

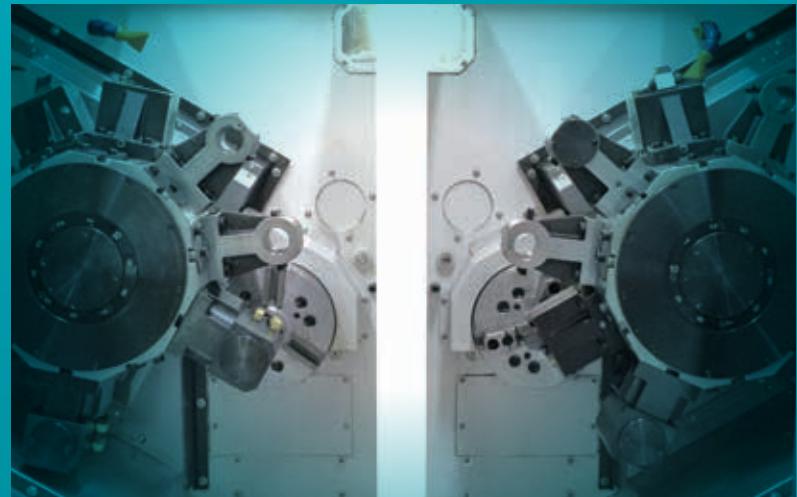
TAKISAWA TWIN CHUCKER

TT-Series

Parallel Twin-Spindle CNC Lathe

10in/8in

TT-2600

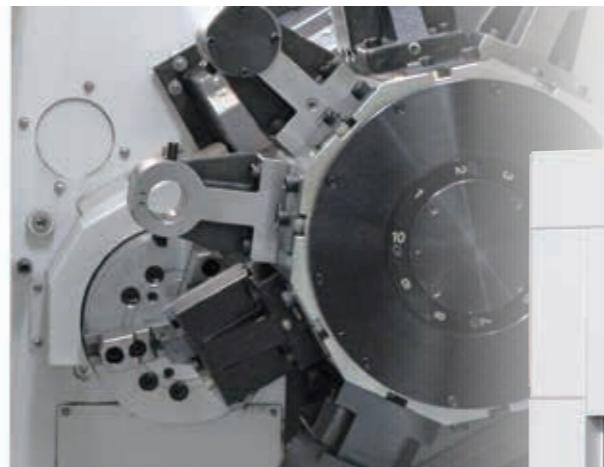


**TT-2600G TT-2600CMG
T-2600G T-2600CMG**

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.



Environment Friendly

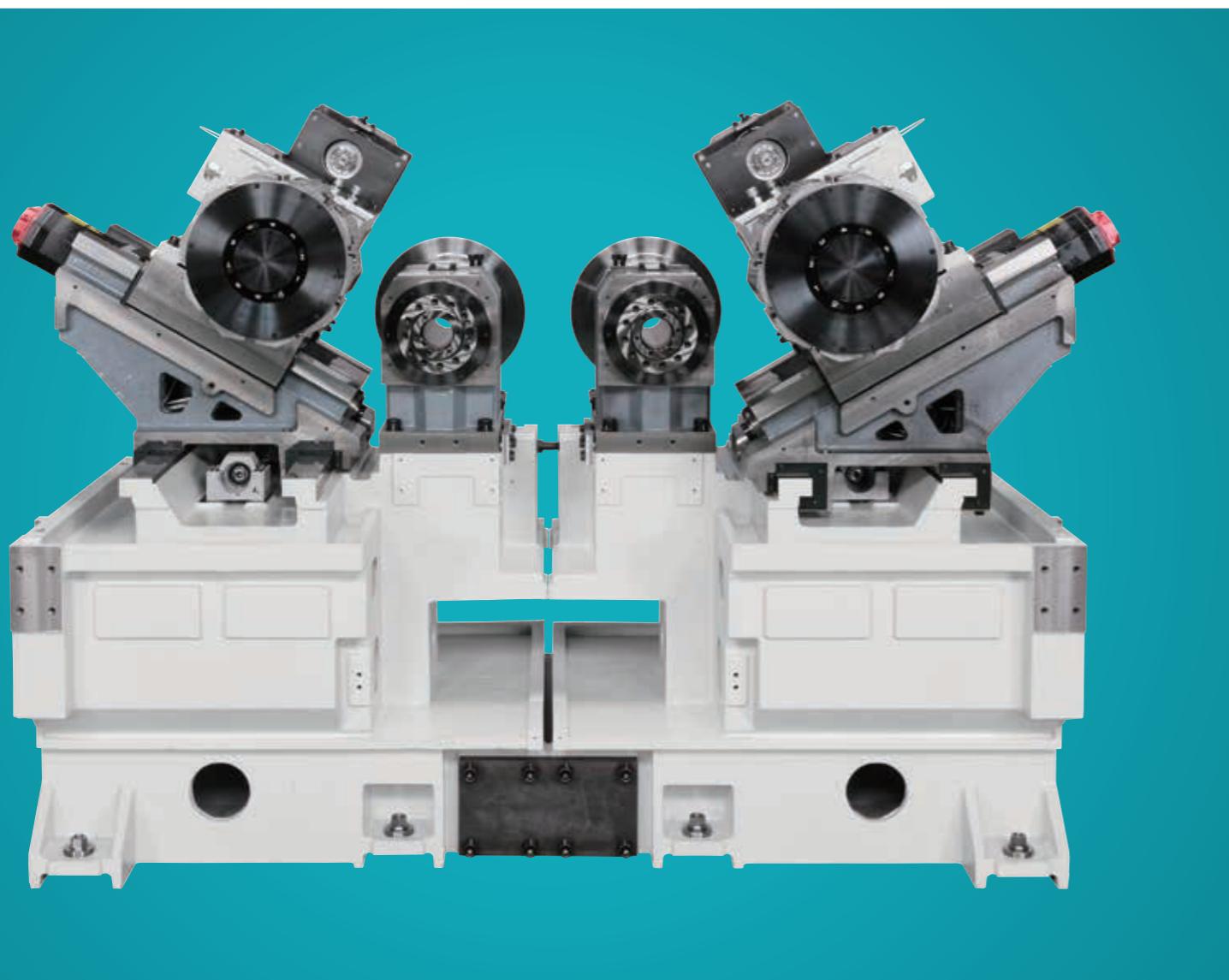
- Reduction of power consumption.
Regenerative energy system – the energy generated when the motor decelerates returns to the power supply – is applied.
Internal lighting shutoff function reduces standby power.
Control panel cooling design takes natural radiation amount into account to reduce electric 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.



*Photo includes options.

High-Rigidity & Reliability

Twin Chuckers



"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.

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.



