

## Product Applications

In the new era, with the continuous development of science and technology as well as social economy, the process of industrial automation is constantly advancing. In order to respond to this trend, and at the same time integrate our rich experience in the field of linear actuators, we have launched a more competitive CPA series integrated electric actuator. As a new linear actuator, it will be widely used in agricultural machinery, aerial work platforms, rail transportation, intelligent logistics, energy generation and other industry sectors, replacing the original manual, pneumatic and hydraulic system actuators, with its high efficiency, precision and speed can greatly improve productivity, fully meet the customer's various control needs.



- Seat Adjustment
- Escalator Adjustment
- Mirror Adjustment



- Adjustment of sieve level
- Folded Spiral Conveyor Pipe
- Lift the hood.
- Close the barn.



- Wheel Turning
- Work Platform Expansion



- Adjustment of the pantograph
- Door opening and closing control
- Horizontal adjustment of steps



- Hood automation
- Throttle and Shift
- Seat Adjustment



- Channel Hatch Automation Switches
- Rotor Lock Locking
- Natural Air Cooling System Feedback



## HENGLI HYDRAULICS

As a benchmarking company of Chinese high-end hydraulic transmission industry, Hengli Hydraulic is always devoting to the innovation and development in the following four areas: production design, manufacturing process, quality improvement and management improvement. We, Hengli Hydraulic, is making effort to realize the intelligent manufacture at the same time the high-efficiency and energy saving of the hydraulic components and try to reshape the “Made in China” image through technology innovation. Meanwhile we are committed to creating a new pattern of the world's hydraulics industry and contribute to global technological innovation.

Hengli Hydraulic is dedicated to designing and developing hydraulic transmission products and solutions that meet the real needs of local customers for the global market based on the diverse market demands, in particular the field of mobile machinery and tunnel engineering. We, Hengli Hydraulic, take advantage of our years of application experience to provide the customer the most optimized solutions, thus establish strong partnerships with our customers and maintain a sustainable development in a competitive market.

### What we provide

- Hydraulic Cylinder
- Hydraulic Piston Pump & Motor
- Hydraulic Control Valve for Mobile Machinery
- Industrial Valve
- Hydraulic Pump Unit and System
- Threaded Cartridge Valve
- Ball screw & Linear Guide Rail
- Orbital Motor and Brake
- Control Components
- High-precision Casting
- Pneumatic Components and integrated System
- Cold-drawn Seamless Steel Pipe
- Surface Coating-Thermal Spray Treatment
- Non-standard customized equipment

For more detailed information, please visit our website at [www.henglihydraulics.com](http://www.henglihydraulics.com)

### We are looking forward to working with you!

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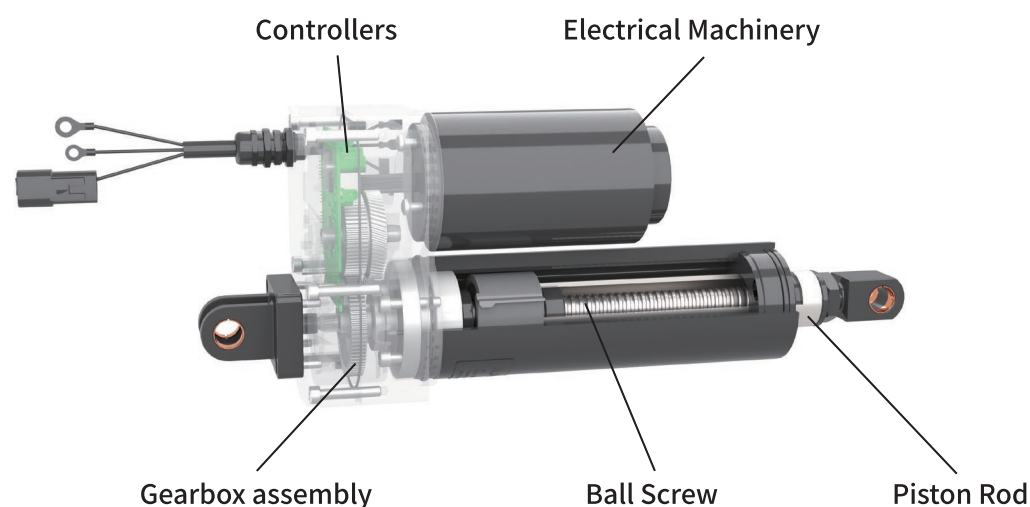
HENGLI HYDRAULICS

# CPA-Series Integrated integrated electric actuator

- Simple control and greater accuracy
- Low energy consumption, more environmentally friendly
- Simple and compact, quicker installation
- Cleaner and quieter

