

GA50

HIGH PATH ACCURACY ROBOT FOR LASER AND DISPENSING APPLICATIONS

KEY BENEFITS

Fast speeds and flexibility allow use in a variety of applications

High rigidity and precision drives provide superior path accuracy

High payload supports Remote Laser Welding or cutting laser head

Formcut software automates path generation for multiple shapes

Engineered for easy installation, operation and maintenance

SPECIFICATIONS

50 kg payload

2,038 mm horizontal reach

3,161 mm vertical reach

0.015 mm repeatability

APPLICATIONS

Laser Welding

Material Cutting

Dispensing

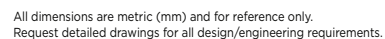
CONTROLLER

YRC1000



- Increase your productivity with the powerful and efficient GA50 robot.
- Six-axis robot offers superior performance for laser cutting small holes and sharp corners, laser welding, plasma cutting and dispensing applications.
- Exceptionally fast axis speeds and acceleration capabilities reduce cycle time and increase production output.
- Path accuracy can be within 0.1 mm (with 30 kg payload) depending on application.
- 50 kg payload capacity easily supports Remote Laser Welding head.
- Reduced interference design allows close proximity placement of robots for high-density workcells.
- Single power and control cable reduces wiring time and increases work efficiency.
- Modular robot harness design for improved diagnostics and maintenance.
- Home position data can be saved without battery connection for easy maintenance.
- The GA50 can be floor-mounted. Brakes are included on all axes.
- Formcut function automatically generates the ideal path to cut shapes based on user-specified geometry. Circle, rectangle, ellipse, pentagon and 2D hexagon shapes are supported with easy definition of shape size and rotation from a single programmed point. The cut motion start and overlap, robot speed, timing options and corner radii are all defined in the cut file.
- Proportional analog generates a control signal corresponding to the speed of the robot. When used with dispensing equipment flow controls, a uniform bead is produced on contoured parts. The signal is available as an analog voltage or on a fieldbus network.
- Compact YRC controller utilizes the lightweight standard teach pendant with intuitive programming.

SPECIFICATIONS



**6-AXIS ROBOT
LEGEND**

- S-Axis: Swivel Base
- L-Axis: Lower Arm
- U-Axis: Upper Arm
- R-Axis: Arm Roll
- B-Axis: Wrist Bend
- T-Axis: Tool Flange