

# MOTOMAN NEWS RELEASE

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## **MOTOMAN'S HP-SERIES "HIGH-PERFORMANCE" ROBOTS EXCEL AT HANDLING, PACKAGING, PACKING AND PALLETIZING**

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Dayton, Ohio — With payloads from 3-600 kg (6.6-1,323 lbs.), Motoman's dynamic, high-speed HP-series "High-Performance" robots excel at a wide variety of product transfer, packaging, case packing and palletizing applications. Full six-axis flexibility also allows them to perform complex handling motions and other operations in a multi-function workcell. Heavier-payload models are often used in Autonomous Robot Cells<sup>®</sup> where the HP-series robot serves as a highly flexible positioner, manipulating the part for processing by up to three additional robots – all controlled by a single Motoman multiple robot controller.

HP-series robots are compact and require minimal installation space. They can be placed close together to reduce overall floor space requirements or placed close to conveyors and other equipment to improve part/product accessibility. *HP robots and specifications are listed on page two.*

HP-series robots are controlled by the Motoman NX100 robot controller that features a robust PC architecture, Windows<sup>®</sup> CE programming pendant, and easy-to-use INFORM III programming language.

The NX100 offers unmatched multiple robot control capability (up to four robots) to maximize flexibility while minimizing cost of integration and eliminating risk of robot collisions. The NX100 also offers up to 100 user passwords available in several levels, including: user, editor, maintenance, and supervisor. The password restricts and logs the changes made to production programs.

The programming pendant features a color touch-screen display that can be configured as a custom HMI (Human Machine Interface) with buttons and status indicators.

Dual-channel safety features include enhanced E-stop functionality, integrated speed monitoring, manual brake release switches, and compliance with both ANSI/RIA R1506-1999 and Canadian safety standards.

The NX100 controller offers unmatched connectivity through standard Ethernet and other network options, including: DeviceNet, ControlNet, Profibus-DP, and EtherNet/IP.

## HP-SERIES MODELS/SPECIFICATIONS:

ROBOT MODEL	PAYLOAD	HORIZONAL REACH	VERTICAL REACH	REPEATABILITY
HP3	3 kg (6.6 lbs)	701 mm (27.6")	1,163 mm (45.8")	±0.03 mm (0.001")
HP3L Extended reach	3 kg (6.6 lbs)	859 mm (33.8")	1,103 mm (43.4")	±0.04 mm (0.002")
HP5	5 kg (11 lbs)	701 mm (27.6")	1,163 mm (45.8")	±0.03 mm (0.001")
HP6	6 kg (13.2 lbs)	1,378 mm (54.3")	2,403 mm (94.6")	±0.08 mm (0.003")
HP6S Short reach	6 kg (13.2 lbs)	997 mm (39.3")	n/a	±0.08 mm (0.003")
HP6R Shelf-mount	6 kg (13.2 lbs)	1,528 mm (60.2")	2,454 mm (96.6")	±0.08 mm (0.003")
HP6RS Shelf-mount Short reach	6 kg (13.2 lbs)	1,147 mm (45.2")	1,694 mm (66.7")	±0.08 mm (0.003")
HP20-6 Extended reach	6 kg (13.2 lbs)	1,915 mm (75.4")	3,459 mm (136.2")	±0.06 mm (0.002")
HP20	20 kg (44.1 lbs)	1,717 mm (67.6")	3,063 mm (120.6")	±0.06 mm (0.002")
HP50-20 Extended reach	20 kg (44.1 lbs)	3,106 mm (122.3")	5,585 mm (219.9")	±0.15 mm (0.006")
HP50-35	35 kg (77.2 lbs)	2,525 mm (99.2")	4,426 mm (1,74.3")	±0.07 mm (0.003")
HP50	50 kg (110.3 lbs)	2,046 mm (80.6")	3,547 mm (139.6")	±0.07 mm (0.003")
HP165-100 Extended reach	100 kg (220 lbs)	3,010 mm (118.5")	4,091 mm (161.1")	±0.2 mm (0.008")
HP165	165 kg (363.8 lbs)	2,651 mm (104.4")	3,372 mm (132.8")	±0.2 mm (0.008")
HP200	200 kg (441 lbs)	2,651 mm (104.4")	3,372 mm (132.8")	±0.2 mm (0.008")
HP200T Ceiling mount	200 kg (441 lbs)	2416 mm (95.1")	2,911 mm (114.6")	±0.2 mm (0.008")
HP200R Shelf mount	200 kg (441 lbs)	3,140 mm (123.6")	4,722 mm (188.3")	±0.2 mm (0.008")
HP350	350 kg (771.8 lbs)	2,542 mm (100.1")	2,761 mm (108.7")	±0.5 mm (0.02")
HP500	500 kg (1,102.3 lbs)	2,542 mm (100.1")	2,761 mm (108.7")	±0.5 mm (0.02")
HP600	600 kg (1,323 lbs)	2,542 mm (100.1")	2,761 mm (108.7")	±0.5 mm (0.02")

For more information on the HP-series robots, or other Motoman products and services, visit our corporate web site at [www.motoman.com](http://www.motoman.com), call 937.847.6200, or write to Motoman Inc., 805 Liberty Lane, West Carrollton, Ohio, USA 45449.

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