



High performance automation part turn electric actuator



High performance automation part turn electric actuator is specially designed for modulating and open-close duty in process technology. High performance automation part turn electric actuator serve all over the world, including Europe, the Americas, ICAO, Australia, Africa, Asia, the Middle East and Southeast Asian countries. AOX is a **supplier** to many large enterprises. It is widely used in water treatment, heating, petroleum, chemical industry, electronics, light industry, food, medicine, textile, paper making, hydropower, ships, smelting, new energy and other fields. In addition, it has established very friendly relations with many Fortune 500 companies.





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Introduction

High performance automation part turn electric actuator can be applied to the application required proportional control, and produce torque with range of 50N.m~6000N.m. The quarter-turn products are categorized into different sections such as the conventional series (AOX-R, AOX-Q series) and explosion-proof series. AOX has its own **factory**. All the series are composed by ON-OFF, modulating and intelligent motorized quarter turn actuator. Over the years,

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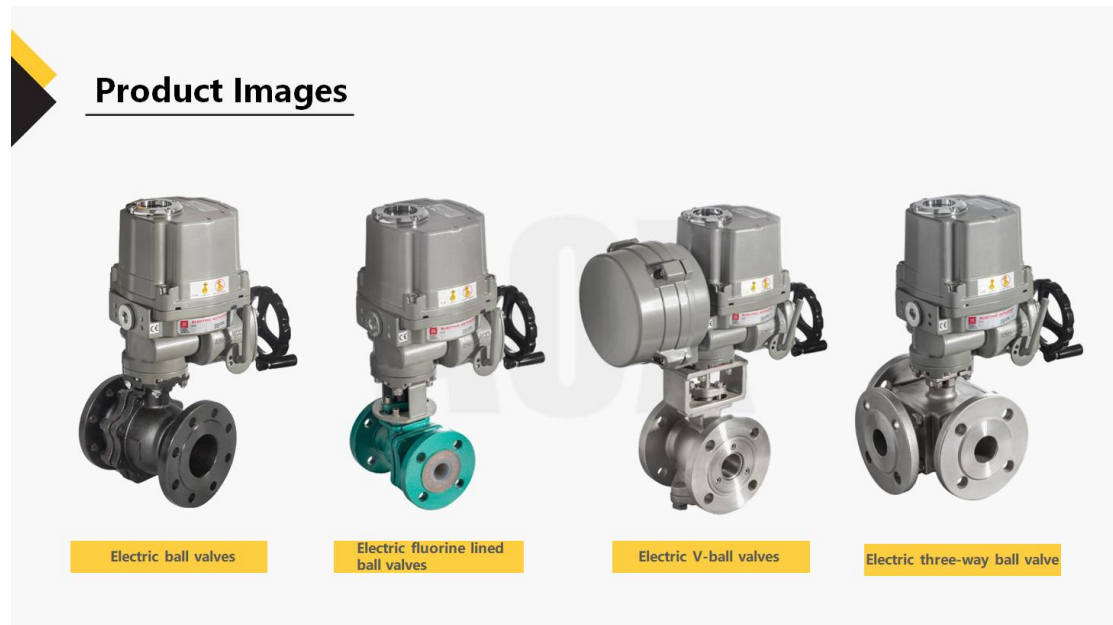
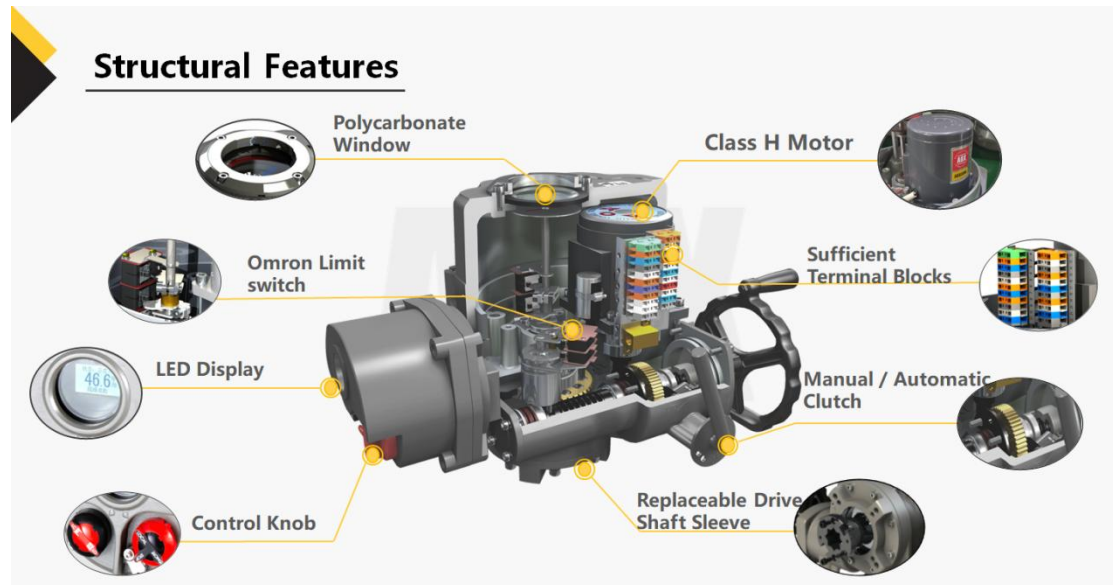
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it has experienced various fields of domestic and foreign markets practice and application while gotten the reward of multiple national and international qualifications.





