## YK500XGI

Standard type: Medium type

Arm length 500mm
Maximum payload 5kg

■ Ordering method

YK500XGL-150

Tool flange - Hollow shaft - Cable No entry: None
F: With tool flange
S: With hollow shaft

3L: 3.5m 5L: 5m 10L: 10m

RCX340-4

Controller

RCX340

Programming / I/O point trace Remote command /

Operation using RS-232C

Specify various controller setting items. RCX340 ▶ P.566

■ Specifications						
			X-axis	Y-axis	Z-axis	R-axis
Axis	Arm length		250 mm	250 mm	150 mm	-
specifications	Rotation angle		+/-140 °	+/-144 °	-	+/-360 °
AC servo motor output			200 W	150 W	50 W	100 W
Deceleration mechanism	manomioonom	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 m/sec		1.1 m/sec	1020 °/sec
Maximum payload			5 kg (Standard specification), 4 kg (Option specifications Note 4)			
Standard cycle time: with 2kg payload Note 2			0.48 sec			
R-axis tolerable moment of inertia Note 3			0.05 kgm² (0.5 kgfcms²)			
User wiring			0.2 sq × 10 wires			
User tubing (Outer diameter)			ф 4 × 3			
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			21 kg			

communication

1000

Controller Power capacity (VA) Operation method

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/

Note 1. This is the value at a constant ambient temperature. (X,Y axes)

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 4. Maximum payload of option specifications (with tool flange attached or with user wiring and tubing routed through spline shaft) is 4kg

YK500XGL If the robot enters the inside of the corner of R200 and R250, the arm may be in contact with the machine harness. So, do not perform such motion. User tubing 3 (φ4 blue) User tubing 2 (\$\phi4\$ red) User tubing 1 (φ4 black) 9 6 140 09 93 62 D-sub connector for user 50 88 wiring (No. 1 to 10 usable) M8 bolt for installation, 4 bolts used 138 (Base size) 129 Ma<u>ximum 315 during arm rotation</u> 250 674 Machine harness Note that the robot cannot be used at a position where the base flange or robot cable interferes with the spline in the working envelope shown above.

Y-axis mechanical stopper position : 142°

Y-axis mechanical stopper position : 146° 627 Maximum 673 during arm rotation 481 4-M3 × 0.5 through-hole 441 (No phase relation to R-axis origin.) As this hole is intended for the wiring/tubing clamp, do not attach a large load to it. 42 57 296 277 47 274 248 243 View of F ф27 793.5 200 196 User tubing 1 (\$\phi4\$ black A<sup>V</sup> A 150 D-sub connector User tubing 2 (\$\phi4\$ red) 151.5 +/-2 for user wiring (No. 1 to 10 usable) User tubing 3 (\$4 blue) φ16 h7-0.018 Z-axis upper end mechanical User tool during Z-axis return-to-origin installation 150 range 0 flats: Z-axis lower end mechanical stopper position 151.5 +/-2 54 R27 (Min. cable bending radius) 20 70 Do not move the cable. Keep enough space for the maintenance Cross section A-A User wiring/tubing through spline type vork at the rear of the base Tapped hole for user wiring 6-M3 × 0.5 Depth 6 4-ф9 The weight of the tool attached here should be added to the tip mass

Controller

