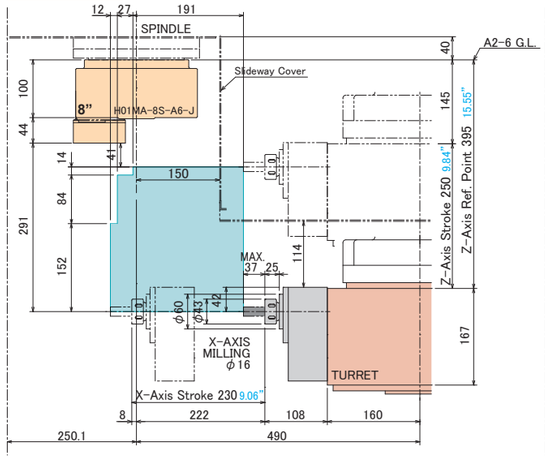
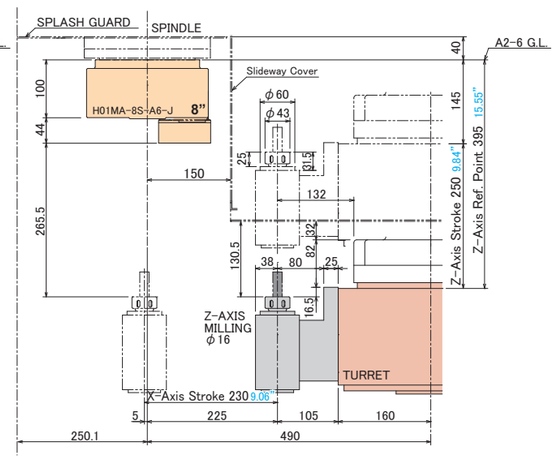
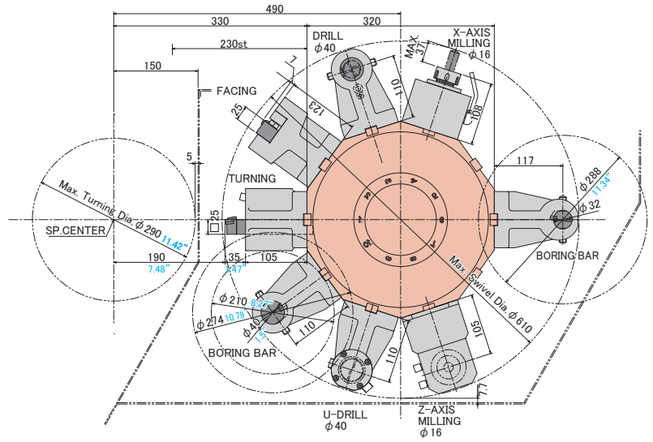


