

	Model	Type	Controlled Axes	Installation	Motion Range					Max Motion Speed					Load Capacity at Wrist			Accuracy (Mean Error)	Repeat-ability (Mean Error)	Drive method	Weight Mechanical Unit	Installation Environment	IP Rating		
					J1	J2	J3	J4	J5	J1	J2	J3	J4	J5	Dynamic	Static	Impulse								
F-100iA	104	Articulated	4 axis (J1, J2, J3, J4)	Floor mount, Wall mount, Angle mount (up to 15°)	+225/-25mm	+/-190°	+245/-25mm	+/-360°	-	200mm/s	55°/s	85mm/s	70°/s	25°/s	136kgf (1333N) at center of faceplate -75kgf (735N) at 250mm from 4 axis	158kgf (1548N) at center of faceplate 75kgf (735N) at 250mm from J4 axis	-180kgf (1764N) at center of the faceplate -75kgf (735N) at 250mm from center of the point of intersection of J4 and J5	< 0.25mm at 180mm from center of faceplate	< 0.07mm at 180mm from center of faceplate	Electric servo drive by AC servo motor	111 kg	Ambient Temperature: 0-45°C, Ambient Humidity: Normally: 75%RH or less (no dew, nor frost allowed), Short Time (within one month): Max. 95%RH Vibration: 0.5G (4.9m/s ²) or less	IP54		
	104L				+475/-25mm																130 kg				
	105		5 axis (J1, J2, J3, J4, J5)		+225/-25mm			+/-185°	+/-90°						49°/s	136kgf (1333N) at center of faceplate -52kgf (510N) at 250mm from 4 axis					158kgf (1548N) at center of faceplate 52kgf (735N) at 250mm from J4 axis			120 kg	
	105L				+475/-25mm																				139 kg
	105S				+225/-25mm																				
	105LS				+475/-25mm																				140 kg



Various configurations are available:

- F-100iA/104, 4 axes arm, 136kg payload, 250mm J1 stroke
- F-100iA/104L, 4 axes long arm, 136kg payload, 500mm J1 stroke
- F-100iA/105, 5 axes arm, 136kg payload, 250mm J1 stroke
- F-100iA/105L, 5 axes long arm, 136kg payload, 500mm J1 stroke
- F-100iA/105S, 5 axes arm, 136kg payload, 250mm J1 stroke with versatile wrist
- F-100iA/105LS, 5 axes long arm, 136kg payload, 500mm J1 stroke with versatile wrist

THE FANUC ROBOT F-100*i*A IS A FLEXIBLE, PROGRAMMABLE FIXTURING UNIT COMPRISED OF ACCURATE AND REPEATABLE SERVO POSITIONERS THAT PRECISELY POSITION LOCATING PINS AND CLAMPS USING MATHEMATICAL DATA GENERATED BY OFF-LINE SIMULATION. THE FANUC ROBOT F-100*i*A SERIES ARE IDEAL COMPANIONS FOR FANUC ROBOTS IN SPOTWELDING AND EVERY APPLICATION WHERE PRECISE POSITIONING OF PARTS IS NECESSARY.

» FEATURES AND BENEFITS

F-100*i*A can be used in:

- Arc welding
- Spot welding
- Polishing, deburring

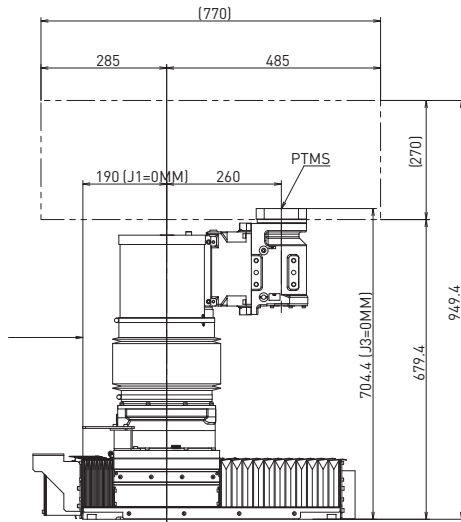
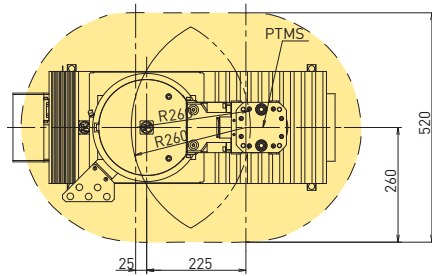
PROGRAMMABLE FIXTURING: COST DOWN, FLEXIBILITY UP