	Standard Type	CM Type	10" Chuck Type	8" Chuck Type
Processing Classification	Turning	Turning & Milling	Chuck Size	10"+10" 8"+8"
Turret	T10	T10M	Bearing Inside Diameter	φ110 φ100

Spindle Stock

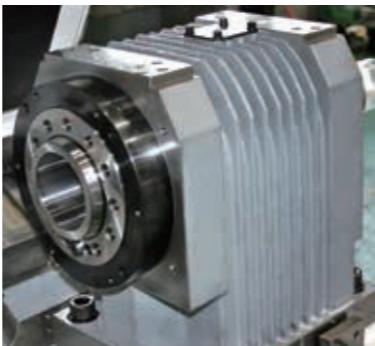
In order to cope with heavy cutting and thermal displacement, a low center of gravity structure is applied. Spindle core is placed at a low position from the floor and mounting base.

10" Chuck Type

- Bearing Inside Diameter : $\phi 110$
- Spindle Nose (Nominal Code) : JIS A2-6

8" Chuck Type

- Bearing Inside Diameter : $\phi 100$
- Spindle Nose (Nominal Code) : JIS A2-6

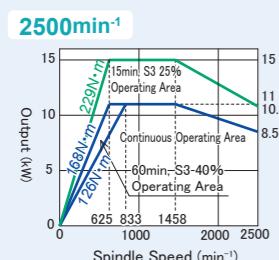


Spindle Motor

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

10" Chuck Type

15/11kW FANUC : β i12

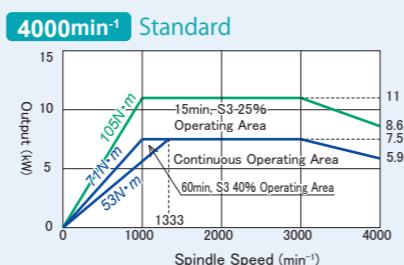
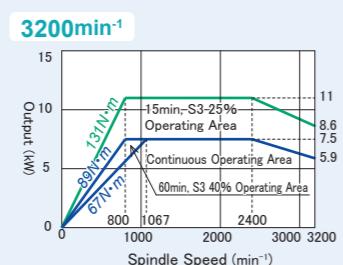


18.5/15kW FANUC : α i15

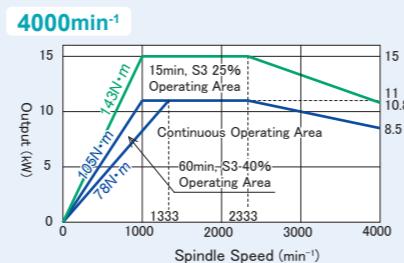
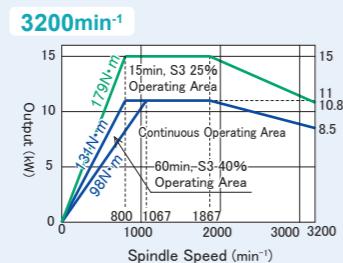
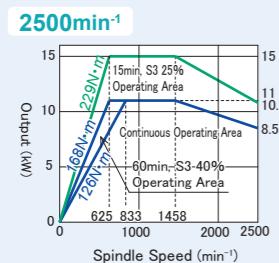


8" Chuck Type

11/7.5kW FANUC : β i18



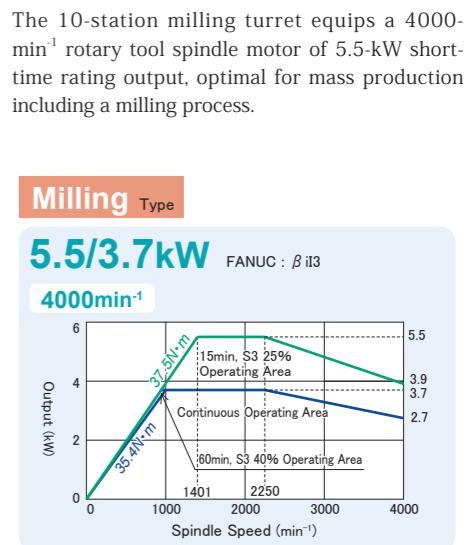
15/11kW FANUC : β i12



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.

Items	Items	Items	10" Chuck Type	8" Chuck Type
10-Station Turret	T10 (Standard)	Height of Square Tool Shank	□25	□25
		Diameter of Boring Bar Shank	φ40	φ40
Rotary Tool Type	T10M (Optional)	Height of Square Tool Shank	□25	□25
10-Station Turret		Diameter of Boring Bar Shank	φ40	φ40
		Maximum Tool Shank Diameter	φ16	φ16



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.



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 Cycle Time 31.5 sec

(10" Chuck Type, A Type Gantry)

Loader Specifications (A Type)

Items	10" Chuck Type	8" Chuck Type
Outside Diameter	φ200mm	φ160mm
Target Workpiece	Length 120mm	Length 100mm
Weight	8kg (x2)	4kg (x2)
Travel (Running Speed)	X-Axis (longitudinal) 110m/min Y-Axis (vertical) 125m/min	X-Axis (longitudinal) 150m/min Y-Axis (vertical) 170m/min



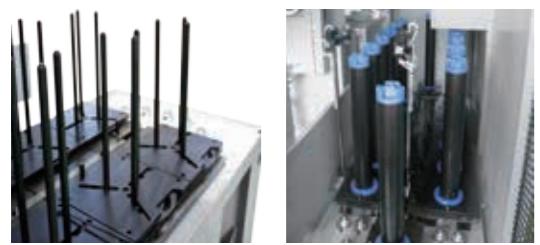
Work Feeder Specifications

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

Supply/Discharge Unit

Standard : Work Feeder
Three-guide-bar specification

Center pole specification



Loader Hand

We will provide optimum one according to the application.

Parallel type
(Example: for flange)



Swivel type
(Example: for palletizer)

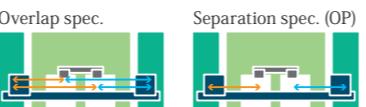
Overlap Twin Loader Specification

D type machine is equipped with the "Overlap specification" as standard, which enables the loader to travel to the opposite turnover unit.



Loader flexibility is significantly increased by enabling loader's access to the opposite turnover unit. The flow direction can be changed only by modifying the program without changing the turnover unit.

In case the loader is in failure, the machine can be operated as the one-side loader & workpiece feeder specification (type A or B).



*1) Loader Travel

10" Chuck Type	8" Chuck Type
1880mm	1755mm

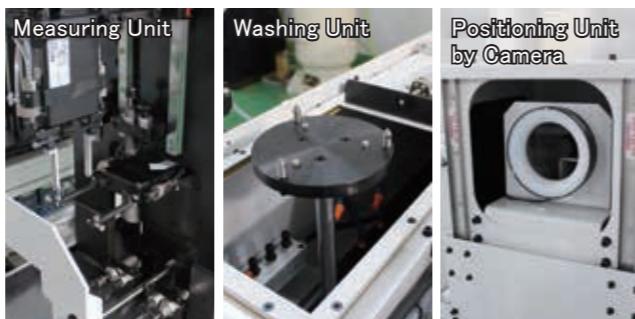
Machine Body Work Feeder

Gantry Loader Turnover/Transfer Unit

Promptly Compatible with Turnkey System Peripheral Device Modular Unit

The loader peripheral device is utilized as a package. It is flexibly applicable for automatic cell with previous and subsequent processes such as positioning by camera and measurement.

