



for a greener tomorrow

RH-CH COMPACT, LOW COST, INDUSTRIAL SCARA ROBOTS

HORIZONTAL TYPE

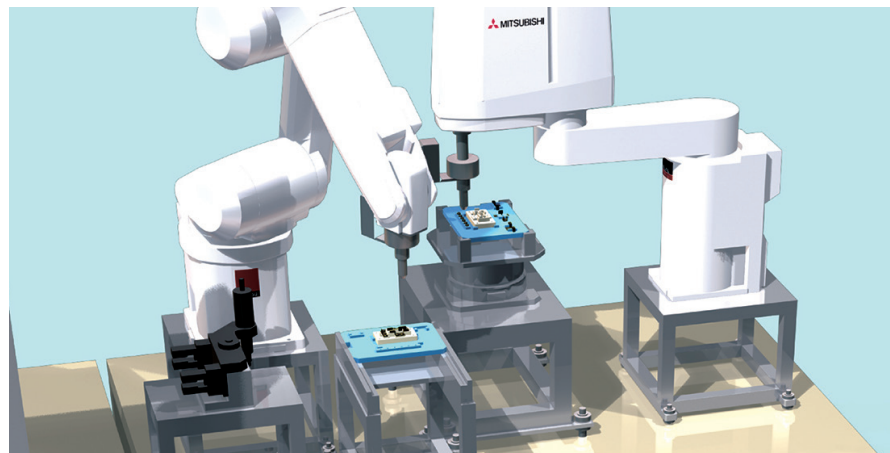
Product Overview



The RH-CH line of compact industrial SCARA robots are lightweight, full function robots ready to meet the needs of today's manufacturers at a price for even the most budget conscious of customers. With a range of payloads, reaches, and protection ratings to choose from, these robots are well suited for Pick & Place, Assembly, Material Handling and Packaging applications. Equipped with the same powerful CR751-D controller found on other F-Series robots, and sporting a number of valuable options as standard equipment, the RH-CH line of robots provide users with excellent value and performance.

BENEFITS

- **Compact, space saving arm** – Required space: 512 mm/560 mm (3CH/6CH robot arm) Reduces floor space requirements
- **Lightweight robot arm** – 14 kg/17 kg/18 kg (3CH40/6CH60/6CH70 robot arm) Easy to handle and install
- **High-speed movement and positioning** – Cycle time 0.44s/0.41s/0.43s (3CH40/6CH60/6CH70) Accommodates processing of more demanding applications
- **Standard equipment** – I/O points: 32 inputs/32 outputs, capable of controlling up to eight axes, thru-arm wiring and piping, 2 channel encoder interface
- **High performance controller** – Same high performance CR751 controller found on other F-Series model robots
- **Easy operation** – Teaching can be easily executed via teach pendant or with the RT-ToolBox3 PC programming software
- **Lower cost** – Reduces the barrier of entry for more budget minded users without sacrificing quality



