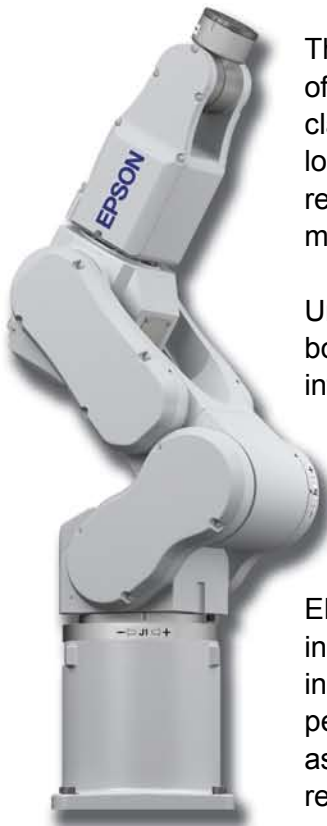


6-Axis Articulated Robots

New, Unique SlimLine Design

- Industry Leading Cycle Rates
- High Rigidity Arm = Ultra High Speed
- Arm Lengths from 600 - 900 mm
- Robust SlimLine Design for Increased Flexibility
- Low Vibration Arm for Smooth Motion
- Compact Wrist Design for Superior Agility
- ISO 3 Clean & ESD Compliant Models Available



The EPSON C4 and C4L robots are part of our new C4-Series of 6-axis robots. C4-Series robots lead the industry with best in class cycle time, precision and motion range. Whether you are looking for high speed, low vibration, higher payloads, longer reach or robots for special environment use, EPSON has the C4 model to fit your application requirements.

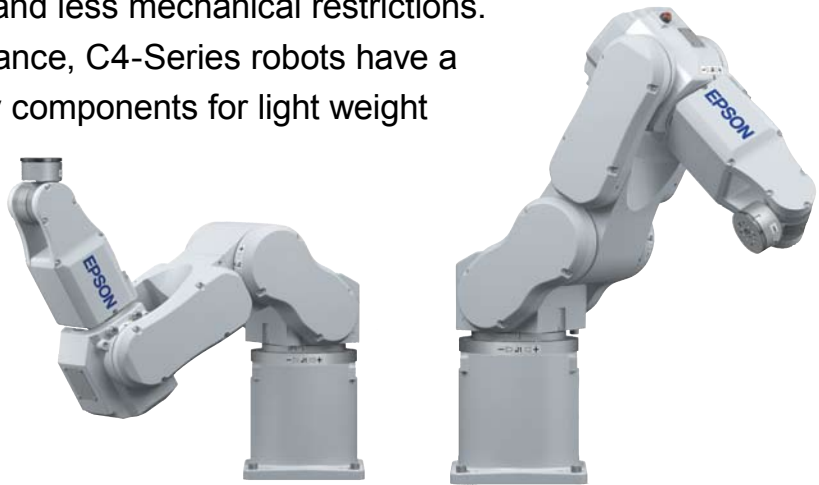
Unique to the C4-Series is EPSON's SlimLine design which features a slim body and compact wrist pitch axis design. This allows the robot to easily reach into confined and restricted work spaces from many angles with smooth motion not achievable with competitive models. The SlimLine body and compact wrist of the C4-Series enables greater motion range and less mechanical restrictions, making C4-Series robots the most flexible 6-axis robots available in the market today.

EPSON C4-Series robots were created with maximum rigidity and performance in mind. Smooth, fast motion is achieved through the combination of high rigidity in the arms along with the superior servo control from our new RC700 high performance controller. Add to that the wide variety of integrated options such as vision guidance, conveyor tracking, etc. and chances are we have the tools required to save you time and money on your next robotic application.

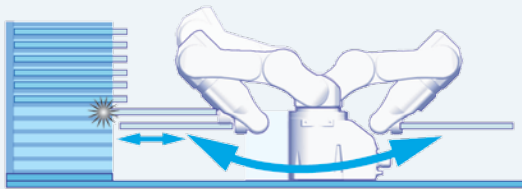
EPSON C4-Series 6 Axis Robots

New, Unique SlimLine Design

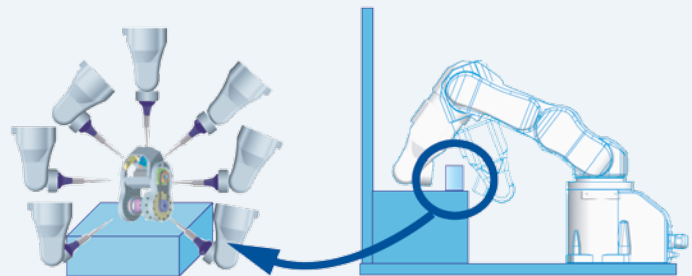
The enhanced new slim body and compact wrist design of the C4-Series allows for greater motion range and less mechanical restrictions. Designed for maximum performance, C4-Series robots have a good combination of high quality components for light weight arms and high rigidity.



Compact Wrist Design



Compact design for easy load and unload



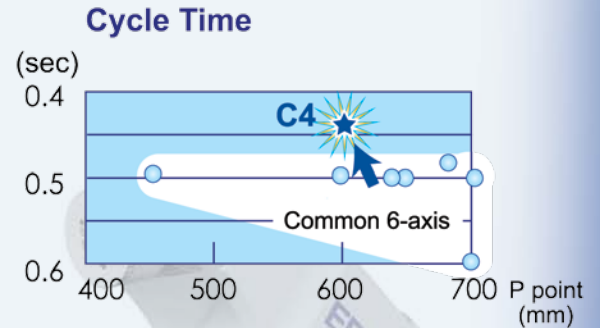
The unique compact wrist pitch axis design enables C4-Series robots to easily reach into confined and restricted work spaces from many angles with smooth motion. The increased motion range of the pitch axis allows superior flexibility for the end of arm tool to accomplish extremely complex applications.