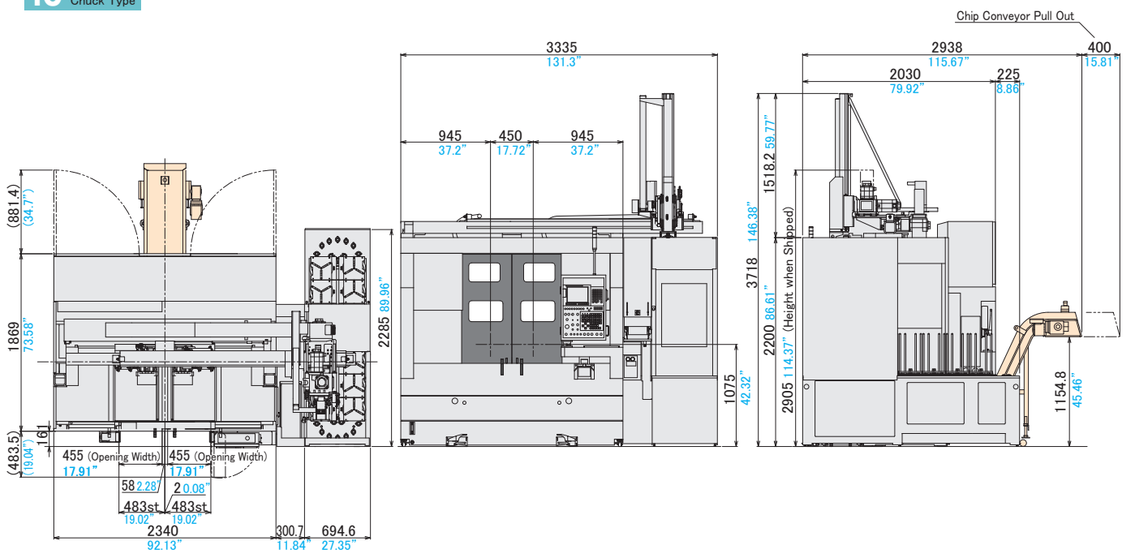




■ Machine Dimensions Unit : mm inch

TT-2600G / TT-2600CMG

10" Chuck Type



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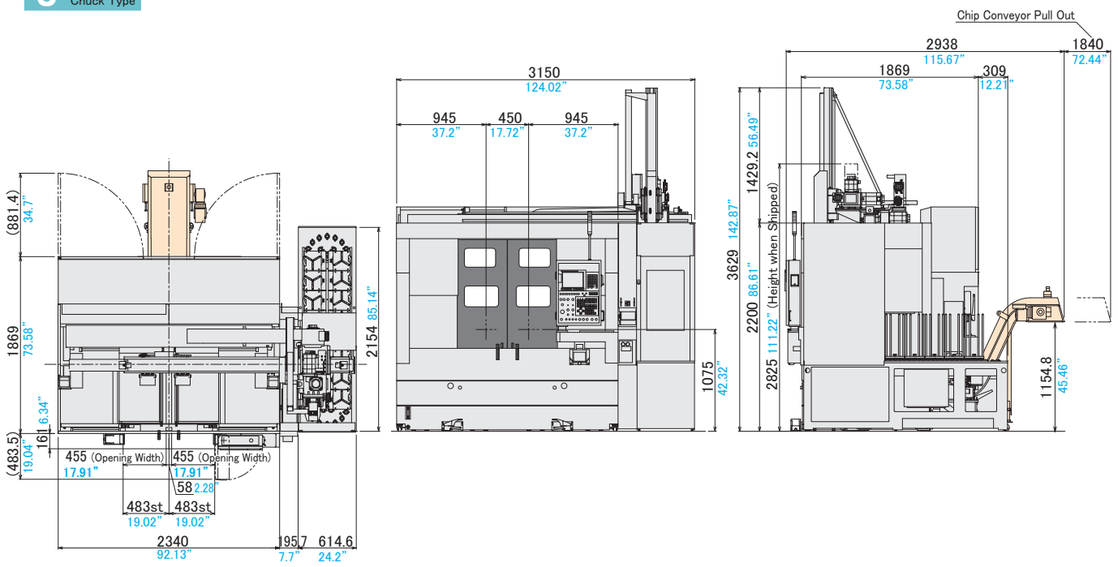

T-2600G / T-2600CMG

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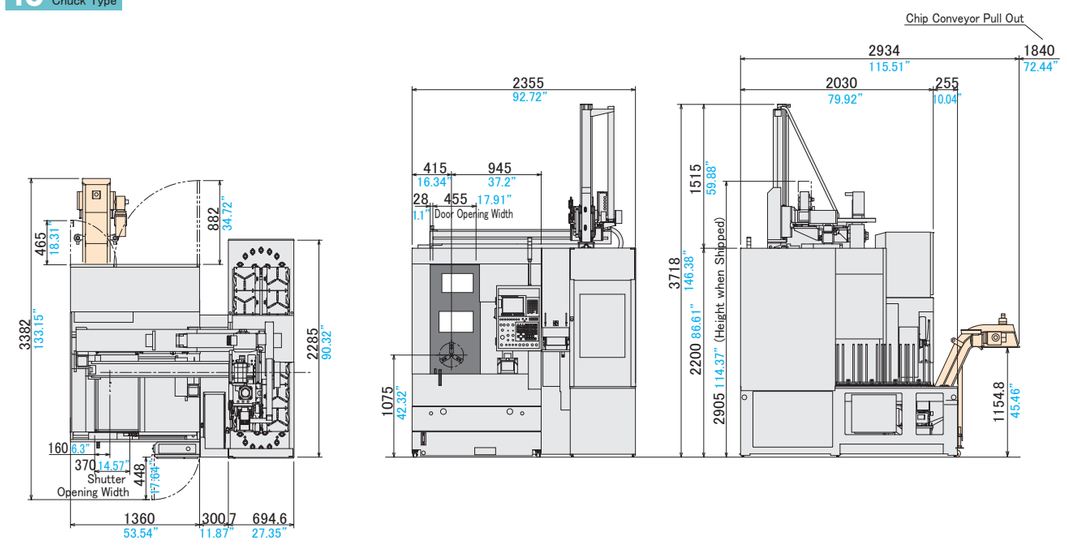

