ABOUT EPSON

Epson Factory Automation belongs to the leading companies for high-tech robot systems which are appreciated worldwide for their renowned reliability. As well as Epson 6-axis robots, SCARA robots and the Epson Spider with overhead mounting and controllers make up the product line.

Technological leader

- In-house research and development department for automation processes
- One of the world's most comprehensive SCARA model ranges
- 1982

First freely available Epson SCARA robot in Japan

• 1986

The world's first cleanroom robot of class 1

• 1997

First PC-based controller

• 2008

Inventor of the SCARA G3 robot with left and right arm orientation

Inventor of the Spider: a one-of-a-kind SCARA robot with 450° envelope • 2013

Vibration control thanks to Epson

QMEMS® sensor technology:

at first for robotics!

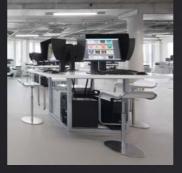
Pre and after sales support

- Feasibility studies for maximum planning and project security
- Support during planning and implementation
- Introductory seminars, programming, maintenance or operator trainings
- Inspection and individual maintenance concepts
- Hotline service, on site repair service
- Central spare part stocking

EPSON INDUSTRY SOLUTIONS CENTRE — WHERE WE FIND YOUR SOLUTION!









See all Epson robots in action. Our experts help you to set up, simulate and optimise your automation application in a

The cell can be controlled and networked with all standard fieldbus systems. In addition, we provide up-to-date peripheral equipment such as a Vision and Conveyor

Would you like to arrange an appointment?

Call us at +49 2159 538 1800

or write us an e-mail at robot.infos@epson.de

Epson Deutschland GmbH

Factory Automation Division Otto-Hahn-Straße 4 40670 Meerbusch

Phone: +49 2159 5381800 Fax: +49 2159 5383170 E-mail: robot.infos@epson.de Epson China Co, Ltd. www.epson.de/robots

Epson America Inc. www.robots.epson.com

Seiko Epson Corp www.epson.jp/e/products/fa/

www.epson.com.cn

EPSON 6-AXIS ROBOT PROSIX C4, C4L







THE COMPARATIVE **OF GOOD? BETTER!**

As one of the pioneers in robotics, we can't let go - the development of new features and the continual optimisation of our robot systems.

Always striving for added value: more efficiency for your application.

Voilà, here are the new Epson 6-axis robots: the ProSix C4 and its big brother, the ProSix C4L.

The new Epson ProSix C4L has a reach of 900 mm, but thanks to the particularly slim arm design, it doesn't take up much space. This makes it unbeatable in its class in terms of space predecessor. optimisation!

The Epson ProSix C4 offers better performance. Here, the lifting capacity was able to be raised to 4 kg; still, the robot is just as light and compact as its

Lighter materials in close quarters – ideal for handling

Epson ProSix C4 Reach 600 mm **Payload** 4kg



EPSON

A first for robotics! Vibration control thanks to Epson QMEMS® sensor technology*.

They are the first of their kind: Our 6-axis robots ProSix C4 and C4L utilise the revolutionary Epson QMEMS® sensor technology, which drastically reduces the vibrations of the kinematics.

This makes it possible to improve production speeds while keeping a consistently stable level of quality during assembly tasks. Whether start speeds are high or deceleration is heavy - strength lies in peace for performance data which appeared unachievable until now.

Suitable for smaller loads requiring far reaches

PROSIX C4, C4L

3

Epson ProSix C4L Reach 900 mm Payload 4kg

*QMEMS is a portmanteau of "Quartz", a crystalline material with excellent charactermechanism system ("MEMS"). QMEMS

MOBILITY

KEEPS COSTS DOWN

The new 6-axis robots ProSix C4 and C4L are part of the successful Epson ProSix series, so that you can get the full potential out of your plant.

The round envelope makes them ideally suited for complex handling of parts or assembly. With their mobility and slim robot design, they are perfectly suited for tight workspaces. Limited interfering contours reduce the risk of collision if there are several robots working in one cell.