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Parameter (Specification)

Model	Max Output Torque	60/50Hz Operating Time	Max Drive Shaft Size	Power	Rated Current (A)				Hand wheel Revolution	Weight
					single phase		three phases			
					110V	220V	380V	440V		
AOX-Q-005	50	18/22	Φ20	20	1.10/0.95	0.55/0.54	0.3/0.3	N/A	10	7.5
AOX-Q-008	80	18/22	Φ20	20	1.10/0.95	0.55/0.54	0.3/0.3	N/A	10	7.5
AOX-Q-010	100	18/22	Φ20	20	1.10/0.95	0.55/0.54	0.3/0.3	N/A	10	7.5
AOX-Q-015	150	21/25	Φ20	40	1.65/1.67	0.88/0.84	0.31/0.31	0.30/0.31	11	17.3
AOX-Q-020	200	21/25	Φ20	40	1.67/1.67	0.89/0.85	0.31/0.31	0.30/0.31	11	17.3
AOX-Q-030	300	26/31	Φ32	90	1.85/1.86	0.92/0.92	0.35/0.35	0.34/0.34	13.5	22
AOX-Q-050	500	26/31	Φ32	120	3.60/3.62	1.55/1.58	0.59/0.59	0.58/0.58	13.5	23
AOX-Q-060	600	26/31	Φ32	120	3.65/3.62	1.60/2.20	0.60/0.59	0.59/0.58	13.5	23
AOX-Q-080	800	31/37	Φ40	180	4.10/4.10	2.15/2.20	0.85/0.85	0.79/0.79	16.5	29
AOX-Q-120	1200	31/37	Φ40	180	4.20/4.10	2.35/2.30	0.87/0.87	0.81/0.81	16.5	29
AOX-Q-150	1500	78/93	Φ40	120	3.65/3.62	1.60/2.20	0.60/0.59	0.59/0.58	40.5	77
AOX-Q-200	2000	93/112	Φ40	180	4.10/4.10	2.15/2.20	0.85/0.85	0.79/0.79	49.5	83
AOX-Q-300	3000	93/112	Φ40	180	4.20/4.10	2.35/2.30	0.87/0.87	0.81/0.81	49.5	83
AOX-Q-400	4000	155/185	Φ40	180	4.20/4.10	2.35/2.30	0.87/0.87	0.81/0.81	82.5	83
AOX-Q-500	5000	155/185	Φ40	180	4.20/4.10	2.35/2.30	0.87/0.87	0.81/0.81	82.5	83
AOX-Q-600	6000	155/185	Φ40	180	4.20/4.10	2.35/2.30	0.87/0.87	0.81/0.81	82.5	83

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Feature And Application

Torque range: 50~6000N.m

Control method: On and off / modulating type/ Intelligent type

Voltage: AC110~265V , AC / DC 24V Multi voltage input

Single phase: AC220V / AC110V / AC24V / DC24V

Local Control Unit: Local control knob of open/close/stop, switch knob of close control remote control/prohibit control(non-intrusive)

Display Mode: LCD, indication of opening(0-100%) and open/close fault









Control Mode: On-off signal control, Modulating (proportional regulation) control, Fieldbus Control etc.

Type of On-off Signal: Contact signal. Pulse signal


Type of Modulating Signal: 0-10V, 2-10V, 4-20mA, etc.