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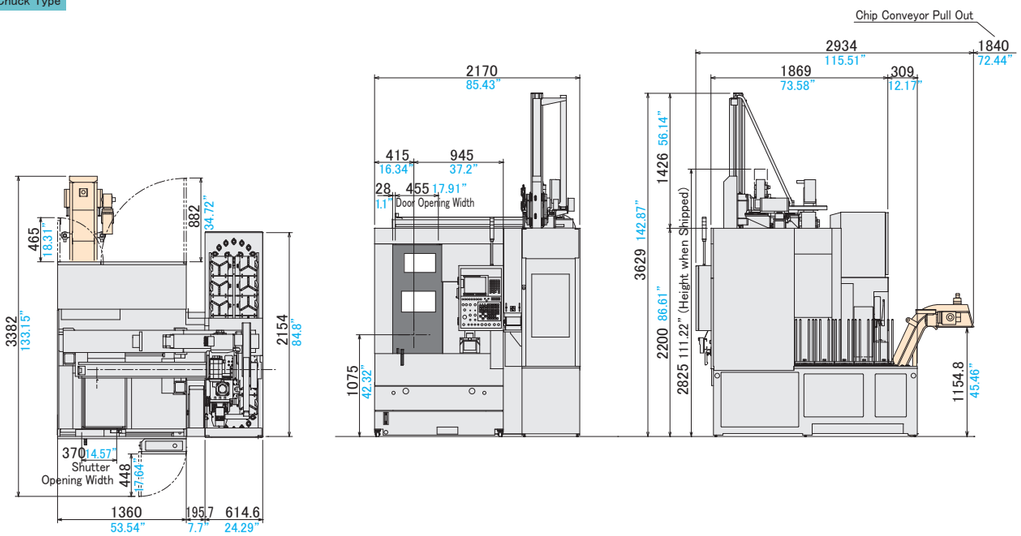


Machine Specifications (with A or B Type Loader)

