FUJI
innovative spirit

TNII SERIES

High Efficiency
Proven Reliability

Excellent Thermal Displacement Properties

With improvements to thermal displacement properties - Higher cutting accuracy can be achieved with minimum programming and setup times.

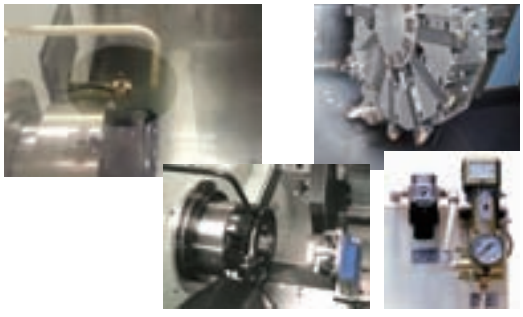
Small Footprint

TNⅡ Series helps to optimize shop floor space with it's compact size and high rigidity.

Enhance Productivity

Process Enhancements

Optional equipment for the TNⅡ series will improve machine flexibility and provide customers with an optimum production system.



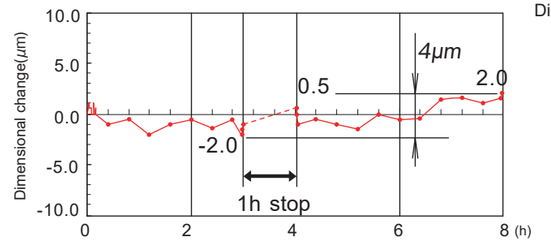
Operational Efficiency

FUJI new HMI designed for ease of use and operation.

Designed with Efficiency in Mind

With improvements to thermal displacement properties - Higher cutting accuracy can be achieved with minimum programming and setup times.

■ TN300Ⅱ



Dimensional change after 8h running **4.0μm**

Dimensional change after 1h stop **2.0μm**

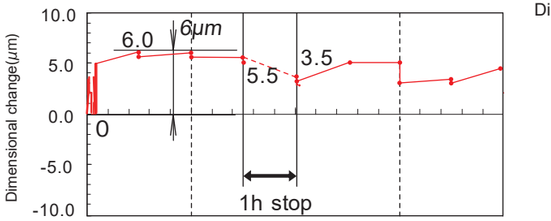
(O.D.cutting dia.ϕ50mm)

Cutting speed (min^{-1})	1200 (O.D.)
Feed speed (mm/rev)	0.1
Cutting depth (mm)	0.1
Cycle time (sec)	45
Material	AL

Room temperature : 23℃±1℃
Machining with coolant

The above-mentioned data is actual values, but not a performance guarantee.

■ TN400Ⅱ



Dimensional change after 8h running **6.0μm**

Dimensional change after 1h stop **2.0μm**

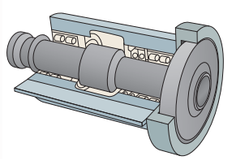
(O.D.cutting dia.ϕ50mm)

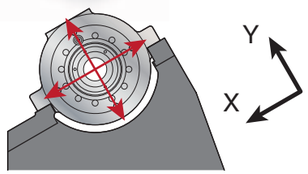
Cutting speed (min^{-1})	1200 (O.D.)
Feed speed (mm/rev)	0.1
Cutting depth (mm)	0.1
Cycle time (sec)	45
Material	AL

Room temperature : 23℃±1℃
Machining with coolant

The above-mentioned data is actual values, but not a performance guarantee.

Zero-center Type Headstock

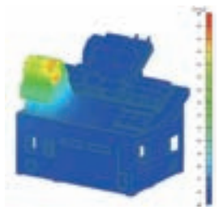




The zero-center type headstock has a thermally symmetrical design, which keeps thermal displacement to the absolute minimum. The air purge mechanism of the headstock completely protects the headstock against cutting oil and chips. This mechanism, along with grease lubrication, assures long-term processing accuracy.

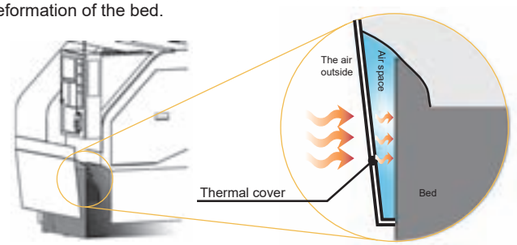
Optimal Bed Configuration

Fuji engineered bed is designed to be highly rigid while minimizing thermal displacement. In this design, both the feedback of the latest CAE analysis and the actual result are optimized.



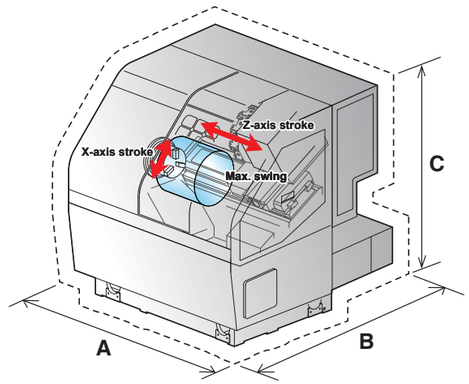
Thermal cover

Air space in left in the thermal cover to prevent the sudden temperature change of the bed caused by the air outside, and minimize the deformation of the bed.



Space Utilization

TNⅡ Series helps to optimize shop floor space with it's compact size and high rigidity.



TN300Ⅱ		
Machine size (A×B×C)	mm	1600×1766×1699
Max. swing	mm	ϕ580
X-axis stroke	mm	205
Z-axis stroke	mm	385

TN400Ⅱ		
Machine size (A×B×C)	mm	1900×2001×1827
Max. swing	mm	ϕ620
X-axis stroke	mm	265
Z-axis stroke	mm	465

■ TN300Ⅱ

Max.O.D.cuttingstock **7mm**

Max.Grooving width **10mm**

■ TN400Ⅱ

Max.O.D.cuttingstock **9mm**

Max.Grooving width **15mm**

Material	Cutting speed (m/min)	Feed speed (mm/rev)
S45C	150	0.3

Material	Cutting speed (m/min	Feed speed (mm/rev)
S45C	100	0.1

The above-mentioned data is actual values, but not a performance guarantee.

High speed indexing turret

Cam type turret by servo motor for high speed indexing to reduce cycle time.

	Number of tool stations	Index time
TN300Ⅱ	10	0.3
TN400Ⅱ	12	0.4

The above-mentioned data is actual values, but not a performance guarantee.

Tailstock

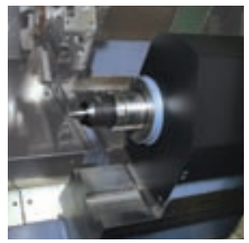
Shaft machining is available with tailstock.

