

PL190

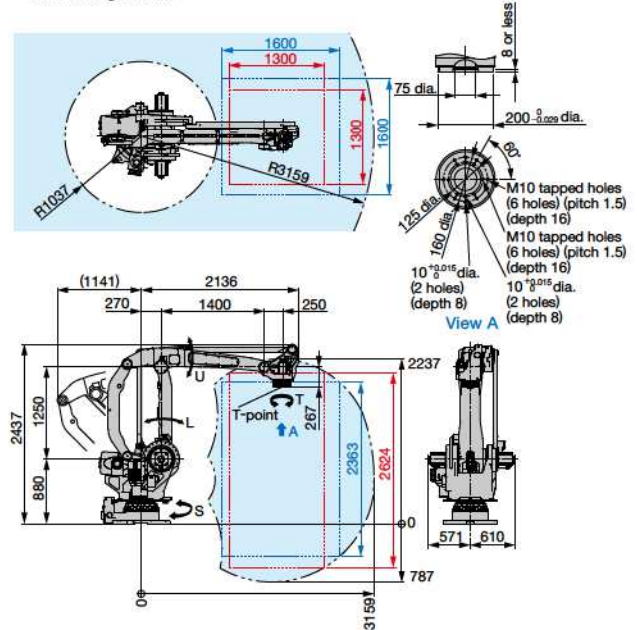
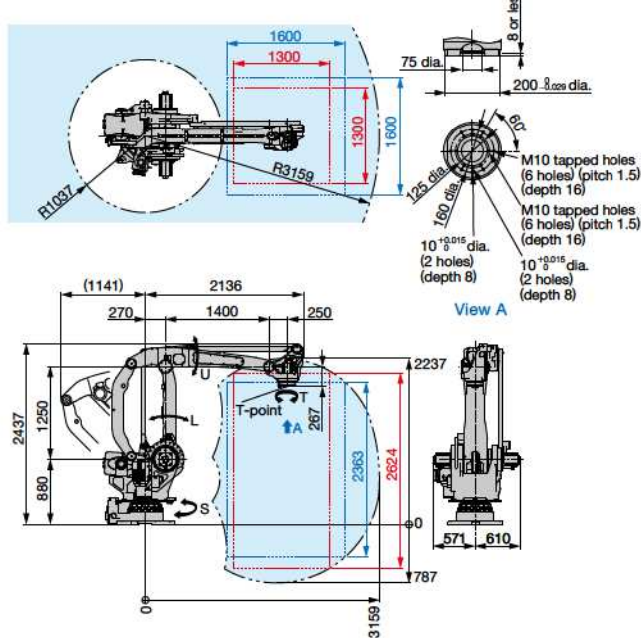


PL320



■ Dimensions Units: mm □: T-point Maximum Envelope

Note: Refer to individual dimension diagrams for detailed dimensions and specifications of the following models.



| Model | MOTOMAN-PL190 | MOTOMAN-PL320 | |
|--|----------------------------|--------------------------------------|-----------------------|
| Type | YR-1-04LXH190-A00 | YR-1-04LXH320-A00 | |
| Controlled Axis | 4 (vertically articulated) | 4 (vertically articulated) | |
| Payload | 190 kg | 320 kg | |
| Maximum Reach | 3159 mm | 3159 mm | |
| Repeatability*1 | 0.05 mm | 0.05 mm | |
| Range of Motion | S-axis (turning) | -180° - +180° | -180° - +180° |
| | L-axis (lower arm) | -45° - +90° | -45° - +90° |
| | U-axis (upper arm) | -120° - +15.5° | -120° - +15.5° |
| | T-axis (wrist twist) | -360° - +360° | -360° - +360° |
| Maximum Speed*2 | S-axis (turning) | 2.44 rad/s, 140°/s | 2.09 rad/s, 120°/s |
| | L-axis (lower arm) | 2.53 rad/s, 145°/s | 1.92 rad/s, 110°/s |
| | U-axis (upper arm) | 2.53 rad/s, 145°/s | 1.92 rad/s, 110°/s |
| | T-axis (wrist twist) | 7.33 rad/s, 420°/s | 5.23 rad/s, 300°/s |
| Allowable Inertia (GD ² /4) | T-axis (wrist twist) | 90 kg·m ² | 160 kg·m ² |
| Approx. Mass | 1680 kg | 1680 kg | |
| IEC Protection Class | Body: IP54, Wrist: IP67 | | |
| Ambient Conditions | Temperature | 0 °C to +45 °C | |
| | Humidity | 20% to 80%RH (non-condensing) | |
| | Vibration | 4.9 m/s ² (0.5 G) or less | |
| | Altitude | 1000 m or less | |
| Power Requirements*3 | 9.5 kVA | 9.5 kVA | |
| Mounting | Floor | | |

*1: Repeatability conforms to ISO 9283.

*2: The maximum speed in this table is the available maximum value and will vary depending on the load, posture, or range of motion.

*3: The power requirement value is obtained using Yaskawa's in-house measurement conditions and will vary depending on the load, motion pattern, or cycle time.