Items			2-Turrets, 2-Spindles Type				1-Turret, 1-Spindle Type			
			8"+8"		10"+10"		8"		10"	
			TT-2600G	TT-2600CMG	TT-2600G	TT-2600CMG	T-2600G	T-2600CMG	T-2600G	T-2600CMG
Capability	Distance Between Spindles	mm inch	450 17.72″				–			
	Maximum Turning Diameter	mm inch	290 11.42″				290 11.42″			
	Maximum Turning Length	mm inch	214 8.43″		204 8.03″		214 8.43″		204 8.03″	
Travel	X-Axis Travel	mm inch	230 9.06″				230 9.06″			
	Z-Axis Travel	mm inch	250 9.84″				250 9.84″			
Spindle	Number of Spindles		2				1			
	Spindle Speed	min^{-1}	4000 3200 2500		3200 4000 2500		4000 3200 2500		3200 4000 2500	
	Minimum Index Angle (Cs-Axis)	deg	–	0.001	–	0.001	–	0.001	–	0.001
	Spindle Nose (Nominal Code)		JIS A2-6				JIS A2-6			
	Through-Hole Diameter	mm inch	63 2.48″		73 2.87″		63 2.48″		73 2.87″	
	Bearing Inside Diameter	mm inch	100 3.94″		110 4.33″		100 3.94″		110 4.33″	
Turret	Number of Turrets		2				1			
	Type of Turret		10-Station All-Holder Type				10-Station All-Holder Type			
	Number of Attachable Tools		10+10				10			
	Height of Square Tool Shank	mm inch	25 1″				25 1″			
	Diameter of Boring Bar Shank	mm inch	40 1.5″				40 1.5″			
Rotary Tool	Number of Rotary Tools		–	10 5	–	10 5	–	10 5	–	10 5
	Spindle Speed	min^{-1}	–	4000	–	4000	–	4000	–	4000
	Maximum Tool Shank Diameter	mm inch	–	16 0.63″	–	16 0.63″	–	16 0.63″	–	16 0.63″
	Tool Spindle Taper Hole (Type, Nominal Code)		–	AR25	–	AR25	–	AR25	–	AR25
	Tool Spindle Bearing ID	mm inch	–	35 1.38″	–	35 1.38″	–	35 1.38″	–	35 1.38″
Feedrate	Rapid Traverse Rate	m/min ipm	X:24 / Z:24 X:944.88″ / Z:944.88″				X:24 / Z:24 X:944.88″ / Z:944.88″			
	Jog Feedrate	mm/min ipm	X, Z:0 ~ 1260 X, Z:0 ~ 49.61″				X, Z:0 ~ 1260 X, Z:0 ~ 49.61″			
Motor	Main Spindle Motor	kW HP	11/7.5 14.7/10 (15 min/cont.) 15/11 20/14.7 (15 min/cont.)		15/11 20/14.7 (15 min/cont.) 18.5/15 24.7/20 (30 min/cont.)		11/7.5 14.7/10 (15 min/cont.) 15/11 20/14.7 (15 min/cont.)		15/11 20/14.7 (15 min/cont.) 18.5/15 24.7/20 (30 min/cont.)	
	Rotary Tool Spindle Motor (10 min/continuous)	kW HP	–	5.5/5.5/3.7 7.3/7.3/4.9	–	5.5/5.5/3.7 7.3/7.3/4.9	–	5.5/5.5/3.7 7.3/7.3/4.9	–	5.5/5.5/3.7 7.3/7.3/4.9
	Feed Axis Motor	kW HP	X:1.4 / Z:2.5 X:1.9 / Z:1.9				X:1.4 / Z:2.5 X:1.9 / Z:1.9			
	Hydraulic Pump Motor	kW HP	1.5 × 2 Motors 2 × 2 Motors				1.5 2			
	Coolant Pump Motor	kW HP	0.25 × 2 Motors 0.3 × 2 Motors				0.25 0.3			
Required Power	Electric Power	kVA	39 42, 47, 50		47 50, 58, 61		22 26		26 31	
	Air Pressure Source	Mpa , NL	0.4				0.4			
Tank Capacity	Hydraulic Unit Tank	L gal	20 (×2) 5.28 (×2)				20 5.28			
	Lubricant Tank	L gal	4 1.06				4 1.06			
	Coolant Tank	L gal	240 63.36				120 31.68			
Machine Size	Machine Height	mm inch	3629 142.87″ 2983 117.44″ *1		3718 146.38″ 3180 125.20″ *1		3629 142.87″ 2983 117.44″ *1		3718 146.38″ 3180 125.20″ *1	
	Floor to Spindle Center Height	mm inch	1075 42.32″				1075 42.32″			
	Required Floor Space	mm × mm inch × inch	3150 × 2938 124.02″ × 115.67″		3337 × 2938 131.38″ × 115.67″		2170 × 2934 85.43″ × 115.51″		2355 × 2934 92.72″ × 115.51″	
	Machine Weight	kg lbs.	6300 13860		6400 14080		3450 5790		3500 7700	

Red is Optional.

【Loader Specifications (A or B Type)】

			8"+8"		10"+10"		8"		10"	
			TT-2600G	TT-2600CMG	TT-2600G	TT-2600CMG	T-2600G	T-2600CMG	T-2600G	T-2600CMG
Target Workpiece	Outside Diameter	mm inch	160 6.30″		200 7.87″		160 6.30″		200 7.87″	
	Length	mm inch	100 3.94″		120 4.72″		100 3.94″		120 4.72″	
	Weight	kg lbs.	4 (×2) 8.8 (×2)		8 (×2) 17.8 (×2)		4 8.8		8 17.8	
Travel (Running Speed)	X-Axis (longitudinal)	mm inch (m/min ipm)	1755 69.09″ (150 5905.51″)		1880 74.02″ (110 4330.01″)		1310 51.57″ (150 5905.51″)		1435 56.50″ (110 4330.01″)	
	Y-Axis (vertical)	mm inch (m/min ipm)	975 38.39″ (170 6692.91″)		1055 41.54″ (125 4921.26″)		975 38.39″ (170 6692.91″)		1055 41.54″ (125 4921.26″)	
	Z-Axis (cross)	mm inch (m/min ipm)	212 8.35″ (50 1968.50″)		260 10.24″ (35 1377.95″)		212 8.35″ (50 1968.50″)		260 10.24″ (35 1377.95″)	
Hand	Type		3-Jaws		3-Jaws		3-Jaws		3-Jaws	
	Stroke	mm inch	ϕ32 1.26″		ϕ48 1.98″		ϕ32 1.26″		ϕ48 1.98″	