TN300Ⅱ

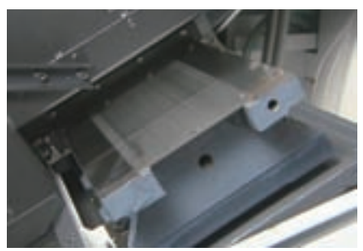
Quill stroke	180 or 230mm
Center type	Live Center MT.4
	Built-in Center MT.3

TN400Ⅱ

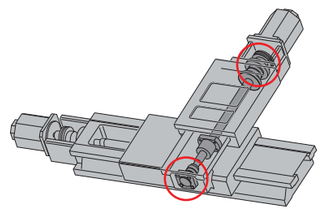
Quill stroke	180 or 230mm
Center type	Live Center MT.5
	Built-in Center MT.4



High rigidity slide



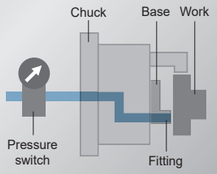
Box way slide for long term operation with and high reliability.
The bearing rigidity has been improved by up to 140% with the design upgrade to 3 rows of X-axis support bearings.
More stable machining for a long term and heavy duty cutting is possible.



Process Enhancement

Optional equipment for the TNⅡ series will improve the machine flexibility and provide customers with an optimum production system.

Air Confirmation



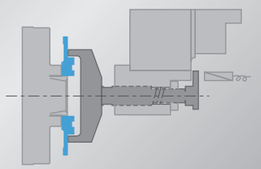
Confirms that the part is securely up against the locator.
If air confirmation is not made, the cutting process does not begin.

Auxiliary loader

Mounted on the Z axis slide, the auxiliary loader unloads the processed work from the spindle chuck, which allows the cleaning of the work holding (option) prior to a raw part being loaded into the work holding.

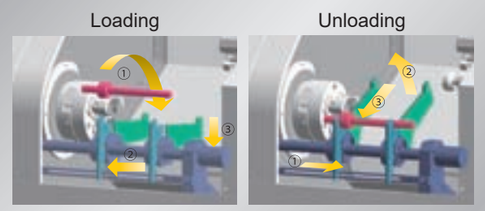
※ Can't mount tailstock at the same time.

Work Pusher



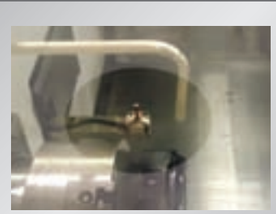
Work pusher device can be installed on the turret to push the part into the chuck utilizing z-axis on the turret slide. This ensures that the workpiece is up against the locator. When used in conjunction with air confirmation, a stable process is achieved.

SWS type loading/unloading device



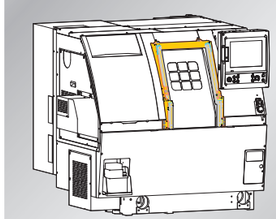
The loading & unloading is operated by swinging and sliding the device. The mechanism which all motions are actuated by one cylinder is simple and reliable.

Tool Detector



This single unit performs three tasks : automatic tool compensation, tool damage and tool setting. An air blow off is provided near the sensor to prevent inaccuracies due to cutting chips or coolant.

Light Curtain



Installation of a light curtain can enhance operator safety while the door is opening/closing and avoid re-cutting the machined part again without unloading the previously machined part.

Other options

◯Spindle coolant ◯Control panel cooler ◯Bar Feeder & I/F
◯Mist collector ◯Various chip conveyor

Ease of use and operation has been improved by controlling NC and robots with FANUC control. Workpieces can be loaded and unloaded faster than ever resulting in reduced cycle times and increased efficiency.

L67 Gantry Robot

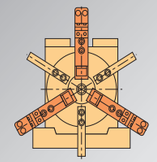
The main and sub slides work in tandem for the vertical axis, minimizing the height of the gantry above the machine. The robot hand is hydraulically actuated improving clamping force on the work piece.

Specifications

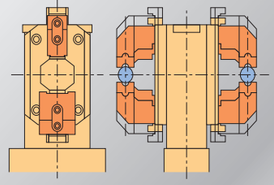
		L672HⅡ	L673HⅡ	L672BⅡ
Machine model		TN300Ⅱ	TN400Ⅱ	TN400ⅡR
Maximum traverse speed	m/min	100	100	66
Maximum up/down speed	m/min	73	73	30
Carring capacity	kg	5+5	5+5	10+10
	mm	ø200 × 80	ø200 × 80	ø300 × 120
Robot chuck stroke(dia)	mm	ø25 [OP:40]	ø25 [OP:40]	ø30 [OP:50]

Robot Chuck

Robot hand for ring work



Robot hand for shaft work



The hydraulic robot chuck enables stable clamping and workpiece handling with minimum space is possible by the thin type double hand.

Robot operation setting function

Standard operation of the robots - loading from the entrance unit to the main machine, and unloading to the exit unit - can now be changed easily by selecting buttons on the operation panel. Additionally it is also possible to support a wide range of process flows such as when setting the unloading destination when a chute is installed as optional specifications and when quality checks are performed while leaving a workpiece in the machine.

Compact teach pendant

The conventional robot teach pendant and manual pulse generator are integrated into one, and the main machine and robot can be operated easily by just changing the screen on the pendant. Ease of operation is further improved by the graphical user interface and compact design that fits in one hand.

Automatic point display function

It is possible to reduce the time taken to search for points in the program by searching for points that are being used from the program and displaying these points in the screen.

Smooth ECO

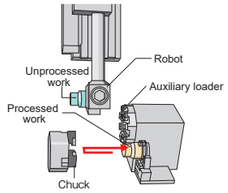
In addition to faster robot speed, an added benefit is it's energy saving operation. Electric consumption of the robot can be reduced by up to 35% automatically by the speed of the robot matching the tact time of the line.

System Layout

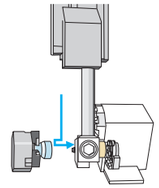
Streamline your process flow with various peripheral options designed to increase efficiency and maximize production.

Auxiliary loader

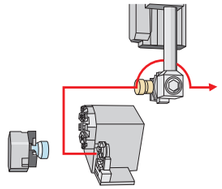
The auxiliary loader installed on the z axis slide, combined with the gantry loader serve as a part turn over device.



The auxiliary loader unloads the processed work.



The robot loads the unprocessed work to the chuck.



The robot unloads the processed work from the auxiliary loader.

Work Stocker

Optional 10/12/20 station work stockers can be utilized as inlet, outlet or in/out style and greatly contribute to unmanned automation.

		MP5-20	MP5-30	MP5-40
Palette quantity	pcs	20	12	10
Work size	mm	ϕ120	ϕ203	ϕ300
Max. stacking height	mm	345	325	315
Max.load (palette)	kg	25	40	50

Safety fence

Provide a full-cover type safety fence as an option.

Auto Gauge

Placed on the side of the machine, this device ensures part quality by gauging specific process dimensions and automatically feeding back this information to the NC for dimension compensation.

