

CSD 300II / CSS 300II SERIES

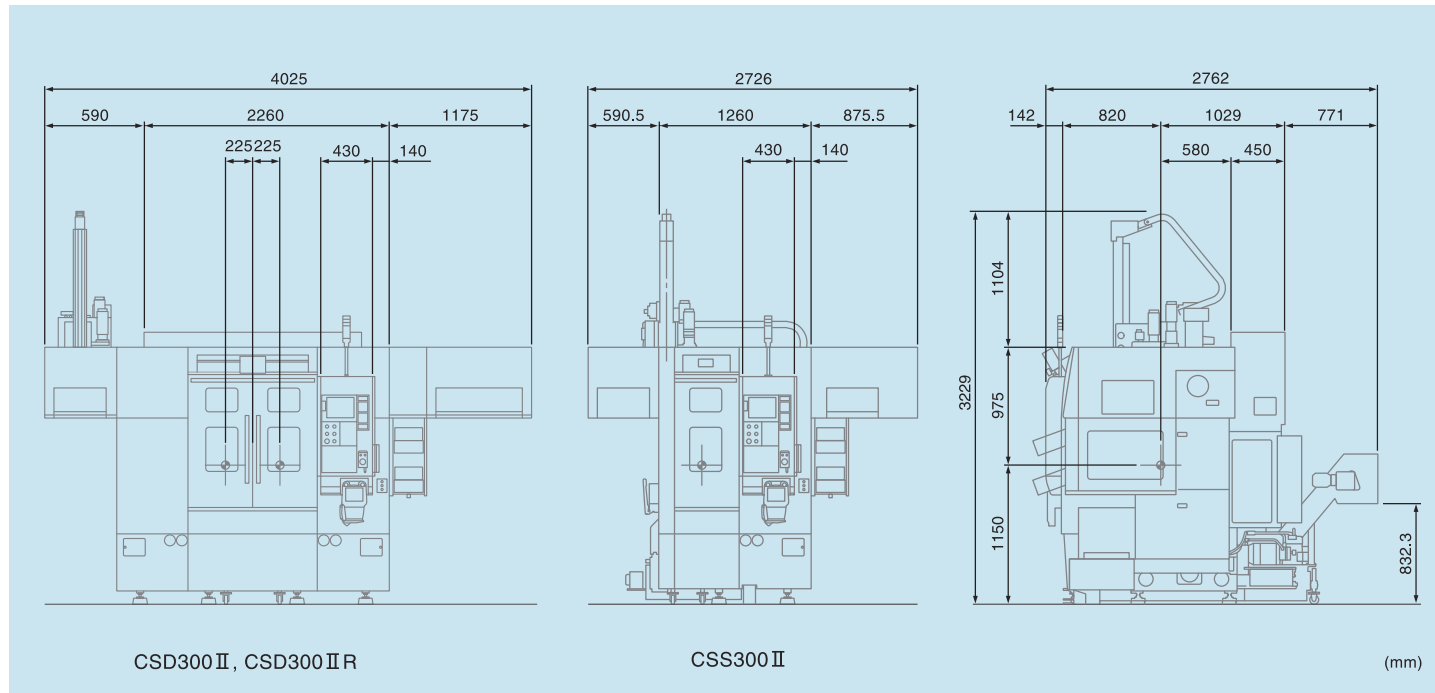
CNC Lathe



Specifications

Machine Specifications			CSD300 II, CSD300 II R	CSS300 II
Maximum work size		mm [inch]	φ200 × 100 [φ 7.9 × 3.9]	φ200 × 100 [φ 7.9 × 3.9]
Max swing dia		mm [inch]	φ310 [φ 12.2]	φ310 [φ 12.2]
Spindle dia		mm [inch]	φ100 [φ 3.9]	φ100 [φ 3.9]
Spindle nose			A2-6	A2-6
Spindle bore		mm [inch]	φ56 [φ 2.2]	φ56 [φ 2.2]
Spindle speed		min ⁻¹	Max. 4000	Max. 4000
Spindle motor		kw [hp]	11 / 15 [15 / 20]	11 / 15 [15 / 20]
Number of tool stations			10	10
Chuck size		inch	8 ~ 10	8 ~ 10
Slide stroke	X-axis	mm [inch]	140 [5.5]	140 [5.5]
	Z-axis	mm [inch]	200 [7.9]	200 [7.9]
Rapid traverse	X-axis	m / min [inch / min]	24 [945]	24 [945]
	Z-axis	m / min [inch / min]	24 [945]	24 [945]
Servo setup unit	X-axis	mm [inch]	0.001 [0.0001]	0.001 [0.0001]
	Z-axis	mm [inch]	0.001 [0.0001]	0.001 [0.0001]
Servo motor	X-axis	kw [hp]	1.2 [1.6]	1.2 [1.6]
	Z-axis	kw [hp]	1.8 [2.4]	1.8 [2.4]
Live tool specification (CSD300 II R)	Spindle motor	kw [hp]	2.7 [3.7]	-
	Spindle speed	min ⁻¹	4000	-
CNC control			FANUC 0i-TF	FANUC 0i-TF
Power capacity		KVA	60	40
Robot Specifications				
Robot type			LX-30H II	LX-30H II
Max. Carrying capacity		kg [lb.]	3 + 3 (5 + 5) [6 + 6 (11 + 11)]	3 + 3 (5 + 5) [6 + 6 (11 + 11)]
Robot controller			FANUC	FANUC
Machine Size				