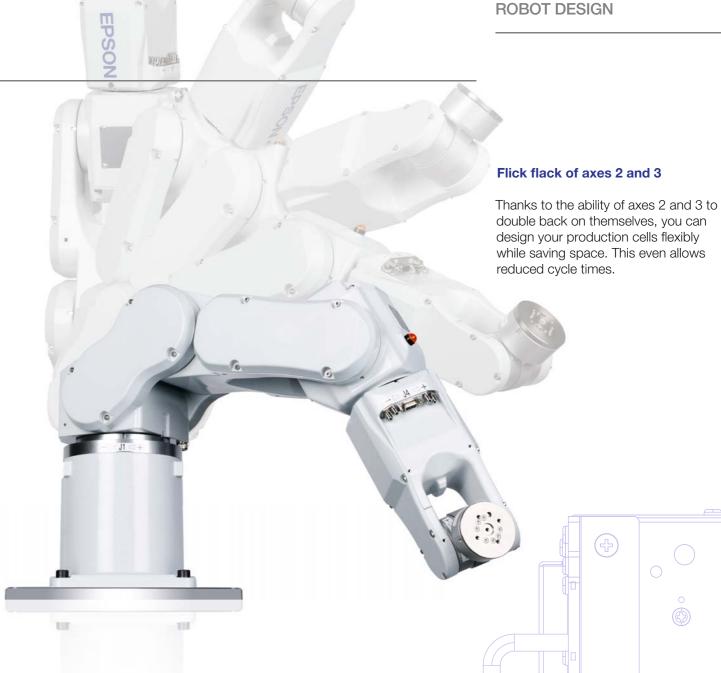
That's what we call efficiency!

Thanks to the innovative, special joint geometry developed by Epson, axis 5 allows a rotation axis of ±135°.

This leads to much greater freedom of movement.

Limited interfering contours due to its slim robot design and integrated media feed-through – lead to maximum plant reliability, simple commissioning and low maintenance





The new Epson RC700 controller

Extremely compact, exceedingly economical and with a remarkable package of services – the new cell controller RC700 can communicate with all common fieldbus systems and is open for connecting to further controllers, sensors, actuators and conveyor belts.





	C4	C4L
Design	Vertical articulated arm	Vertical articulated arm
Payload nom./max.	1/4 kg	1/4 kg
Reach	P-point 600 mm max. 665 mm	P-point 900 mm max. 965 mm
Repeatability	+/-0.02 mm	+/-0.03 mm
Admissible moment of inertia	J4 0.15 kg*m² J5 0.15 kg*m² J6 0.10 kg*m²	J4 0.15 kg*m ² J5 0.15 kg*m ² J6 0.10 kg*m ²
User wiring	electric D-sub connection for 1 x 9-pin plug pneumatic connections for compressed air 4 x Ø 4 mm	electric D-sub connection for 1 x 9-pin plug pneumatic connections for compressed air 4 x Ø 4 mm
Weight	27 kg	29 kg
Controller	RC700	RC700
Mounting type	Base/Cover both also sunk	Base/Cover both also sunk
Environment	Cleanroom class ISO3 & ESD Protection class IP40	Cleanroom class ISO3 & ESD Protection class IP40

J3= axis 3 $\mathbf{J5} = axis 5$ **J4**= axis 4**J6** = axis 6

Scope of delivery

- Epson robot and controller
- Epson RC+ program DVD including simulation software
- 2 sets of mounting brackets for the robot controller
- 3 m mains and signal cable
- 3 m mains cable for the robot controller
- emergency stop connector
- connector for standard I/O
- connector set for user cabling
- 2 sets of air connections (each with 4x straight and 4x 90° angled)
- Manuals on CD
- Installation/safety manual

