

YK400XGP

Dust-proof & drip-proof type

- Arm length 400mm
- Maximum payload 4kg

Ordering method

YK400XGP-150

| | | | | |
|--------------|------------------------------------|-------------------------------------------------------------|---------------------------------------------|------------------------------------------------|
| Model | Z axis stroke 150: 150mm | Tool flange No entry: None F: With tool flange | Hollow shaft S: With hollow shaft | Cable 3L: 3.5m 5L: 5m 10L: 10m |
|--------------|------------------------------------|-------------------------------------------------------------|---------------------------------------------|------------------------------------------------|

S

RCX340-4

| | | | | | | | |
|-------------------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|
| Controller / Number of controllable axes | Safety standard | Option A (OP.A) | Option B (OP.B) | Option C (OP.C) | Option D (OP.D) | Option E (OP.E) | Absolute battery |
|-------------------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|

Specify various controller setting items. RCX340 ▶ **P.494**

RCX240S

| | | | | | | |
|-------------------|-------------------|----------------------|-----------------------|-------------------|----------------|----------------|
| Controller | CE Marking | Expansion I/O | Network option | IVY System | Gripper | Battery |
|-------------------|-------------------|----------------------|-----------------------|-------------------|----------------|----------------|

Specify various controller setting items. RCX240/RCX240S ▶ **P.481**



- APPLICATION: Compact single-axis robots
- TRANSERVO: Single-axis robots
- FLIP-X: Linear motor single-axis robots
- PHASER: Cartesian robots
- XY-X: Cartesian robots
- YK-X: SCARA robots
- YP-X: Pick & place robots

Specifications

| | | X-axis | Y-axis | Z-axis | R-axis |
|--------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------|----------------|------------|----------------|
| Axis specifications | Arm length | 250 mm | 150 mm | 150 mm | - |
| | Rotation angle | +/-129 ° | +/-144 ° | - | +/-360 ° |
| AC servo motor output | | 200 W | 150 W | 50 W | 100 W |
| Deceleration mechanism | Speed reducer | Harmonic drive | Harmonic drive | Ball screw | Harmonic drive |
| | Transmission method | Direct-coupled | | | |
| | Motor to speed reducer Speed reducer to output | Direct-coupled | | | |
| Repeatability <small>Note 1</small> | +/-0.01 mm | | +/-0.01 mm | +/-0.004 ° | |
| Maximum speed | | 6.1 m/sec | 1.1 m/sec | 1020 °/sec | |
| Maximum payload | | 4 kg | | | |
| Standard cycle time: with 2kg payload <small>Note 2</small> | | 0.57 sec | | | |
| R-axis tolerable moment of inertia <small>Note 3</small> | | 0.05 kgm ² | | | |
| Protection class <small>Note 4</small> | | Equivalent to IP65 (IEC 60529) | | | |
| User wiring | | 0.2 sq x 10 wires | | | |
| User tubing (Outer diameter) | | φ 4 x 4 | | | |
| Travel limit | | 1.Soft limit 2.Mechanical stopper (X,Y,Z axis) | | | |
| Robot cable length | | Standard: 3.5 m Option: 5 m, 10 m | | | |
| Weight | | 22.5 kg | | | |

Note 1. This is the value at a constant ambient temperature. (X,Y axes)
 Note 2. When reciprocating 25mm in vertical direction and 300mm in horizontal direction (rough-positioning arch motion).
 Note 3. There are limits to acceleration coefficient settings. See P.524.
 Note 4. Do not use robots where the bellows section is directly exposed to water jet. Contact our distributor for information on drip-proof structure preventing liquid other than water.

