



MC2000 II

LASER WELDING | MATERIAL CUTTING | DISPENSING

KEY BENEFITS

Higher payload for Remote Laser Welding head OR higher path accuracy when using welding or cutting laser head

Formcut software automates path generation for multiple shapes

Typical path accuracies of 0.1 to 0.3 mm depending on application

Fast axial speeds and acceleration reduce cycle times and increase production output

SPECIFICATIONS

50 kg maximum payload

Vertical reach 3,161 mm

Horizontal reach 2,038 mm

±0.07 mm repeatability

CONTROLLERS



DX200



FS100



MLX200

- Powerful, high-speed robot is designed with high rigidity and precision drives to provide superior path accuracy.
- Ideal for laser cutting small holes and sharp corners, laser welding, plasma cutting and dispensing applications.
- Path accuracy can be within 0.1 mm (with 30 kg payload capacity) depending on application.
- Higher 50 kg payload capacity is available for use with Remote Laser Welding head.
- Slim base, waist and arm allow robot to be placed close to workpiece holding fixtures to improve part accessibility.
- Compact design and advanced collision avoidance features with multiple robot control allow up to eight robots (72 axes) to be used together to maximize productivity while minimizing floorspace requirements.
- Floor mounted with brakes on all axes.
- Controller connections through back of robot optimize floorspace.
- Formcut software automatically generates the ideal path to cut shapes based on user-specified geometry. Circle, rectangle, ellipse, pentagon and 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.