Robust SlimLine Design

Industry Leading Cycle Rates

C4-Series robots are up to 43.9% faster than similar sized competitor models. With the ability to maximize part throughput for even the most demanding cycle time requirements C4-Series robots lead the industry with best in class cycle rates. This means more parts per minute and higher profits.

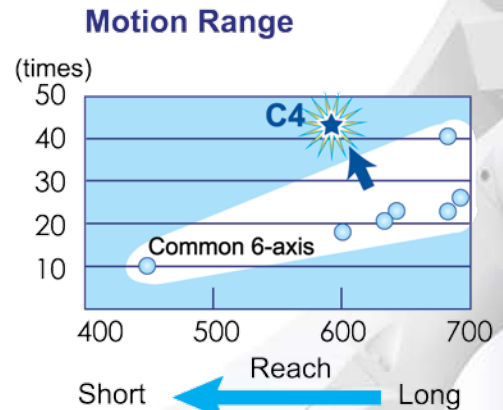
Fast
↑
Cycle time
↓
Slow



Best in Class Motion Range

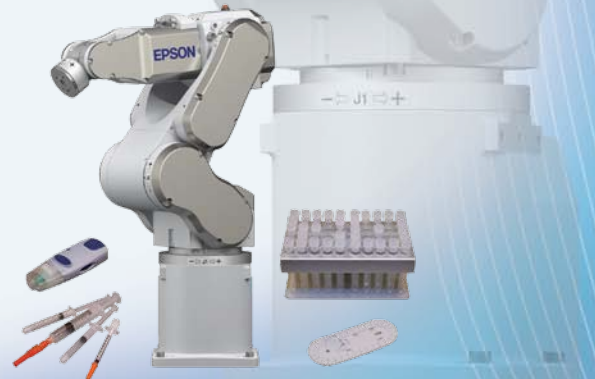
The unique new SlimLine Design of the C4-Series allows for increased motion range. The slim body and compact wrist provide maximum work envelope usage with an extremely compact footprint.

High
↑
Motion range to footprint
↓
Low



ISO 3 Clean & ESD Compliant Models Available

C4-Series robots are available in ISO 3 Clean and ESD compliant configurations. This makes the EPSON C4-Series ideal for those sensitive applications where electrostatic discharge can create defective parts such as in the Electronics Industry for applications like Hard Drive Assembly, Cell Phone Assembly, etc.



EPSON C4 Specifications

EPSON
EXCEED YOUR VISION

| EPSON ROBOT MODEL | | C4-A60*** | C4L-A90*** |
|-----------------------------|------------------|---|-------------|
| Configuration | | Articulated 6 Axis | |
| Mounting Configurations | | Table Top, Ceiling | |
| Payload | | Rated 1 kg / Max. 4 kg (5 kg*1) | |
| Repeatability | | ±0.02 mm | ±0.03 mm |
| Axis Rotation | J1 (Turning) | ±170 deg | |
| | J2 (Lower Arm) | -160 ~ +65 deg | |
| | J3 (Upper Arm) | +225 ~ -51 deg | |
| | J4 (Wrist Roll) | ±200 deg | |
| | J5 (Wrist Bed) | ±135 deg | |
| | J6 (Wrist Twist) | ±360 deg | |
| Horizontal Reach | to mounting face | 665 | 965 |
| | to wrist center | 600 | 900 |
| Vertical Reach | to mounting face | 885 | 1185 |
| | to wrist center | 820 | 1120 |
| Speed | J1 | 450 deg/sec | 275 deg/sec |
| | J2 | 450 deg/sec | 275 deg/sec |
| | J3 | 514 deg/sec | 289 deg/sec |
| | J4 | 555 deg/sec | |
| | J5 | 555 deg/sec | |
| | J6 | 720 deg/sec | |
| Cycle Time | 1 kg workload | 0.37 sec | 0.47 sec |
| Allowable Moment | J4 | 4.41 N*m | |
| | J5 | 4.41 N*m | |
| | J6 | 2.94 N*m | |
| Moment of Inertia | J4 | 0.15 kg*m ² | |
| | J5 | 0.15 kg*m ² | |
| | J6 | 0.1 kg*m ² | |
| Motor Ratings | Axis 1 | 400 watts | |
| | Axis 2 | 400 watts | |
| | Axis 3 | 150 watts | |
| | Axis 4 | 50 watts | |
| | Axis 5 | 50 watts | |
| | Axis 6 | 50 watts | |
| Environment | Temperature | 0 ~ 40 deg C | |
| | Humidity | 20 ~ 80% RH (no condensation) | |
| | Other: | Keep away from: *Flammable/corrosive gases *Flammable/corrosive solvents *Water or oil and powder dust *Sources of electric noise | |
| Weight | | 27 kg | 29 kg |
| User Lines | | 9pin (D_sub) electric, 4 Pneumatic | |
| Brakes | | All axes | |
| Safety Regulations | | ANSI/RIA 15.06, CE, RoHS Directive, JIS B 8433-1 EN ISO 12100-1, EN ISO 12100-2, EN ISO 10218, EN 60204-1, EN ISO 13849-1, EN 55011, EN 61000-6-2 | |
| Optional Arm Configurations | Clean | ISO 3 Clean & ESD | |
| Available Controller | | RC700 Controller | |



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*1 Some limitations exist at payloads above 4kg. Contact EPSON Robots for details.
Specifications are subject to change without notice.

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