



## WELDING ROBOT

# ACT06-2000-W

Faster, more accurate and more reliable.  
Suitable for all types of CO<sub>2</sub>/MAG/MIG/TIG welding and plasma cutting.

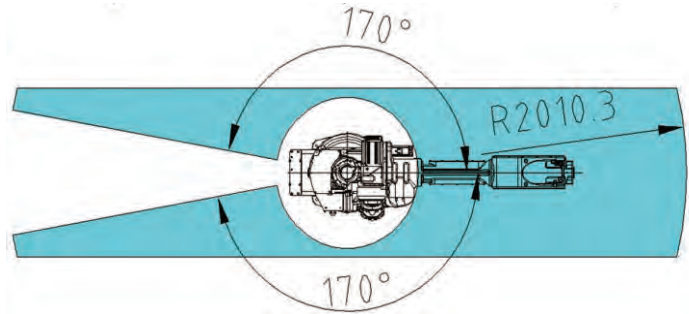
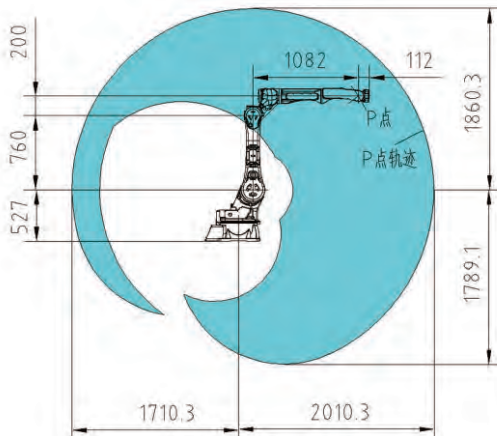
### Robot specifications

Basic data	
Model No.	ACT06-2000-W
Number of axes	6
Maximum payload	12 kg
Maximum stroke	2010mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type, ceiling type
Approx. weight	186 kg (without cabinet or welding machine)
Repeatability	±0.05 mm
Internal air duct	Φ10
Welding machines	<ul style="list-style-type: none"> <li>·ACT NBC-350RL (CO<sub>2</sub>/MAG/MIG, standard)</li> <li>·ACT NBC-350/500RP (CO<sub>2</sub>/MAG/MIG, optional)</li> <li>·ACT MIG-350/500/630RP (CO<sub>2</sub>/MAG/MIG, optional)</li> <li>·ACT WSM-400R/WSME-315R (TIG, optional)</li> </ul>
Motion range	
J1 axis S	±160°
J2 axis L	+80°~-145°
J3 axis U	+145°~-75°
J4 axis R	±190°
J5 axis B	+50°~-210°
J6 axis T	±220°
Speed with rated payload	
J1 axis S	179°/s
J2 axis L	179°/s
J3 axis U	162°/s
J4 axis R	315°/s
J5 axis B	276°/s
J6 axis T	1356°/s

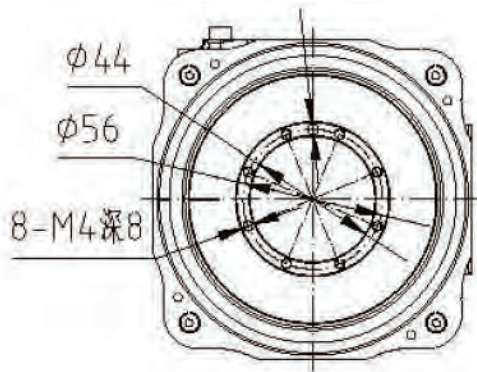
Electrical cabinet specifications	
Dimensions	650*495*580mm
Approx. weight	60KG
Cooling method	Natural cooling
Input power	220VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	<ul style="list-style-type: none"> <li>·16 digital inputs</li> <li>·16 digital outputs</li> <li>·2 analog outputs (optional)</li> </ul>
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	<ul style="list-style-type: none"> <li>·With no corrosive or combustible gas</li> <li>·With no water, oil or drug splashing</li> <li>·With no electromagnetic field nearby</li> <li>·With no radiations nearby</li> </ul>

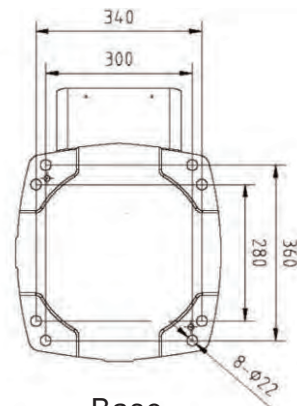
► Working envelope (unit: mm)



► Flange and base dimensions (unit: mm)

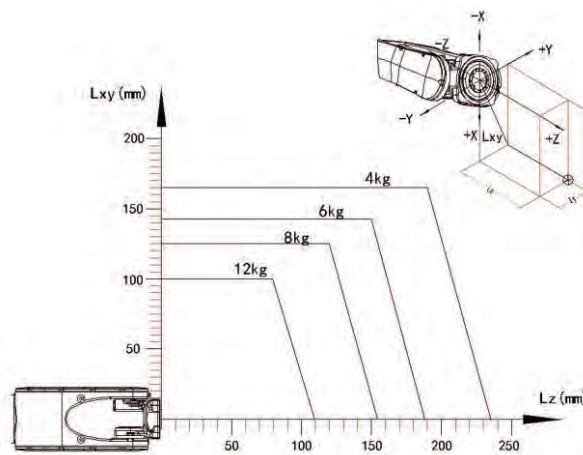


Flange



Base

► Payload diagram



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