Conveyor

Transfer the work between machines in a fully automated way.

Work Chute

The robot periodically takes out the workpiece and puts it in the quality check chute. This chute is also used to discharge auto gauging and seating confirmation NG parts.

Parts Turn Over / Parts Shift Device

Parts shift device to automatically transfer parts to the next robot, or Parts turn over device to present the parts in the correct orientation for the next process.

User Friendly Operation

The operation panel has been redesigned to improve ease of use and operation.
The easy-to-use tool management screen, and various tools and screens that assist operation are provided in screens on the touchscreen panel.

FANUC 0i-TF Plus

Enhanced productivity with version up NC.
Improved program process speeds up to 57% results in faster parts cycle times.

	0i-TD		0i-TF Plus
Program memory	512K byte	⇒	2M byte
Program quantity	400	⇒	1000
Tool offset quantity	64	⇒	128

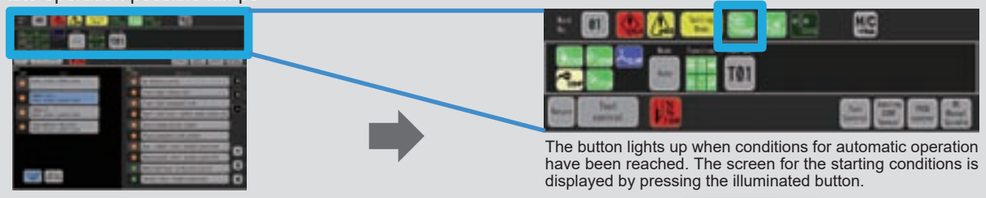
Fuji designed operation panel and HMI that promotes ease of use for the machine operator

Feons

■Reduces searching

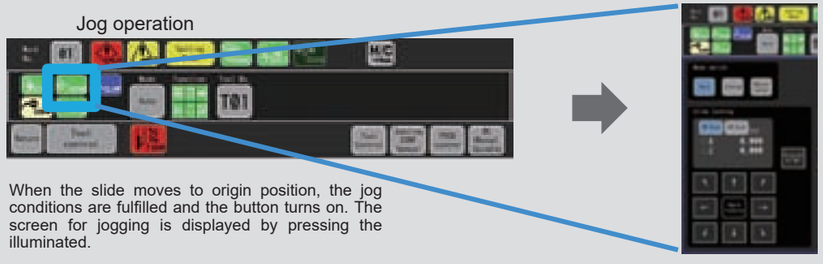
Intuitive and easy operation is possible from integrating lamps and buttons.

Auto operation possible lamps



The button lights up when conditions for automatic operation have been reached. The screen for the starting conditions is displayed by pressing the illuminated button.

Jog operation

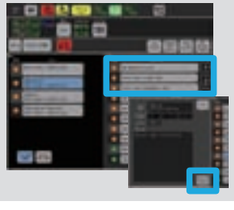


When the slide moves to origin position, the jog conditions are fulfilled and the button turns on. The screen for jogging is displayed by pressing the illuminated.

■Reduces steps

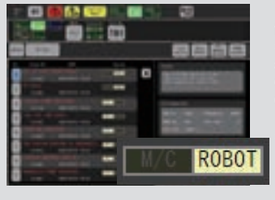
The number of times moving to an external screen is minimized by a layout based on workability.

Gathers the conditions for automatic operation



Conditions that are not met are displayed at the top of the list, eliminating the need to search for conditions across screens. In addition, it is easy to move to the necessary screens to meet conditions with a single button press.

Check error details



By displaying error details of the machine, robots, and peripheral devices in the same screen,users can check the location of the error at a glance without having to go back and forth between different screens.

■Fuji's original operation panel with outstanding ease of use

New Control Panel and Design improves operator efficiency.
Multi language system : 7 available languages.

Screen for tools

Displaying counters and wear offsets in the same screen makes it possible to input offsets while checking the count-up values during operation.

Alarm message screen

Quick recovery for the machine is supported just by the screen display without checking instruction manuals because operation navigation is guided when an error occurs.

Digital type seating screen ※option

The digital type seating screen can be selected in addition to the conventional type. Threshold values can be specified on the screen by using the digital type, and the attachment position of seating sensors can be flexible, leading to improvements in responsiveness.

SLM ※option

Abnormal loads due to tool damage during machining can be detected. It is possible to specify threshold values by referring to the maximum load and average load based on each cutting path instance displayed on the screen.

■iHMI standard feature

Interactive programming enhances productivity and supports flexible parts production.
Understanding the operation by simulation in advance reduces reworking during actual machining.

2D drawing

3D simulation

Comparison of setup work time

[time]

	NC program	Machining adjustment	Total
HMI	2	2	4
iHMI	0.25	0.5	0.75

Note: Based on Fuji's proven results

Drastically reduces the setup work time

TNⅡ SERIES

TN300Ⅱ (Manual lathe)

●Chuck size : 8～10inch

TN300Ⅱ (Automatic lathe)

●Chuck size : 8～10inch
●Gantry robot

TN400Ⅱ (Manual lathe)
TN400ⅡR (Manual lathe)

●Chuck size : 10～12inch

TN400Ⅱ (Automatic lathe)
TN400ⅡR (Automatic lathe)

●Chuck size : 10～12inch
●Gantry robot

TN400ⅡR

Live tool specification

Max. clamping tool dia.	Φ20 [mm]
Number of station	12 [position]
Spindle speed	Max.4000 [min-1]
Spindle motor	4.5kw [6.0HP]

Performance (Drill/Tapping)

	Dril	Tapping
Max. Cut dia (Φ)	Φ20 [mm]	M16×2.0 [mm]
Spindle speed	65 [m/min]	9 [m/min]
Cutting speed	1035 [min-1]	179 [min-1]
Cutting feed	0.22 [mm/rev]	358 [mm/min]

Machine specifications

			TN300Ⅱ
Chuck size		inch	8～10
Spindle bearing I.D.		mm	Φ100
Spindle nose			A2-6
Spindle bore		mm	Φ56
Spindle speed		min-1	Max.4000
Spindle motor		kW	11/7.5/7.5 (15 Min / 60 Min / Cont.)
Turret type		Position	10
Tool type		mm	Square shank : □25 Boring bar : Φ32 (Option : Φ40)
NC control			FANUC 0i-TF Plus
Slide travel	X-axis	mm	205
	Z-axis	mm	385
Rapid traverse	X-axis	m/min	24
	Z-axis	m/min	24
Feed setup Unit	X-axis	mm	0.001
	Z-axis	mm	0.001
Servo motor	X-axis	kW	1.2
	Z-axis	kW	1.2
Power capacity		KVA	22 (Automatic : 29)

Machine size

Floor space	mm x mm	1600 x 1607 (Automatic : 1600 x 1757) (W X D)
Center height	mm	1050
Machine height	mm	1710 (Automatic : 2578)
Machine weight	kg	2500 (Automatic : 3000)

Tailstock spec.

