

| | 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 | - | 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° | | | | | 200mm/s | 55°/s | 85mm/s | | | | | 70°/s | | | 25°/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 | -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 | 120 kg |
| | 105L | | | | +475/-25mm | | | | | | | | | | | | | | | | | | | | | | | | | | 121 kg |
| | 105S | | | | +225/-25mm | | | | | | | | | | | | | | | | | | | | | | | | | | 139 kg |
| | 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

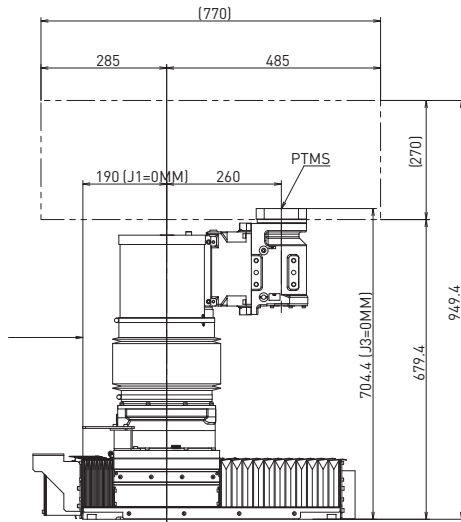
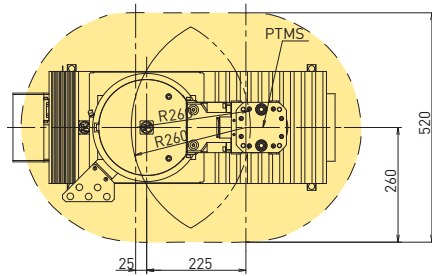
PROGRAMMABLE FIXTURING: COST DOWN, FLEXIBILITY UP

- 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

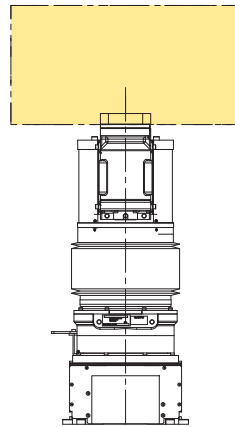


F-100iA/104

Top view



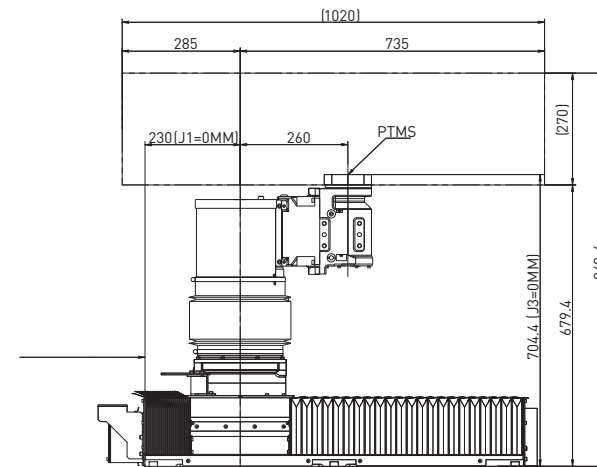
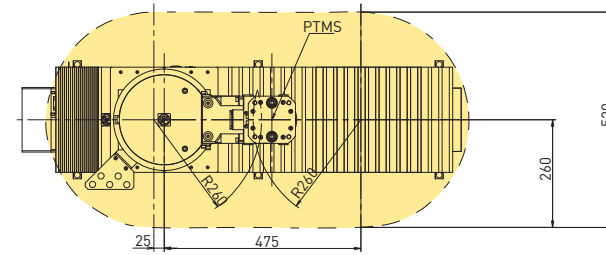
Front