Type of Field-bus Signal: Modbus-RTU, Profibus-DP, etc

Comparison With Other Products (Eight Major Improvements)

Other manufacturers	Description	Other manufacturers	Description
	The gasket is easily deformed by temperature and other reasons, resulting in reduced sealing performance, which is not very aesthetically pleasing.		The combination of upper and lower cover adopts concave and convex structure, inner gasket O-ring, strong sealing performance, beautiful appearance, high protection level, more convenient for debugging and wiring, only need to open the upper cover
	The use of chemical adhesives may lead to ageing and water ingress due to high temperatures and pressures on site, and the plastic and glazing are easily damaged.		Convex mirror surface, no water accumulation; and continuous valve opening indication, more convenient observation, external metal, not easy to damage
	Ordinary terminal blocks, in the field of temperature difference or vibration, will cause the fastening screws to loosen, resulting in poor contact phenomenon.		The use of self-actuating pop-up terminals guarantees absolute reliability and is a symbol of high-end products.
	The gearboxes are made of plastic, and individual manufacturers use powder alloys for the gears, which are prone to wear.		The gearbox is made of 40cr, refined by three heat treatments, more solid and reliable

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 ZL 2013 3 0145691.0
 ZL 2013 3 0112341.4
 ZL 2013 3 0112302.4



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Comparison With Other Products (Eight Major Improvements)

	Spanner not fixed to the case, easily lost		The spanner is placed on the box, so it is not easily lost on site and is easy to use
	Regulated modules have built-in, electronic components that are affected by the temperature generated during operation.		The adjustment module is mounted externally and the bare board dissipates heat better, solving the problem that the maximum temperature of the actuator is 120° C while the temperature of the electronic components of the module is only 85° C. The weak control power supply is used and the quality of the module will not be affected by the unstable voltage on site.
	The screws of other manufacturers' housings are not equipped with an anti-dislodgement function, which can easily lead to the dislodgement of the screws during maintenance when removing the housing at height.		The top cover bolts are specially designed not to come off during maintenance and installation. All external bolts are made of stainless steel and will not rust.
	Other manufacturers use M3 screws for unrealistic positioning, inaccurate, slippery threads. M3 spanners are not easy to find on site and other drawbacks.		AOx has improved the electrical cam structure by integrating the four cams into two and isolating them with a butterfly shaped bullet, topped with an anti-loosening nut, and using imported Omron travel switches.

Patent No.: ZL 2013 3 0111005.8
ZL 2013 3 0111120.5
ZL 2013 3 0111352.0



High performance automation part turn electric actuator Details

1. Various output torque for high performance automation part turn electric actuator from 50Nm to 6000Nm.
2. Captive cover bolts for high performance automation part turn electric actuator
 - Designed to prevent losing it during maintenance or installation.
 - All external bolts are stainless steel for rust prevention