【Work Feeder Specifications】

		8"+8"		10"+10"		8"		10"	
		TT-2600G	TT-2600CMG	TT-2600G	TT-2600CMG	T-2600G	T-2600CMG	T-2600G	T-2600CMG
Number of Pallets (3 Guide Bars/Pallet)		16		14		16		14	
Loading Capacity (Per Pallet)	kg lbs.	40 88		70 154		40 88		70 154	
Maximum Height	mm inch	450 17.72″		400 15.75″		450 17.72″		400 15.75″	

Machine Standard Accessories (with A or B Type Loader)

	TT-2600G	T-2600G
Solid Chuck and Cylinder	● (L/R Each 1)	●
Chuck Auto Open/Close M-Function	● (L/R Each 1)	●
Chuck Airblow (Outside Spindle)	● (L/R Each 1)	●
Signal Tower Light (3-Color)	●	●
Chip Conveyor (Caterpillar Type/Rear Discharge)	●	●
Tool Holder *2	● (L/R Each 5)	● (5)
Auto Power-Off System	●	●
Total Counter (Display)	●	●
Gantry Loader	●	●
Work Feeder	●	●
Turnover Unit	●	–
Quality Chute	●	●
Splashguard	●	●
Hydraulic Unit (1.5kW)	● (L/R Each 1)	●
Footswitch for Hydraulic Unit	● (L/R Each 1)	●
Coolant Pump (250W)	● (L/R Each 1)	●
Lighting Apparatus	●	●
Adjustment Tool Set	●	●
Instruction Manual	●	●

( ) is the number.

Machine Optional Accessories

Rotary Tool Holder (for X-Axis) *2
Rotary Tool Holder (for Z-Axis) *2
Collet (for Rotay Tool) *2
OD Turning and Facing Tool Holder
Boring Bar / Drill Holder
Offset Boring Bar / Drill Holder
U-Drill Holder
Offset U-Drill Holder
Boring Bar Bush
Drill and U-Drill Socket
Special Chuck
Spindle Motor

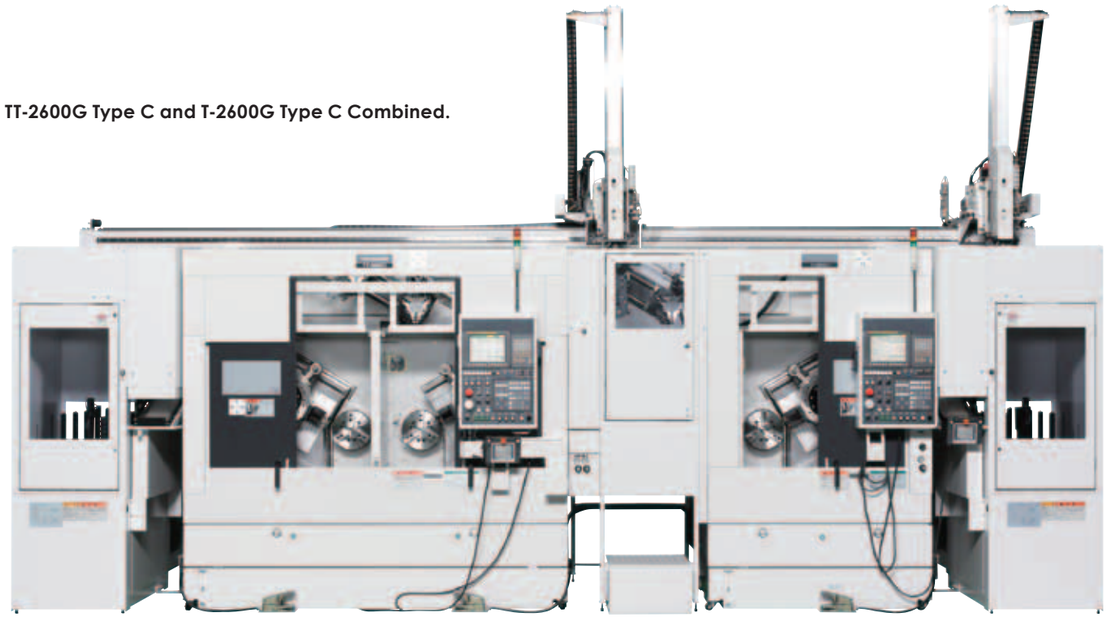
[For 10″ Type]	[For 8″ Type]
15/11kW : 2500min^{-1}	11/7.5kW : 2500min^{-1}
15/11kW : 4000min^{-1}	11/7.5kW : 3200min^{-1}
18.5/15kW : 3200min^{-1}	15/11kW : 2500min^{-1}
18.5/15kW : 4000min^{-1}	15/11kW : 3200min^{-1}
	15/11kW : 4000min^{-1}