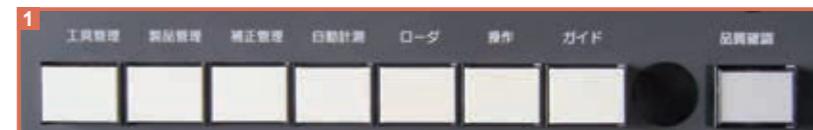
Machine	1 Unit Width	Workpiece handled by unit (diameter x length, weight)
10" Chuck Type	420mm	φ200×120, 5kg
8" Chuck Type	420mm	φ160×100, 4kg



Pursuing Operability

Dedicated Switch

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



Program Reset Function

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

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.

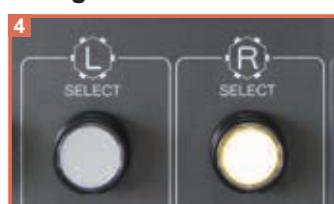
Function to minimize inputting error on right and left.

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.

Machine Operation Panel Screen

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



Information Display Window

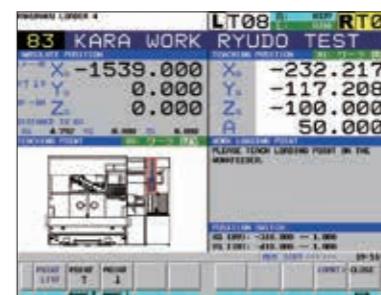
"Right/left selection, indexed turret number of right/left machine, and number of workpieces on right/left" can be checked on the upper right of the screen.



Program Display



Tool Offset Display



RAKU-RAKU Loader 4

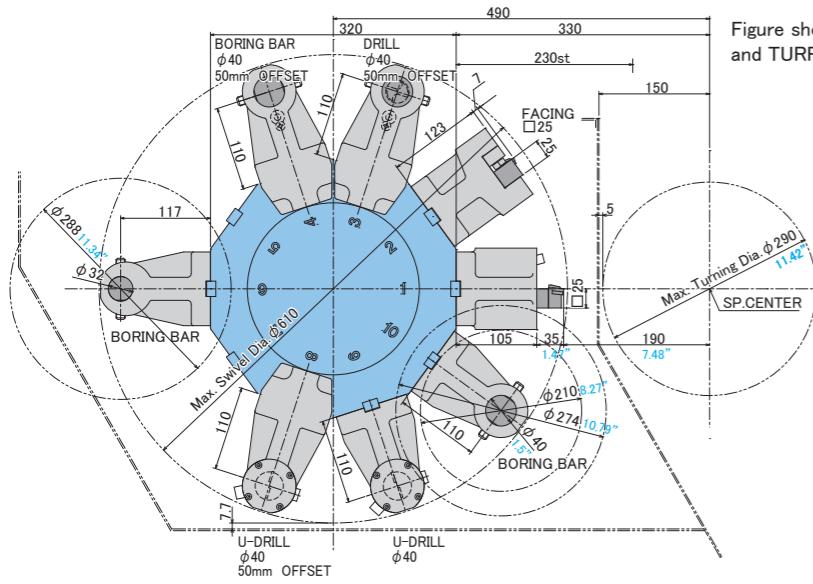
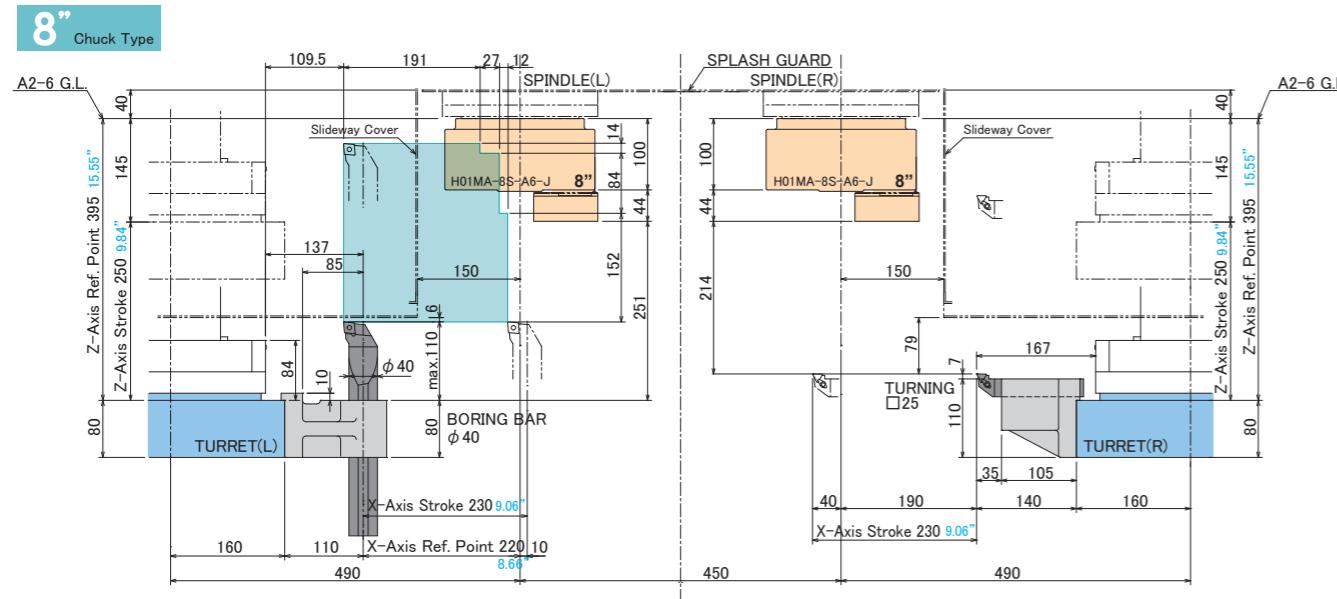
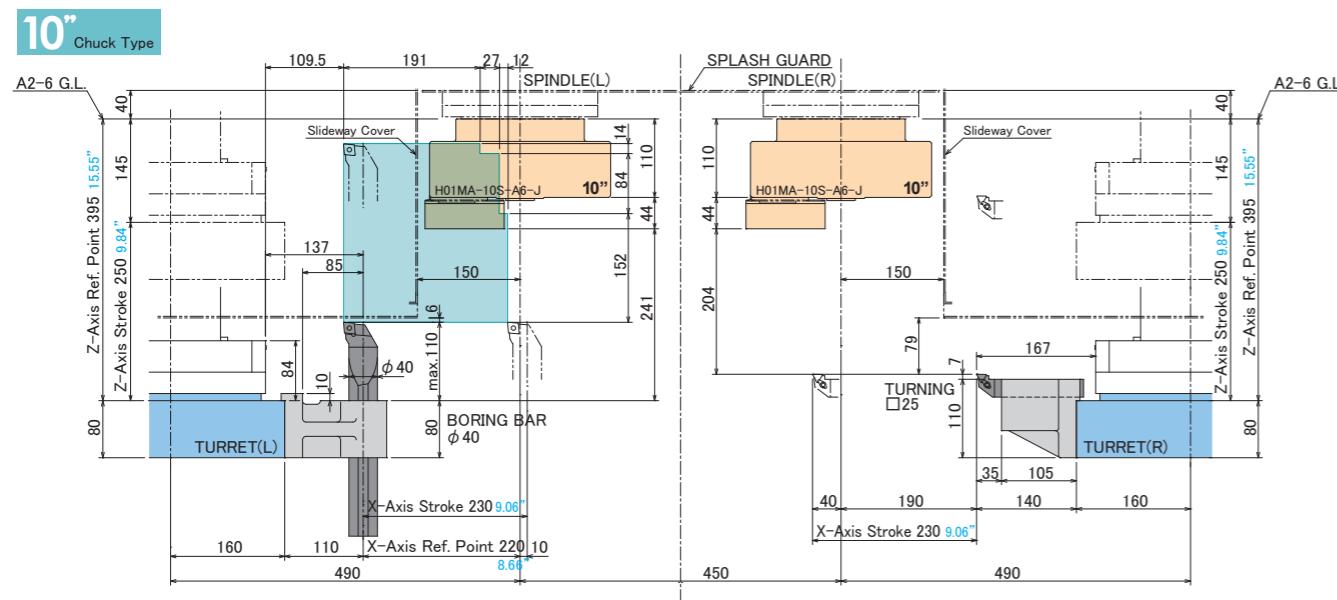


