EPSON
EXCEED YOUR VISION

SPECIFICATION SHEET

Robots

6-Axis

Flexion™ N6 6-Axis Robot



N6-1000



N6-850

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 — 850 and 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+® 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

Specifications

Model Name		Flexion N6	
Model Number		**N6-A85x**	**N6-A10x**
Mounting Type		Ceiling	Tabletop/Ceiling
Arm Length		860 mm	1,010 mm
Repeatability	(Joint 1-6)	± 0.03 mm	± 0.04 mm
Payload	Rated	3 kg	3 kg
	Max.	6 kg	6 kg
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. Reach	P Point: Joints # 1 - 5 Center	860 mm	1,010 mm
	Flange: Joints # 1 - 6 Flange Surface	960 mm	1,110 mm
Allowable Moment of Inertia	Joint #4	0.42 kg·m^2	
	Joint #5	0.42 kg·m^2	
	Joint #6	0.42 kg·m^2	
User Electric Lines		15-pin (D-sub), 8-pin (RJ45 Cat 5e)	
User Pneumatic Lines		ø6 mm x2	
Brakes		All Axes	
Power		AC 200 – 240 V Single Phase	
Power Consumption		2.2 kVa	
Power Cable Length		3 m/5 m/10 m	
Weight (cables not included)		64 kg	69 kg
Applicable Controller		RC700A	
Installation Environment		Standard, Cleanroom (ISO 5 with ESD)	
Safety Standards		CE Marking, EMC Directive, Machinery Directive KC Mark, KCs Mark ANSI/RIA R15.06-2012	
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)	
Options			
		Vision Guide CV2	Available
		Vision Guide PV1	Available
		OCR (for use with Vision Guide)	R12NZ920H3
		Epson RC+ 7.0 API	R12NZ920AE
		GUI Builder 7.0	R12NZ920AH
		External Control Point (ECP) Option	R12NZ920AF
		TP1 – Teach Pendant	R12NZ900L7
		TP2 – Teach Pendant	R12NZ900L9
		TP3 – Teach Pendant	R12NZ900N3
		Ethernet/IP Fieldbus I/O (Slave)	R12NZ900TH
		Ethernet/IP Fieldbus I/O (Master)	R12NZ900NZ
		DeviceNet Fieldbus I/O (Slave)	R12NZ900TE
		DeviceNet Fieldbus I/O (Master)	R12NZ900NX
		PROFINET Fieldbus I/O (Slave)	R12NZ900TG
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	

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