

TAKISAWA®

CNC Lathe

**TCN-2100
TCN-2600**



Chosen from all over the world for its high cutting performance and versatility.

TCN-SERIES



TCN-2100
V.EDITION

TCN-2100 **TCN-2600**



8" Chuck		
C-C	L3	L6
Max. Turning Diameter	φ 410	φ 410
Max. Turning Length	300	600
Bar Capacity	51	51
Gantry Loader		

8" Chuck		
C-C	L3	L6
Max. Turning Diameter	φ 410	φ 410
Max. Turning Length	300	600
Bar Capacity	51	51
Gantry Loader C-Axis Milling TiwoP-I		

10" Chuck		
C-C	L3	L6
Max. Turning Diameter	φ 410	φ 410
Max. Turning Length	250	550
Bar Capacity	74 (OP.89)	74 (OP.89)
Gantry Loader C-Axis Milling TiwoP-I		

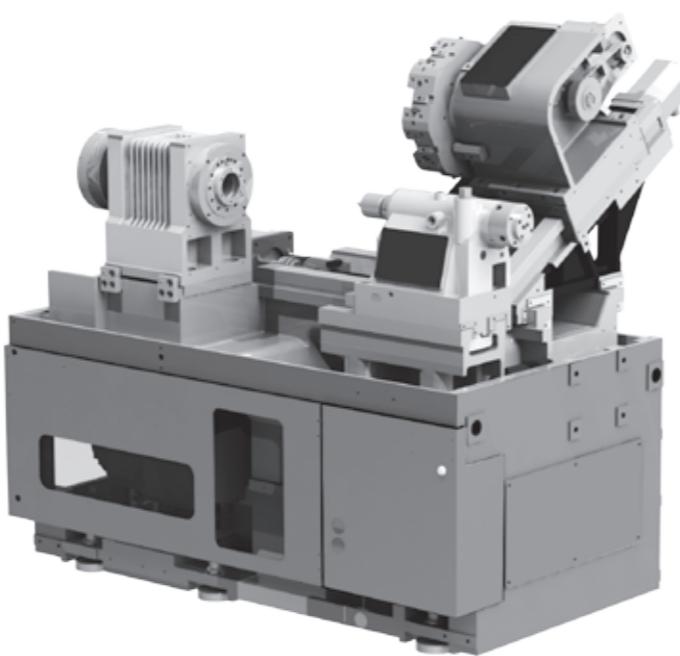
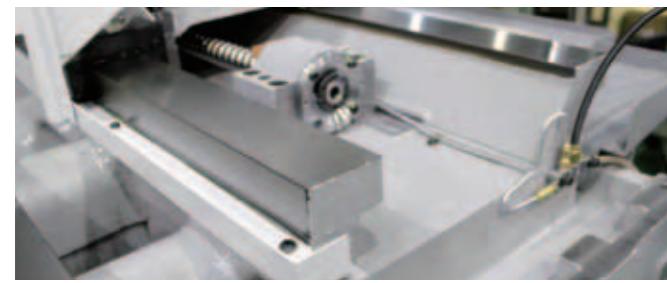
*1) TCN-2100CM/2600CM

Capability • Performance

Box Shaped Bed & Box Slide Way

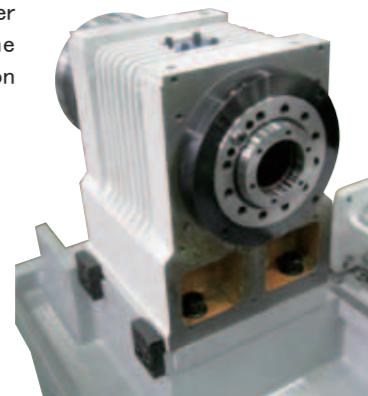
Box-shaped bed construction having very high rigidity resistive to thermal deformation.

Rectangular slideways excellent in high reliability and high durability owing to Takisawa's long experienced scraping (facing-up) technique are used in all axes. They contribute to keeping stable accuracy for a long time.



Highly Rigid Headstock

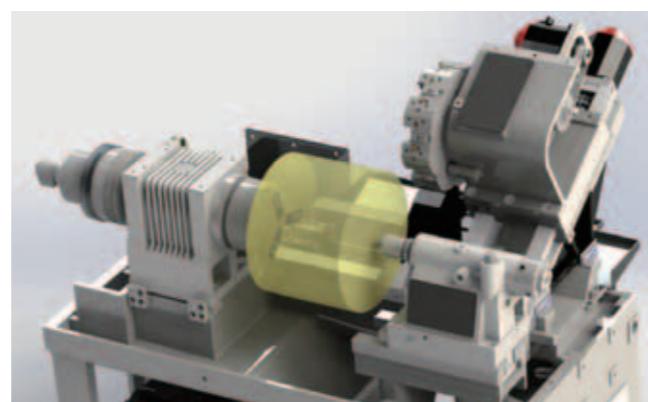
The headstock is designed for high torque and provides excellent cutting performance. Continuous rated torque is improved compared to former machines by reviewing the spindle motor and reduction ratio.



3200min ⁻¹ Type	TCN-2100	TCN-2100	TCN-2600
Output	11/7.5kW	11/9kW	11/9kW
Continuous Rated Torque	71.6N·m	114.6N·m	214.9N·m

Machining Range

The appearance is compact, but the machining range is wide. The rapid traverse rate is increased compared to our former machines to reduce machining time.



Max. Turning Diameter	φ410mm (T8)
Max. Turning Length	300mm (L3)
Rapid Traverse Rate	X-Axis 24m/min Z-Axis 30m/min

Compact & space saving, but operability-oriented.

The headstock, carriage, turret, and tailstock (option) are arranged on the tough box-shaped bed in an optimum balance to realize the compact and space saving machine.

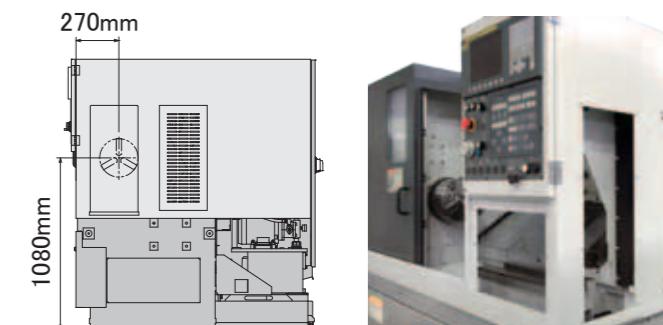
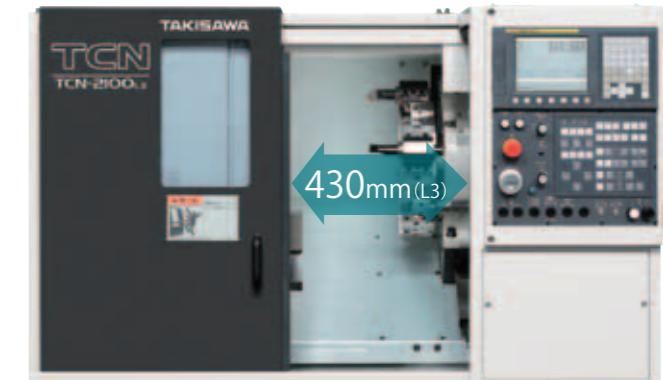
The machine is made thoroughly compact and space-saving, but the door opening is wide. It makes accessibility to the spindle excellent and tip change and setup change easy.

Door Opening Width : 430mm(L3)

Opening to Spindle Center Distance : 270 mm

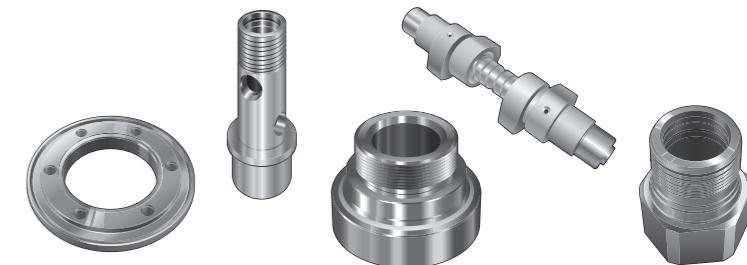
Height from Floor to Spindle Centerline : 1080mm

In addition to the maintenance window of former machines, a removable tailstock maintenance window is added under the operation panel to significantly improve setup property and maintainability.



