



J SERIES

Turret Type CNC Lathe



Technological Advancement Through Machine Tool Advancement

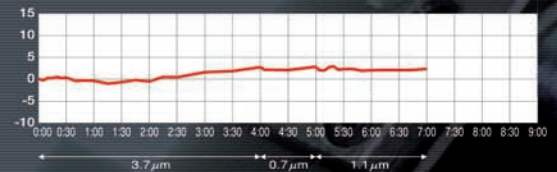


J-1/JJ-1/J-3/J-5

AMADA MACHINE TOOLS AMERICA, INC.

J1

Low Cost Solution with High Accuracy



1280×1235	21iTB	LATERAL	φ80×50	タレット形	8本	SR-00	0.5 μm	4.0 μm
FLOOR SIZE	CNC UNIT	MACHINE TYPE	WORK SIZE	TURRET TYPE	TOOL	ROBOT TYPE	ROUNDNESS	THERMAL DISPLACEMENT

- Thermal displacement (at cold start):
ø4.0μm(157μin.) and
Roundness ø0.5μm(19.7μin.)
- 7.5 HP spindle is the highest in its class.
- Compact floor space is the smallest
among competitors.



Cellpack Series for any Production Method

AMADA MACHINE TOOLS offers many flexible solutions to fit all customers' needs with productivity as the highest priority. Various models include introductory machines as well as multi axis machine cells for more complex parts. Additional machine models are available. For further information, please contact your nearest sales representative.

Semi-Automatic Cell

Easy and inexpensive.

- IN/OUT conveyor specification.
- Easy set up.
- V-shape one-touch centerized stopper on IN conveyor.
- Adjustable slide jaws on robot hand.













Fully-Automatic Cell

Capable of processing a variety of different part geometries.

- Easy integration of post process gauging station.

Dual parallel spindle and dual turret CNC lathe

J1









 1490×1615 FLOOR SIZE	 FANUC 31iA CNC UNIT	 FRONTAL MACHINE TYPE	 φ50×50 WORK SIZE	 タレット形 TURRET TYPE
 8本 TOOL	 SR-ON ROBOT TYPE	 0.4 μm ROUNDNESS	 5.0 μm THERMAL DISPLACEMENT	 2スピンドル DUAL SPINDLE











- Virtually eliminates vibrations from the machine for higher accuracy and finishes.
- Substantial design improvements enhance daily operation and maintenance.
- Many standard and optional accessories are available.

High performance machines including both power and productivity

J3

 1600×1490 FLOOR SIZE	 FANUC 21iTB CNC UNIT	 LATERAL MACHINE TYPE	 φ100×100 WORK SIZE
 タレット形 TURRET TYPE	 8本 TOOL	 1.0 μm ROUNDNESS	 5.0 μm THERMAL DISPLACEMENT

J5

 1830×1490 FLOOR SIZE	 FANUC 21iTB CNC UNIT	 LATERAL MACHINE TYPE	 φ100×100 WORK SIZE
 タレット形 TURRET TYPE	 12本 TOOL	 1.0 μm ROUNDNESS	 5.0 μm THERMAL DISPLACEMENT

- Minimum floor space (as compared with other machines of this class) by space-saving design.
- Equipped with 7.5/11kW(10/15Hp) high-power spindle motor as standard. (11/15kW(15/20Hp) motor for C-spec. J5)

Specialized in standalone or multi-machine operation



MACHINE SPECIFICATION (Standalone)