Spindle Orientation *3
Coolant Unit (400W, 520W)
Chip Bucket
Tool Setter

※ For other optional accessories, please contact us.

*1) 2 Steps Loader Type
*2) Selectable for OD Turning & Facing, or Boring Bar/Drill
*3) Applied to TT-2600CMG, T-2600CMG
*4) Electrical Brake Type (Max. 360 Point) with M-Function

TT-2600G Type C and T-2600G Type C Combined.



TT-2600G / T-2600G

NC Unit Specifications

FANUC : 0i-TD, 31i-B, 32i-B

※ Please contact our sales persons for further information.

Software

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

RAKU-RAKU Loader 4

【Standard Accessory】

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

RAKU-RAKU Monitor 3

【Standard Accessory】

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

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-2600G	TT-2600CMG	T-2600G	T-2600CMG
【NC Unit】				
Loader A, B, C Type	0i-TD(2)	31i-B(2)	0i-TD	32i-B
Loader D Type	31i-B(4)		–	
Screen (10.4″Color LCD/MDI (Horizontal, Small Type))	●		●	
【Software】				
RAKU-RAKU Loader 4	●		●	
RAKU-RAKU Monitor 3	●		●	
Measurement Monitor 3 ＊1	◎		◎	
【Safety Devices】				
Front Door Interlock	●		●	
Front Door Locking Mechanism	○		○	
Safety Relay	●		●	
Control Panel Breaker with Tripper	●		●	

Main Function List

Specifications・Contents	0i-TD	31i-B/32i-B	
	Standerd	CM	Standerd/CM
Loader Type	A, B, C	A, B, C	D
【Controlled Axes】			
Least Input Increment ＊2	●	●	●
Maximum Programmable Dimension (±999999.999)	●	●	●
Cs Contour Control	–	●	CM
Least Input Increment C ＊3	▲	○	○
Inch/Metric Selection	●	●	●
Interlock	●	●	●
Machine Lock ＊4	○	○	○
Emergency Stop	●	●	●
Stored Stroke Check 1	●	●	●
Stored Stroke Check 2, 3 ＊5	▲	○	○
Stroke Limit Check Before Movement	▲	○	○
Chuck Tailstock Barrie ＊6	▲	○	○
Mirror Image (Each Axis)	▲	▲	▲
Chamfering ON/OFF	●	●	●
Overload Detection ＊7	▲	▲	▲
Position Switch	●	●	●
【Operation】			
Auto Run (Memory)	●	●	●
MDI Run	●	●	●
DNC Run ＊8	○	○	○
DNC Run with Memory Card ＊8 ＊9	○	○	○
Program Number Search	●	●	●
Sequence Number Search	●	●	●
Sequence Number Collation and Stop	●	○	○
Program Restart	◎	◎	◎
Manual Interrupt・Restore	▲	▲	▲
Wrong Operation Preventive	▲	▲	▲
Buffer Register	●	●	●
Dry Run	●	●	●
Single Block	●	●	●
Jog Feed	●	●	●
Manual Reference Point Return	●	●	●
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
Helical Interpolation	○	●	CM
Thread Cutting・Synchronous Feed	●	●	●
Multiple Thread Cutting	●	●	●
Thread Cutting Cycle and Retraction	●	●	●
Continuous Thread Cutting	●	●	●
Variable Lead Thread Cutting	●	○	○
Skip (G31)	◎	◎	◎
Reference Point Return (G28)	●	●	●
Reference Point return Check (G27)	●	●	●
2nd Reference Point Return (G30)	●	●	●
3rd, 4th Reference Point Return	◎	◎	◎
【Feed Functions】			
Rapid Traverse Override(F0,25%,50%,100%)	●	●	●
Feed Per Minute	●	●	●
Feed Per Revolution	●	●	●
Constant Tangential Speed Control	●	●	●
Cutting Feedrate Clamp	●	●	●
Automatic Acceleration/Deceleration	●	●	●
Rapid Traverse Bell-Shaped Accel/Decel	●	●	●
Feedrate Override (15 steps)	●	●	●
Jog Override (15 steps)	●	●	●
Override Cancel	●	●	●
Manual Feed Per Revolution	▲	▲	▲
Linear Accel/Decel After Feedrate Interpolation	●	●	●