Option

Takisawa has delivered many 8"/10"CNC lathes. Our machines can flexibly support various workpieces, such as flange workpiece and shaft workpiece. In addition, we can suggest optimum plans for customers considering automation.



ENERGY SAVING SYSTEM

- Power consumption reduction
Application of regenerative energy system helps generated energy return to the power supply when the motor is decelerating, saving power consumption.
Energy saving LED is used for internal lighting. Lighting shutoff function reduces standby power.
Control panel cooling system designed for power saving by utilising the natural heat dissipation.
With the coolant pump only running when required for use in program un necessary power consumption is avoided.
- Lubricant recovery box designed for reducing the amount of coolant waste.
- The powder coating machine for environmental concern.

Turning Model

TCN-2100 V.EDITION

While keeping the high performance dedicated for turning, V.EDITION has minimum required functions, providing excellent cost performance.

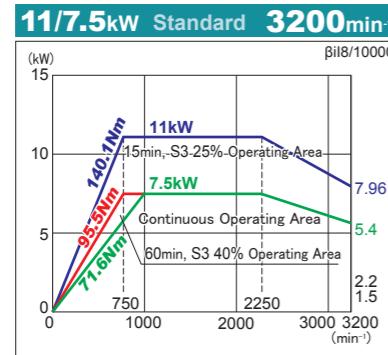
C-C	L3	L6
Max. Turning Diameter	φ 410	φ 410
Max. Turning Length	300	600
Bar Capacity	51	51

Gantry Loader



Highly Rigid Spindle

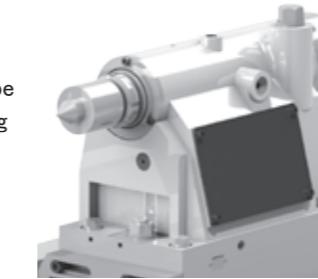
Highly efficient spindle motor delivers enough torque from low speed to high speed ranges.



Spindle Nose A2-6
Bearing Inside φ100mm
Diameter

Hydraulic Tailstock (Optional)

Supporting highly rigid hydraulic tailstock
Even shaft workpieces can be cut powerfully without paying attention to runout.



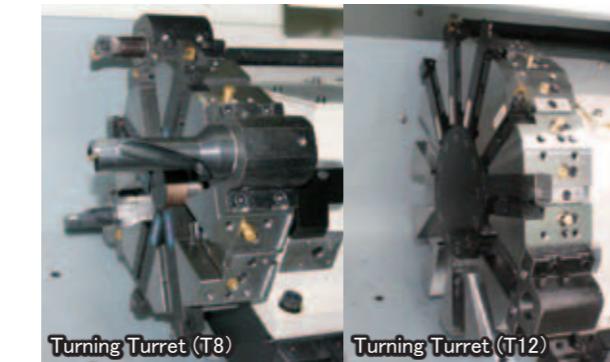
TCN-2100 V.EDITION

Tailstock Travel	115mm (L3), 415mm (L6)
Quill Travel	120mm
Quill Diameter	75mm
Quill Taper	MT No.4

Powerful Turret

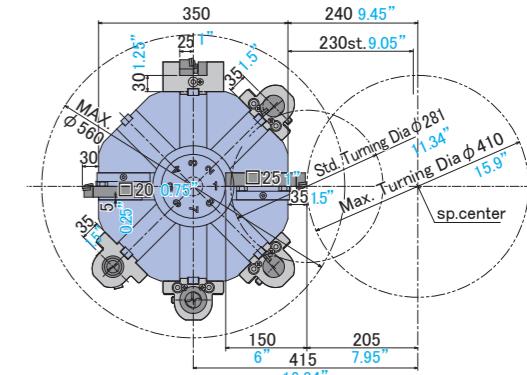
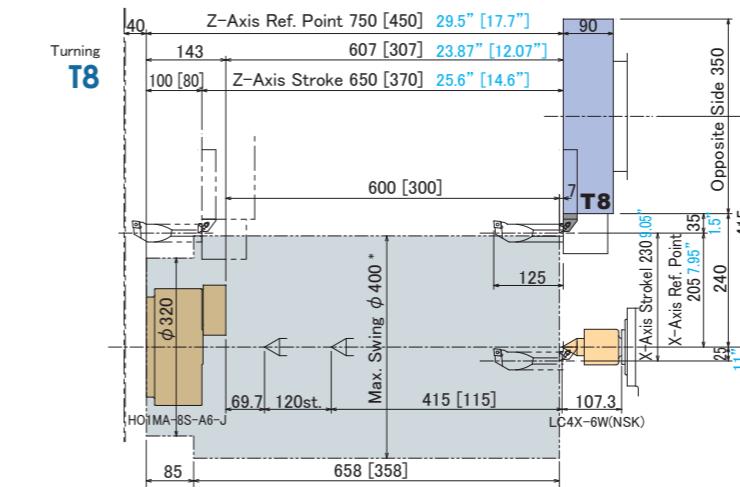
Turning Turret
Direct-mount type powerful turret.

Two types of 8-(Standard) and 12-(Option) station turret are available.

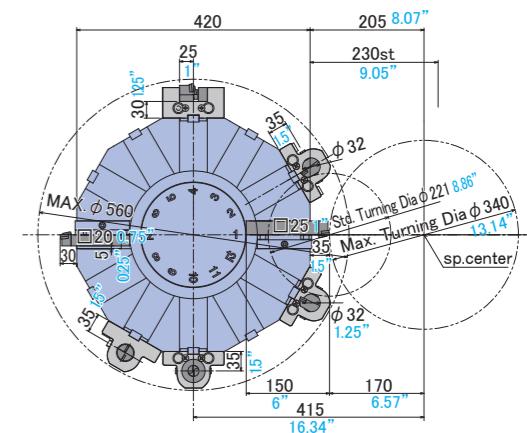
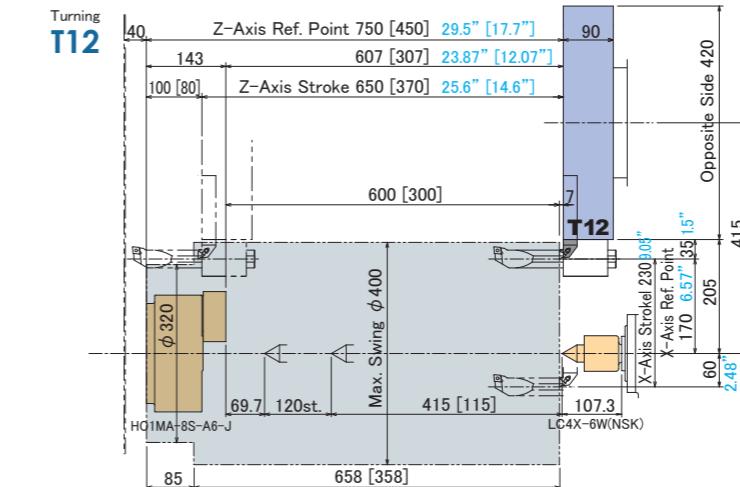


Interference • Travel Range

[] dimension are L3. [■] area are swing area.
Unit : mm inch



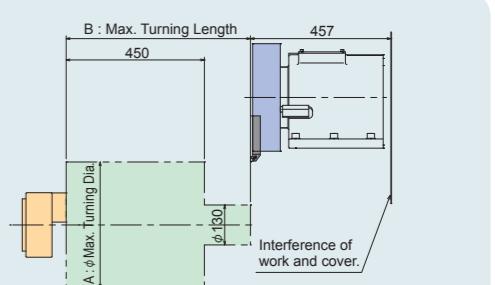
*) Although, Max Turning Dia is φ410mm, due to the interference with standard type front cover, Max turning Dia is limited to φ400mm.