Work length	mm	Max.290
Tailstock	mm	Quill travel : 180 (Option : 230)
Quill taper		Live Center MT.4
		Built-in Center MT.3

			Robot
Model type			L672HⅡ
Object work	Work size (mm)		Φ200×80
	Max. load (kg)		5+5
Axis	Servo axis		2-axis
	Other		1-axis
Tarveling axis	Driving source		Servo Motor
	Max. speed	m/min	100
		m/sec	1.66
Vertical axis	Driving source		Servo motor
	Max. speed	m/min	73
		m/sec	1.21
Index	Driving source		Inverter
	180° Motion	sec	1.0
Stroke	Traveling axis (mm)		2425
	Vertical axis (mm)		660
Chuck stroke	Diameter (mm)		Φ25 (Option : Φ40)

Machine specifications

			TN400Ⅱ/TN400ⅡR
Chuck size		inch	10～12
Spindle bearing I.D.		mm	Φ120
Spindle nose			A2-8
Spindle bore		mm	Φ67
Spindle speed		min-1	Max. 2540 OP: Max. 3250
Spindle motor		kW	18.5/15/15 (15 Min / 60 Min / Cont.)
Turret type		Position	12
Tool type		mm	Square shank : □25 Boring bar : Φ32 (Option : Φ40)
NC control			FANUC 0i-TF Plus
Slide travel	X-axis	mm	265
	Z-axis	mm	465/430
Rapid traverse	X-axis	m/min	24
	Z-axis	m/min	24
Feed setup unit	X-axis	mm	0.001
	Z-axis	mm	0.001
Servo motor	X-axis	kW	1.8
	Z-axis	kW	1.8
Power capacity		KVA	30 (Automatic : 35)

Machine size

Floor space	mm x mm	1900 x 1807 (Automatic : 1900 x 1971) (W X D)
Center height	mm	1110
Machine height	mm	1837 (Automatic : 2683)
Machine weight	kg	3500 (Automatic : 4000)

Tailstock spec.

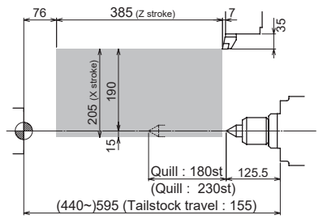
Work length	mm	Max.360
Tailstock	mm	Quill travel : 180 (Option : 230)
Quill taper		Live Center MT.5
		Built-in Center MT.4

			Robot	Robot
Model Type			L673HⅡ	L672BⅡ
Object work	Work size (mm)		Φ200×80	Φ300×120
	Max. load (kg)		5+5	10+10
Axis	Servo axis		2-axis	2-axis
	Other		1-axis	1-axis
Traveling axis	Driving source		Servo motor	Servo motor
	Max. speed	m/min	100	66
		m/sec	1.66	1.1
Vertical axis	Driving source		Servo motor	Servo motor
	Max. speed	m/min	73	30
		m/sec	1.21	0.5
Index	Driving source		Inverter	Inverter
	180° Motion	sec	1.0	1.5
Stroke	Traveling axis (mm)		2953	3160
	Vertical axis (mm)		660	880
Chuck stroke	Diameter (mm)		Φ25 (Option : Φ40)	Φ30 (Option : Φ50)

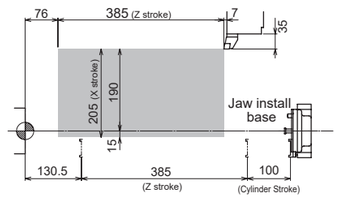
Tools traveling range [mm]

TN300Ⅱ

Tailstock spec. (TS)

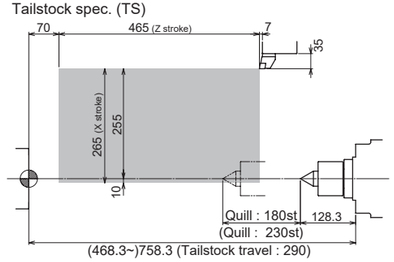


Auxiliary loader spec. (T)

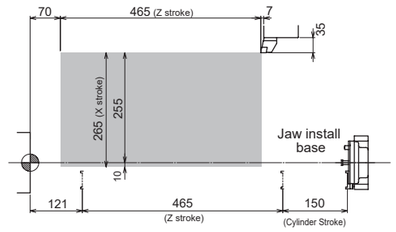


TN400Ⅱ

Tailstock spec. (TS)

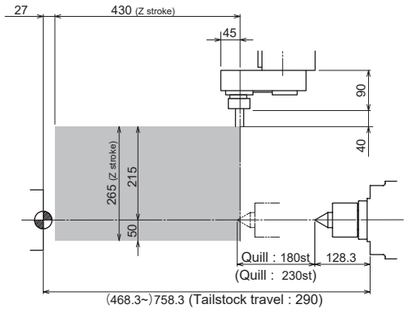


Auxiliary loader spec. (T)

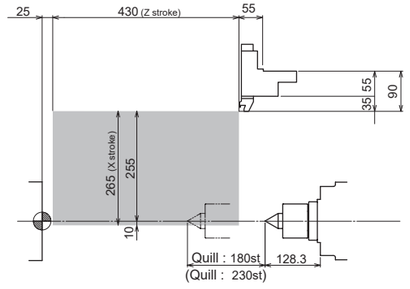


TN400ⅡR

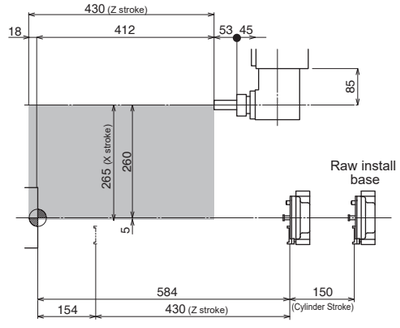
Tailstock spec. (TS)



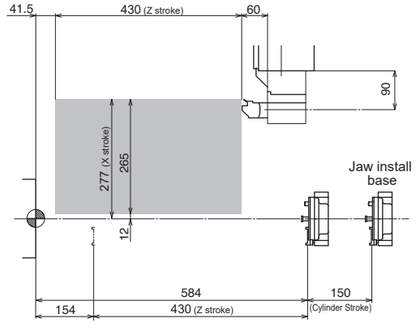
Tailstock spec. (TS)



