



# **POWERFUL HIGH-SPEED DESIGN**

#### **KEY BENEFITS**

High payload for heavy part processing Engineered for easy installation, operation and maintenance

Single robot-to-controller cable connection enables fast setup

### SPECIFICATIONS

250 kg payload 2,710 mm horizontal reach 3,490 mm vertical reach 0.05 mm repeatability

### APPLICATION

Material Handling Machine Tending Press Tending

#### CONTROLLER

YRC1000



- Increase productivity with the powerful and efficient six-axis GP250 robot.
- 250-kg payload capacity and high moment of inertia ratings provide superior performance for large parts and heavy payload handling applications.
- Exceptionally fast axis speeds and acceleration capabilities reduce cycle time and increase production output.
- Streamlined upper arm allows easy access to parts in tight spots and avoids potential interference with fixtures, improving application flexibility.
- Large work envelope extends behind robot, allowing space for robot tool storage or maintenance.
- Wide wrist motion range eliminates interference and improves application flexibility.
- Reduced interference design allows close proximity placement of robots for high-density workcells.
- Ideal for "jigless" applications where robot positions part for processing by other robots or two robots handle a single part.

- Cables and air lines are routed through robot base to upper arm to increase cable life, enhance safety and reduce teaching time.
- Cable installation tube facilitates fieldbus routing through the S-axis.
- 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 GP250 has an IP67-rated wrist and an IP54 body standard. An XP (eXtra Protection) package that increases the body protection rating to IP65 is available.
- The GP250 can be floor-mounted. Brakes are included on all axes.
- Compact YRC controller utilizes a lightweight standard teach pendant with intuitive programming.

# GP250 ROBOT



**SPECIFICATIONS** 

Axes	Maximum motion range	Maximum speed	Allowable moment	Allowable moment of inertia
	degrees	°/sec	N•m	kg•m²
S	±180	100	-	-
L	+76/-60	90	-	-
U	+197/-77.8	97	-	-
R	±360	120	1,385	317
В	±125	120	1,385	317
Т	±360	190	735	200

Specifications for GP250 with XP package may be different. Mounting Options: Floor

\* The MLX300 software option is not available for use with arc or spot welding applications. MLX300 fieldbus cards, I/O cards and vision equipment must be purchased separately from the supplier. All peripherals are programmed using a PLC.

### OPTIONS

- Robot risers and base plates
- Extended length manipulator cables
- Wide variety of fieldbus cards
- External axes

- PLC integration via MLX300 software option\*
- Functional Safety Unit (FSU)
- MotoSight™ 2D and 3D vision







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