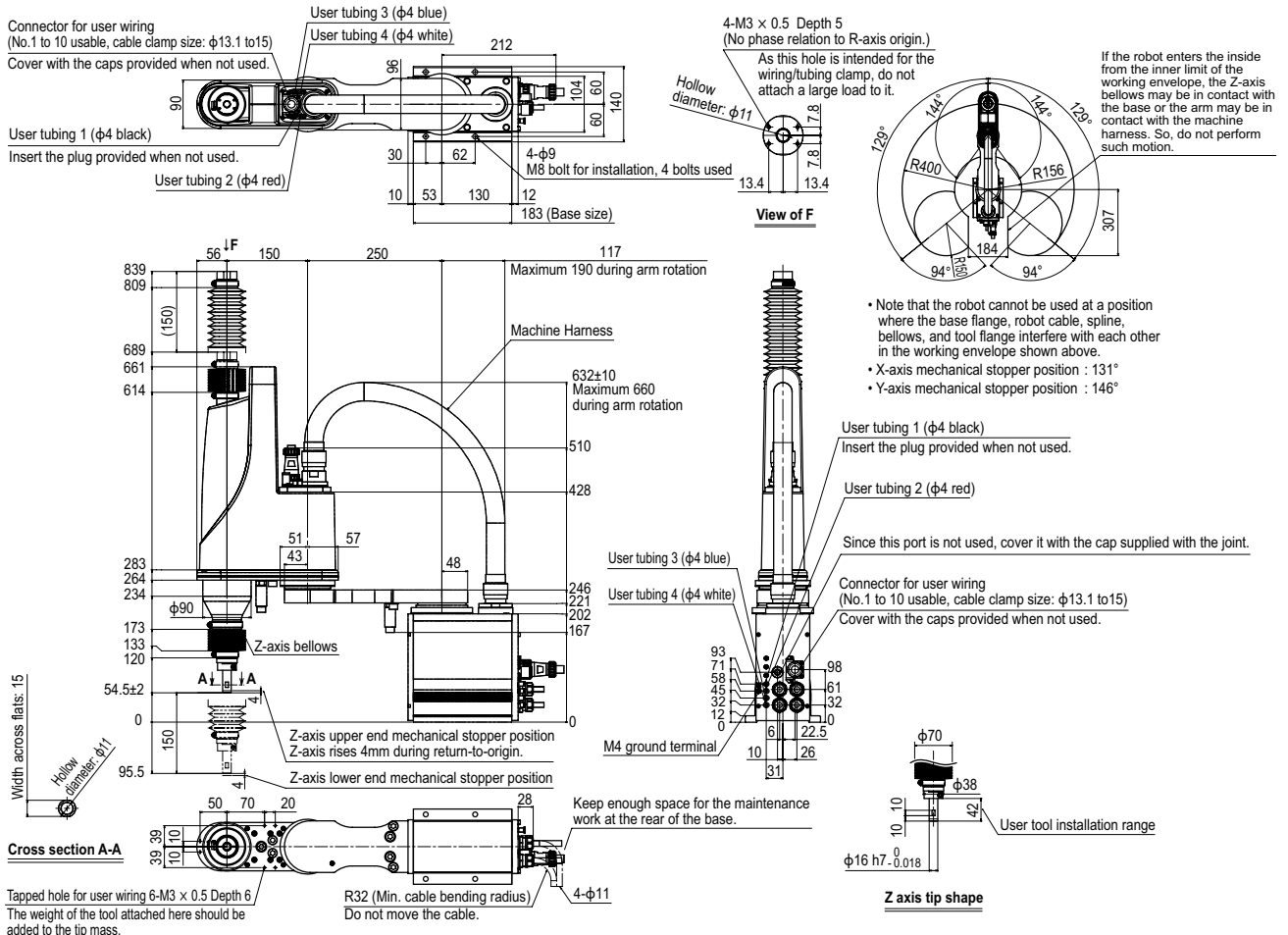
Controller

| Controller | Power capacity (VA) | Operation method |
|-------------------|---------------------|----------------------------------------------------------------------------------------|
| RCX340 RCX240S | 1000 | Programming / I/O point trace / Remote command / Operation using RS-232C communication |

Note. "Harmonic" and "Harmonic drive" are the registered trademarks of Harmonic Drive Systems Inc.
 Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)
 See our robot manuals (installation manuals) for detailed information.
 Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

Our robot manuals (installation manuals) can be downloaded from our website at the address below:
<http://global.yamaha-motor.com/business/robot/>

YK400XGP



- CLEAN
- CONTROLLER INFORMATION
- Ohiv / Tiny type
- Small / Medium type
- Large type
- Wall-mount / Inverse type
- Dust-proof & drip-proof type

Compact
single-axis robots

Single-axis robots

Linear motor
single-axis robots

Cartesian
robots

SCARA
robots

Pick & place
robots

CLEAN

CONTROLLER INFORMATION

Obit/Tiny type

Small / Medium type

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Dust-proof & drip-proof type

YK400XGP Tool flange mount type