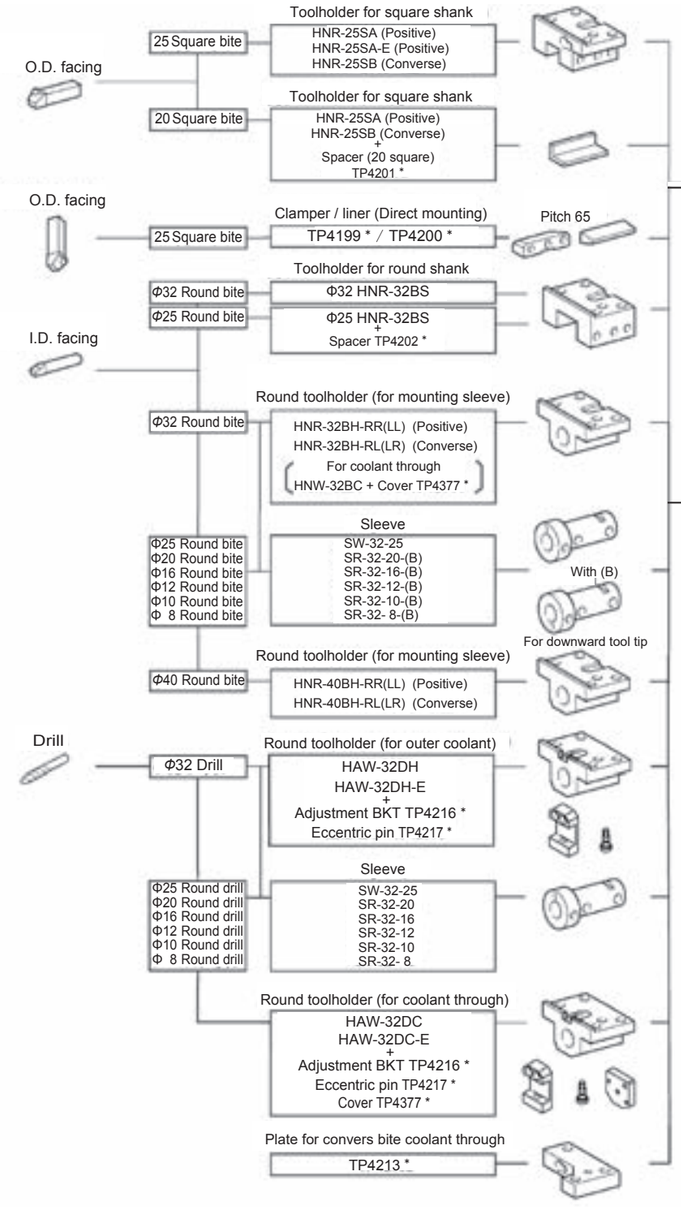
Auxiliary loader spec. (T)



Auxiliary loader spec. (T)