The Limit of the Turning Range

Due to the spec. of L6, there might be the limit for maximum turning diameter depending on the work size.

Machine	C-C	Turret	Dimensions	
			A	B
TCN-2100	L6	T8	410	600
		T12	340	



TCN-2100

Additional machinings such as milling, drilling and tapping after turning can be performed by one chucking.

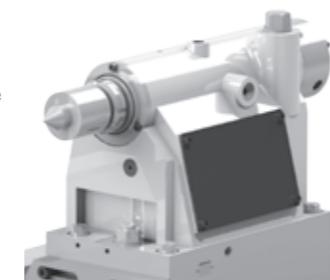
C-C	L3	L6
Max. Turning Diameter	$\phi 410$	$\phi 410$
Max. Turning Length	300	600
Bar Capacity	51	51

Gantry Loader C-Axis Milling TiwaP-I



Hydraulic Tailstock (Optional)

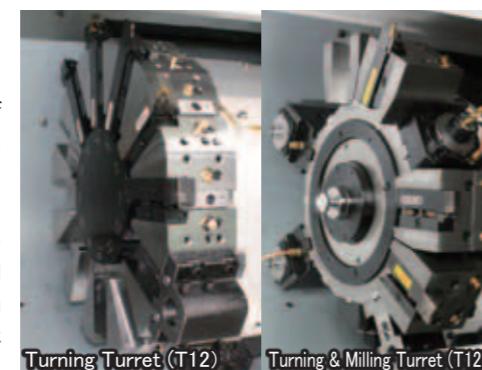
Supporting highly rigid hydraulic tailstock
Even shaft workpieces can be cut powerfully without paying attention to runout.



TCN-2100	
Tailstock Travel	115mm (L3), 415mm (L6)
Quill Travel	120mm
Quill Diameter	75mm
Quill Taper	MT No.4

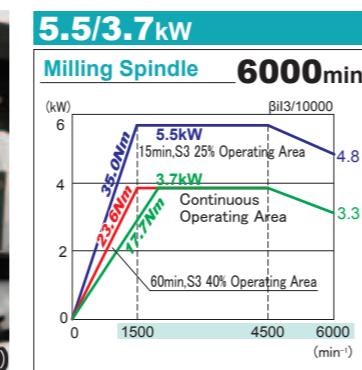
Powerful Turret

Turning Turret
Direct-mount type powerful turret. Two types of 8-(Standard) and 12-(Option) station turret are available.

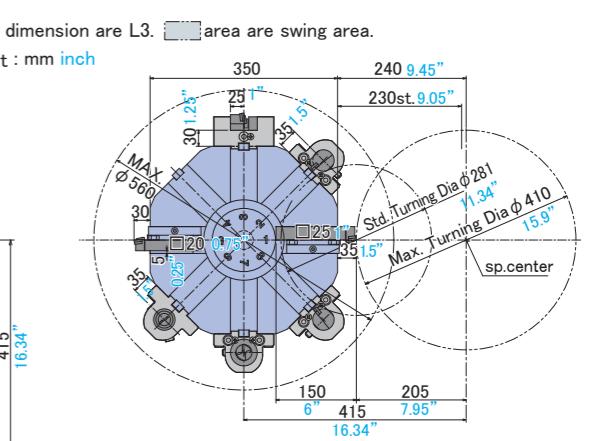
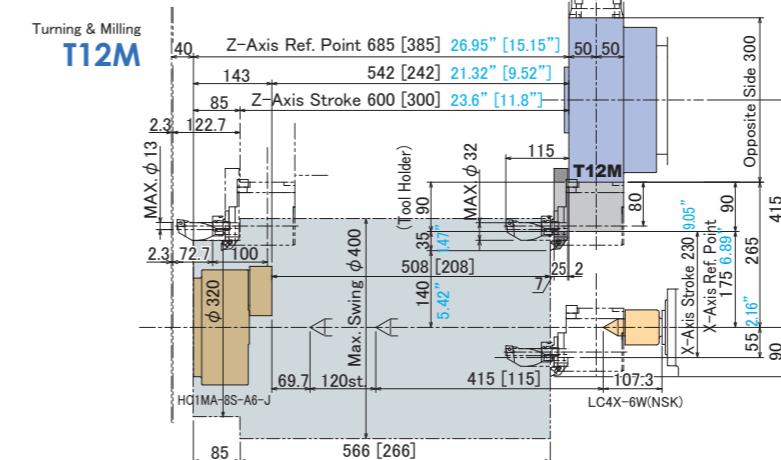
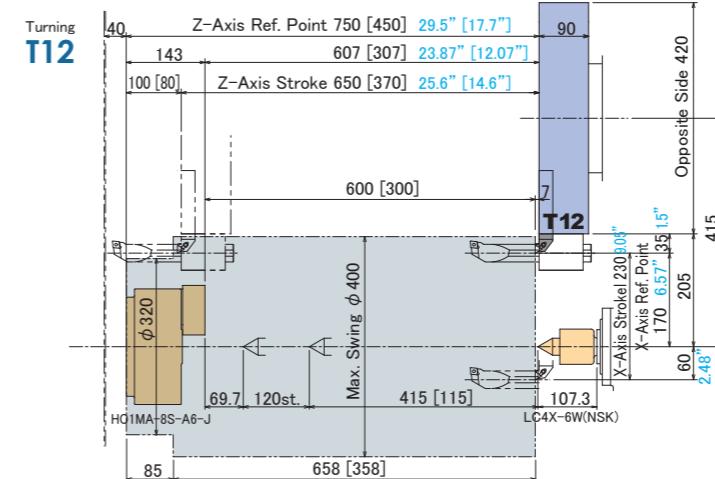
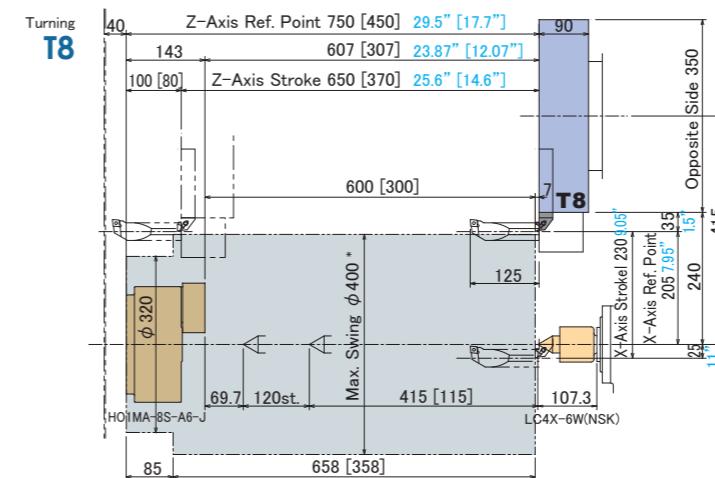


Turning & Milling Turret

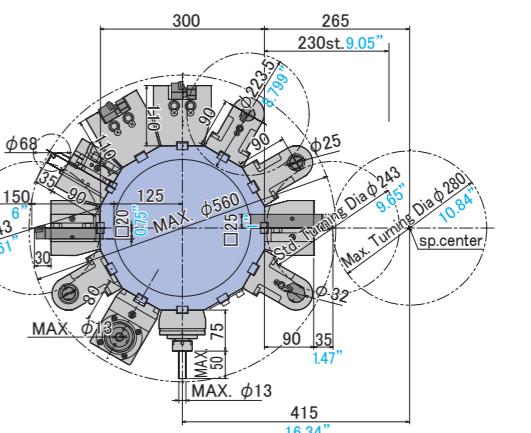
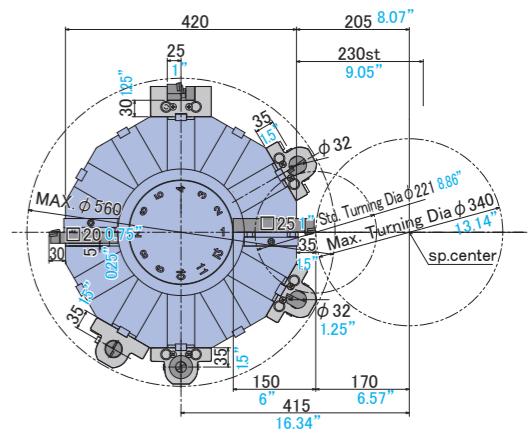
Holder type 12-station turret that allows the turning and milling tools to be attached to all station. The holder uses bolt tightening system to support heavy-duty cutting. Highly efficient 5.5/3.7kW milling motor is used for rotary tools.