Footprint		mm x mm [feet,inch x feet,inch]	2260 x 1980 [7'5" x 6'6"]	1260 x 1980 [4'2" x 6'6"]
Machine height [with Robot]		mm [feet,inch]	3250 [10'8"]	3250 [10'8"]
Machine weight [with Robot]		kg [lb.]	5500 [12100]	3000 [6614]

Machine Overview



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■ Specifications are subject to change without notice.
 ■ The photos include options.

202107_CSD300 II_fl_A3_E_03

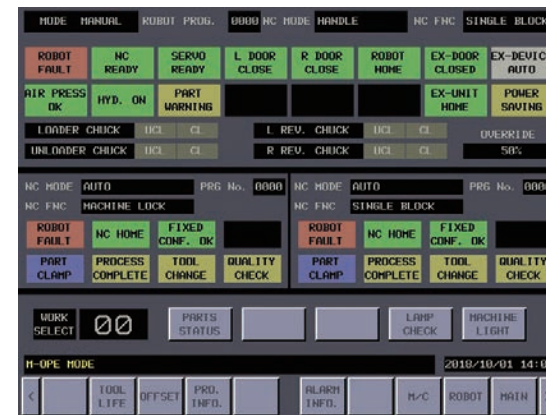


Total Cycle Time reduced by 15%

Improved Bed design increases rigidity

Improved HMI boosts operator friendly system

High speed FANUC control robot





Speed Innovation

~ New Developed Design ~

Improved equipment with increased rigidity to improve cycle times and quality.

■ NC Version Upgrade [0i-TF]

■ Robot Cycle Time (CSD300II)
21.2 sec → 17.9 sec

■ Loading time
5.8 sec → 4.8 sec

■ Operating efficiency improved by software version upgrade

■ Turret Index Time
0.29 sec → 0.19 sec

■ High Rigidity by optimized bed design
Max. Grooving Width
12 mm → 14 mm

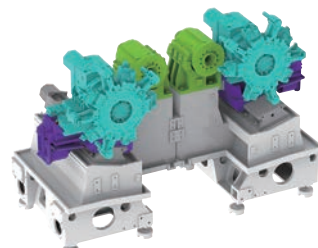
*According to our prescribed conditions

High Rigidity

~ High Speed / Space Saving Design ~

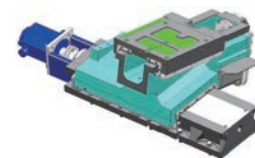
■ Column

The thermally stable and space saving design bed is equipped with zero-center type headstock and high speed turret, ensuring optimum quality.