RAKU-RAKU Monitor 3

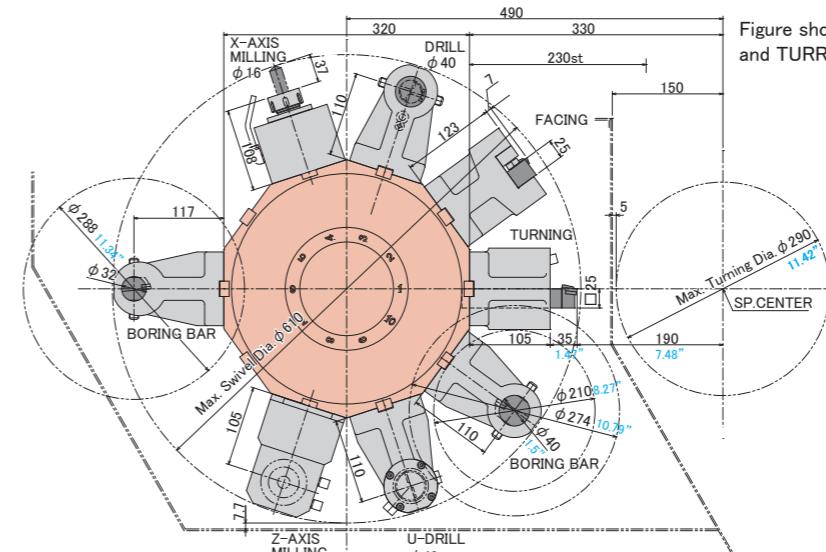
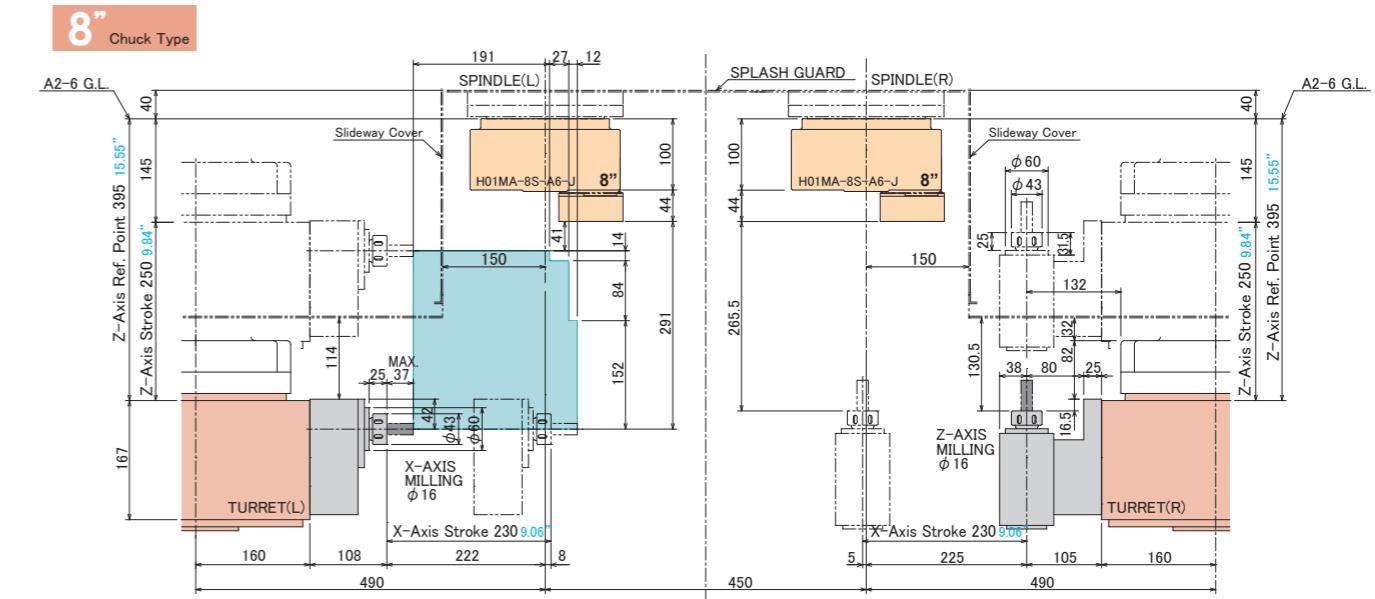
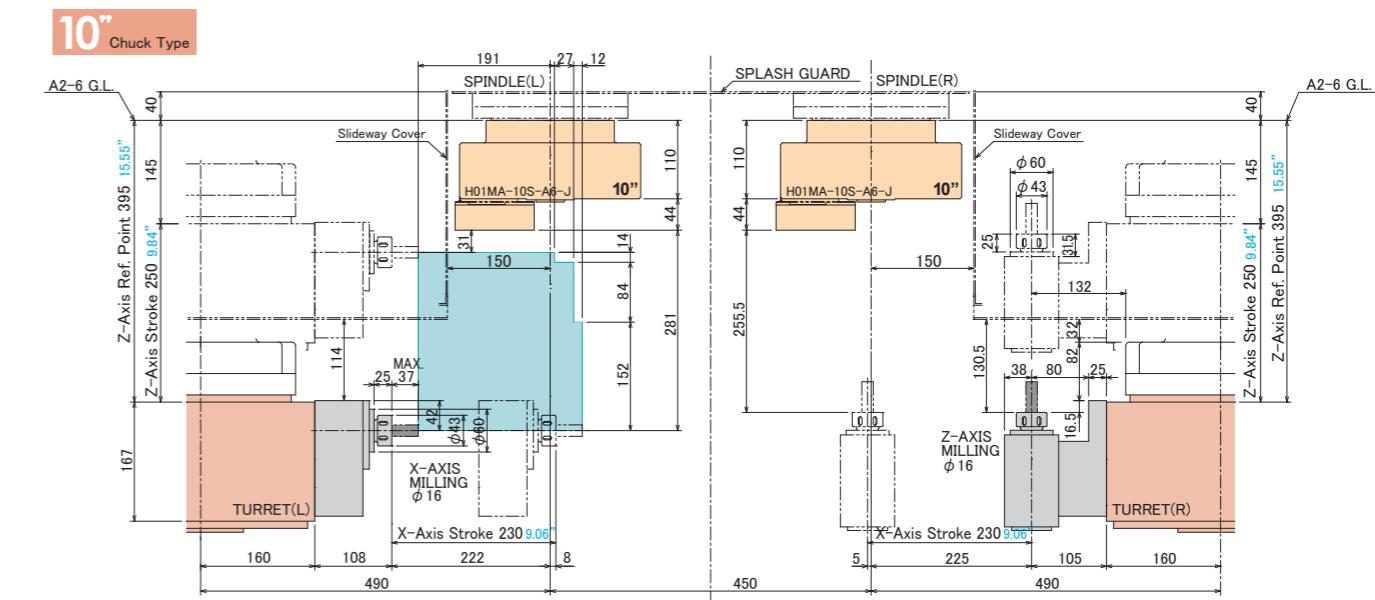
■ Travel Range and Interference