Interference • Travel Range



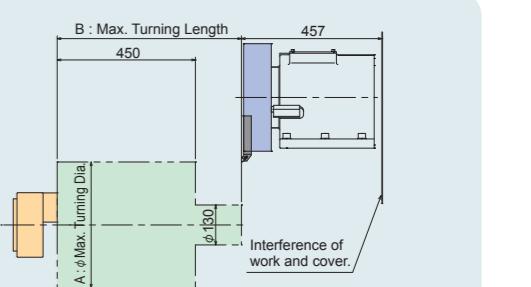
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The Limit of the Turning Range

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Machine	C-C	Turret	Dimensions	
			A	B
TCN-2100	L6	T8	410	600
		T12	340	



Turning Model, Turning & Milling Model

TCN-2600

The smallest space in 10"-Chuck class of machines. (L3) Highly efficient spindle motor achieves enough torque from low speed to high speed ranges.

C-C	L3	L6
Max. Turning Diameter	$\phi 410$	$\phi 410$
Max. Turning Length	250	550
Bar Capacity	74 (OP.89)	74 (OP.89)

Gantry Loader C-Axis Milling TiwaP-I



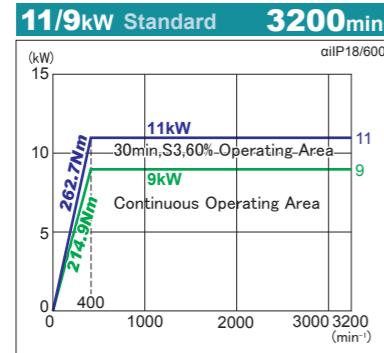
▲ TCN-2600L3

Highly Rigid Spindle

Highly efficient spindle motor delivers enough torque from low speed to high speed ranges.



Spindle Nose A2-8
Bearing Inside $\phi 120$ mm
Diameter OP. $\phi 150$ mm



Hydraulic Tailstock (Optional)

Supporting highly rigid hydraulic tailstock
Even shaft workpieces can be cut powerfully without paying attention to runout.



TCN-2600

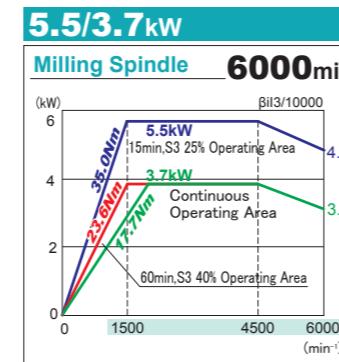
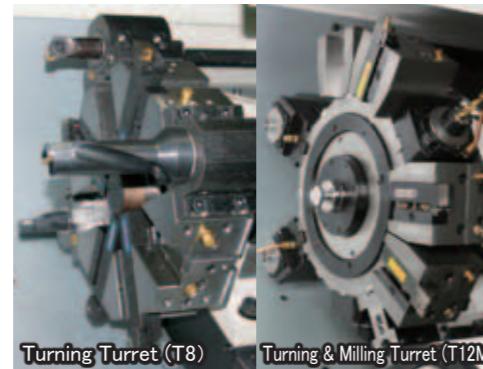
Tailstock Travel 115mm (L3), 415mm (L6)
Quill Travel 120mm
Quill Diameter 100mm
Quill Taper MT No.5

Powerful Turret

Turning Turret
Direct-mount type powerful turret.
8-station turret is available as standard.

Turning & Milling Turret

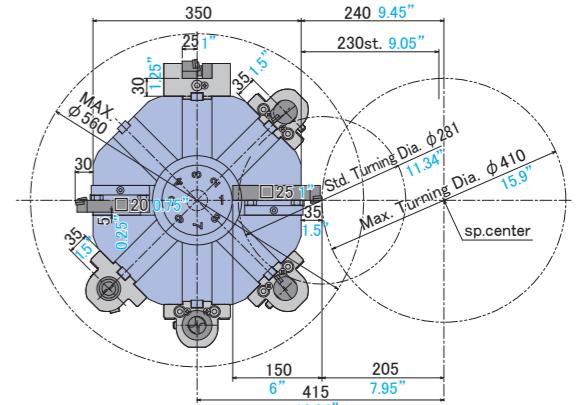
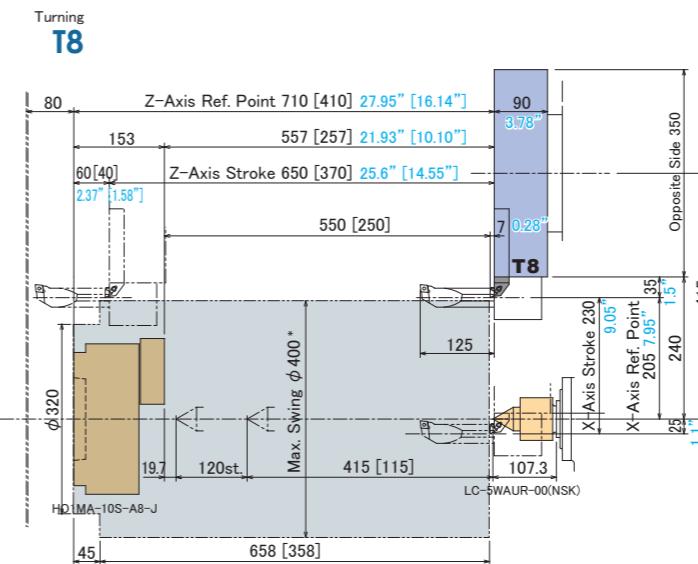
Holder type 12-station turret that allows the turning and milling tools to be attached to all stations. The holder uses bolt tightening system to support heavy-duty cutting. Highly efficient 5.5/3.7kW milling motor is used for rotary tools.



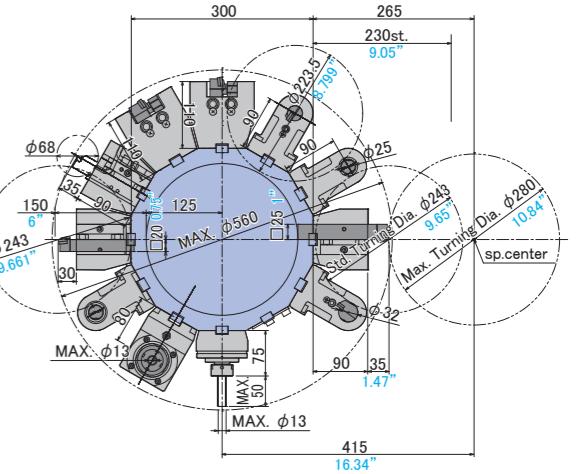
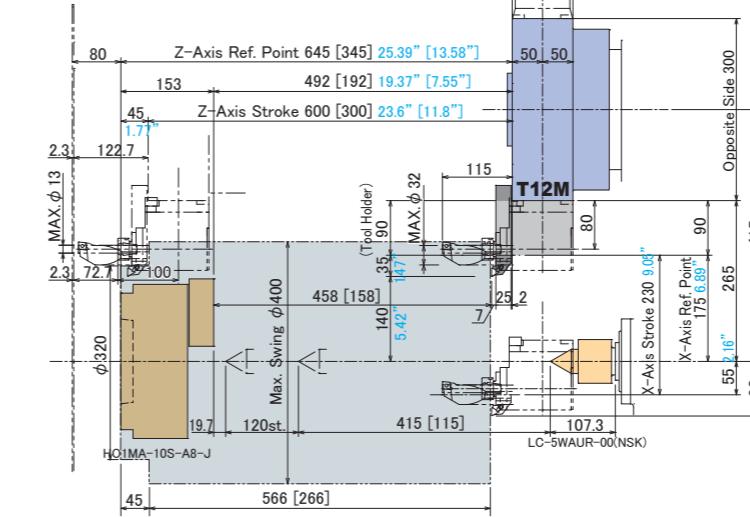
Interference • Travel Range

[] dimension are L3. ■ area are swing area.