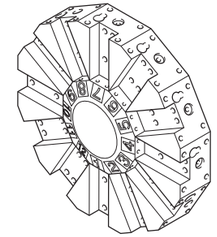


Tooling system



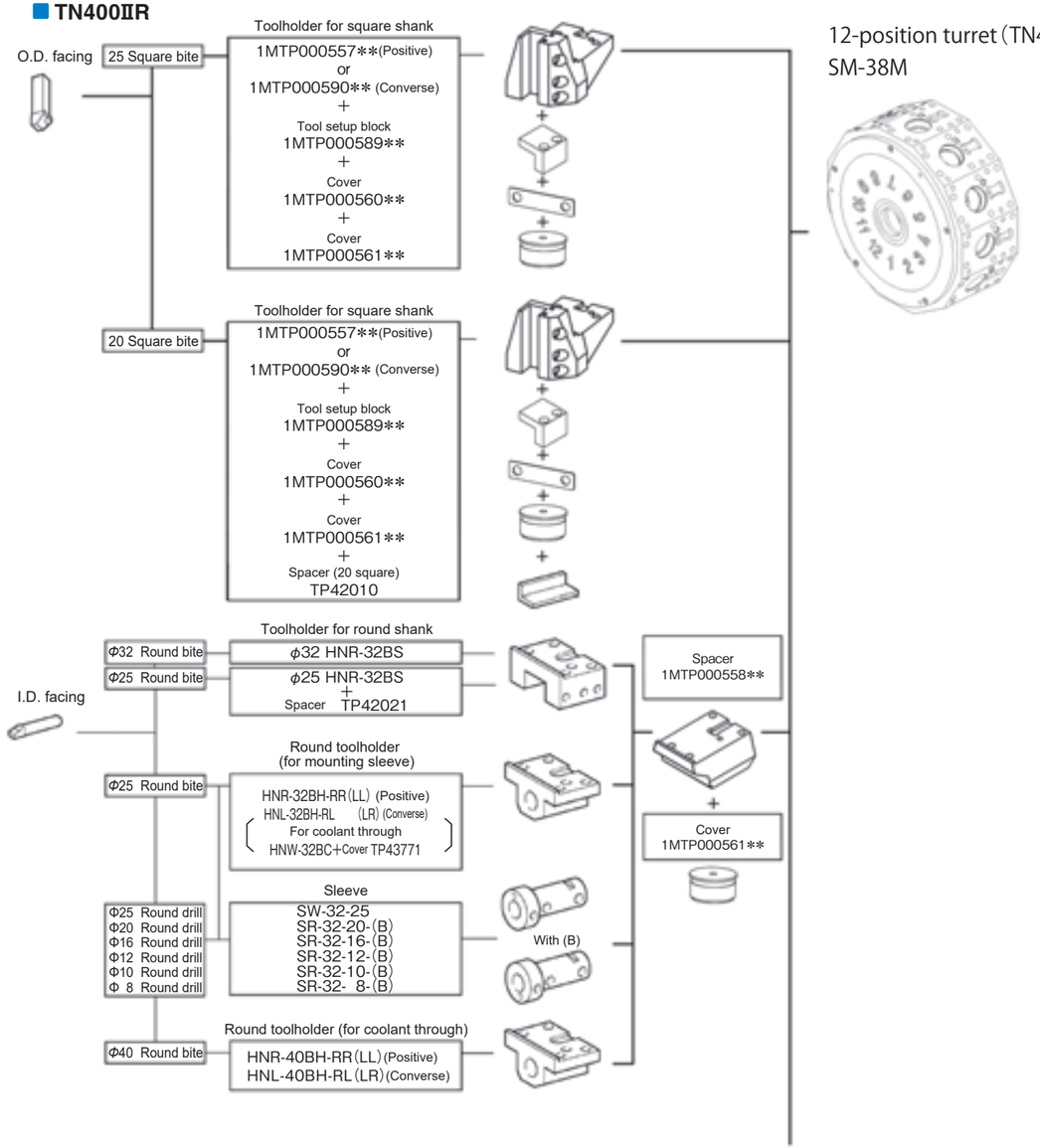
10-position (TN300Ⅱ)
SM-37R

12-position (TN400Ⅱ)
SM-38R

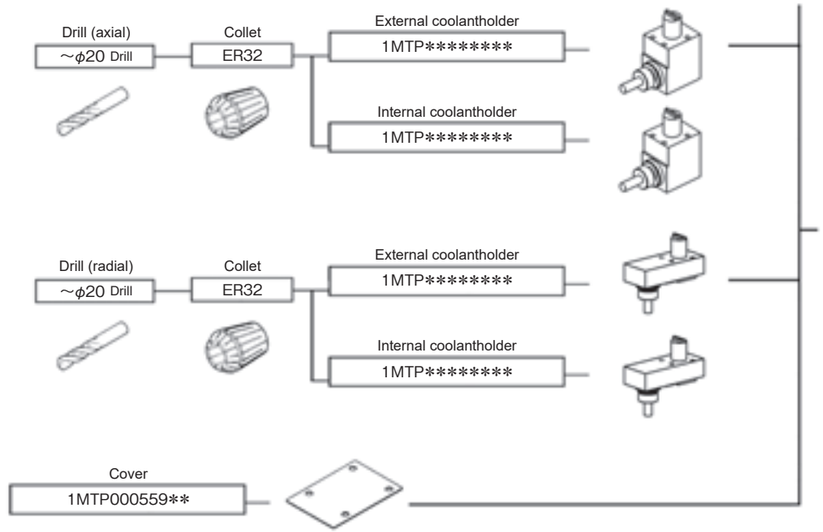


*: Version No.

TN400ⅡR



12-position turret (TN400ⅡR)
SM-38M



Coolant nozzle
TP41671

Air nozzle
TP43900

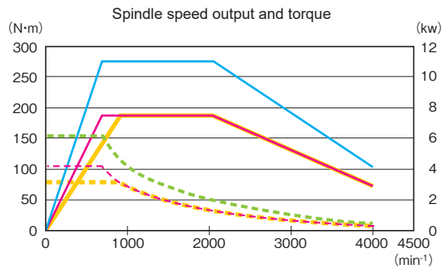
Coolant nozzle with pipe
TP42180

The above mentioned drawing is a system equipment with options.

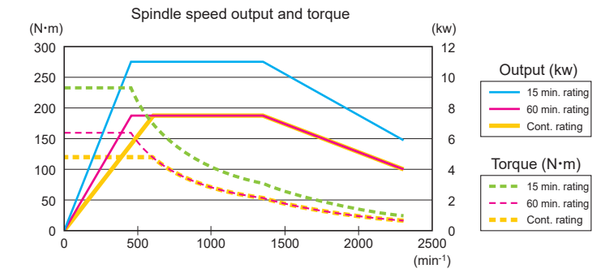
Spindle output characteristics

TN300Ⅱ

Standard spec. (Max. speed 4000min^{-1})

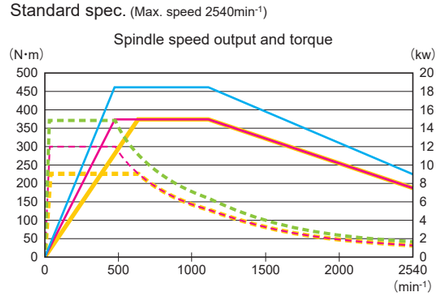


Optional : Low speed spec. (Max. speed 2310min^{-1})

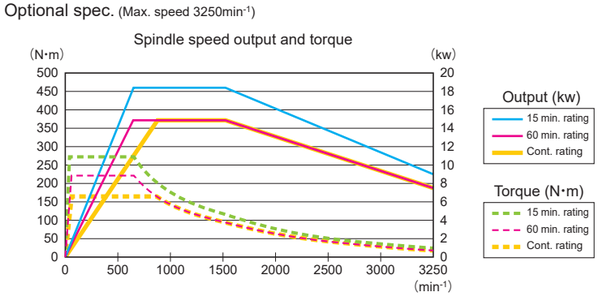


TN400Ⅱ/TN400ⅡR

Standard spec. (Max. speed 2540min^{-1})

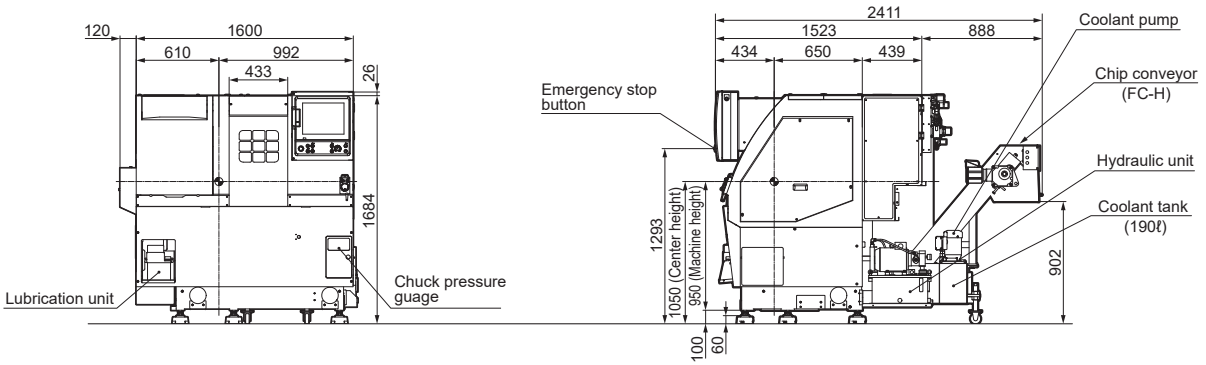


Optional spec. (Max. speed 3250min^{-1})

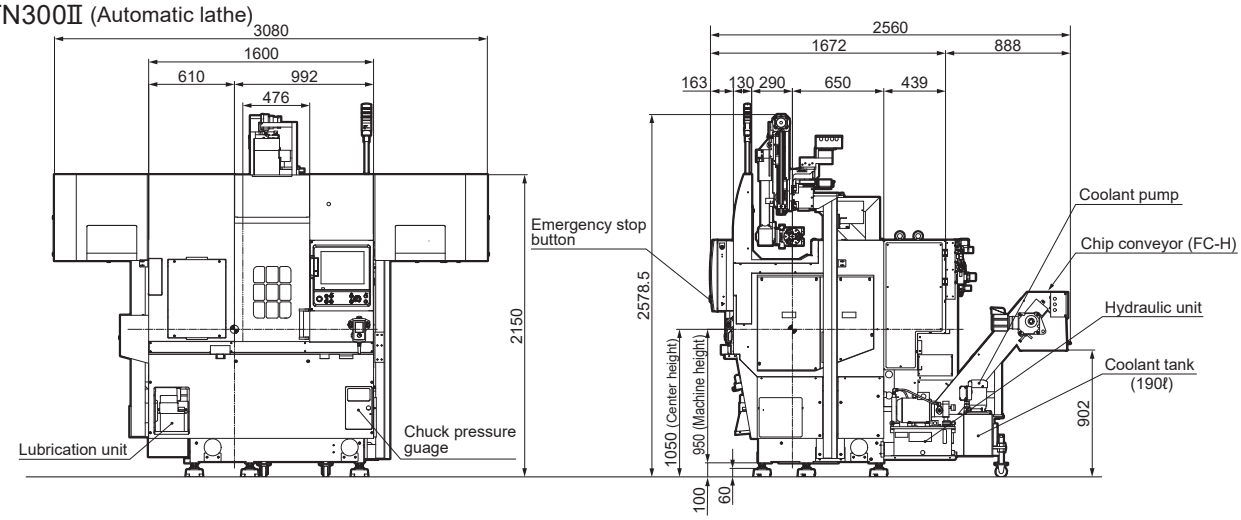


Machine overview [mm]