Unit : mm inch

Turning Type TT-2600G Ranges depends on chuck type.



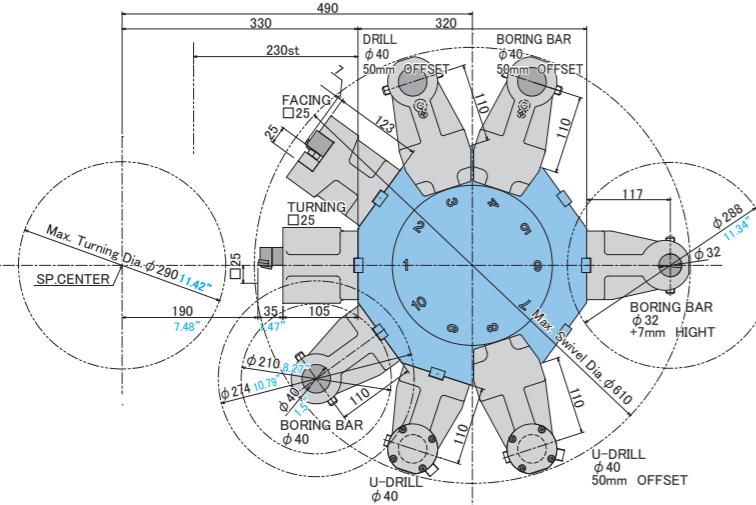
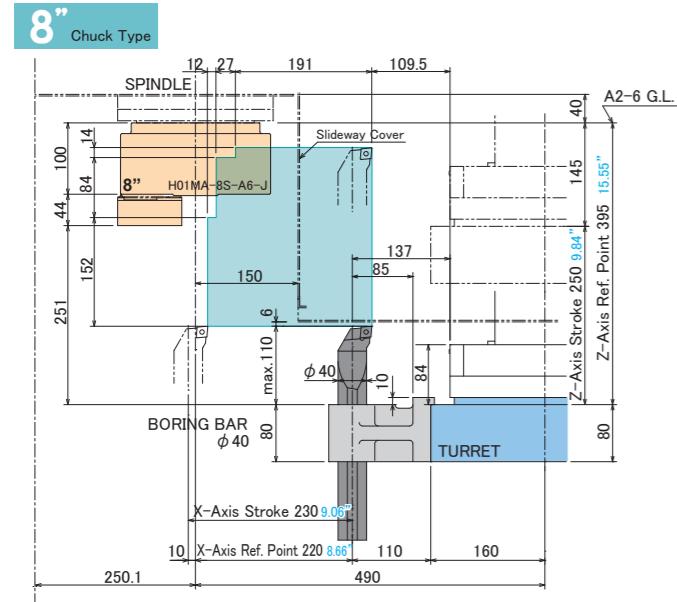
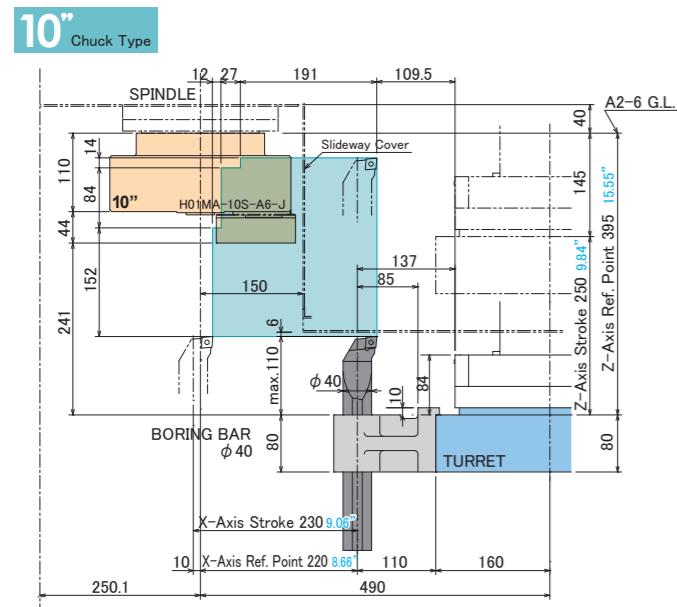
Turning / Milling Type TT-2600CMG Ranges depends on chuck type.