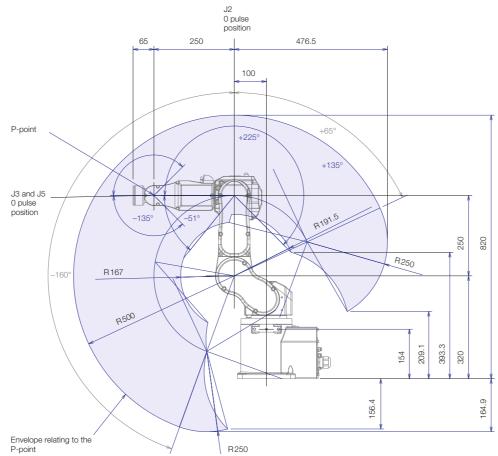
Manipulator options

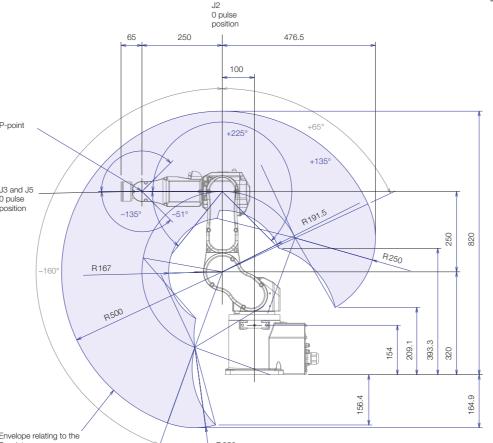
- Longer power and signalling cables (5 m/10 m)
- Brake release unit
- Assembly bracket

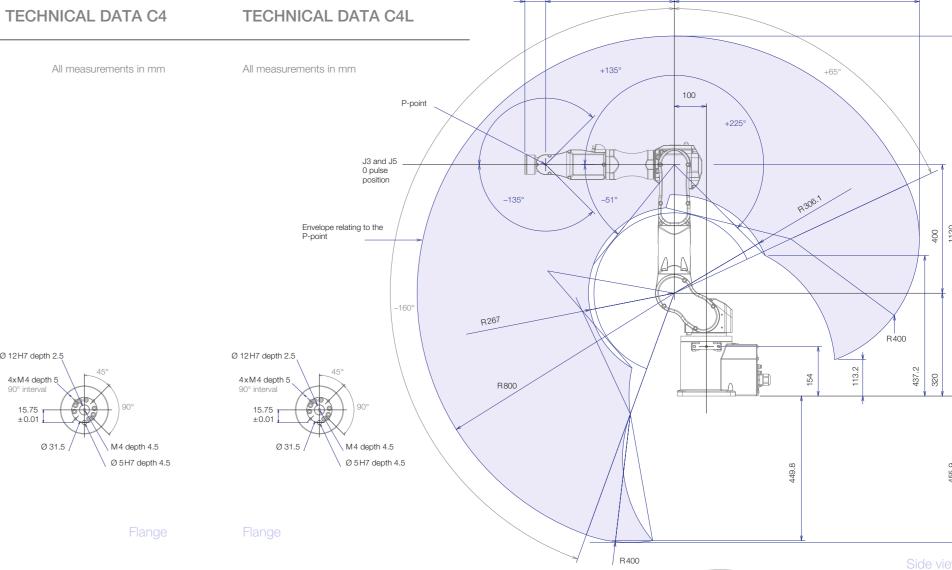
Mounting type

The Epson 6-axis robots ProSix C4 and ProSix C4L can be flexibly installed depending on their application.

As well as floor and ceiling mounting, sunk installation is also possible. Due to the removal of the plug and the cable duct, the envelope is used optimally.

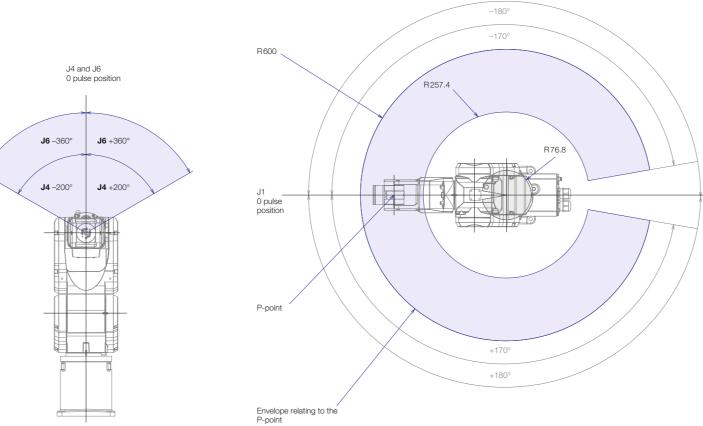






400

762.5



Ø 12H7 depth 2.5

4xM4 depth 5

Ø 31.5 /

90° interval 15.75 ±0.01

