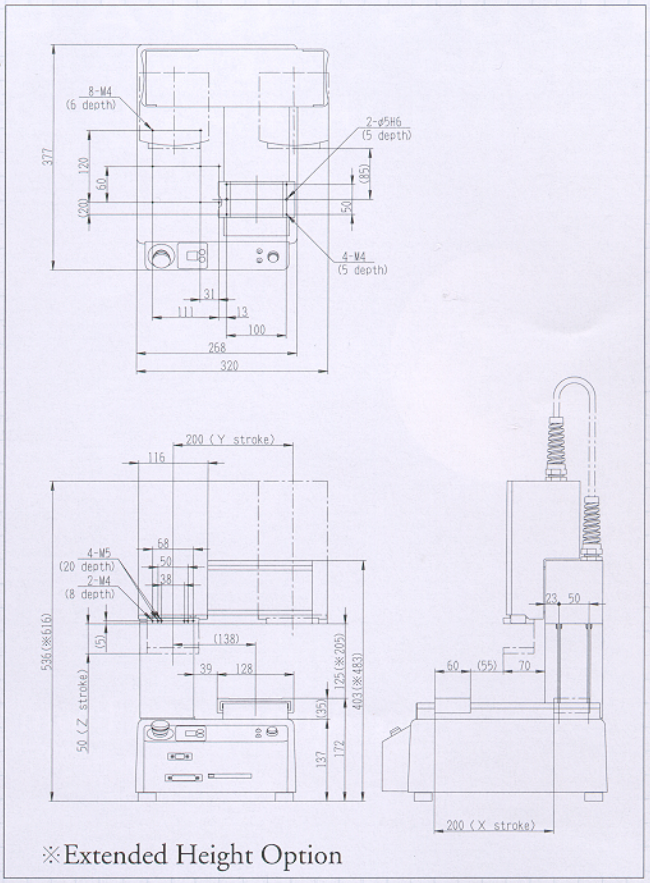
JR 2200 Series



※Extended Height Option

Features

• Compact Size

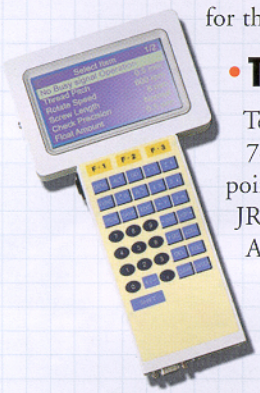
The JR2000 Series Desktop robots are designed to minimize footprint and maximize efficiencies in assembly line operations. This design is based on the idea of worker supplementation to increase the efficiency of workers in order to reduce labor content. With the JR2000 Series robots, assembly line workers stay busy loading and unloading fixtures while the robot is performing precision assembling tasks.

• Application Specific Software

Janome has gone a step further than their competition by developing application specific software for The JR2000 Series Robots. Application specific software has been developed for Screw Fastening, Soldering and Dispensing applications. The application specific software makes our easy to use software even easier by providing preprogrammed operations that can be selected or modified from a menu. Example: Screw Tightening Conditions that ask for Thread Pitch, Driver RPM, Screw Length, etc. This significantly reduces development time for these tedious processes.

Tightening Condition	01
Full Tightening (With Pickup)	
Thread Pitch	0.5 mm
Rotate Speed	600 rpm
Screw Length	8 mm
Check Precision	Normal
Float Amount	0.5 mm

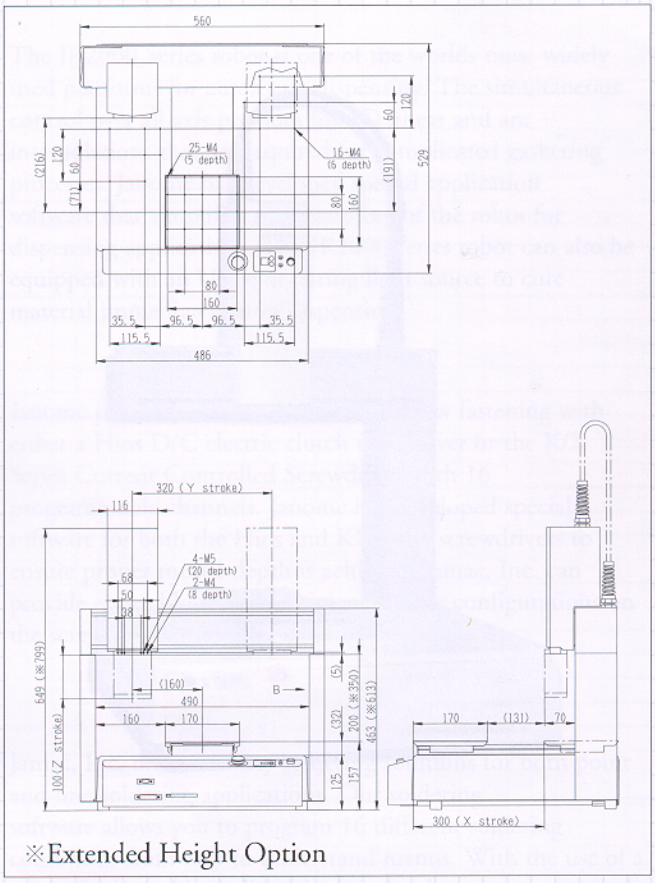
Select Item	1/2
No Busy signal Operation	
Thread Pitch	0.5 mm
Rotate Speed	600 rpm
Screw Length	8 mm
Check Precision	Normal
Float Amount	0.5 mm



• Teaching Pendant

Teaching the JR2000 Series Desktop robot is easy with the large, 7-line LCD screen. Position of the robot and expanded views of the point jobs are achieved with the large teaching pendant and prove to be an asset when programming. JR2000 Series Software has eliminated the need to learn complicated programming languages. An Interactive dialog based software allows the user to easily walk through setup of a program.