- Multiple work pieces e.g. car bodies can be processed in a flexible production system by F-100*i*A with the same clamps and positioning pins.
- With program changes in F-100*i*A replacing hardware tool changes in conventional systems F-100*i*A cuts down retooling times dramatically and results in major cost savings.
- Convertible – rapid model changeovers
- Ergonomic – can optimize load height to suit operator
- Cost effective – less costly to process, design and build
- Reprogrammable and reusable
- Software shimming – easy to setup, tune-in and debug
- Reduced tooling complexity – less tool maintenance and down time
- Standardized solution – less retraining required
- Fully off-line programmable
- Reduces floor space requirements

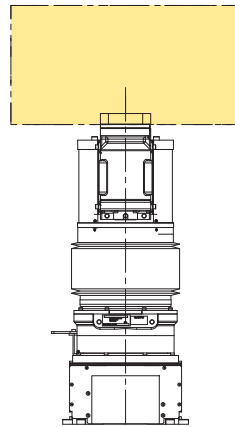


F-100iA/104

Top view



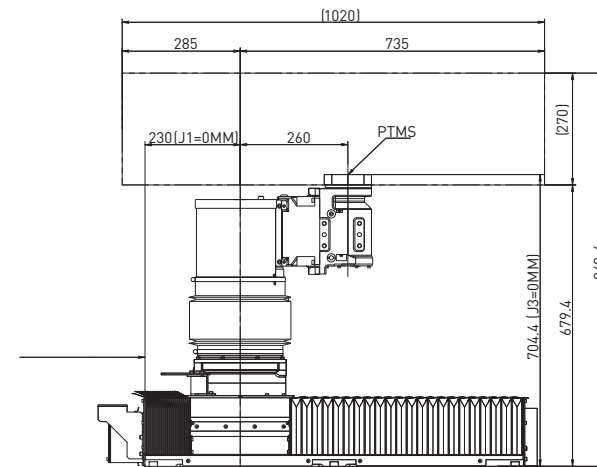
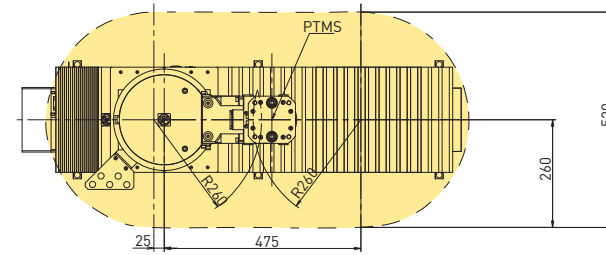
Front



