

SERVO-ROBOT

3D ROBOT-VISION

i-CUBE T - Intelligent Laser-Vision system for seam and feature finding designed for welding robots

i-CUBE-T is an integrated multi-sensing laser vision system designed to bring process intelligence to industrial robots. The system is designed and manufactured by SERVO-ROBOT, the leading global manufacturer of 3D robot vision systems and software for welding automation.

i-CUBE-T helps the robot to precisely locate a weld joint before welding begins, and is used to compensate for dimensional variability in the position and fit-up of work pieces to be welded by a robot.

Its rugged compact cubic design and powerful on-board control electronics make it ideal for the harsh welding environment.

i-CUBE-T drastically simplifies the implementation of robotic processes by integrating multiple key sensing functions, such as very high-speed seam finding, on-the-fly feature detection, remote distance seam tracking, adaptive fit-up compensation, process monitoring, 3D laser range measurement with surface mapping capability, process viewing with color video camera, audio signal acquisition, and others.

With its latest embedded control platform, the **i-CUBE-T** greatly improves the performance of welding robots and increases their use and flexibility in all industries, including automotive, construction, tube & pipe, general industry, etc.



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