# YK500XGLC

**Clean type: Medium type**

- Arm length 500mm
- Maximum payload 4kg

## Ordering method

**YK500XGLC - 150 - [ ] - S - [ ] - RCX340-4 - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]**

| Model | Z axis stroke | Tool flange | Hollow shaft | Cable length | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YK500XGLC | 150: 150mm | No entry: None<br>F: With tool flange | S: With hollow shaft | 3L: 3.5m<br>5L: 5m<br>10L: 10m | RCX340-4 | | | | | | | |

Specify various controller setting items. RCX340 ▶ P636

## Basic specifications

| | | X axis | Y axis | Z axis | R axis |
|---|---|---|---|---|---|
| Axis specifications | Arm length (mm) | 250 | 250 | 150 | – |
| | Rotation angle (°) | +/-129 | +/-144 | – | +/-360 |
| AC servo motor output (W) | | 200 | 150 | 50 | 100 |
| Repeatability Note 1 (XYZ: mm) (R: °) | | +/-0.01 | | +/-0.01 | +/-0.004 |
| Maximum speed (XYZ: m/sec) (R: °/sec) | | 5.1 | | 1.1 | 1020 |
| Maximum payload (kg) | | 4 | | | |
| Standard cycle time: with 2kg payload (sec) Note 2 | | 0.66 | | | |
| R-axis tolerable moment of inertia Note 3 (kgm²) | | 0.05 | | | |
| User wiring (sq × wires) | | 0.2×10 | | | |
| User tubing (Outer diameter) | | ϕ4×4 | | | |
| Travel limit | | 1.Soft limit, 2.Mechanical stopper (X, Y, Z axes) | | | |
| Robot cable length (m) | | Standard: 3.5 Option: 5, 10 | | | |
| Weight (kg) | | 25 | | | |
| Degree of cleanliness | | ISO CLASS 3 (ISO 14644-1) Note 4 +ESD Note 5 | | | |
| Intake air (Nℓ/min) | | 30 Note 6 | | | |

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. ESD (ElectroStatic discharge) specifications are custom-ordered. Please contact our distributor.
Note 5. The necessary intake amount varies depending on the use conditions and environment.

