

CITIZEN

# Cincom

## A20

Sliding Headstock Type CNC Automatic Lathe



# Machine Specification

Item	A20 VII (A20-3F7)
Max. machining diameter (D)	20mm Dia. (25mm Dia. <sup>OP</sup> )
Max. machining length (L)	GB:200mm/1 chucking(188mm/25mm Dia. spec.) GBL:2.5D
Max. front drilling diameter	10mm Dia.
Max. front tapping diameter (tap, die)	M8
Spindle through-hole diameter	26mm Dia.
Main spindle speed	Max.10,000min <sup>-1</sup>
Max. drilling diameter for the gang rotary tool	7mm Dia.
Max. tapping diameter for the gang rotary tool	M6
Spindle speed of the gang rotary tool	Max.6,000min <sup>-1</sup> (Rating 4,500min <sup>-1</sup> )
Max. chuck diameter of back spindle	20mm Dia. (25mm Dia. <sup>OP</sup> )
Max. protrusion length of the back spindle workpiece	50mm
Max. drilling diameter in back machining process	8mm Dia.
Max. tapping diameter in back machining process	M6
Back spindle speed	Max.8,000min <sup>-1</sup>
Max. protrusion length	100mm
Number of tools to be mounted	21
Tool size	
Tool (gang tool post)	12mm Sq.x120mm(13mm Sq. <sup>OP</sup> )
Sleeve	25.4mm Sq.
Chuck and bushing	
Main spindle collet chuck	FC034-M, FC071-M
Back spindle collet chuck	FC034-M-K, FC071-M-K
Rotary tool collet chuck	ER11, ER16
Chuck for drill sleeves	ER11, ER16
Guide bushing	FG206-M / FG521-M
Rapid feed rate	
All axes (except X1)	32m/min
X1 axis	18m/min
Motors	
Spindle drive	2.2/3.7kW
Tool spindle drive	0.75kW
Back spindle drive	1.1/1.5kW
Coolant oil	0.4kW
Lubricating oil	0.003kW
Center height	1,050mm
Rated power consumption	7.1kVA
Full-load current	20.2A
Main breaker capacity	30A
Air pressure and air flow rate for pneumatic devices	0.5Mpa, 47NL
Weight	2,200kg

## Standard accessories

Main spindle chucking device	Coolant unit (with level detector)
Back spindle chucking device	Lubricating oil supply unit (with level detector)
Cut-off tool breakage detection	Door lock
Work light (LED)	Pneumatic device for air sealing
Workpiece separator	Machine relocation detector

## Special accessories

Rotary guide bushing device	Chip conveyor
Fixed guide bus	Medium-pressure coolant unit
Knock-out jig for through-hole workpiece	Coolant flow rate detector
Callback chute	Signal lamp
Product receiver shelf for long workpiece device	3-color signal tower
Workpiece conveyor	

## Standard NC functions

NC unit dedicated to the A20	Program storage capacity : 40m(approx.16KB)
8.4 inch color LCD	Tool offset pairs : 32
On-machine program check function	Product counter indication (up to 8 digits)
Operating time display function	Main spindle indexing at 15° intervals
Preparation function	Automatic power-off function
Spindle speed change detector	Continuous thread cutting function
Nose radius compensation	Program prior analysis function
Constant surface speed control function	

## Special NC functions

Program storage capacity 2560m (approx.1MB) Hob/polygon function B	
Tool offset pairs : 49	Spindle 1°indexing function
Submicron commands	Back spindle 1°indexing function
Spindle synchronized function	Front/Back spindle C-axis function
Rigid tapping function	Tool life management I
High speed rigid tapping function	Tool life management II
Chamfering, corner R	Optional block skip (9 sets)
Canned cycle drilling	External memory program driving
Drawing dimension direct input	Network I/O function
Multiple repetitive cycle for turning	Inch command
User macros	Sub/inch Command
Yaxis offset	

## CITIZEN MACHINERY CO., LTD.

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<b>JAPAN</b>	CITIZEN MACHINERY CO., LTD. 4107-6 Miyota, Miyota-machi, Kitasaku-gun, Nagano-ken, 389-0206, JAPAN	TEL.81-267-32-5901	FAX.81-267-32-5908
<b>SOUTH ASIA / KOREA</b>	CITIZEN MACHINERY CO., LTD. 4107-6 Miyota, Miyota-machi, Kitasaku-gun, Nagano-ken, 389-0206, JAPAN	TEL.81-267-32-5916	FAX.81-267-32-5928
<b>TAIWAN</b>	CINCOM MIYANO TAIWAN CO., LTD. 10FL, No.174, Fuh Sing N. Rd., Taipei, TAIWAN	TEL.886-2-2715-0598	FAX.886-2-2718-3133
<b>CHINA</b>	CITIZEN (CHINA) PRECISION MACHINERY CO., LTD. 10058, XINHUA ROAD OF ZHOUCUN, ZIBO, SHANDONG, P.R. CHINA	TEL.86-533-6150560	FAX.86-533-6161379
<b>EUROPE-Germany</b>	CITIZEN MACHINERY EUROPE GmbH Mettinger Strasse 11, D-73728 Esslingen, GERMANY	TEL.49-711-3906-100	FAX.49-711-3906-106
<b>EUROPE-UK</b>	CITIZEN MACHINERY UK LTD 1 Park Avenue, Bushey, WD23 2DA, UK	TEL.44-1923-691500	FAX.44-1923-691599
<b>EUROPE-Italia</b>	CITIZEN MACCHINE ITALIA s.r.l. Via Campo Romano 11/13 - 24050 Spirano (BG), ITALY	TEL.39-035-877738	FAX.39-035-876547
<b>AMERICA</b>	MARUBENI CITIZEN-CINCOM INC. 40 Boroline Road Allendale, NJ 07401, U.S.A.	TEL.1-201-818-0100	FAX.1-201-818-1877

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