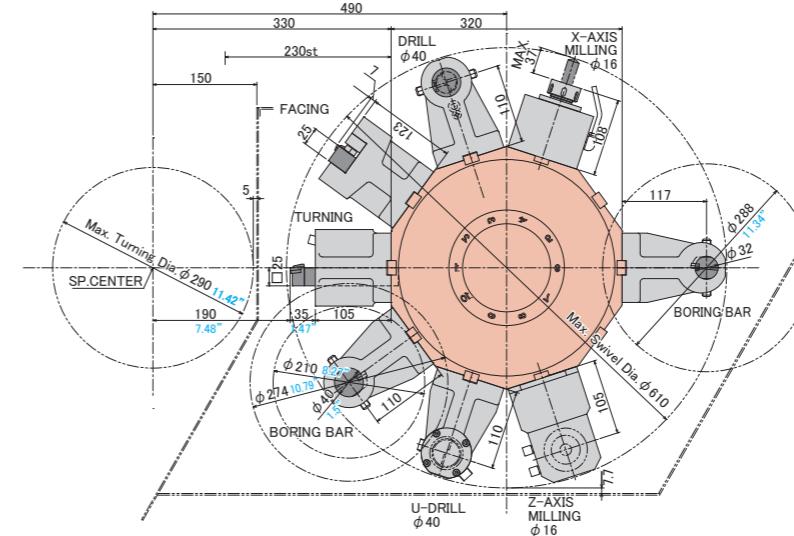
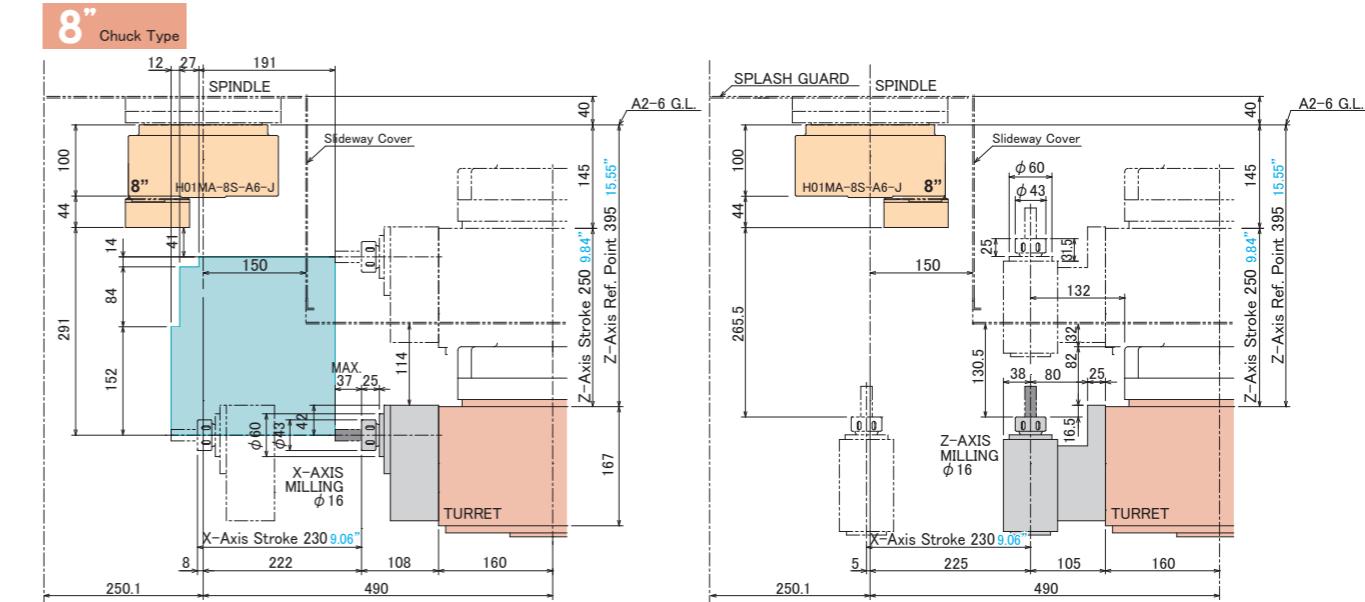
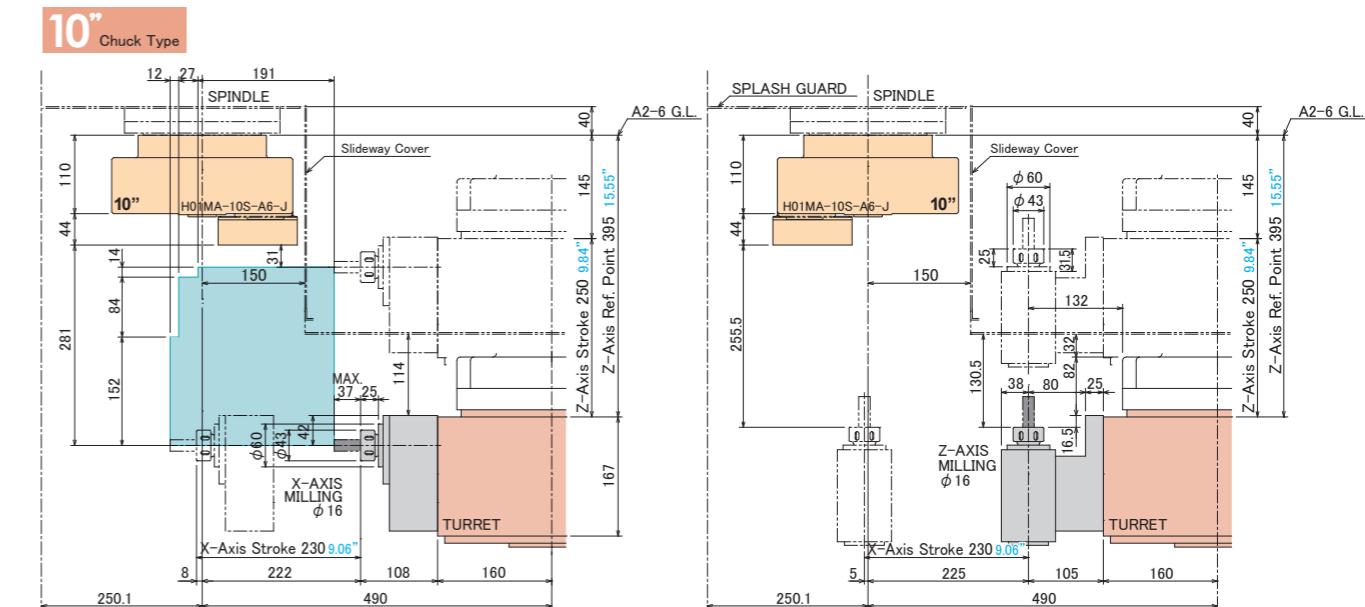
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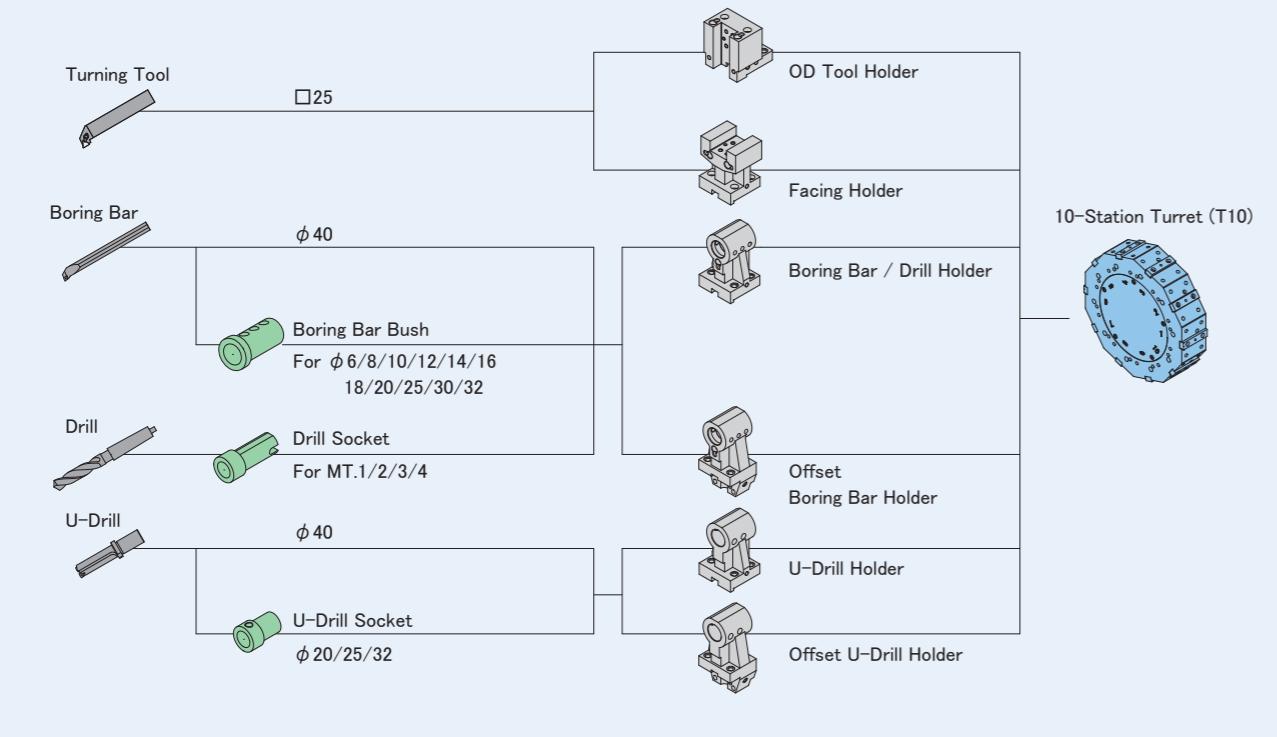