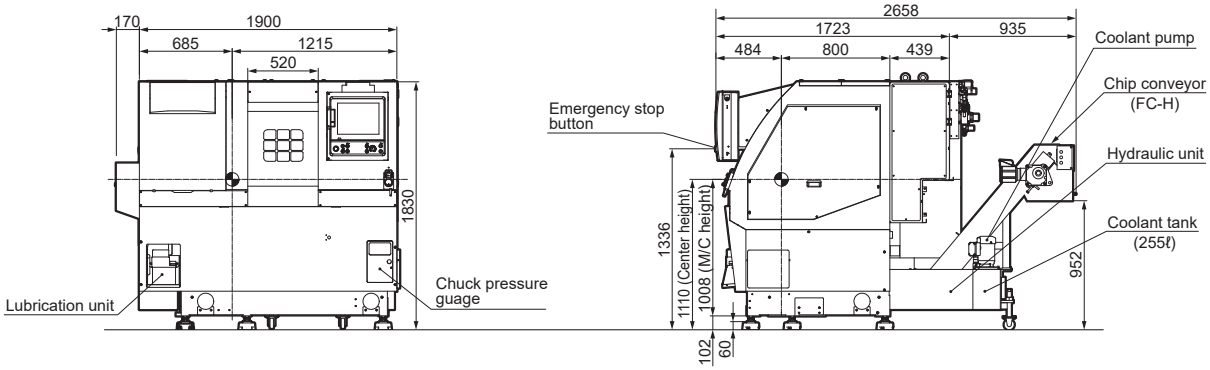
TN300Ⅱ (Manual lathe)



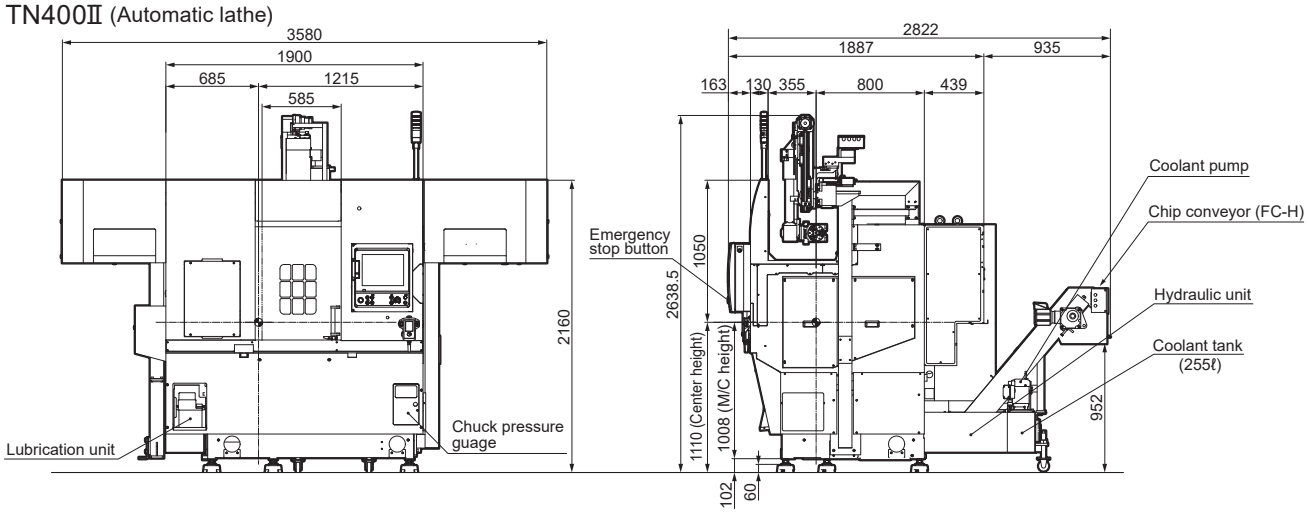
TN300Ⅱ (Automatic lathe)



TN400Ⅱ (Manual lathe)



TN400Ⅱ (Automatic lathe)



Besides the machine tools, FUJI offers the chuck and tooling solution too. Special customized chucks are also available. Please feel free to contact us.

Standard chuck

FUJI provides with self-designed and self-produced chuck in standard specification.

Wedge type 3-jaw chuck

Pin arbor chuck

Ball lock chuck

Compensating Chuck

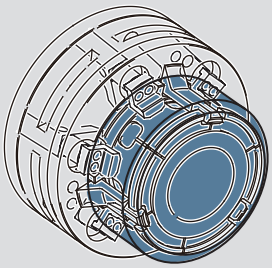
I.D. collet chuck

O.D. collet chuck

Special chuck

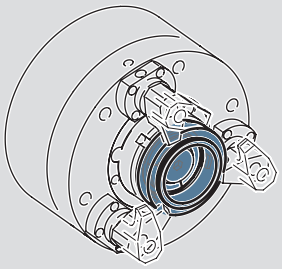
FUJI's experienced technical team offers customers the best chuck solution with rich know-how.

I.D. collet chuck with anti-vibration clamps



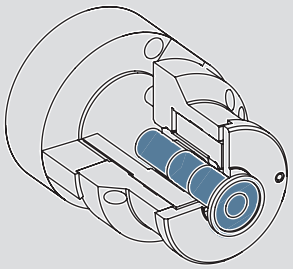
For the O.D. machining of the deep bowl type work piece, clamp the depth of internal diameter of the work piece securely with I.D. collet, and fasten the work piece with anti-vibration clamps.
Work piece wrap can be avoided by the compensation from the anti-vibration clamps.

S collet chuck with fingers



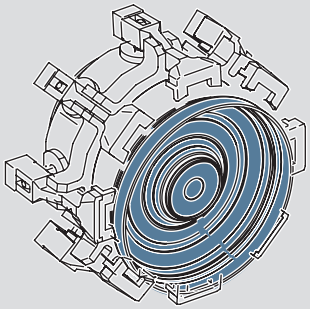
Perform the end face clamping basing on the internal diameter of the work piece.
Hold the internal diameter with collet, and clamp the end face of the work piece with fingers. Then the collet unclamps and moves back for I.D. machining.

