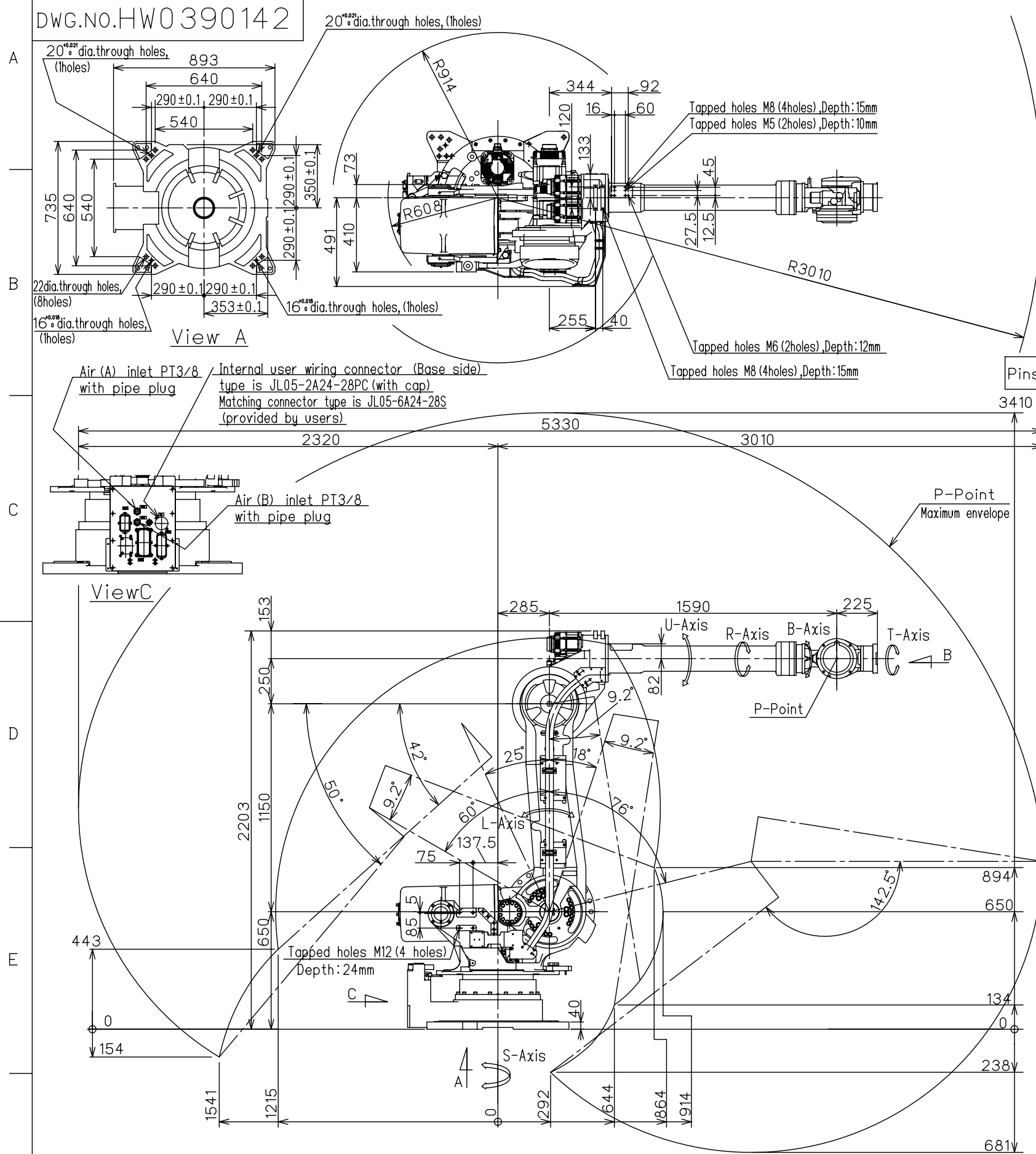


DWG.NO.HW0390142



| Item | Model | MOTOMAN-ES165D-100 |
|--|--------------------|---|
| Configuration | Articulated Robot | |
| Degree of Freedom | 6 | |
| Payload | 100 kg | |
| Repeatability | ±0.2 mm | |
| Range of Motion | S-Axis (Turning) | ±180° |
| | L-Axis (Lower Arm) | +76° -60° |
| | U-Axis (Upper Arm) | +230° -142.5° |
| | R-Axis (Roll) | ±360° |
| | B-Axis (Pitch/Yaw) | ±130° |
| Max Speed | T-Axis (Twist) | ±360° |
| | S-Axis | 1.92 rad/s, 110° /s |
| | L-Axis | 1.92 rad/s, 110° /s |
| | U-Axis | 1.92 rad/s, 110° /s |
| | R-Axis | 3.05rad/s, 175° /s |
| Allowable Moment | B-Axis | 2.62rad/s, 150° /s |
| | T-Axis | 4.19rad/s, 240° /s |
| | R-Axis | 833N·m (85kgf·m) |
| Allowable Inertia (GD ² /4) | B-Axis | 833N·m (85kgf·m) |
| | T-Axis | 490N·m (50kgf·m) |
| | R-Axis | 75kg·m ² |
| Approx. Robot mass | 1120kg | |
| Ambient Conditions | Temperature | 0~+45°C |
| | Humidity | 20~80%RH (Non-condensing) |
| | Vibration | Less than 4.9m/s ² (0.5G) |
| | Others | •Free from explosive or corrosive gas and liquid •Free from dust, oil, of water •Free from electrical noise |
| | Power Requirements | 5KVA |

SI units are used in this table
However, gravitational units are uses in ()
Repeatability is conformed to ISO 9283

| Type | Note |
|----------------|---|
| YR-ES0165D-A15 | Two air lines, 23-wire internal user I/O wiring harness |

REVISEMENTS

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SCALE 1:25

YASKAWA

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TITLE

MOTOMAN-ES165D-100

DIMENSION DIAGRAM

DWG.NO.

HW0390142

REV.