Specifications・Contents	0i-TD	31i-B/32i-B	
	Standerd	CM	Standerd/CM
Loader Type	A, B, C	A, B, C	D
【Program Input】			
Program Code (EIA/ISO Auto Recognition)	●	●	●
Label Skip	●	●	●
Parity Check	●	●	●
Control In/Out	●	●	●
Optional Block Skip, 1 Piece	●	●	●
Optional Block Skip (2 to 9 Pieces)	◎	◎	◎
Program Number O4 Digits	●	●	●
Program File Name 32 Characters	–	●	●
Sequence Number N5 Digits	●	–	–
Sequence Number N8 Digits	–	●	●
Absolute/Incremental Command	●	●	●
Decimal Point Input/ Pocket Calculator Type Decimal Point Input	●	●	●
Diameter/Radius Programming (X-Axis)	●	●	●
Plane Selection G17,G18,G19	–	●	CM
Rotary Axis Designation	●	●	●
Rotary Axis Rollover	●	●	●
Coordinate System Setting (G50)	●	●	●
Auto Coordinate System Setting	●	●	●
Drawing Dimension Direct Input ＊10	▲	○	○
G-Code System A	●	●	●
G-Code System B/C	▲	○	○
Chamfering/Corner R Programming ＊11	●	●	●
Programmable Data Input(G10)	●	●	●
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	●	●	●
Workpiece Coordinate System Shift	●	●	●
Workpiece Coordinate System Shift Direct Input	●	●	●
【Miscellaneous Functions/Spindle Functions】			
M Function (M3 Digits)	●	●	●
Second Miscellaneous Function (B Function)	●	○	○
Miscellaneous Functions Instructions (3 Pieces)	●	●	●
Spindle Functions (S4 Digits)	●	●	●
Constant Surface Speed Control	●	●	●
Spindle Override	●	●	●
Spindle Orientation	●	●	●
Rigid Tap (Spindle Center)	●	●	●
Rigid Tap (Rotary Tool)	–	●	CM
【Tool Functions/Tool Offset Functions】			
T Function (T2+2 Digits)	●	●	●
Tool Offsets, 128 Pieces (L/R Each 64 Pieces) ＊12	●	–	–
Tool Offsets, 200 Pieces (L/R Each 99 Pieces) ＊13	–	●	●
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 ＊14	○	○	○
Tool Life Management ＊15	●	○	○
【Accuracy Offset Functions】			
Backlash Compensation	▲	▲	▲
Backlash Compensation by Rapid Traverse / Feedrate	▲	▲	▲
【Editing】			
Part Program Memory Capacity 512kbyte ＊16	T	T	–
Part Program Memory Capacity 1Mbyte ＊16	TT	TT	TT
Part Program Memory Capacity 2Mbyte ＊16	–	○	○
Part Program Memory Capacity 4Mbyte ＊16	–	○	○
Part Program Memory Capacity 8Mbyte ＊16	–	○	○
Registrable Programs, 800 Programs ＊17	●	–	–
Registrable Programs, 1000 Programs ＊17	–	●	●
Program Editing	●	●	●
Program Protection	●	●	●

