

# MOTOMAN NEWS RELEASE

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## **NEW MOTORAIL™ 7 SERIES IDEAL FOR EXTENDED-REACH APPLICATIONS: ELIMINATES EXPENSIVE ALIGNMENT, REDUCES CYCLE TIMES BY 20%**

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Dayton, Ohio — Motoman's pre-engineered MotoRail 7 Series solutions are ideal for robotic applications requiring extended reach and high throughput, including: machine loading, material handling, welding, deburring, trimming, deflashing, load/unload of injection mold machines, and dispensing. MotoRail is also available in either 20-, 50-, or 130-kg payload versions.

The MotoRail 7 Series features a 7-axis design (single-axis rail and 6-axis robot) with a linear traverse speed of 3.0 meters (9.8 ft.) per second and unmatched 0.1 mm (0.004") total repeatability of both the track and robot. The 7-axis design eliminates the need for expensive alignment of the rail to one or more machine tools and reduces cycle times by 20 percent versus competitors' 6-axis designs. The servo rail is available in several linear travel lengths from 3-21 meters (9.8-68.9-ft). Motoman's high-performance UP130T (overhead-mounted) robot has a 130-kg (286.7-lb) payload with a 2,416-mm (95.1") maximum reach, and a repeatability of  $\pm 0.2$  mm (0.008"). The UP50N robot has a 50-kg (110.3-lb) payload, a 2,046-mm (80.6") maximum reach, and a repeatability of  $\pm 0.07$  mm (0.003"). The HP20 robot has a 20-kg (44.1-lb) payload, a 1,717-mm (67.6") maximum reach, and a repeatability of  $\pm 0.06$  mm (0.002").

MotoRail 7 is also available in a multiple-robot configuration that provides increased throughput. Independent or truly coordinated operation is possible. MotoRail 7 can be used for identical or progressive operations at multiple machining cells. If necessary, one robot can be locked out while the other robot(s) continue to operate.

The advanced XRC 2001 controller or the new NX100 controller controls the robot(s), and track. MotoRail 7 solutions are easily deployed, and can often use existing machine layouts. Rail mounting reduces floorspace requirements and allows better access to parts through machine tool front doors or tops. This configuration also provides easy access for tool changes and part setups.

The rail-mounted configuration allows the robot to service multiple workstations, maximizing productivity and use of capital equipment. Robotic handling increases yield, and reduces handling damage to parts. It can also reduce repetitive motion injuries to human operators, which results in reduced worker compensation claims.

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

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