■ Highly Rigid Slides

The CSD 300 utilizes box way construction in both x and z axis. Ball screw rigidity has been improved by incorporating a 3 x 3 row x axis support bearing.

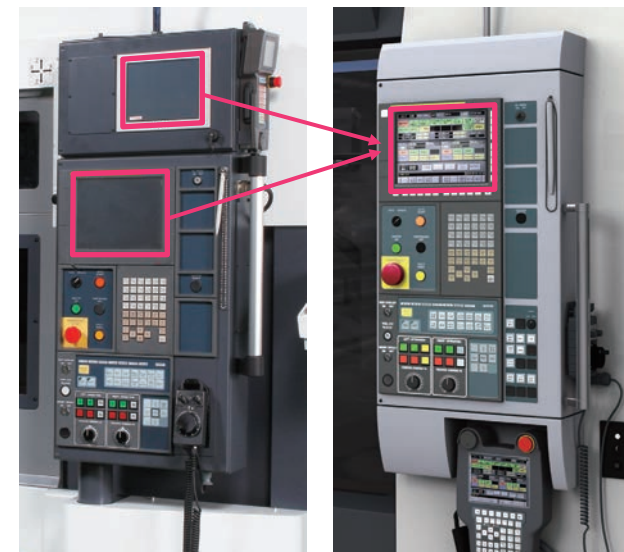


Control Renovation

~ High speed FANUC control robot ~

Improved HMI boosts operator friendly system

■ Single integrated display for easier operations of machine and robot



CSD300 → CSD300II

IoT

~ Easy Connection to IoT ~

■ Easy connection to ETHERNET/IP and various network systems
HUB Port, Standard equipment

■ Connect to LAPSYS

Please refer to LAPSYS flier

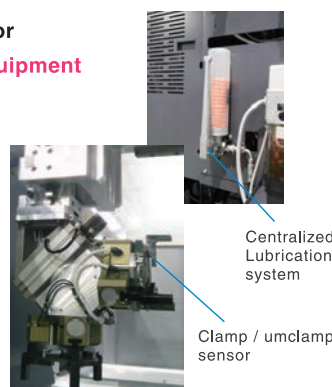


Upgrade Point

~ New Designed Robot by FANUC Control ~

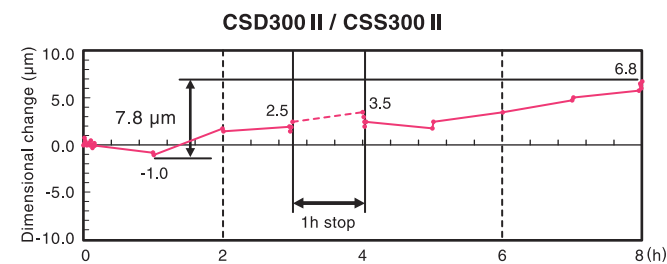
■ Clamp / Unclamp switch for Robot chuck, Standard equipment

■ Centralized Lubrication system for Robot, Standard equipment



Optimal Bed Configuration

~ Excellent Thermal Displacement Properties ~



Dimensional change after 8h running **7.8 μm**

Dimensional change after 1h stop **1.0 μm**

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

Turret

~ Milling and C-axis ~

CSD 300II R (Milling and C-axis)

Live tool specification

Max. clamping tool dia.	mm	ø16
Number of station	position	10
Spindle speed	min ⁻¹	MAX.4000
Spindle motor	kw [hp]	2.7 [3.7]

Performance (Drill/Tapping)

	Drill	Tapping
Max. Cut dia (ø)	mm	ø16 M12 x 1.75
Cutting speed	m/min	50 10
Spindle speed	min ⁻¹	1000 265
Cutting feed	mm/rev	0.21 1.75