Unit : mm inch



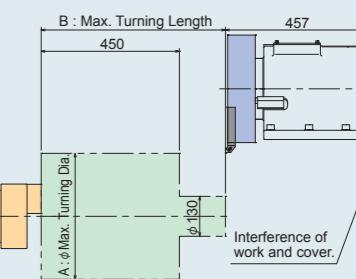
Turning & Milling T12M



The Limit of the Turning Range

Due to the spec. of L6, there might be the limit for maximum turning diameter depending on the work size.

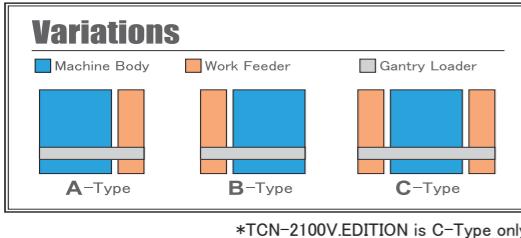
Machine	C-C	Turret	Dimensions	
			A	B
TCN-2600	L6	T8	410	550



High-Speed Gantry Loader System

We can propose automatic system configuration with high productivity according to workpieces.

Variations

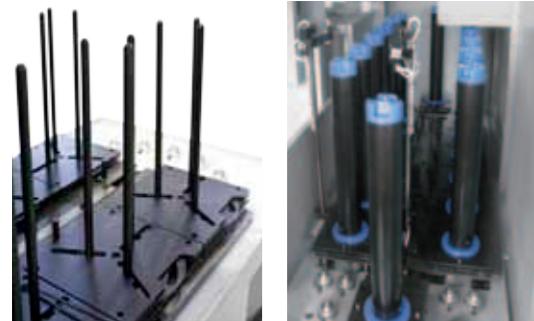


Supply/Discharge Unit

Standard : Work Feeder

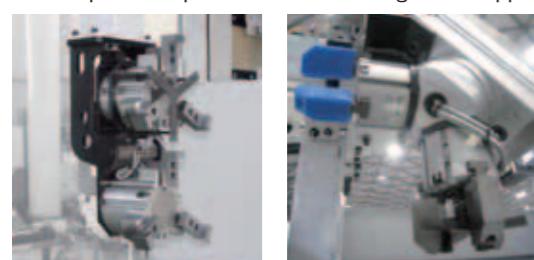
Three-guide-bar specification

Center pole specification



Loader Hand

We will provide optimum one according to the application.



Parallel type
(Example: for flange)

Swivel type
(Example: for palletizer)

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)
TCN-2100G	600mm	$\phi 160 \times 100$, 3kg
TCN-2600G	720mm	$\phi 200 \times 140$, 5kg



Perfect Dialogue Program Processor

Tiwap-1

Tiwap-1
Programming
Machining Simulation
Automatic Operation
Complete Support

Easy to See

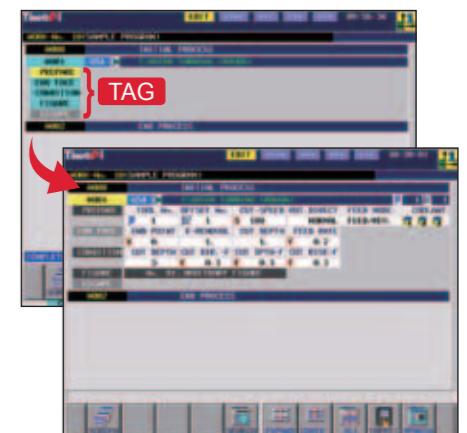
Takisawa original "Process expansions, folder function" and easy understandable icon makes higher visibility. Operator friendly, easily understandable main screen has been established.



Easy to Use

During preparing Program, "Reliable Guide Function" provides good support.

► "Reliable Guide Function"
By interactivity with the machine, only selecting the required program, the "Tag" will be arranged in the optimum order automatically.



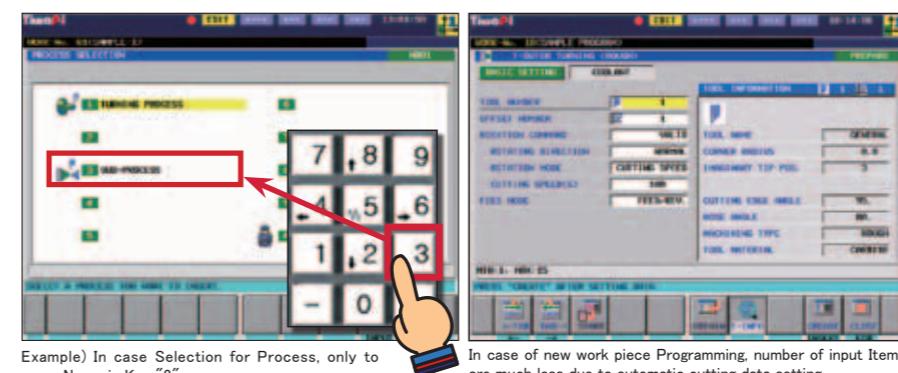
By just inserting Cutting data on each process Tag, the Process can be completed.

Speed Up

Menu Selection such as Process, Data selection can be easily done with minimum input due to Takisawa Standard initial Data (Tooling Data & Cutting Parameter)

► Tooling Data & Material Data

Depending on the Combination of work piece and Inserted Material, Cutting Parameter (Cutting Speed, Feed rate ,depth of cut) will be decided automatically and suggested to the operator. This will assist the operator greatly in set-up.

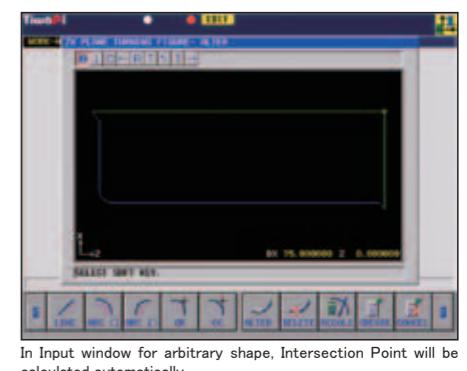


Machining Simulation

Tool paths can be certainly checked before test cutting by "3D Animation" or "Tool Tracking".