Specifications・Contents	0i-TD	31i-B/32i-B	
	Standerd	CM	Standerd/CM
Loader Type	A, B, C	A, B, C	D
Extended Program Editing	●	●	●
Playback	◎	◎	◎
Machining Time Stamp	–	○	○
Background Editing	●	●	●
Multiple-Programs Simultaneous Editing	–	●	●
【Setting/Display】			
Status Display	●	●	●
Clock Function	●	●	●
Current Position Display	●	●	●
Program Comment Display (31 Characters)	●	●	●
Parameter Setting and Display	●	●	●
Alarm Display	●	●	●
Alarm Log Display	●	●	●
Operation Log Display	▲	▲	▲
Run Hours and Parts Count Display	●	●	●
Actual Speed Display	●	●	●
Actual Spindle Speed and T Code Display	●	●	●
Servo Adjustment Screen	●	●	●
Spindle Adjustment Screen	●	●	●
Maintenance Information Screen	●	●	●
Software Operator's Panel	◎	◎	◎
Data Protection Key, 1 Kind	●	●	●
Screen Clear	●	●	●
Parameter Setup Support Screen	●	●	●
Help Function	●	●	●
Self Diagnostic Function	●	●	●
Scheduled Maintenance Screen	●	●	●
Auto Data Backup	○	●	●
【Display Languages】			
English	●	●	●
Other Language ＊18	▲	○	○
Display Language Dynamic Switching	▲	▲	▲
【Data I/O】			
RS-232C Interface 1ch	●	●	●
Fast Data Server	◎	◎	◎
External Workpiece Number Search	◎	◎	◎
Memory Card I/O	●	●	●
USB Memory I/O	●	●	●
One-Touch Macro Call	◎	◎	◎
【Communication Function】			
Inclusion Ethernet	●	●	●
Fast Ethernet	◎	◎	◎
【Other】			
Touch Panel	◎	◎	◎

●:Standard ○:Optional ◎:Special –:None ▲:Parameter setting is required.

(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.)

CM : C-Axis/Milling Standard Specification.
T : T-2600 Standard Specification. TT : TT-2600 Standard Specification.

＊1) I/O addition and the PC change are necessary.
＊2) 0.001mm, 0.0001inch, 0.001deg
＊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) T-2600 is 64 Pieces.
＊13) T-2600 is 99 Pieces.
＊14) Tool setter is required.
＊15) Cannot be used when RAKU-RAKU Monitor 3 is installed.
＊16) The program storage capacity 262Kbyte 655m is required when RAKU-RAKU Monitor 4/ RAKU-RAKU Loader 4 is used.
＊17) 150registration programs is required when RAKU-RAKU Monitor 4/ RAKU-RAKU Loader 4 is used.
＊18) Japanese (Kanji), German, French, Spanish, Italian, Chinese (traditional), Chinese (simplified), Korean, Portuguese, Dutch, Danish, Swedish, Hungarian, Czech, Polish, Russian, Turkish

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TT-2600G

TAKISAWA®

TAKISAWA MACHINE TOOL CO., LTD.

983 Natsukawa, Kita-ku, Okayama 701-0164, JAPAN
Telephone : (81)86-293-1500
Fax : (81)86-293-1799
Website : http://www.takisawa.co.jp
E-mail : tkj-1@takisawa.co.jp (America)
tkj-2@takisawa.co.jp (Europe)
tkj-3@takisawa.co.jp (Asia)

ISO 9001 Certified
JQA-2010
(Head Office)

JAB
CM007
ISO 14001
12ER-865
(Head Office)

■ Overseas Network

THAILAND Takisawa (Thailand) Co.,Ltd.
Telephone : (66)2726-1530-2 Fax : (66)2726-1533

INDONESIA PT. Takisawa Indonesia
Telephone : (62)21-45852466 Fax : (62)21-45852467

INDIA SAP Takisawa Machine Tools Private Ltd.
Takisawa Mchine Tool India Liaison Office
Telephone : (91)80-26662386 Fax : (91)80-26662392

CHINA Takisawa (Shanghai) Co., Ltd.
Telephone : (86)21-6235-0938 Fax : (86)21-6235-0905

USA Takisawa, Inc.
Telephone : (1)847-419-0046 Fax : (1)847-419-0043

GERMANY Takisawa Machine Tool Germany Representative Office
Telephone : (49)2056-2598-15 Fax : (49)2056-5994-79

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