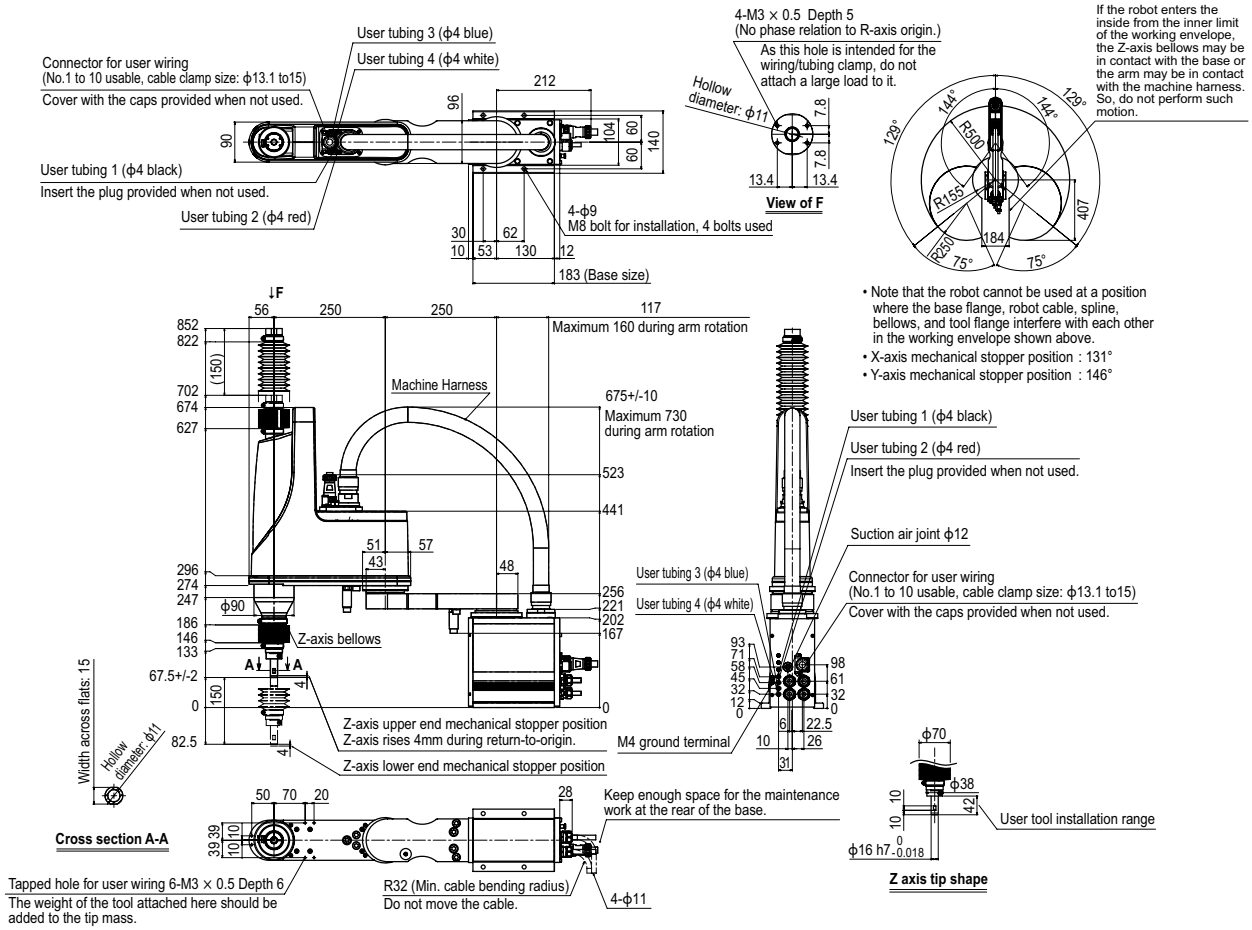
## Controller

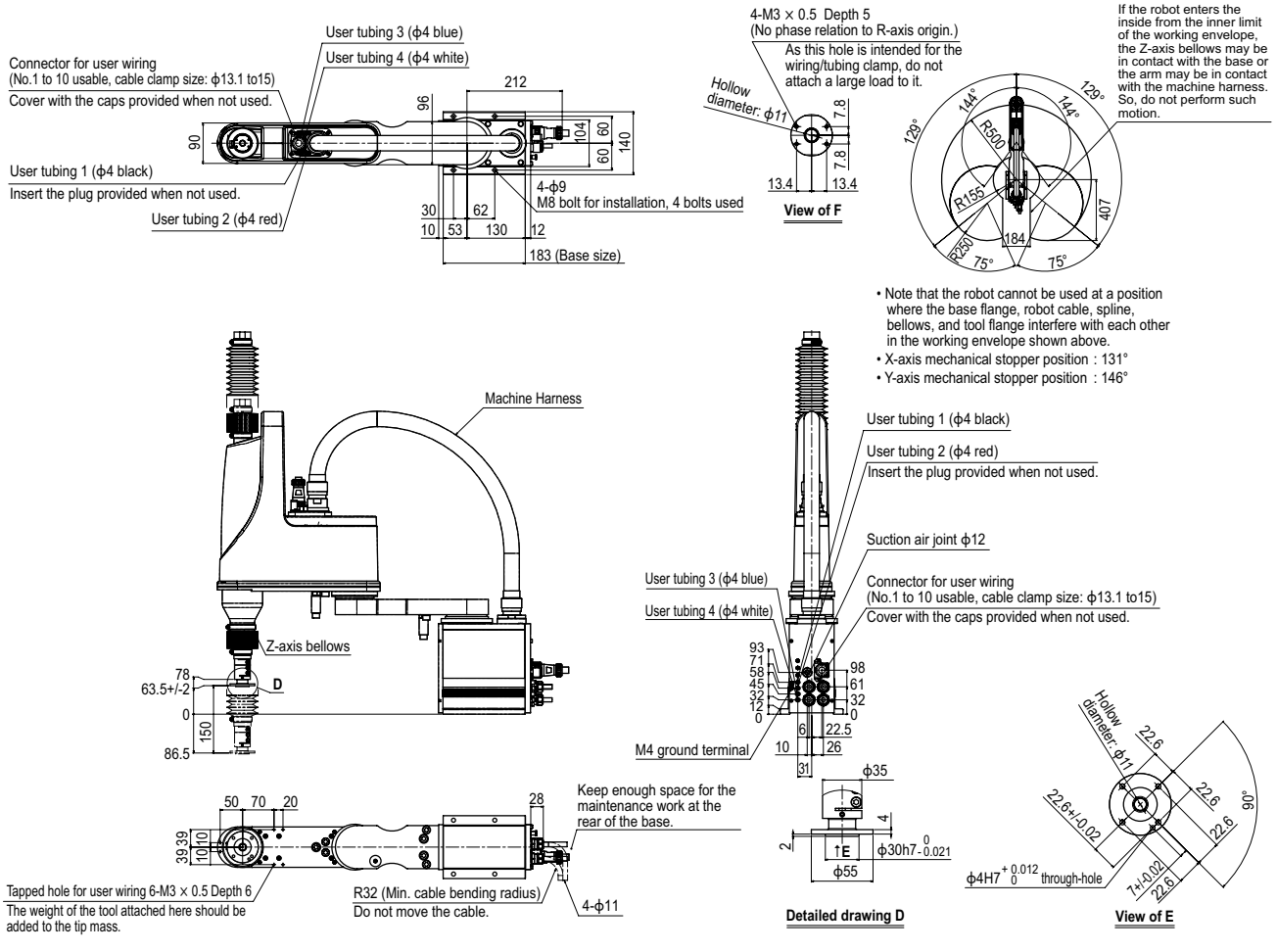
| Controller | Power capacity (VA) | Operation method |
|---|---|---|
| RCX340 | 1000 | Programming / I/O point trace / Remote command / Operation using RS-232C communication |

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

## YK500XGLC




Controller RCX340 ▶ 636

## YK500XGLC Tool flange mount type