Turning / Milling Type T-2600CMG Ranges depends on chuck type.

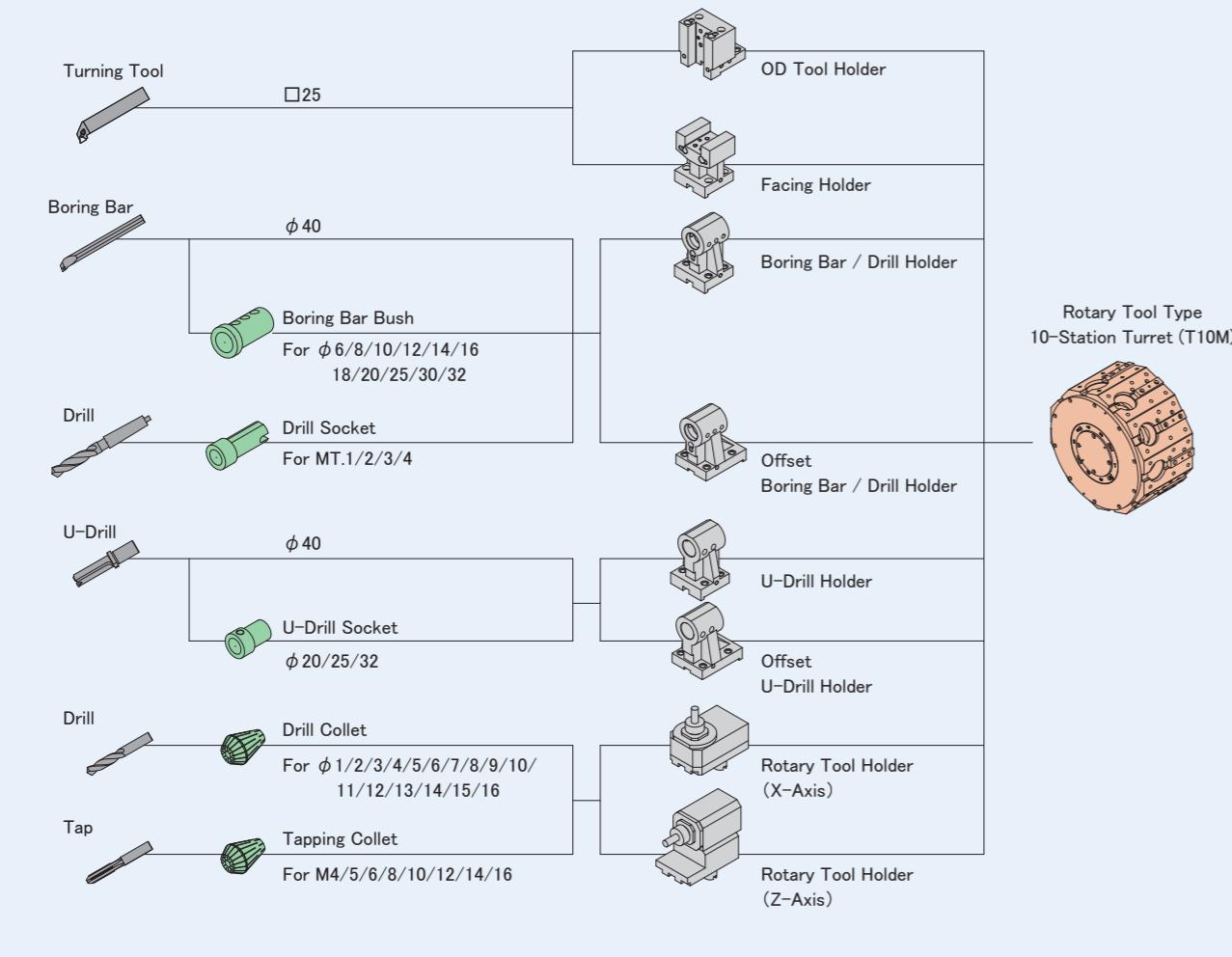


■ Tooling System

Turning Type TT-2600G/T-2600G

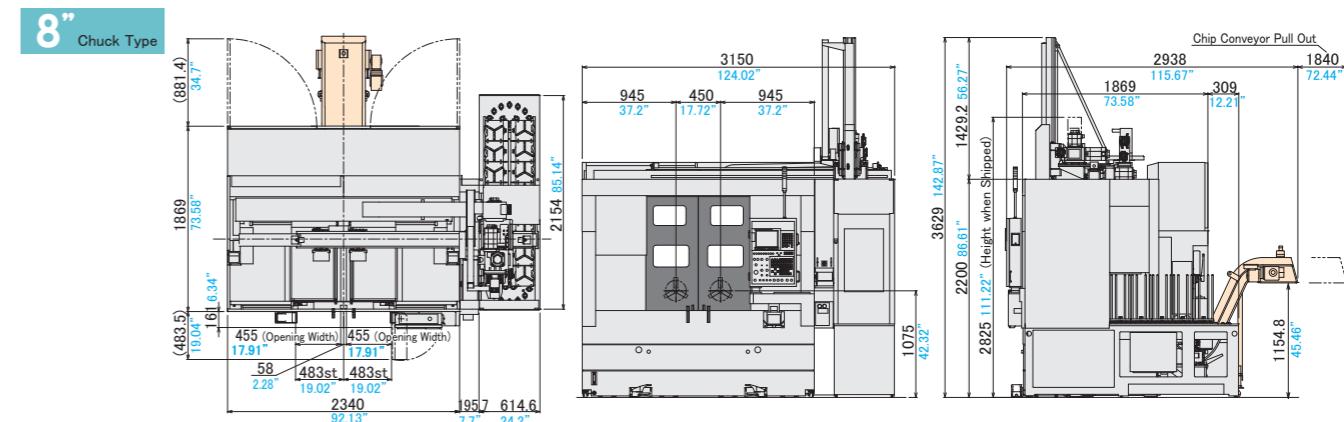
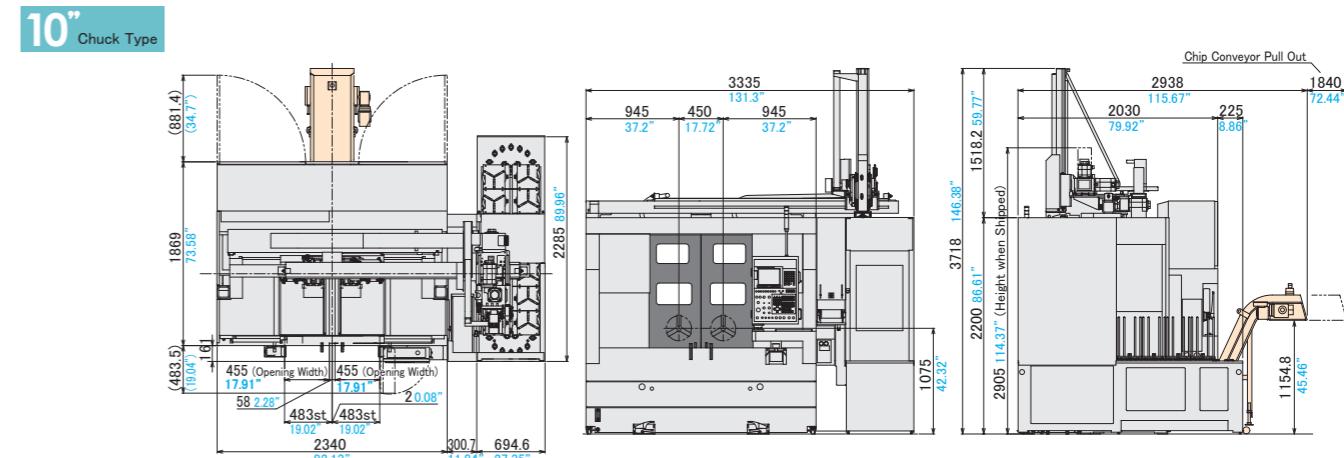


Turning / Milling Type TT-2600CMG/T-2600CMG

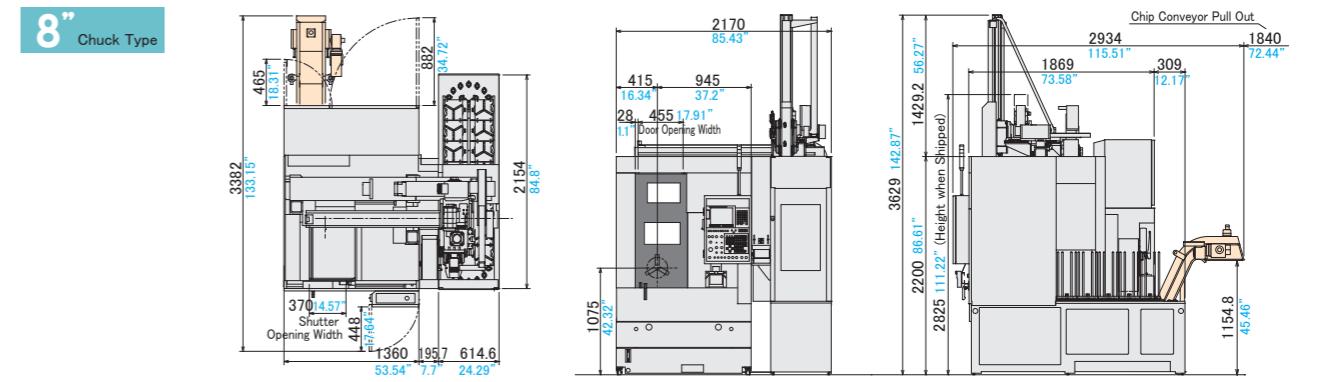
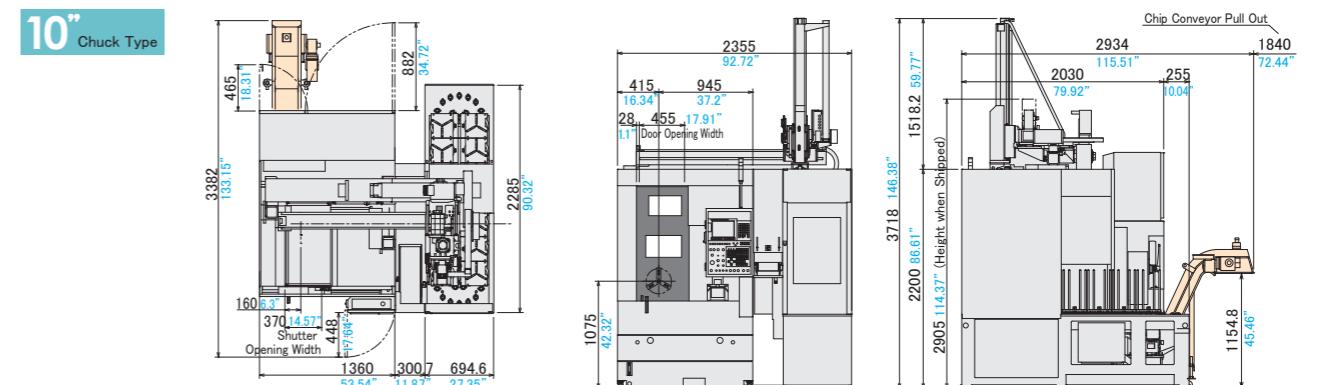


■ Machine Dimensions Unit : mm inch

TT-2600G / TT-2600CMG



T-2600G / T-2600CMG



TT-2600G

TAKISAWA®

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tkj-3@takisawa.co.jp (Asia)

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.

*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.



ISO 9001 Certified
JQA-2010
(Headquarters)



(Headquarters)

■ Overseas Network

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