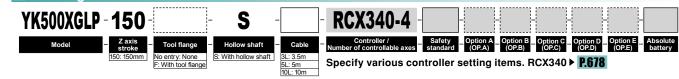
# YK500XGLP

## Dust-proof & drip-proof type

Arm length 500mm Maximum payload 4kg

### Ordering method



Z-axis

R-axis

### **Specifications** X-axis Y-axis

| Axis<br>specifications                       | Arm length             |                         | 250 mm   | 250 mm   | 150 mm     | -          |
|--|------------------------|-------------------------|--|----------|------------|------------|
|  | Rotation angle         |                         | +/-129 °                                       | +/-144 ° | -          | +/-360 °   |
| AC servo motor output                        |                        |                         | 200 W  | 150 W    | 50 W       | 100 W      |
| Deceleration<br>mechanism                    | Transmission<br>method | Motor to speed reducer  | Direct-coupled                                 |          |            |            |
|  |                        | Speed reducer to output | Direct-coupled                                 |          |            |            |
| Repeatability Note 1                         |                        |                         | +/-0.01 mm                                     |          | +/-0.01 mm | +/-0.004 ° |
| Maximum speed                                |                        |                         | 5.1 n  | n/sec    | 1.1 m/sec  | 1020 °/sec |
| Maximum payload                              |                        |                         | 4 kg   |          |            |            |
| Standard cycle time: with 2kg payload Note 2 |                        |                         | 0.66 sec                                       |          |            |            |
| R-axis tolerable moment of inertia Note 3    |                        |                         | 0.05 kgm <sup>2</sup>                          |          |            |            |
| Protection class Note 4                      |                        |                         | Equivalent to IP65 (IEC 60529)                 |          |            |            |
| User wiring                                  |                        |                         | 0.2 sq × 10 wires                              |          |            |            |
| User tubing (Outer diameter)                 |                        |                         | φ 4 × 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                                       |                        |                         | 25 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. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings. 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 Power capacity (VA) Operation method

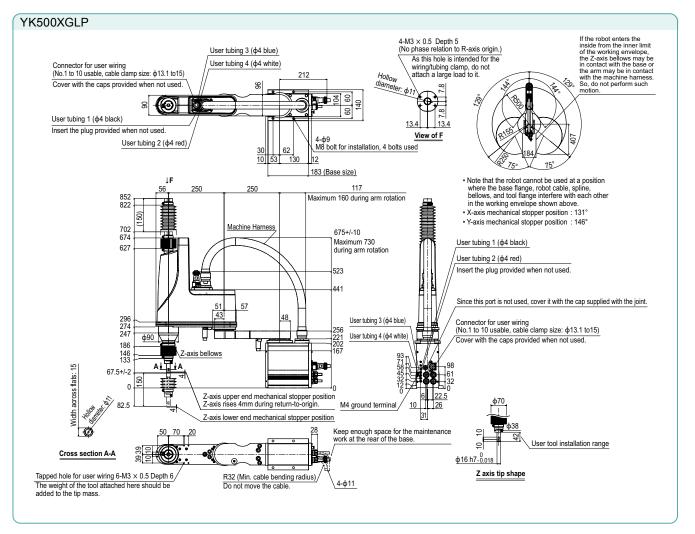
Programming / I/O point trace

Controller

#### 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 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. Note

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

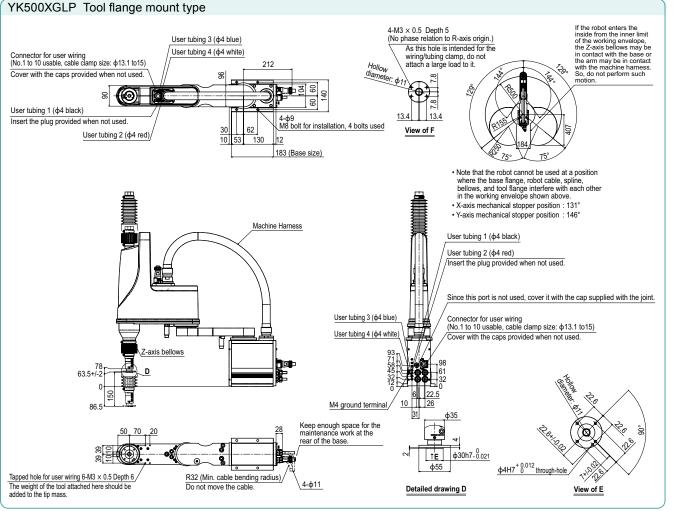


## YK500XGLP



Linear motor obots single-axis robot X PHASER

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controller RCX340 ► 678

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