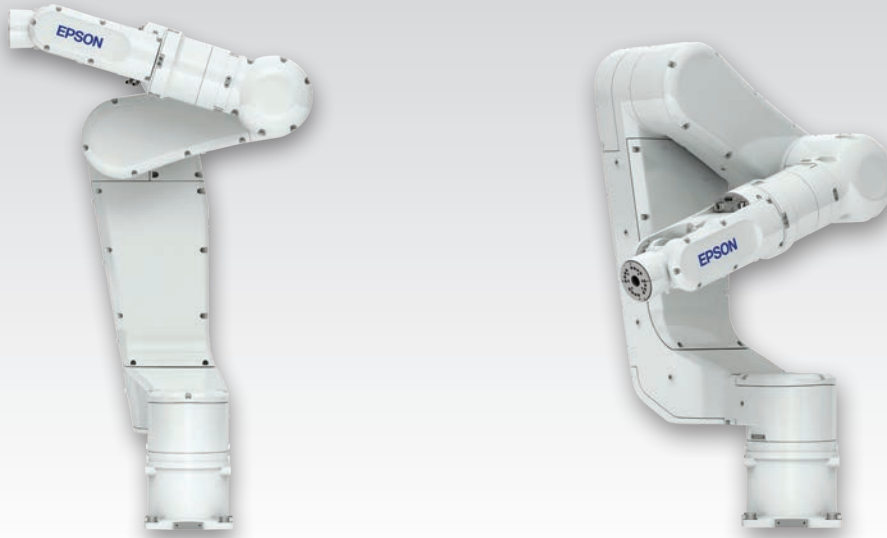


# Flexion™ N6 6-Axis Robot



6-Axis Robot

Factory Automation

## The compact 6-Axis robot with a long reach and revolutionary design.

**World's first folding-arm design** — built for optimum motion and workspace efficiency

**Ideal for confined spaces** — perfect for load/unload applications

**Ultra long reach in a compact design** — strong footprint-to-reach ratio

**Unique tight-space motion capability** — ensures the robot's arm extremities avoid obstacles

**Outstanding motion efficiency** — arm design allows for fast cycle times

**Powerful arm design** — 1,000 mm reach, up to 6 kg payload

**Remarkable speed and precision** — powered by Epson's proprietary Residual Vibration Technology

**Full-featured Epson RC+<sup>®</sup> Development Software** — makes it simple to create powerful solutions

**Integrated vision guidance option** — designed specifically for robot guidance; easily automates simple applications when vision is required

**Other integrated options** — fieldbus interface solutions; RC+ 7.0 API software for open-platform functionality; teach pendants; and customizable GUIs

# Flexion™ N6 6-Axis Robot

## Specifications

**Mounting Type** Tabletop and ceiling  
**Installation Environment** Standard  
**Max. Reach**  
 P Point: Joints 4/5/6 Center 1,010 mm  
 Wrist Flange Surface 1,110 mm  
**Weight** (cables not included) 69 kg: 152 lb  
**Allowable Moment of Inertia**  
 Joint #4: 0.42 kg·m<sup>2</sup>  
 Joint #5: 0.42 kg·m<sup>2</sup>  
 Joint #6: 0.14 kg·m<sup>2</sup>  
**Installed Wire for Customer Use**  
 D-sub 15-Pin, RJ45 8-Pin x 2 (Cat 5e, for Vision and Force Sensor)  
**Installed Pneumatic Tube for Customer Use**  
 ø6 mm x 2: 0.59 MPa (6 kgf/cm<sup>2</sup>: 86 psi)  
**Power**  
 AC200-240 V  
**Robot Cable Length**  
 3 m, 5 m, 10 m, 15 m  
 (Standard and high flex cables available)  
**Power Consumption** 2.5 kVA  
**Applicable Controller** RC700-A  
**Safety Standard**  
 CE Mark: EMC directive, machinery directive, RoHS directive  
 ANSI/RIA R15.06-2012  
 NFPA 79 (2007 Edition)

## Max. Motion Range

Joint #1	±180 deg
Joint #2	±180 deg
Joint #3	±180 deg
Joint #4	±200 deg
Joint #5	±125 deg
Joint #6	±360 deg

## Max. Operating Speed

Joint #1	326 deg/s
Joint #2	326 deg/s
Joint #3	444 deg/s
Joint #4	444 deg/s
Joint #5	450 deg/s
Joint #6	537.8 deg/s

## Repeatability

Joint #1 - 6	±0.04 mm
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## Payload (Load)

Rated	3 kg
Max.	6 kg

## What's in the Box

Flexion N6 6-Axis robot and RC-700A controller  
 Robot power and signal cables  
 Epson RC+ software  
 USB cable  
 E-Stop unit with cable  
 N6 Robot System Safety & Installation Manual  
 Connector set (I/O, hand I/O and safety circuit connectors)

## Support

**Customer Service** (562) 290-5920  
 service@robots.epson.com  
**Applications Support** (562) 290-5930  
 applications@robots.epson.com  
**Sales Inquiries** (562) 290-5997  
 info@robots.epson.com

## Ordering Information

Flexion N6 6-Axis Robot	RN6-A10SS
<b>Options</b>	
Integrated Vision Guidance	R12NZ920H3
OCR (for use with Vision Guide)	R12NZ900AE
Epson RC+ 7.0 API	R12NZ900AH
GUI Builder 7.0	R12NZ900AF
External Control Point (ECP) Option	R12NZ900N3
TP3 – Teach Pendant	R12NZ900L9
TP2 – Teach Pendant	R12NZ900TH
Ethernet/IP Fieldbus I/O (Slave)	R12NZ900NZ
Ethernet/IP Fieldbus I/O (Master)	R12NZ900TE
DeviceNet Fieldbus I/O (Slave)	R12NZ900NX
DeviceNet Fieldbus I/O (Master)	R12NZ900TG

Flexion N6 6-Axis Robot Back Panel



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