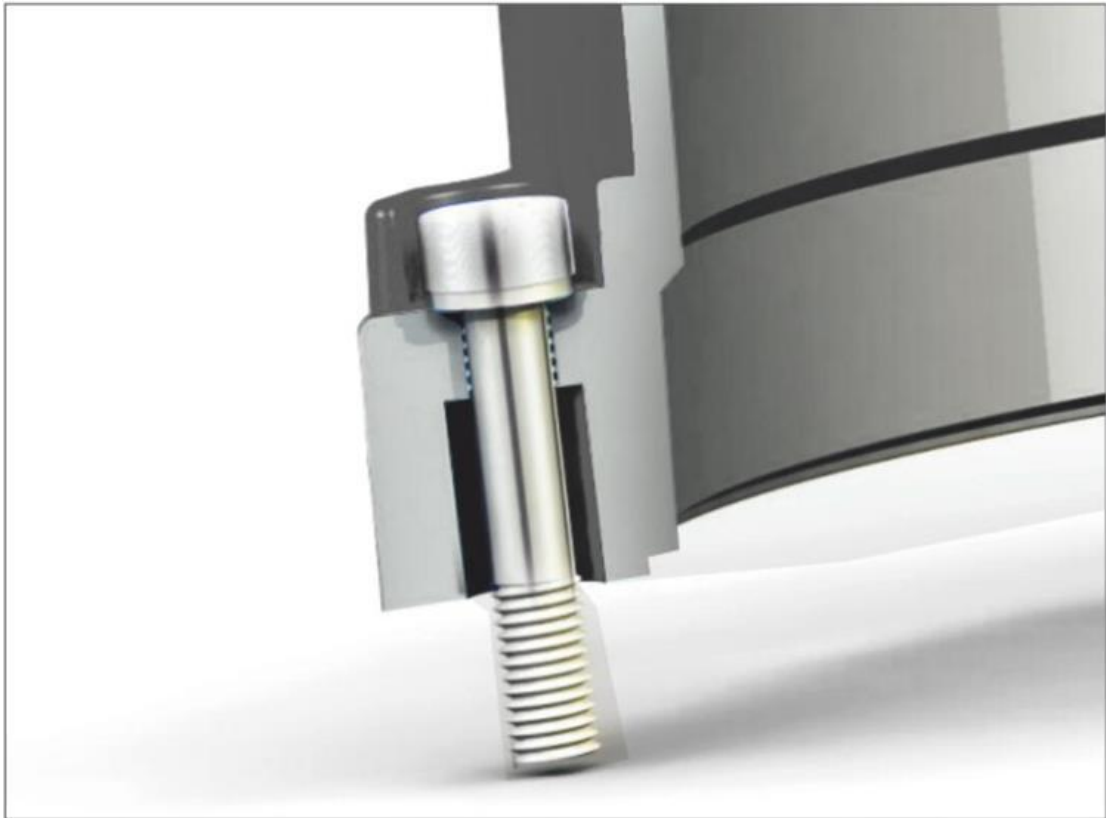
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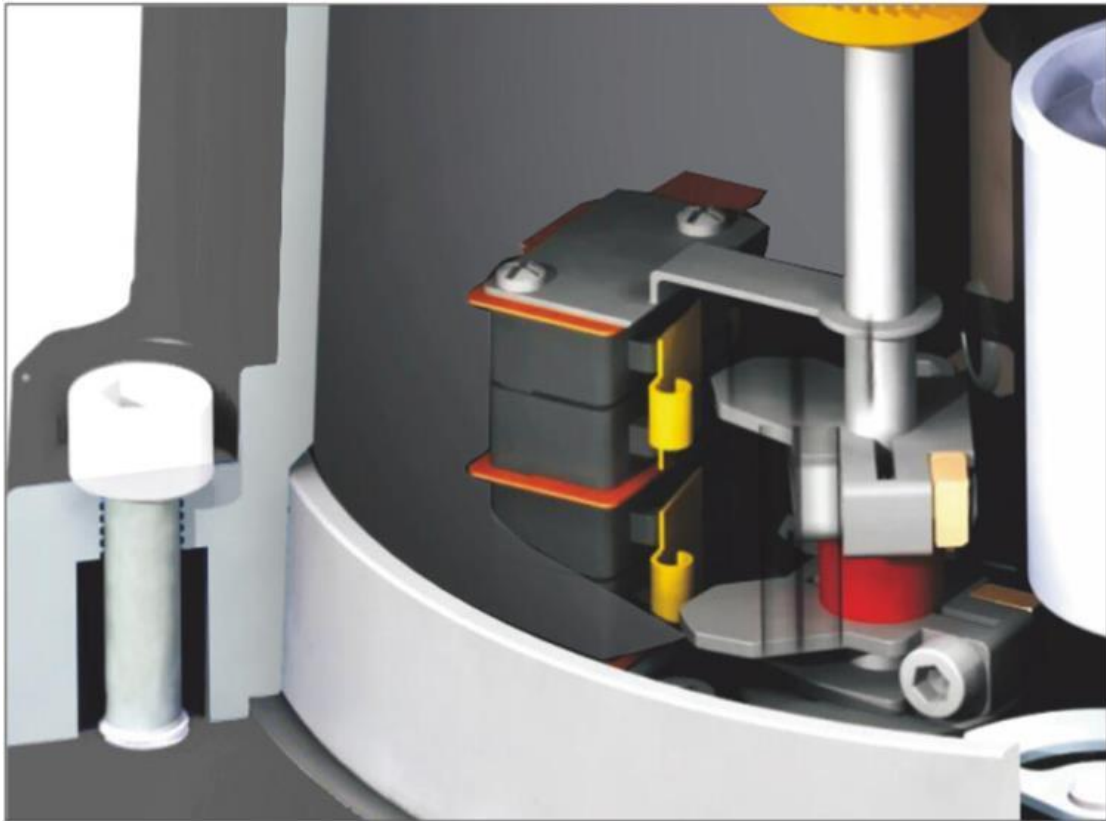
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3. Tapered interface between cover and housing:For easy lifting cover up from housing for wiring or maintenance



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