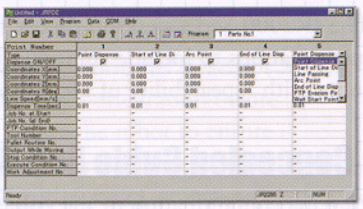
JR 2300 Series



※Extended Height Option

Features

• PC Software



JR Points® is an optional PC Software package available for the JR 2000 Series robots. The PC Software allows the end user to program an infinite number of programs and download them to the robot as needed. JR Points also includes a compiler to convert .dxf files into .jcs format, which is the robots resident file. The PC Software also allows you to print all program data and store programs offline.

• Memory Capacity

The JR2000 Series robot has a memory capacity of 100 programs and/or 6,000 points. This is ten times the program capacity as the previous generation of Janome robots. The end user has the ability to expand beyond the 6,000 points with the use of call program and palletizing functions. Janome has also adopted a flash memory card to save program and operational data for back-up purposes.

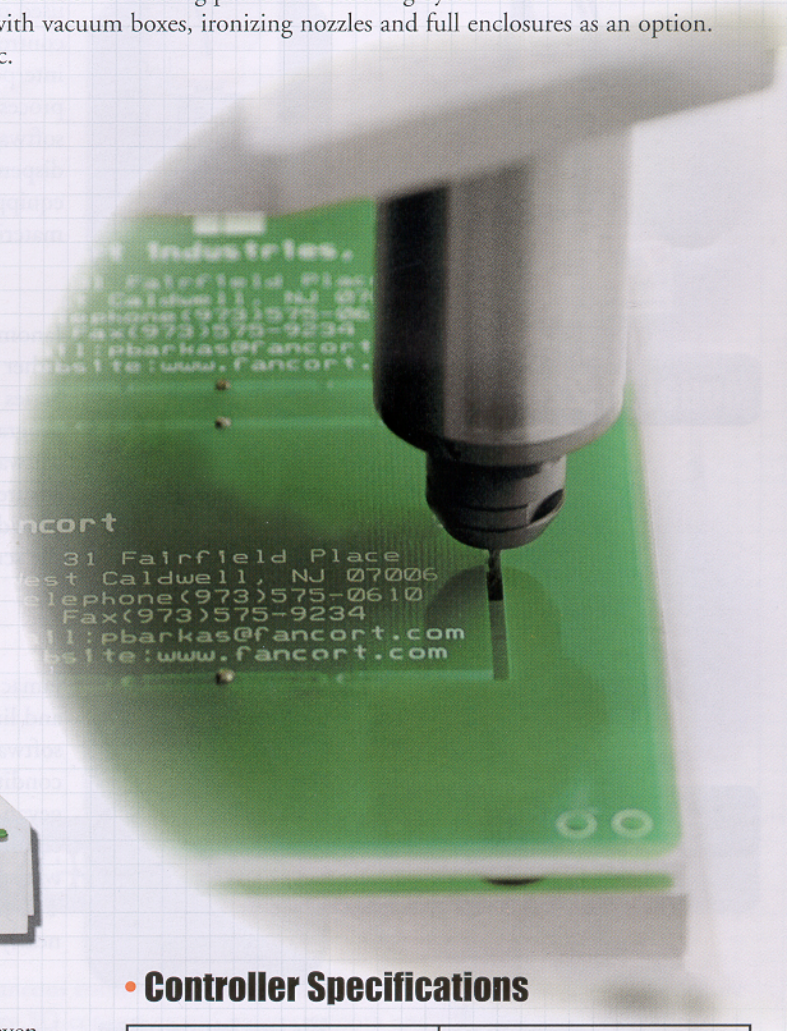
• Interface

Janome provides ample I/O for even the most complicated assembly operations. The JR2000 Series Desktop robot is supplied standard with 16 inputs and 16 outputs and an optional addition of 8 inputs and 8 outputs. The robot also has two COM ports for communications with the optional PC software and vision systems. In addition the robot has built-in PLC functions, that can operate independently of the robot, that use portions of the robots I/O. Extended I/O option is not available on the JR2200 Series robot.

