

# GP200S

## HIGH-SPEED SHORT ARM DESIGN

### KEY BENEFITS

Short arm design offers high flexibility and high payload capacity for heavy part processing

Engineered for easy installation, operation and maintenance

Single robot-to-controller cable connection enables fast setup

### SPECIFICATIONS

200 kg payload

1,886 mm horizontal reach

2,295 mm vertical reach

0.05 mm repeatability

### APPLICATION

Material Handling

Machine Tending

Part Transfer

Press Tending

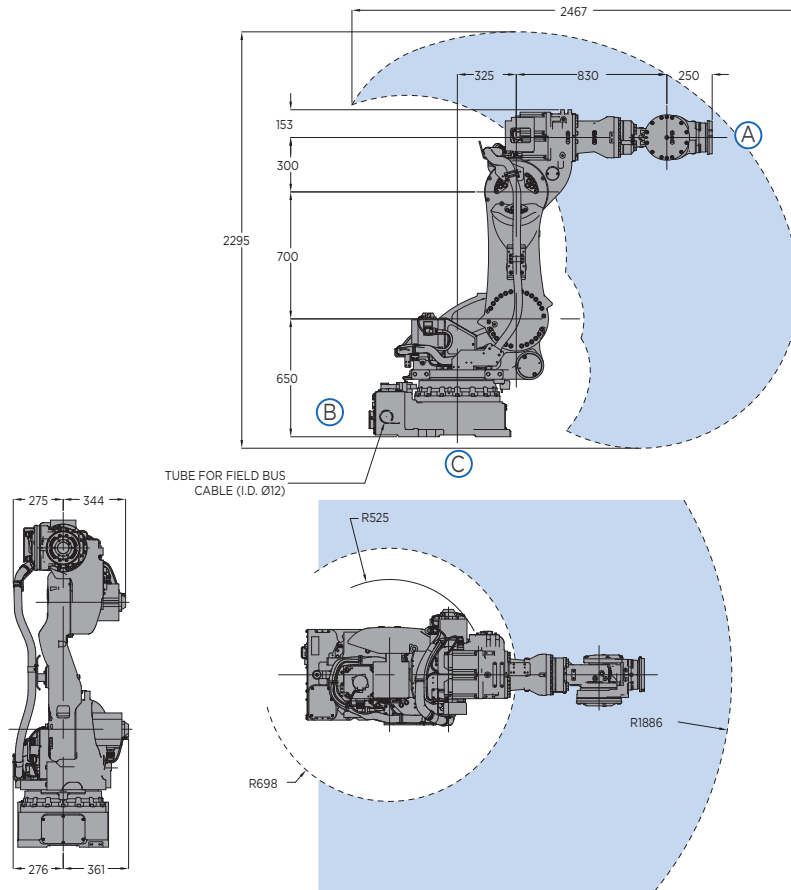
### CONTROLLER

YRC1000

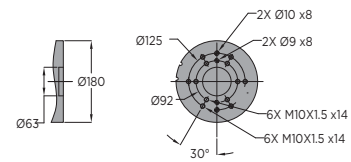


- Increase productivity with the powerful and efficient GP200S robot.
- Short arm, six-axis robot offers greater flexibility for high-payload handling applications.
- 200-kg payload capacity and high moment of inertia ratings provide superior performance for large and heavy handling applications.
- Exceptionally 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.
- 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 GP200S has an IP67-rated wrist and an IP54 body standard.
- The GP200S can be floor-mounted. Brakes are included on all axes.
- Compact YRC controller utilizes a lightweight standard teach pendant with intuitive programming.

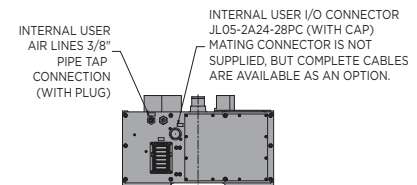
# GP200S ROBOT



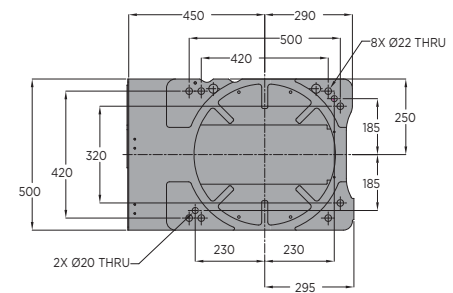
VIEW A



VIEW B



VIEW C



All dimensions are metric (mm) and for reference only.  
Request detailed drawings for all design/engineering requirements.

## SPECIFICATIONS

| Axes | Maximum motion range | Maximum speed | Allowable moment | Allowable moment of inertia |
|------|----------------------|---------------|------------------|-----------------------------|
|      | degrees              | °/sec         | N·m              | kg·m <sup>2</sup>           |
| S    | ±180                 | 120           | -                | -                           |
| L    | +76/-60              | 97            | -                | -                           |
| U    | +90/-86              | 115           | -                | -                           |
| R    | ±360                 | 145           | 1,372            | 145                         |
| B    | ±125                 | 145           | 1,372            | 145                         |
| T    | ±360                 | 220           | 735              | 84                          |

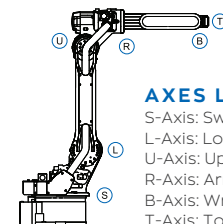
Mounting Options: Floor

\* 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.

| Item                    | Unit | GP200S                  |
|-------------------------|------|-------------------------|
| Controlled axes         |      | 6                       |
| Maximum payload         | kg   | 200                     |
| Repeatability           | mm   | 0.05                    |
| Horizontal reach        | mm   | 1,886                   |
| Vertical reach          | mm   | 2,295                   |
| Weight                  | kg   | 950                     |
| Internal user I/O cable |      | 24 conductors w/ ground |
| Internal user air line  |      | (1) 3/8" connection     |
| Power requirements      |      | 380-480 VAC             |
| Power rating            | kVA  | 5                       |

## 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



### AXES 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

# YASKAWA

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