

CITIZEN

Miyano

ANX42sYY

Fixed Headstock Type CNC Automatic Lathe



「個の量産」  
いろんな一つを、たくさんつくる

# Machine Specifications

Item	ANX-42SYY		
<b>Capabilities and requirements</b>			
Maximum machining length	130 mm		
Max. machining diameter	S 1	42 mm Dia.	
	S 2	42 mm Dia.	
<b>Slide stroke</b>			
Tr 1	X 1	140 mm	
	Z 1	315 mm	
	Y 1	70 (±35) mm	
Tr 2	X 2	140 mm	
	Z 2	430 mm	
	Y 2	70 (±35) mm	
S 2	X 3	240 (±120)	
	Z 3	440 mm	
<b>Spindle</b>			
Number of spindles	2		
Spindle speed	S 1, S 2	6,000 min <sup>-1</sup>	
Draw tube through-hole diameter	S 1, S 2	46 mm Dia.	
Collet chuck type	S 1, S 2	DIN 173E(42 mm Dia.), HAINBUCH, H-S20	
Power chuck type	S 1	---	
	S 2	5" hollow chuck	
Machining capacity	S 1	Drilling	20 mm Dia.
		Tapping	M12 x 1.75
	S 2	Drilling	20 mm Dia.
		Tapping	M12 x 1.75
<b>Spindle indexing</b>			
Minimum spindle indexing command	S 1, S 2	0.001°	
<b>Tool post</b>			
Number of tool slides	2		
Type of the tool post	Tr 1, Tr 2	12-station turret	
Distance across turret head	Tr 1, Tr 2	300 mm	
Maximum indexing diameter	Tr 1, Tr 2	505 mm Dia.	
Turning tool	20 mm Suq.		
Drilling	25 mm Dia.		
<b>Revolving Tool</b>			
Number of revolving tools mountable	Max.12/ 12		
Revolving tool drive type	Single drive mechanism		
Rotational speed of revolving tools	6000 min <sup>-1</sup>		
Machining capacity	Drilling	Max. 12 mm Dia.	
		Tapping	Max. M8 x 1.25
<b>Rapid traverse rate</b>			
	X 1, X 2, X 3	24 m/ min.	
	Z 1, Z 2	24 m/ min.	
	Y 1, Y 2	18 m/ min.	
	Z 3	30 m/ min.	
<b>Motor</b>			
Motor for spindle	S 1, S 2	11/ 7.5 kW (10 min./ cont.)	
Motor for feed axes	X 1, X 2, X 3	1.8 kW	
	Z 1, Z 2, Z 3	1.2 kW	
	Y 1, Y 2	1.2 kW	
Motor for revolving tools	Tr 1, Tr 2	2.2 kW	
Coolant pump	0.18 kW x 2		
Motor for medium-pressure coolant (1 MPa) (option)	0.75/ 1.1 kW (50/ 60 Hz)		
Motor for medium-pressure coolant (2 MPa) (option)	1.5 kW		
<b>Required electric power source</b>			
Power source used	AC 200/ 220 V + 5 % - 10 % 50/ 60 Hz±1 %		
Rated power consumption <sup>*1</sup>	34 kVA		
Load operation average power <sup>*2</sup>	18.4 kVA		
Fuse capacity at machine side	125 A		
Pneumatic source	0.5 MPa		
<b>Tank capacity</b>			
Hydraulic tank capacity	18 L		
Lubricating oil tank capacity	2 L		
Coolant tank capacity	260 L		
<b>Machine size</b>			
Machine height	1,925 mm		
Required floor area	2,650 x 1,645 mm		
Machine weight	6,250 kg		

\*1 This is the power consumption when the machine is operation at full capacity.

\*2 This is the standard power consumption during machine operation.

The actual power consumption varies depending on the cutting conditions and other conditions.

## Standard NC Functions

MIYANO SYSTEM Fs31i-B Plus	
15-inch XGA touch panel	USB slot
On-machine program check function	User authentication function
Operating time display	Product counter: max. 8 digits
Preparation function	Automatic power-off function
Collision detection function	B code I/F
Tool offset pairs 200	Tool offset pairs 60 pairs
Program storage area 10 MB	Program operation storage capacity 4 MB
User macro	Corner chamfering/ Corner rounding
Optional block skip (9 sets)	Spindle constant surface speed control function
Spindle C-axis function	Spindle synchronized control function
Canned drilling cycle	Helical interpolation function
Synchronized tapping function	Sub-micron specifications
Thermal displacement correction function	Milling interpolation function
Program start at function I	Inch command
Sub inch command	Eco display
Machine operation information display	

## Special Additional NC Unit

Tool offset pairs 400	Tool offset pairs 99 pairs
Program storage capacity 100 MB	Program operation storage capacity 8 MB
Variable lead thread cutting	Circular thread cutting
Multiple repetitive cycle for turning	Cylindrical interpolation
Polygon turning function	LFV mode 1
Rotary tool feed per revolution	Additional common variables
alkarttransfer	Tool monitor

## Options

Spindle brake	Air blower
Workpiece ejector	Chip box
Part conveyor	Medium-pressure coolant (1 MPa)
Medium-pressure coolant (2 MPa)	Through-spindle air blower
Turret air blower	Part catcher
Part box	Chuck System
Chip conveyor	Mist collector duct & fire prevention damper
Through-spindle bushing	3-color signal tower
RS-232C	Unloader/ Bucket
Long workpiece separator	Remnant bar catcher

## Environmental Performance Information

Basic Information	Model		ANX-42SYY	
	Energy consumption	Supply voltage	AC 200V±10%	
Electrical power requirement		34 kVA		
Load operation average power		18.4 kVA		
Required pneumatic pressure		0.5 MPa		
Environmental Performance Information	Power consumption	Standby power <sup>*1</sup>	0.983 kW	
		Power consumption with model workpiece <sup>*2</sup>	0.074 kWh/cycle	
		Power consumption value above converted to a CO2 value <sup>*3</sup>	31.524 g/cycle	
	Air consumption	Required air flow rate	52.7 NI/min (max. 202.7 NI/min: when using air blow)	
		Lubricating oil consumption	At power ON	3.0 ccl/ 15 min
	Noise level	Value measured based on JIS	73 dB	
Approach to Environmental Issues	Recycling	Indication of the material names of plastic parts	Detailed in the Instruction Manual <sup>*4</sup>	
	Environmental management	We pursue "Green Procurement", whereby we make our purchases while prioritizing goods and services that show consideration for the environment.		

\*1 This is the standby power in the idle stop mode (a function that turns servomotor excitation off when it is not necessary, for example during program editing).

\*2 This is the power consumption in program operation (when not cutting) for one of our standard test pieces, shown for the purpose of comparing the environmental performance with that of existing models.

\*3 This is the value converted in accordance with the CHUBU Electric Power CO2 emissions coefficient (actual emissions coefficient) for 2020 as published by the Ministry of the Environment.

\*4 If polyvinyl chloride (PVC) and fluorine resin are not processed correctly, they can generate harmful gases. When recycling these materials, commission a contractor that is capable of processing them appropriately.

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