

High-speed and high-accurate laser welding

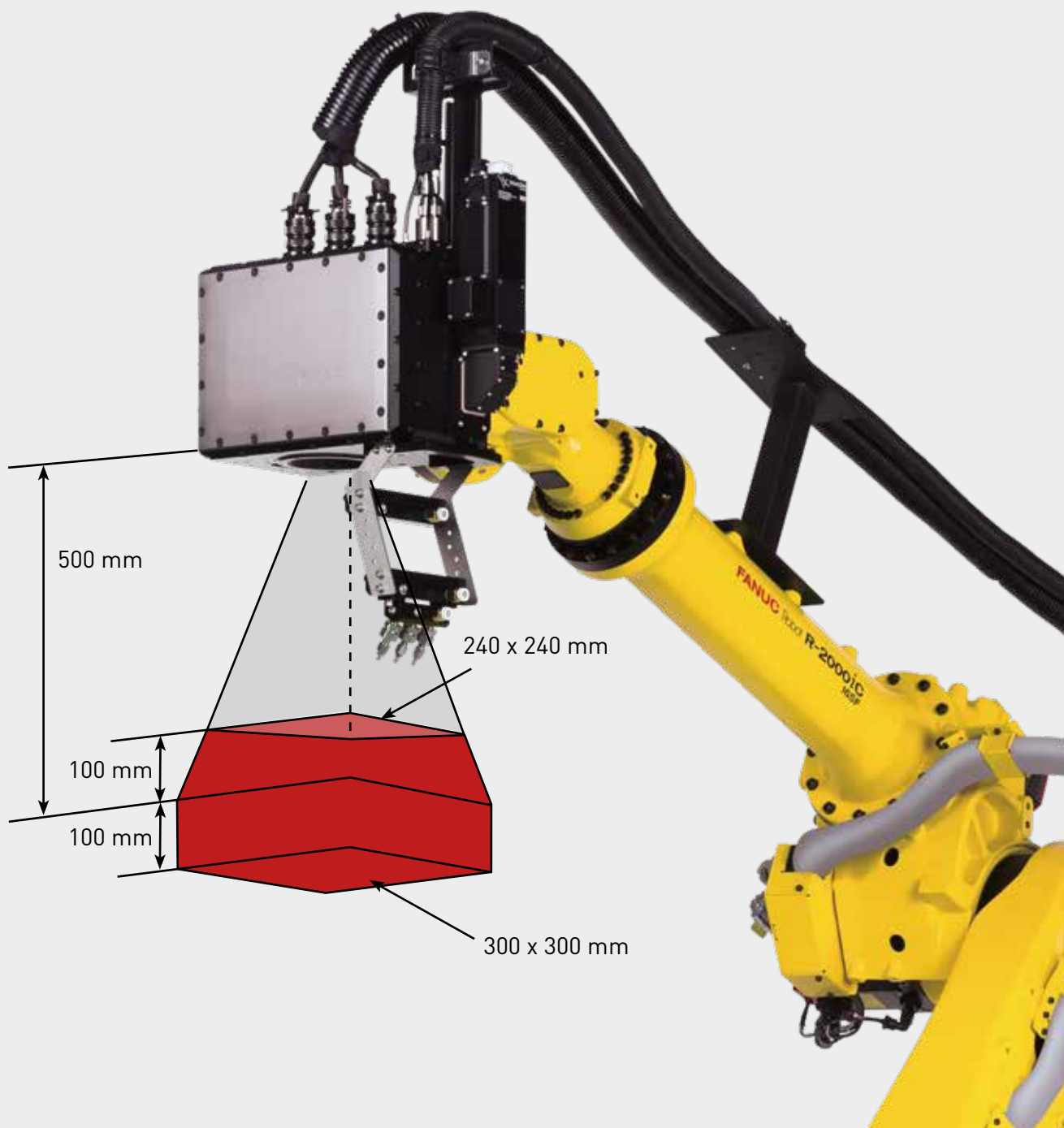
FANUC 3D laser scanner LS3Di-A



Remote laser welding on the fly

The compact and high-precision 3D laser scanner LS3Di-A is designed for mass production requiring a very high laser welding process speed. The FANUC laser scanner can be seamlessly integrated with FANUC robots resulting in the highest synchronization on the fly. It is possible to create both robot and scanner programs simultaneously in ROBOGUIDE, as well as set robot paths and laser output conditions automatically. A welding monitoring sensor, available as an option, can support real-time welding quality inspection.

Work envelope of the FANUC laser scanner LS3Di-A



Specification

Scanner type	3D laser scanner
Maximum laser input	6,000W
Laser wavelength	1,070 nm \pm 10nm
Fiber type	QHB type (water-cooled)
Working space	240 mm x 240 mm (WD. = 400 mm), 300 mm x 300 mm (WD. = 500 mm to 600 mm)
Focal position (Work distance)	500 mm \pm 100 mm
Optical magnification	3.7x
Mass	Main unit: 22 kg