Industrial Robots RH-3CH40/6CH60/6CH70

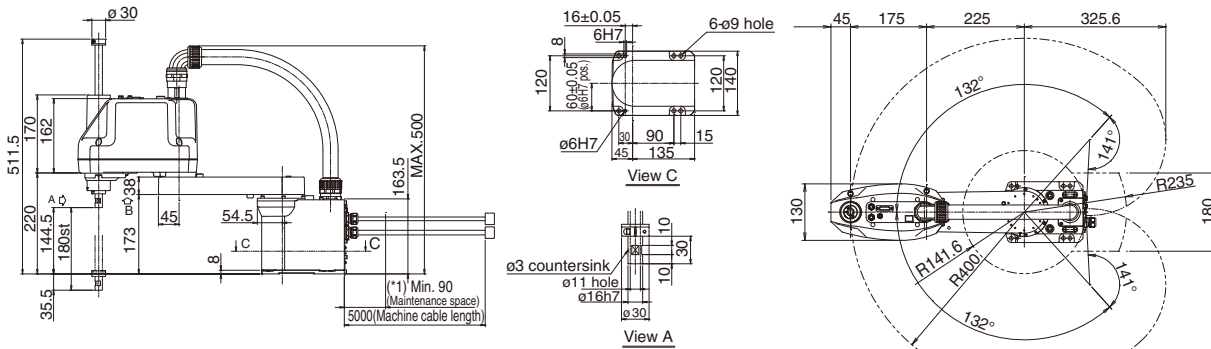


SPECIFICATIONS

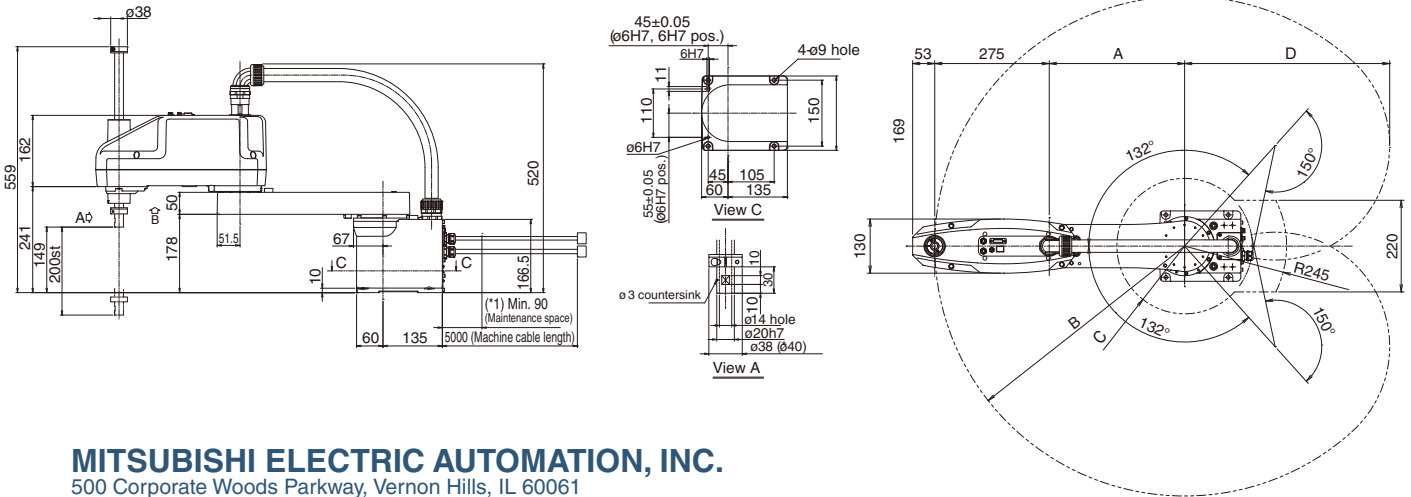
| Model Number | | RH3CH4018S15 | RH3CH4018S24 | RH3CH4018S52 | RH6CH6020S15 | RH6CH6020S24 | RH6CH7020S15 | RH6CH7020S24 | |
|---------------------------------------|------------------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
| Load (kg) | | Maximum: 3 (rated: 1) | Maximum: 3 (rated: 1) | Maximum: 5 (rated: 1) | Maximum: 6 (rated: 2) | Maximum: 6 (rated: 2) | Maximum: 6 (rated: 2) | Maximum: 6 (rated: 2) | |
| Arm Length (mm) | No. 1 Arm | 225 | | | 325 | | 425 | | |
| | No. 2 Arm | 175 | | | 275 | | | | |
| Maximum Reach (mm) | | 400 | | | 600 | | 700 | | |
| Operating Range (deg) | J1 | 264 (±132) | | | | | | | |
| | J2 | 282 (±141) | | | 300 (±150) | | | | |
| | J3 | 180 | 130 | 180 | 200 | 172 | 200 | 172 | |
| | J4 | 720 (±360) | | | | | | | |
| Repeatability | X-Y (mm) | ±0.01 | | | ±0.02 | | | | |
| | J3 (Z) (mm) | ±0.01 | | | | | | | |
| | J4 (θ) (deg) | ±0.01 | | | | | | | |
| Maximum Speed | J1 (deg/sec) | 720 | | | 420 | | 360 | | |
| | J2 (deg/sec) | 720 | | | | | | | |
| | J3 (Z) (mm/sec) | 1100 | | | | | | | |
| | J4 (θ) (deg/sec) | 2600 | | | 2500 | | | | |
| | J1+J2 (mm/sec) | 7200 | | | 7800 | | | | |
| Cycle Time (sec) | | 0.44 | | | 0.41 | | 0.43 | | |
| Allowable Inertia (kgm ²) | Rated | 0.005 | | | 0.01 | | | | |
| | Maximum | 0.05 (0.075) | | | 0.12 (0.18) | | | | |
| Weight (kg) | | 14 | | | 17 | | 18 | | |
| Internal Arm Wiring and Piping | | 15 points, D-SUB, ø6 × 2, ø4 × 1 | | | | | | | |
| Controller | | CR751-D | | | | | | | |

DIMENSIONS

RH-3CH40



RH-6CH60/70



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| Type | A | B | C | D |
|---------|-----|------|--------|-------|
| RH6CH60 | 325 | R600 | R162.6 | 492.5 |
| RH6CH70 | 425 | R700 | R232 | 559.4 |