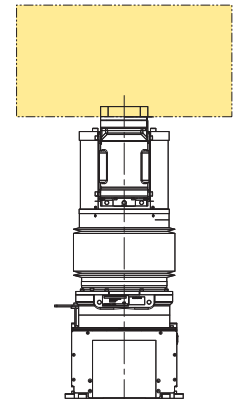
Side

F-100iA/104L

Top view

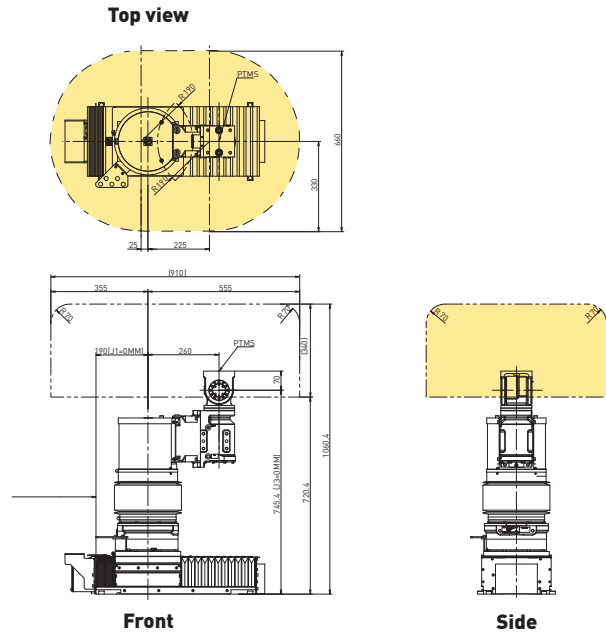


Front

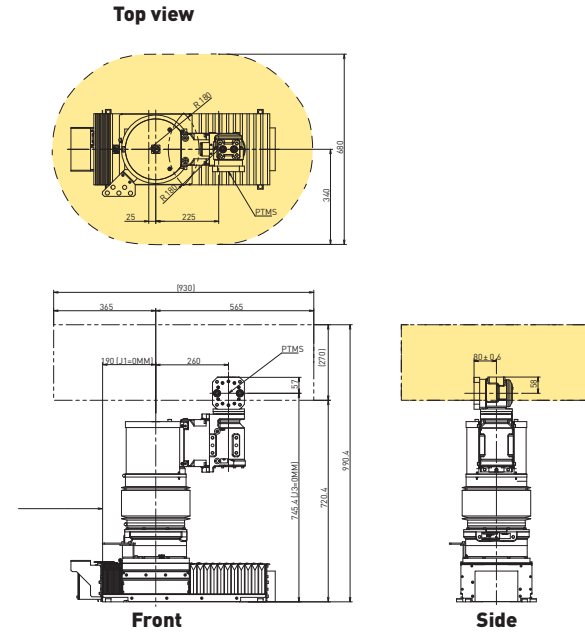


Side

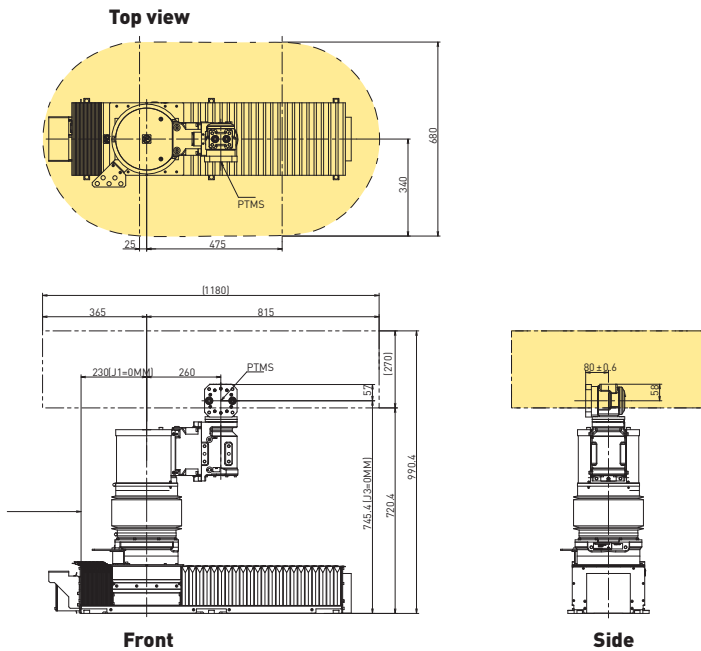
F-100iA/105



F-100iA/105S



F-100iA/105LS



F-100iA/105L

