### Ordering method

**YK800XGS**

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Specify various controller setting items. RCX340 ▶ 566

### Controller

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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.

Our robot manuals (installation manuals) can be downloaded from our website at the address below:

https://global.yamaha-motor.com/business/robot/

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### Specifications

- **X-axis**
  - Stroke: 400 mm
  - Speed: 9.2 m/sec
  - Deceleration: 1.0 m/sec²
  - Motor to speed reducer: Direct-coupled
  - Speed reducer to output: Direct-coupled
  - Repeatability: +/-0.02 mm
  - Maximum speed: 9.2 m/sec
  - Maximum payload: 20 kg
  - Standard cycle time with 2kg payload: 0.48 sec
  - R-axis tolerable moment of inertia: 1.0 kgm²
  - Weight: Z-axis 200 mm: 52 kg, Z-axis 400 mm: 54 kg

- **Y-axis**
  - Stroke: 400 mm
  - Speed: 9.2 m/sec
  - Deceleration: 1.0 m/sec²
  - Motor to speed reducer: Direct-coupled
  - Speed reducer to output: Direct-coupled
  - Repeatability: +/-0.02 mm
  - Maximum speed: 9.2 m/sec
  - Maximum payload: 20 kg
  - Standard cycle time with 2kg payload: 0.48 sec
  - R-axis tolerable moment of inertia: 1.0 kgm²
  - Weight: Z-axis 200 mm: 52 kg, Z-axis 400 mm: 54 kg

- **Z-axis**
  - Stroke: 200 mm
  - Speed: 9.2 m/sec
  - Deceleration: 1.0 m/sec²
  - Motor to speed reducer: Direct-coupled
  - Speed reducer to output: Direct-coupled
  - Repeatability: +/-0.02 mm
  - Maximum speed: 9.2 m/sec
  - Maximum payload: 20 kg
  - Standard cycle time with 2kg payload: 0.48 sec
  - R-axis tolerable moment of inertia: 1.0 kgm²
  - Weight: Z-axis 200 mm: 52 kg, Z-axis 400 mm: 54 kg

Note 1. When installing the robot, always follow the specifications.
Do not install the ceiling-mount robot upside down or do not install the inverse type robot to a ceiling.
Incorrect installation can cause trouble or malfunction.

Note 2. When reciprocating 300mm in horizontal and 25mm in vertical directions.

Note 3. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

Note 2. When reciprocating 300mm in horizontal and 25mm in vertical directions.

Note 3. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

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**YK800XGS**

Wall mount / inverse type

- **Arm length** 800mm
- **Maximum payload** 20kg

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**Controller**

- RCX340

**Power capacity (VA)**

- 2500

**Operation method**

- Programming / I/O point trace / Remote command / Operation using RS-232C communication

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**Specifications**

- **Axis specifications**
  - Arm length 400 mm
  - Rotation angle: +/-130°, +/-145°, +/-360°
  - AC servo motor output: 750 W

- **Deceleration mechanism**
  - Transmission method: Motor to speed reducer
  - Speed reducer to output: Direct-coupled

- **Repeatability**
  - Direct-coupled:
    - +/-0.02 mm
  - Speed reducer to output:
    - Direct-coupled
    - +/-0.004

- **Maximum speed**
  - 9.2 m/sec
  - 1.0 m/sec²

- **Maximum payload**
  - 20 kg

- **Standard cycle time with 2kg payload**
  - 0.48 sec

- **R-axis tolerable moment of inertia**
  - 1.0 kgm²

- **User wiring**
  - 0.2 sq × 20 wires

- **User tubing (Outer diameter)**
  - Ø 6 × 3

- **Travel limit**
  - 1. Soft limit
  - 2. Mechanical stopper (X,Y,Z axis)

- **Robot cable length**
  - Z-axis 200 mm: 52 kg
  - Z-axis 400 mm: 54 kg

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**Note**

- This is the value at a constant ambient temperature (X,Y axes)
- When reciprocating 300mm in horizontal and 25mm in vertical directions.
- 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.
- Please consult YAMAHA when connecting other tubes and cables to the self-supporting machine harness.

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**Dimensions**

- **Controller**
  - RCX340

**Installation method**

- Cable

**Tool Flange Mount Type**

- RCX340-4

**Safety standard**

- OP.A
  - RCX
  - OP.B
  - RCX
  - OP.C
  - RCX
  - OP.E
  - RCX
  - OP.F
  - RCX

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**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.

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