New high-speed spot welding robot from Kawasaki

Kawasaki Robotics has introduced its latest spot welding robot range designed to meet market demand for faster welding speeds. The B-SERIES range is a completely new ground-up design ideally suited for densely populated robot cells, or stand-alone cells, where minimal space is available.

A lightweight arm design and high-output motors, together with anti-vibration control technology, have helped to reduce the time needed for short-pitch movements. Two payload variants, 100Kgs and 200Kgs, provide repeatability of ±0.2mm and linear speeds of 5Mtrs per second making the range ideal for high-volume spot welding requirements.

The common problem of snagged dress package cables, in crowded cells, has been overcome by integrating the cable into the new B-SERIES robot. The arm and wrist of the robot are hollow allowing the internal routing of cable from the base through to the wrist. In addition to preventing in process snagging this speeds up on-site programming and eliminates 'cable positioning variables' to make off-line programming more efficient.

Further enhancing suitability of the B-SERIES for spot-welding is its small footprint of 0.5Mtrs width and slim arm. Combined with the integrated cable, the compact design allows greater efficiency when populating confined spaces with multiple robots.

Using the latest Kawasaki E42 the B-Series robot has highly accurate trajectory control and faster programming execution. Supporting the robot's small footprint the E42 controller also offers a compact design. Additional axes control is available for applications requiring synchronised manipulation during the weld process.

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Notes to editors:

**Kawasaki Robotics (UK) Ltd** is the UK robotics division of Kawasaki Heavy Industries Japan.

Based in Warrington, Kawasaki Robotics (UK) Ltd occupies a 15,000 Sq. Ft. Building. Its location provides easy access to the main motorway network and is at the centre of its customer base.

The facility centralises all the sales and customer support operations, with areas for customer demonstrations, training, robot test and integration and a large area for stock machines. Over 1,800 machines are now operating in a wide range of industries and applications throughout the UK.

Operating through a network of system partners, automation integrators and also supplying direct to end users, Kawasaki Robotics (UK) Ltd offers experience in the widest range of industry sectors.

**Kawasaki Heavy Industries** introduced its first industrial robot into the Japanese domestic market in 1969 and since then has developed into a world leader in the manufacture of industrial robots. Renowned world-wide for quality and technology in all its engineering systems and products, this philosophy is continued throughout the Kawasaki Robotics divisions.