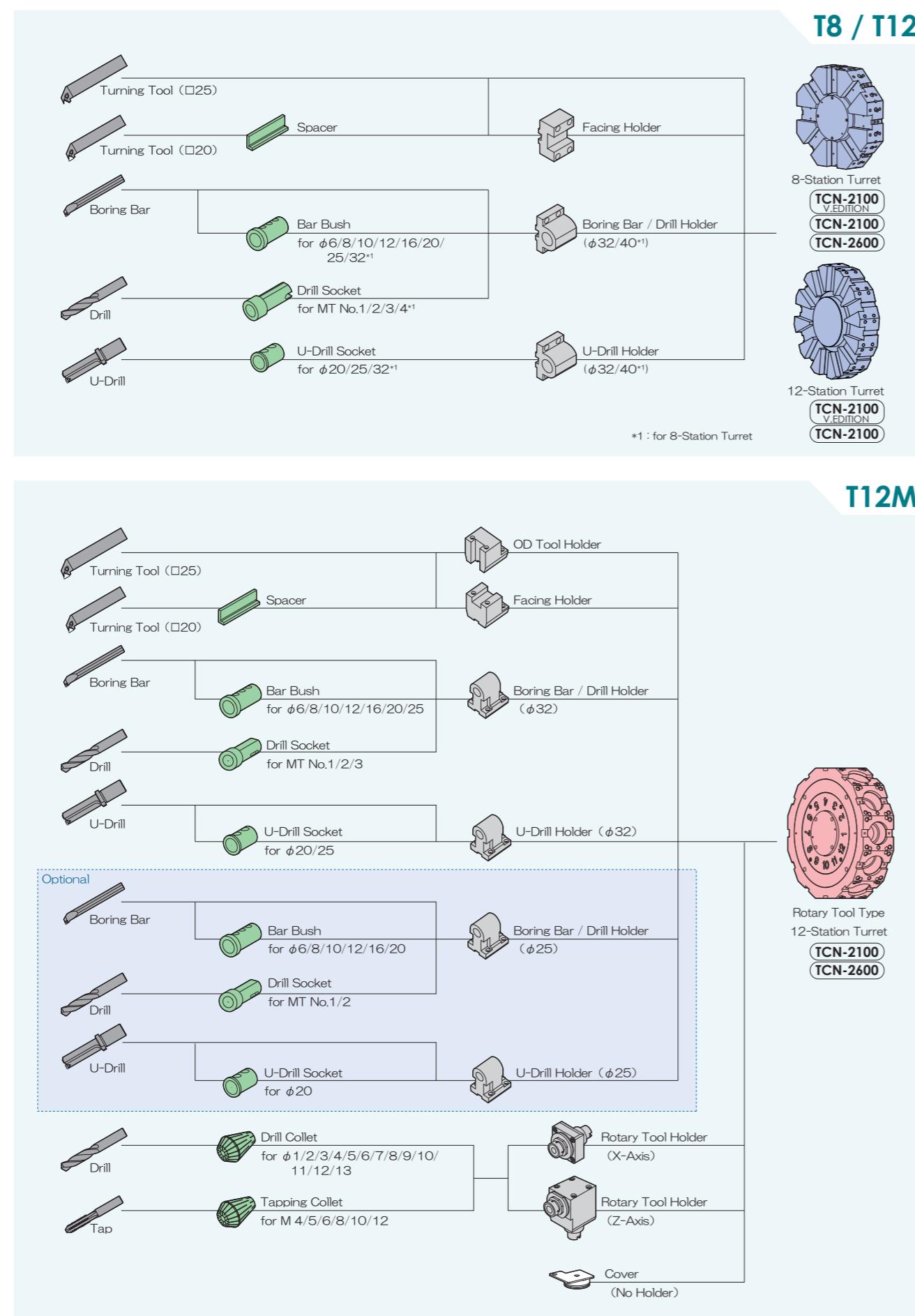


Suitable Cutting Data can be selected from reference Data Bank



In Input window for arbitrary shape, Intersection Point will be calculated automatically.

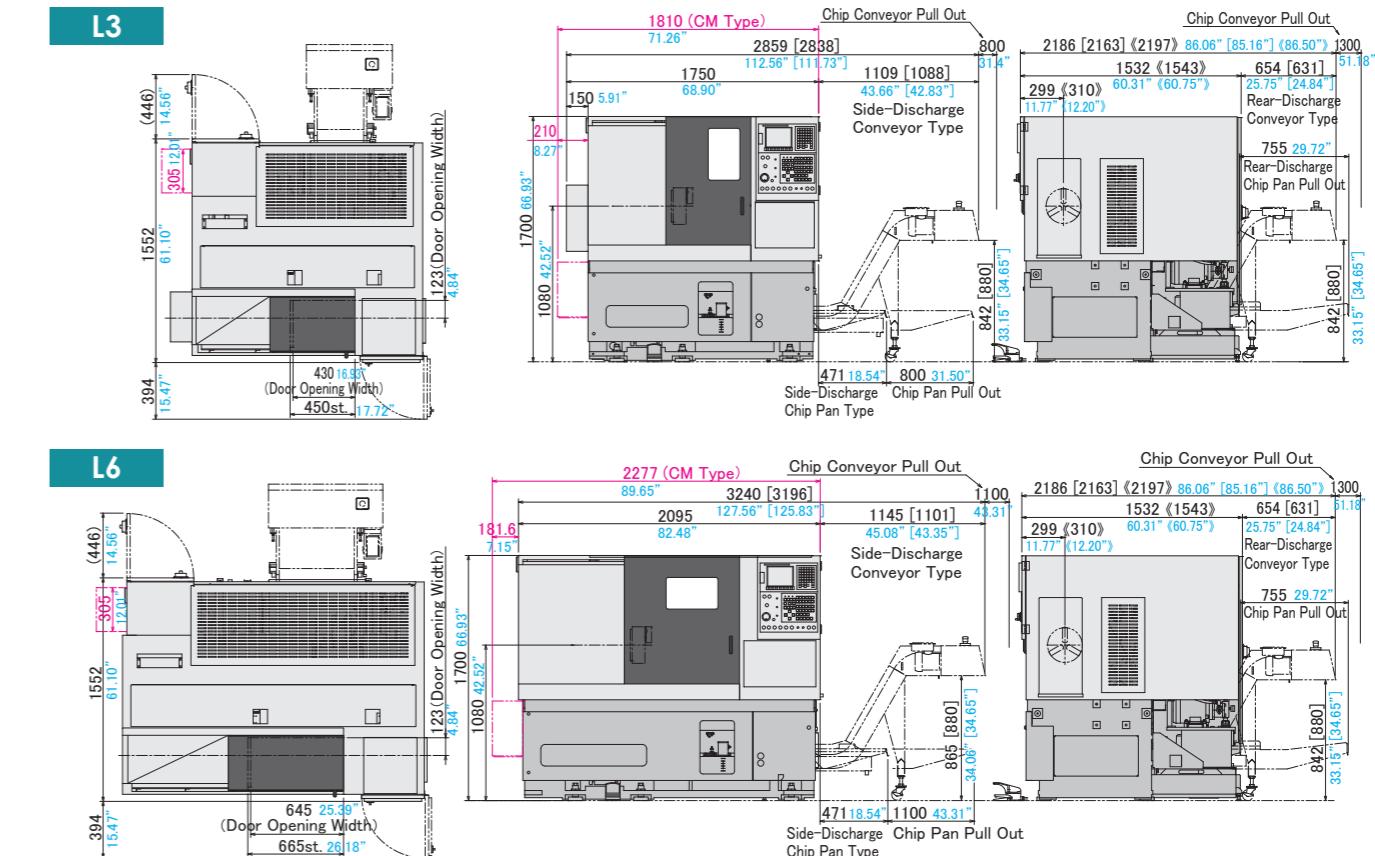
Tooling System



Machine Dimensions

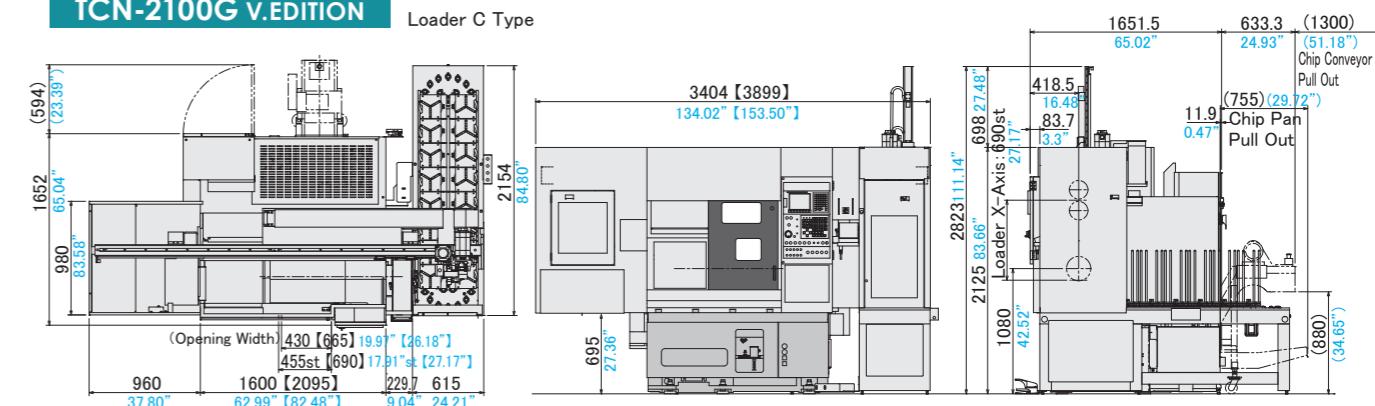
Unit : mm inch

It is TCN-2100, TCN-2100V.EDITION, TCN-2600 common Dimensions.
[] dimension are [TCN-2100V.EDITION], <> dimension are <>TCN-2600>