O.D. collet chuck with chips outlet



Fix a chips outlet in the O.D. collet chuck, for disposing the chips which interferes with the clamping for long shaft work piece.
By clamping the work piece securely with double taper, the chuck can ensure the rigidity of the work piece.

I.D. collet chuck with anti-vibration clamps



Equipped with anti-vibration clamps, this special chuck can prevent the vibration during the O.D. machining of thin sheet type work piece. Clamp the internal diameter of the work piece with collet securely, and fasten the periphery with the anti-vibration clamps.
Work piece wrap can be avoided by the compensation from the anti-vibration clamps, which are driven by built-in air cylinder.

The order-to-delivery of special chuck

Work piece determination

Chuck selection

Chuck type
Clamping position
Clamping method
Fitting check needed or not
Coolant needed or not

Chuck production

In-company production/assembly

Inspection

Inspection in real machine
Real machining

Delivery

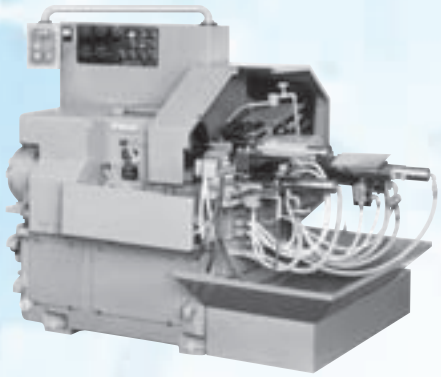
NC specifications

Axis Control	Controled systems : 1 Controled axes : 2 : 3*1 Simultaneously controled axes : 2 (X,Z) : 3 (X,Z,C)*1 Controled spindle axes : 1 : 2*1 Least input increment (X-ais dia.) : 0.001mm Flexible feed gear HRV2 control Inch/metric conversion Interlock Machine lock Emergency stop Overtravel Stored stroke check 1 Mirror image Follow-up Servo OFF/mechanical handle Chamfering ON/OFF Backlsh compensation Backlsh compensation for each rapid traverse and cutting feed Position switch Unexpected disturbance detection
Operation	Automatic operation MDI operation Program number search Sequence number search Prevention of operator errors Buffer register Dry run Single block JOG feed Manual reference position return Reference position setting without DOG Reference position setting with mechanical stopper Reference position return speed setting Reference position shift Manual handle feed 1 machine Incremental feed
Interpolation	Positioning : G00 Exact stop mode : G61 Tapping mode : G63 Cutting mode : G64 Exact stop : G09 Linear interpolation : G01 Circular interpolation : G02/G03 Dwell : G04 Polar coordinate interpolation Cylindrical interpolation Threading/synchronous cutting : G32 Multiple threading Continuous threading Skip : G31 Reference position return : G28 Reference position return check : G27 2nd reference position return : G30
Feed Function	Rapid traverse rate Feed per minute Feed per revolution Tangential speed constant control Cutting feedrate clamp Automatic acceleration/deceleration Rapid traverse bell-shaped deceleration Feedrate override Jog override Override cancel Manual per revolution feed
Programming	Tape code : EIA/ISO Auto recognition Label skip Parity check Control in/out Optional block skip : 1 block Max. programmable value : ±8-digit Program number : O4-digit Sequence number : N5-digit Absolute/incremental programming Decimal point programming/ pocket calculator type decimal point programming Input unit 10 times multiply Diameter/radius programming Rotary axis designation Rotary axis roll-over Coordinate system setting Automatic coordinate system setting Coordinate system shift Direct input of coordinate system shift Workpiece coordinate system G code systemA/B/C Optional chamfering/corner R Programmable data input : G10 Programmable parameter input Sub program call : 10 folds nested Custom macro Addition of custom macro common variables : 600 Interruption type custom macro Canned cycles Multiple repetitive cycles Canned cycles for drilling Circular interpolation by R programming
Auxiliary and Spindle Functions	M Function : M3-digit S Function : S4-digit T Function : T4-digit High-speed M/S/T/B interface Multiple command of auxiliary function Spindle serial output Spindle override Spindle orientation Rigid Tapping *1 CS Contour Control *1
Tool Functions	Tool offset counts : 128 Tool position offset Tool geometry/wear offset Tool life management Tool offset value counter input Radius/tool nose R offset Direct input of tool offset value measured
Part Program Storage & Editing	Part program storage : 2Mbyte Number of registerable programs : 1000 Part program editing Program protect Extended part program editing Background editing
Setting/ Display	Status display Clock function Current position display Program comment display Parameter setting and display Self-diagnosis function Alarm display Alarm history display Operator message history display Operator history display Help funtion Run hour and parts count display Actual cutting feedrate display Actual spindle speed and T code display Operating monitor screen System configuration screen Servo information screen Spindle information screen Servo adjustment screen Spindle adjustment screen Servo waveform display Periodic maintenance screen Maintenance information screen Multi-language (Standard) : English and 6 more languages Dynamic language selection Erase CRT screen display Data protection key 4types
Data Input/Output	Reader/Punch Interface : ch1 External data input Memory card input/output Memory card input/output } Switch either on USB memory input/output } Switch either on
Communications	Embedded ethernet
Display	15” color LCD with touch panel

A previous arrangement may be necessary depending on the specifications.
*1 TN400ⅡR

Reading trends and nurturing trust.

FUJI opened its doors in 1959 in the midst of Japan's transition from light to heavy industry, and since then has been meeting market needs for high precision manufacturing equipment. Embracing the rapid advances in motorization, Fuji was quick to recognize the window of opportunity existing in machine tools for the automotive industry, and established a reputation for providing durable and reliable machines to the industry. Presently, Fuji continues to develop space and labor saving production lines, integrating unprecedented technology to meet the demands of the industry.



(FS single purpose hydraulic lathe)

Headquarters

At Fuji's Headquarters, Electronic assembly equipment and the new field products are developed and designed.

Toyota plant

At Toyota Plant, Machine tool equipment is designed and manufactured.

Okazaki plant

At Okazaki Plant, Electronic assembly equipment is manufactured.

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■ **Overseas Subsidiaries**

United States	Fuji Machine America Corporation
China	Kunshan Fuji Machine Mfg. Co., Ltd
Brazil	Fuji Do Brasil Maquinas Industriais Ltda.

■ **Overseas Affiliates**

Europe	FUJI EUROPE CORPORATION GmbH
Korea	DONGWOO TRADING CO., LTD KSE Co., Ltd. SARA E&T CO., LTD.
Thailand	Fuji Machine (Thailand) Co.,Ltd
India	Proteck Machinery Pvt. Ltd.

- The mentioned data on this catalog is actual value, but not a performance guarantee.
- Specifications are subject to change without notice.
- The photos include options.

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202301_TNⅡ_CA_A4_E_00