		Unit	J-1	JJ-1		J-3	J-5	
				A (L/R)	B (L/R)		B Spec.	C Spec.
Capacity	Swing over bed	mm	250	—		420	420	
	Nominal workpiece (D × L) 1	mm	80×50	50×50		100×100	100×100	
	Bar capacity	mm	38.1	—		50.8	50.8	67
Main spindle	Center height	mm	950	900		1090	1090	
	Nose	—	100 Flat	80 Flat	100 Flat	A2-6	A2-6	A2-8
	Bore	mm	45	32	45	61	61	76
	Bearing I.D.	mm	75	50	75	100	100	120
	Maximum speed 2	min ⁻¹	6000	8000	6000	4000	4000	3500
	Standard chuck		—	—		No.6 Solid	No.8 Solid	
Travel	X-axis	mm	100	147.5		150	150	
	Z-axis	mm	220	170		320	520	
Rapid traverse	X-axis	m/min	15	15		18	18	
	Z-axis	m/min	15	15		24	24	
Tooling	Turret type		V8	V8		V8 (V12※3)	V12 (V8※3)	
	Turning tool shank	mm	20	20		25	25	
	Max. boring bar dia.	mm	25	25		32	32	
	Turret head swing	mm	330	376		425 (474※3)	474 (425)	
Tailstock (Option)	Quill dia.	mm	40	—		—	70	
	Quill taper	mm	MT No.3	—		—	MT No.4	
	Quill travel	mm	70	—		—	70	
	Quill thrust	N	640	—		—	1078	
Measurements and others	CNC unit	—	FANUC-S-21i-TB	FANUC-31i-A		FANUC-S-21i-TB	FANUC 21i-TB	
	Main spindle motor	kw	3.7/5.5	2.2/3.7	2.2/5.5	7.5/11	7.5/11	11/15
	Machine height	mm	1600	1500		1700	1700	
	Floor space	mm	1280×1235	1490×1615		1600×1490	1830×1490	
	Machine weight	kg	1430	2600		2400	2600	

1 Work size is subject to restrictions according to tooling.

2 Maximum spindle speed is limited by maximum permissible speed of chuck.

● STANDARD ○ OPTIONAL

		J-1	JJ-1		J-3	J-5	
			A (L/R)	B (L/R)		B Spec.	C Spec.
Machine	Main Guard	●	●	●	●	●	●
	Light	●	●	●	●	●	●
	Coolant system	●	●	●	●	●	●
	Chip Conveyor	○	○	○	○	○	○
	Chip Pan	●	●	●	●	●	●
	Chip Cart	○	○	○	○	○	○
Tooling	Barfeeder interface	●	—	—	●	—	●
	Face Holder	○	○	○	—	—	—
	O.D. Holder	—	●	●	—	—	—
	Boring Holder	●	●	●	●	●	●
	Round Bush	●	●	●	●	●	●
	Tool Setter	—	—	—	○	—	○
Cell	Guard for Cell	●	●	●	●	●	●
	Gantry Loader SR-1N	—	●	●	—	—	—
	Gantry Loader SR-1	—	—	—	●	—	●
	Gantry Loader SR-0N	●	—	—	—	—	—
	90° Hand	○	●	●	○	—	○
	Parallel Hand	●	—	—	●	—	●
	Rotary Stocker Guard	○	○	○	○	—	○
	Rotary Workstocker WRS-1	○	○	○	○	—	○
	Pallet Stocker PZB-4	○	○	○	—	—	—
	Work Conveyor	○	○	○	○	—	○
	Signal Tower	●	●	●	●	—	●
	Chuck Air Blow	●	●	●	●	—	●

AMADA MACHINE TOOLS AMERICA, INC.

www.amadamachinetools.com

AMADA MACHINE TOOLS AMERICA, INC.
2324 Palmer Drive
Schaumburg, IL 60173 U.S.A

TEL: 1-847-285-4800

<Head Quarters>
200, Ishida, Isehara-shi, Kanagawa, 259-1196, Japan

TEL: 81-463-96-3469

AMADA MACHINE TOOLS EUROPE GmbH
[Head Quarters]
Landstraße 25 D42781 Haan, Germany
[MACHINE TOOL DEPARTMENT]
Ludwig-Erhard-Straße 1, D97577 Wertheim, Germany

TEL: 49(0)2129-579-03

TEL: 49-(0)9342-888-0

AMADA WASINO (THAILAND) CO., LTD.
700/146 Village No. 1, Bankao Sub-District
Panthong District, Chonburi 20160 Thailand

TEL: 66-3846-8920

<Associates>
AMADA CO., LTD.
200, Ishida, Isehara-shi, Kanagawa, 259-1196, Japan

TEL: 81-463-96-1111

AMADA MACHINE TOOLS MFG CO., LTD.
2-158 Nakashima, Shimooabari, Komaki-shi, Aichi, 485-0051, Japan

TEL: 81-568-71-8821