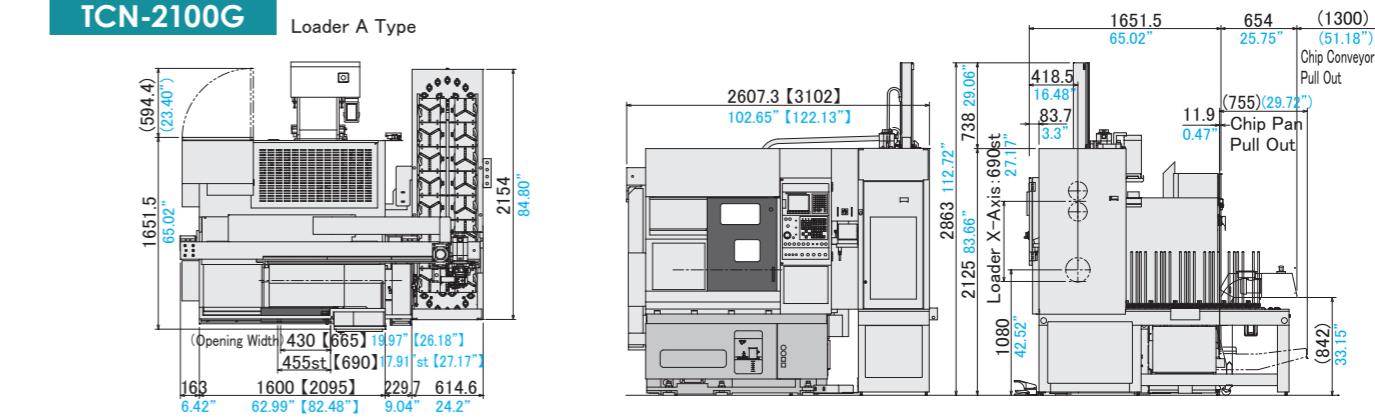


With Gantry Loader System [] dimension are [L6]

TCN-2100G V.EDITION



TCN-2100G



Machine Specifications

Items	TCN-2100L3 V.EDITION			TCN-2100L6 V.EDITION			TCN-2100L3		TCN-2100L6		TCN-2100CML3		TCN-2100CML6		TCN-2600L3		TCN-2600L6		TCN-2600CML3		TCN-2600CML6	
	8" Chuck			8" Chuck			8" Chuck		8" Chuck		8" Chuck		8" Chuck		T8		10" Chuck		T12M			
	Turret	T8	T12	T8	T12	T8	T12	T8	T12	T8	T12	T8	T12	T12M	T8	T12	T8	T12M				
Capability · Capacity	Maximum Swing *7	mm inch	400 15.75"	400 15.75"	400 15.75"	400 15.75"	400 15.75"	400 15.75"	400 15.75"	400 15.75"	400 15.75"	400 15.75"	400 15.75"	400 15.75"	400 15.75"	400 15.75"	400 15.75"	400 15.75"				
	Standard Turning Diameter	mm inch	281 11.34"	221 8.7"	281 11.34"	221 8.7"	281 11.34"	221 8.7"	281 11.34"	221 8.7"	243 9.65"	281 11.34"	243 9.65"	281 11.34"	243 *4 9.65"	281 11.34"	243 *4 9.65"	280 10.84"	280 10.84"			
	Maximum Turning Diameter *7	mm inch	410 15.9"	340 13.39"	410 *3 15.9"	340 *3 13.39"	410 15.9"	340 13.39"	410 *3 15.9"	340 *3 13.39"	280 10.84"	410 *3 15.9"	280 10.84"	410 *3 15.9"	280 10.84"	410 *3 15.9"	280 10.84"	410 *3 15.9"	280 10.84"			
	Maximum Turning Length	mm inch	300 11.81"	600 23.63"	300 11.81"	600 23.63"	300 11.81"	600 23.63"	300 11.81"	600 23.63"	208 8.19"	508 20"	250 9.85"	550 21.66"	158 6.22"	458 18.03"	158 6.22"	458 18.03"				
Travel	Bar Capacity *8	mm inch	51 2.01"	51 2.01"	51 2.01"	51 2.01"	51 2.01"	51 2.01"	51 2.01"	51 2.01"	51 2.01"	74 89	2.92" 3.5"	74 89	2.92" 3.5"	230 9.05"	230 9.05"	230 9.05"	230 9.05"			
	X-Axis Travel	mm inch	230 9.05"	230 9.05"	230 9.05"	230 9.05"	230 9.05"	230 9.05"	230 9.05"	230 9.05"	230 9.05"	230 9.05"	230 9.05"	230 9.05"	230 9.05"	230 9.05"	230 9.05"	230 9.05"				
Spindle	Z-Axis Travel	mm inch	370 14.6"	650 25.6"	370 14.6"	650 25.6"	370 14.6"	650 25.6"	370 14.6"	650 25.6"	300 11.8"	600 23.6"	370 14.6"	650 25.6"	300 11.8"	600 23.6"	300 11.8"	600 23.6"				
	Spindle Speed	min ⁻¹	3200	3200	3200	5000	3200	5000	3200	5000	3200	5000	3200	5000	3200	5000	3200	5000	3200	5000		
	Minimum Index Angle (C-Axis)	deg	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.001		
	Spindle Nose (Nom.Code)		A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6		
Turret	Spindle-Through Hole Diameter	mm inch	63 2.48"	63 2.48"	63 2.48"	63 2.48"	63 2.48"	63 2.48"	63 2.48"	63 2.48"	63 2.48"	63 2.48"	63 2.48"	63 2.48"	86 105	3.39" 4.13"	86 105	3.39" 4.13"	86 105	3.39" 4.13"		
	Bearing Inside Diameter	mm inch	100 3.94"	100 3.94"	100 3.94"	100 3.94"	100 3.94"	100 3.94"	100 3.94"	100 3.94"	100 3.94"	100 3.94"	100 3.94"	100 3.94"	120 150	4.72" 5.91"	120 150	4.72" 5.91"	120 150	4.72" 5.91"		
	Turret Type		Direct-Mount Type	Direct-Mount Type	Direct-Mount Type	Direct-Mount Type	Direct-Mount Type	Direct-Mount Type	Direct-Mount Type	Direct-Mount Type	All-Holder Type	All-Holder Type	All-Holder Type	All-Holder Type	All-Holder Type	All-Holder Type	All-Holder Type	All-Holder Type	All-Holder Type	All-Holder Type		
	Number of Tools		8	12	8	12	8	12	8	12	12	12	12	12	12	8	12	8	12	12	12	
Rotary Tool	Facing Tool Shank Height	mm inch	25 1.0"	25 1.0"	25 1.0"	25 1.0"	25 1.0"	25 1.0"	25 1.0"	25 1.0"	25 1.0"	25 1.0"	25 1.0"	25 1.0"	25 1.0"	25 1.0"	25 1.0"	25 1.0"	25 1.0"	25 1.0"		
	Boring Bar Shank Diameter	mm inch	40 1.5"	32 1.25"	40 1.5"	32 1.25"	40 1.5"	32 1.25"	40 1.5"	32 1.25"	32 1.25"	32 1.25"	32 1.25"	32 1.25"	32 1.25"	40 1.5"	32 1.25"	40 1.5"	32 1.25"	40 1.5"	32 1.25"	
	Number of Rotary Tools		—	—	—	—	—	—	—	—	—	—	—	—	—	12	—	—	—	—	12	
	Spindle Speed	min ⁻¹	—	—	—	—	—	—	—	—	—	—	—	—	—	6000	—	—	—	—	6000	—
Tailstock	Maximum Tool Shank Diameter	mm inch	—	—	—	—	—	—	—	—	—	—	—	—	—	13 0.52"	—	—	—	—	13 0.52"	—
	Tool Spindle Taper Hole (Nom.Code)		—	—	—	—	—	—	—	—	—	—	—	—	—	AR20	—	—	—	—	AR20	—
	Tool Spindle Bearing Inside Diameter	mm inch	—	—	—	—	—	—	—	—	—	—	—	—	—	30 1.19"	—	—	—	—	30 1.19"	—
	Tailstock Travel	mm inch	115 4.53"	415 16.34"	115 4.53"	415 16.34"	115 4.53"	415 16.34"	115 4.53"	415 16.34"	115 4.53"	415 16.34"	115 4.53"	415 16.34"	115 4.53"	415 16.34"	115 4.53"	415 16.34"	115 4.53"	415 16.34"		
Feedrate	Quill Diameter	mm inch	75 2.95"	75 2.95"	75 2.95"	75 2.95"	75 2.95"	75 2.95"	75 2.95"	75 2.95"	75 2.95"	75 2.95"	75 2.95"	75 2.95"	100 3.94"	—	—	—	—	100 3.94"	—	
	Quill Taper		MT.4	MT.4	MT.4	MT.4	MT.4	MT.4	MT.4	MT.4	MT.4	MT.4	MT.4	MT.4	MT.4	MT.5	MT.5	—	—	—	—	MT.5
	Quill Travel	mm inch	120 4.73"	120 4.73"	120 4.73"	120 4.73"	120 4.73"	120 4.73"	120 4.73"	120 4.73"	120 4.73"	120 4.73"	120 4.73"	120 4.73"	120 4.73"	120 4.73"	120 4.73"	120 4.73"	120 4.73"	120 4.73"		
	Rapid Traverse Rate	m/min ipm	X:24 / Z:30 X:944.8																			