JR 2000 Series Routing Robot

• Routing Robot

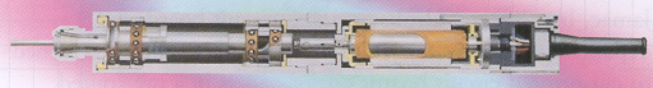
The JR2000 Series Routing Robots allow for .dxf file conversion of cutting paths. The Routing System is available on all three-axis JR2000 Series Robot. The units can be equipped with vacuum boxes, ironizing nozzles and full enclosures as an option. Maximum cutting speed is 100mm/sec and 800mm/sec.



• Router Spindle

The closed loop D/C motor maintains constant speed even when under load for the smoothest possible operation. The motor & spindle assemblies are constructed of SUS416 Stainless Steel to ensure long life and rigidity. Cooling of the motor and spindle requires as little as 0.35 CFM of air. If the controller does not sense enough air pressure, the motor and spindle will not operate. The routing system is also available with an optional air actuated chuck that allows for automatic tool changing.

Router spindle



• Applications

The JR 2000 Series Routing Robots are the perfect solution for thin or densely populated boards that do not tolerate stress well. The JR system also handles curved boards, small boards, angled tabs and I/C chip singulation extremely well.

• Controller Specifications

Model	NE52
Power Source	AC120V 50-60Hz
Power Consumption	170W
Weight	12Lb 3.6 oz
Dimensions	W11.85" X D 10.31" X H3.82"

• Motor & Spindle Specifications

Motor Model	EM-401
Spindle Model	NR-402E
Speed	2,000 ~ 40,000rpm
Output	210W
Max. Torque	0.7Kgf•cm
Router Bit Diameter	0.8mm to 3.0mm W/1/8" Shank
Router Bit Life	2,000cm Approximately
Weight	2Lb 4.6oz
Dimensions	Ø1.08" X 8.58"

Sold and Serviced by:

fancort industries, inc.
31 Fairfield Pl., West Caldwell, NJ 07006
Ph: (973) 575-0610 Fx: (973) 575-9234

Model Number		JR-2200 Series	JR-2300 Series	JR-2400 Series	JR-2500 Series
Range of operation	X axis	*200mm	300mm	400mm	510mm
	Y axis	*200mm	320mm	400mm	510mm
	Z axis	50mm	100mm	150mm	150mm
Speed	PTP(X,Y)	5~500mm/sec	8~800mm/sec	8~800mm/sec	8~800mm/sec
	PTP(Z)	2.5~250mm/sec	3.2~320mm/sec	3.2~320mm/sec	3.2~320mm/sec
	PTP(R)	6~600	8~800	8~800	8~800
	CP(X,Y,Z)	0.1~500mm/sec	0.1~800mm/sec	0.1~800mm/sec	0.1~800mm/sec
Repeatability accuracy	X,Y axis	±0.01mm	±0.01mm	±0.01mm	±0.01mm
	Z axis	±0.01mm	±0.01mm	±0.01mm	±0.01mm
	R axis	±0.02°	±0.02°	±0.02°	±0.02°
Portable weight	Work	7kg	11kg	11kg	11kg
	Tool	3.5(6.58 2axes)kg	6(11 2axes)kg	6(11 2axes)kg	6(11 2axes)kg
Teaching method		Remote teaching MDI	Remote teaching MDI	Remote teaching MDI	Remote teaching MDI
Drive method		5-phase stepping motor	5-phase stepping motor	5-phase stepping motor	5-phase stepping motor
Control method		PTP and CP	PTP and CP	PTP and CP	PTP and CP
Number of controllable axes		2 axes	2 axes	2 axes	2 axes
		3 axes	3 axes	3 axes	3 axes
		4 axes(360°)	4 axes(360°)	4 axes(360°)	4 axes(360°)
External interface		RS232-C 1ch(1ch option)	RS232-C 1ch(1ch option)	RS232-C 1ch(1ch option)	RS232-C 1ch(1ch option)
External input/output		IN: 16, OUT: 16	IN: 16,OUT: 16(24 I/O option)	IN: 16,OUT: 16(24 I/O option)	IN: 16,OUT: 16(24 I/O option)
PLC function		50 programs, 100 steps/1 program	50 programs, 100 steps/1 program	50 programs, 100 steps/1 program	50 programs, 100 steps/1 program
Program capacity		100 programs	100 programs	100 programs	100 programs
Data memory capacity		6,000 points or 100 programs	6,000 points or 100 programs	6,000 points or 100 programs	6,000 points or 100 programs
Program system		Memory card	Memory card	Memory card	Memory card
CPU		32bit	32bit	32bit	32bit
Dimensions	Width	320mm	560mm	584mm	584mm
	Depth	377mm	529mm	629mm	629mm
	Height	536(655 tall)mm	649(799 tall)mm	799(849 tall)mm	799(849 tall)mm
Weight		18kg	35kg	42kg	42kg
Power source		Dual voltage 100~200V	Dual voltage 100~200V	Dual voltage 100~200V	Dual voltage 100~200V
Consumption current		200VA	200VA	200VA	200VA
Working ambient temperature		0~40°C	0~40°C	0~40°C	0~40°C
Relative humidity		20~95% no condensastion	20~95% no condensastion	20~95% no condensastion	20~95% no condensastion

* Moving range
- CE certified robots are available as an option.
- Specifications may change due to product upgrade without prior notice.