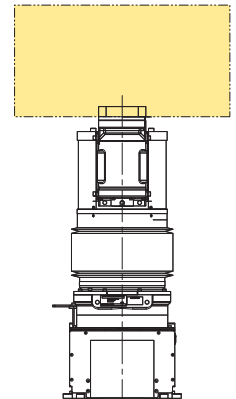
Side

F-100iA/104L

Top view

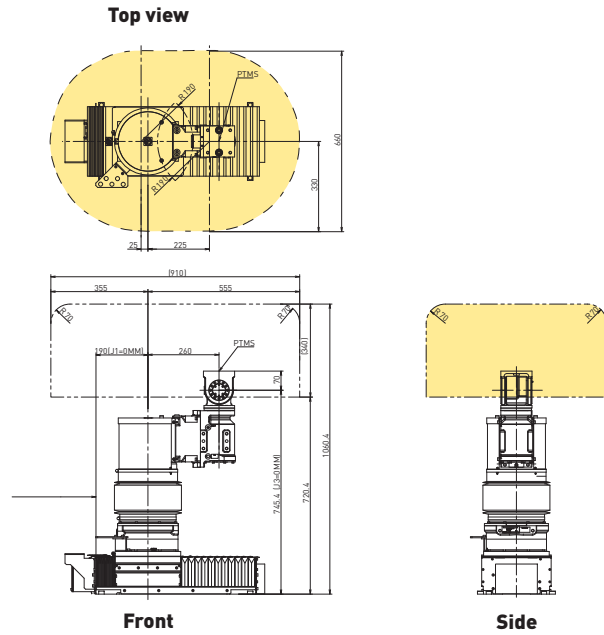


Front

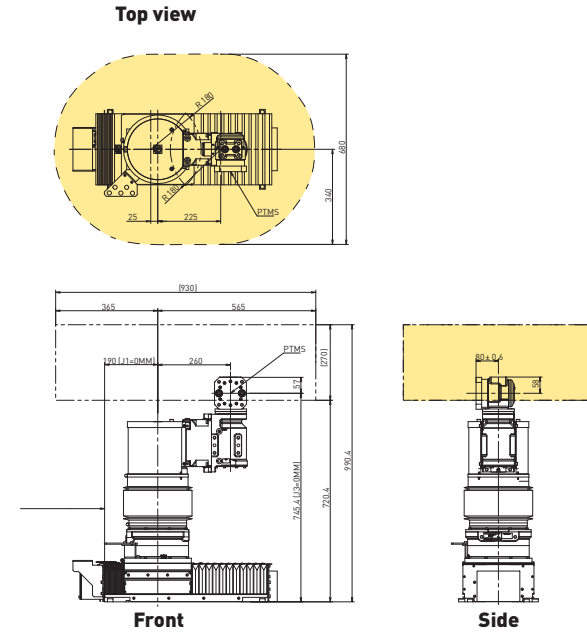


Side

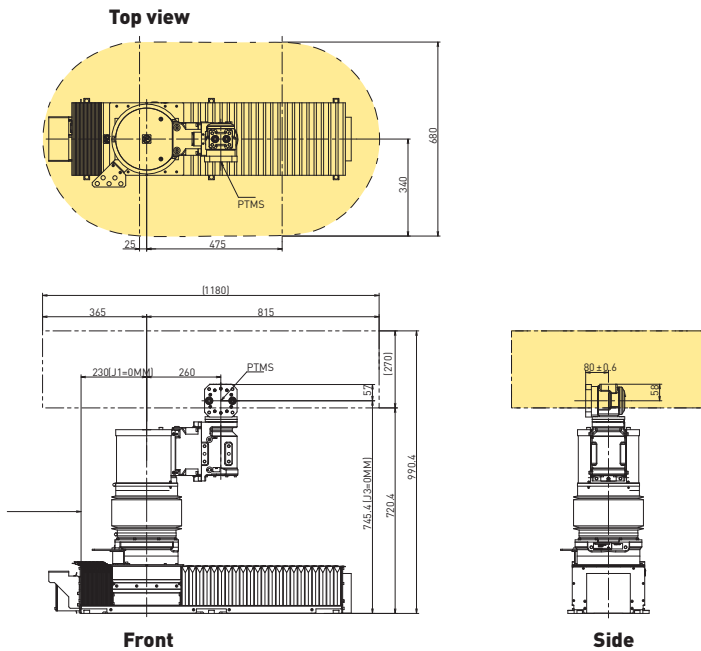
F-100iA/105



F-100iA/105S



F-100iA/105LS



F-100iA/105L

