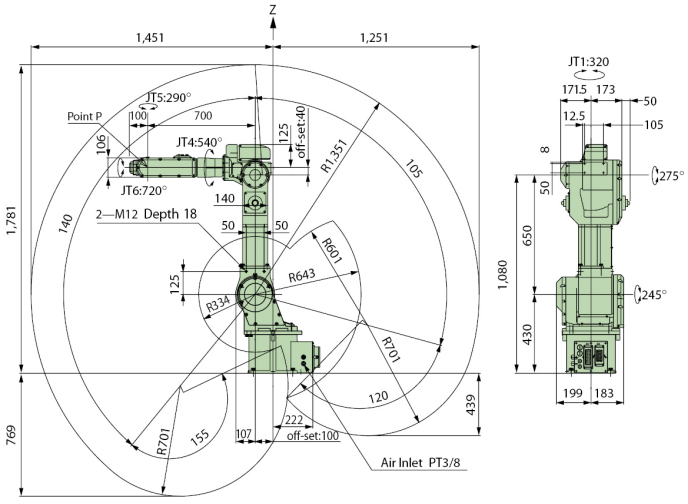
# FS10E

## Product Specification

### Standard Applications:

- Arc Welding
- Dispensing
- Sealing
- Material Handling
- Machine Tending
- Material Removal
- Assembly
- Inspection

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|---|---|---|---|
| Arm Type | Articulated | | |
| Degrees of Freedom | 6 (Optionally 7) | | |
| Axes Work Envelope and Maximum Speed | **Axis** | **Work Envelope** | **Maximum Speed** |
| | Arm Rotation (JT1) | ± 160° | 200° /s |
| | Arm Out-In (JT2) | +140° ~ -105° | 140° /s |
| | Arm Up-Down (JT3) | +120° ~ -155° | 200° /s |
| | Wrist Swivel (JT4) | ± 270° | 360° /s |
| | Wrist Bend (JT5) | ± 145° | 360° /s |
| | Wrist Twist (JT6) | ± 360° | 600° /s |
| | Arm Traverse (JT7) | Standard 2000 mm | 1200 mm/s |
| Position Repeatability | ±0.1 mm (at center of tool mounting surface) | | |
| Payload | 10 kg | | |
| Maximum Linear Speed | 8800 mm/s (Maximum Linear Interpolation Speed: 1600 mm/s) | | |
| Wrist Load Capacity | ( kgf * cm * s$^2$ ) ( kg * m$^2$ ) ( NOTE )<br>Moment of Inertia<br>JT4,5<br>Calculate precisely when wrist load is near the boundary zone on the left diagram because the scale is not accurate.<br>1.45<br>JT6<br>0.375<br>0.63<br>0.15<br>Moment<br>(N * m)<br>(kgf * m) | | |
| Driving Motor | Brushless AC Servomotor | | |
| Mass | 170 kg (excluding options) | | |
| Color | Kawasaki Standard | | |
| Installation | Floor and ceiling mount | | |
| Ambient Temperature<br>Relative Humidity | 0 – 45° C for manipulator<br>35 – 85% non-condensing | | |
| Pneumatic Piping | Built-in Pneumatic Piping | | |
| Power/Signal Cable Length | 7 m | | |
| Built-in Circuit | Built-in Sensor Harness; 4 circuits, 24 VDC, GND | | |
| IP Rating | Wrist–IP67; Arm–IP65 | | |
| Options | Power/Signal Cable Length: 10 m, 15 m | | |
| | Installation | Wall Mount | |
| | Protection | Dust Proof | |
| | Built-in Valve | 1D/2D/1S/2S/1S1D | |
| | Installation Base | Robot Riser 600 mm, Robot Riser 300 mm, Base Plate | |
| | Mechanical Stopper | JT1,2,3 adustable (22.5 deg) | |
| | Cover | Zeroing Surface Protect Cover | |
| Consult us about Maintenance Parts and Spare Parts. | | | |