TCN-2100/TCN-2600

NC Unit Specifications

FANUC : Oi-TF (Type 1, Type 5)

* Please contact our sales persons
for further information.

Software

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

Gantry Loader Type Standard Accessory

RAKU-RAKU Monitor 3

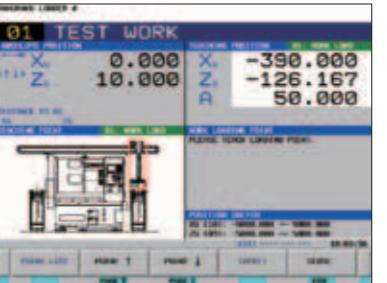
Easy and convenient multi-functional softwares that can perform the tool life management, cutting load monitoring, group control, and also run information collection, Cp (process capability) calculation, and periodic offset addition.



▲ RAKU-RAKU Monitor 3

RAKU-RAKU Loader 4

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



▲ RAKU-RAKU Loader 4

Measurement Monitor 3

[Optional Accessories]

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	TCN-2100 V.EDITION		TCN-2100, TCN-2600	
	Standard	Gantry Loader Type	Standard	Gantry Loader Type
Oi-TF	Type-5		Type-1	
[NC Unit]				
8.4"Color LCD/MDI	●	●	●	●
10.4"Color LCD	-	-	Tiwap	Tiwap
[Software]				
RAKU-RAKU Monitor 3	-	●	○	●
RAKU-RAKU Loader 3	-	-	-	Tiwap
RAKU-RAKU Loader 4	-	●	-	●
Measurement Monitor 3 *1	-	◎	◎	◎
Tiwap-1	-	-	○	○
[Safety Devices]				
Front Door Interlock	●	●	●	●
Front Door Locking Mechanism	○	○	○, CE	○, CE
Dual Check Safety	-	-	CE	CE
Control Panel Breaker with Tripper	○	○	○	○

Main Function List

Specifications·Contents	TCN-2100 V.EDITION		TCN-2100 TCN-2600	
	Oi-TF	Type-5	Type-1	

[Controlled Axes]

Least Input Increment *2	●	●
Max. Programmable Dimension (± 999999.999)	●	●
Cs Contouring Control	-	CM
Increment System C *3	▲	▲
Inch/Metric Conversion	●	●
Interlock	●	●
Machine Lock *4	○	○
Emergency Stop	●	●
Stored Stroke Check 1	●	●
Stored Stroke Check 2, 3 *5	▲	▲
Stored Limit Check Before Move	○	▲
Chuck and Tail Stock Barrier *6	○	▲
Mirror Image (Each Axis)	▲	▲
Chamfering ON/OFF	●	●
Unexpected Disturbance Torque Detection Function *7	G	▲
Position Switch	○	○

[Operation]

Automatic Operation (Memory)	●	●
MDI Operation	●	●
DNC Operation *8 *17	○	○
DNC Operation with Memory Card *8 *9	○	○
Program Number Search	●	●
Sequence Number Search	●	●
Sequence Number Comparison and Stop	●	●
Wrong Operation Prevention	▲	▲
Buffer Register	●	●
Dry Run	●	●
Single Block	●	●
Manual Continuous Feed (JOG)	●	●
Manual Reference Position Return	●	●
Reference Position Setting without DOG	●	●
Manual Handle Feed, 1 Unit	●	●

[Interpolation 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, Synchronous Cutting	●	●
Multi Threading	●	●
Thread Cutting Retract	●	●
Continuous Threading	●	●
Variable Lead Thread Cutting	●	●
Reference Position Return (G28)	●	●
Reference Position return Check (G27)	●	●
2nd Reference Position Return (G30)	●	●
3rd, 4th Reference Position Return	○	○

Specifications·Contents	TCN-2100 V.EDITION		TCN-2100 TCN-2600	
	Oi-TF	Type-5	Type-1	

[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 Acceleration/Deceleration	●	●
Linear Acceleration/Deceleration After Cutting	●	●
Feed Interpolation	●	●
Feedrate Override (15 Steps)	●	●
Jog Override (15 Steps)	●	●
Override Cancel	●	●
Manual per Revolution Feed	▲	▲

[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)	○	○
Program File Name 32 Characters	●	●
Sequence Number N8 Digits	●	●
Absolute/Incremental Programming	●	●
Decimal Point Programming/Pocket Calculator	●	●
Type Decimal Point Programming	●	●
Diameter/Radius Programming (X-Axis)	●	●
Coordinate System Setting (G50)	●	●
Automatic Coordinate System Setting	●	●
Direct Drawing Dimension Programming *10	▲	▲
G-Code System A	●	●
G-Code System B/C	▲	▲
Chamfering/Corner R *11	●	●
Programmable Data Input (G10)	●	●
Sub Program Call (10 Levels)	●	●
Custom Macro	●	●
Additional Custom Macro Common Variables	●	●
Canned Cycle	●	●
Multiple Repetitive Cycles	●	●
Multiple Repetitive Cycles II	●	●
Canned Cycle for Drilling	●	●
Circular Interpolation by R Programming	●	●
Coordinate System Shift	●	●
Direct Input of Coordinate System Shift	●	●

[Auxiliary / Spindle Speed Function]

Miscellaneous Functions (M8 Digits)	●	●
2nd Auxiliary Functionn (B8 Digits)	○	●
Spindle Speed Function (S5 Digits)	●	●
Constant Surface Speed Control	●	●
Spindle Orientation	●	●
Rigid Tap	●	●

[Tool Functions / Tool Compensation]

Tool Function (T2+2 Digits)	●	●
Tool Offset Pairs 99-pairs	●	●
Tool Offset Pairs 128-pairs	▲	▲
Tool Offset Pairs 200-pairs	-	○
Tool Offset	●	●
Tool Radius • Tool Nose Radius Compensation	●	●
Tool Geometry/Wear Compensation	●	●
Tool Offset Value Counter Input	●	●
Direct Input of Tool Offset Value Measured	●	●
Direct Input of Tool Offset Value Measured B *12	○	○
Tool Life Management *13	●	●
Tool Geometry Size Data, 100 Pieces	-	Tiwap

TCN-2100

TCN-2600

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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.

*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
(Head Office)



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■ Overseas Network

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