## Product Description

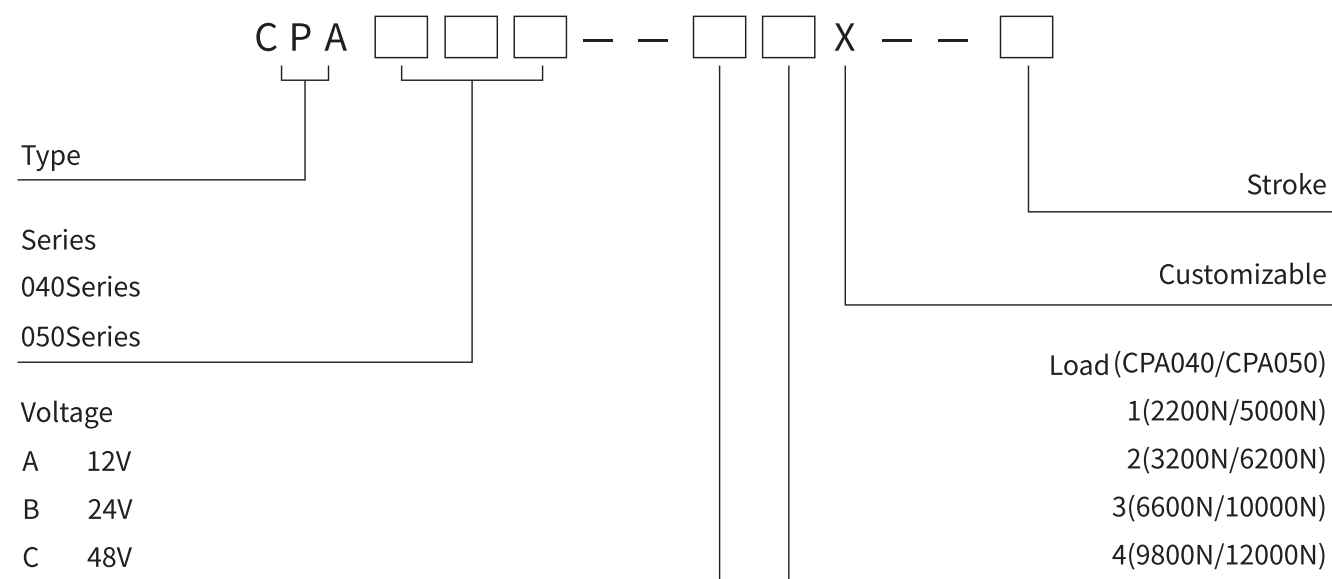
CPA series integrated electric actuators are currently divided into CPA040 and CPA050 two large families, to meet the needs of mobile applications of low, medium and high loads. Internal integrated controller, support Can bus communication, can real-time feedback position, speed and other parameters; at the same time has a long life, high precision, internal anti-rotation, and virtually maintenance-free, etc., protection level can reach IP69K/IP66M.



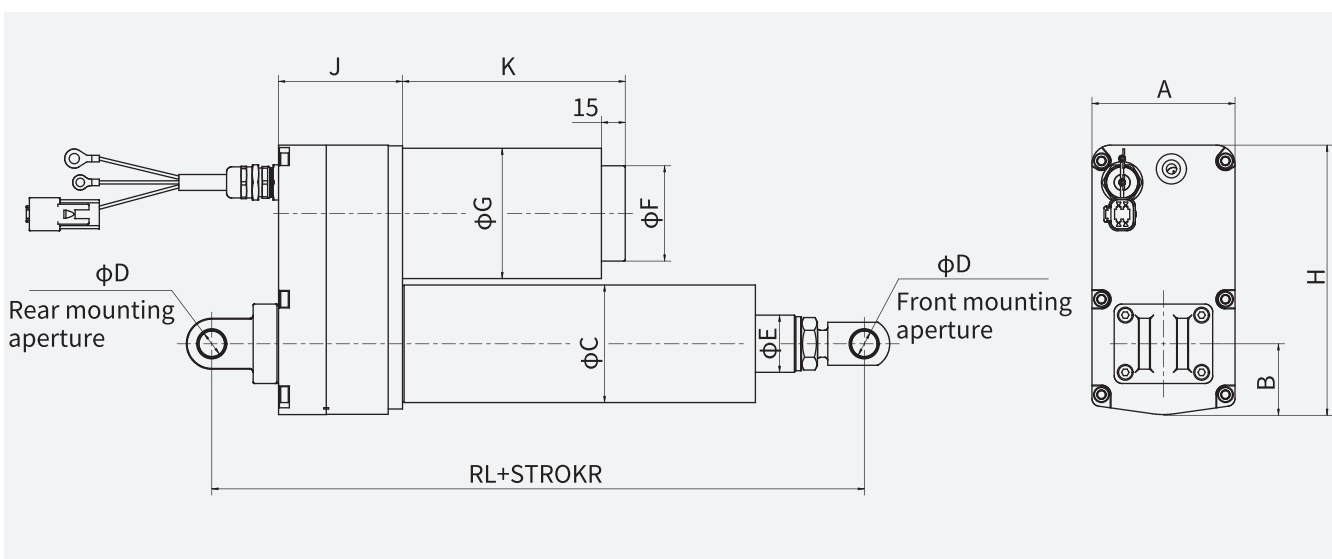
## Product Advantages

- |  |  |
|--|--|
| ★ Absolute position feedback   | ★ Wire harness length and connectors can be customized   |
| ★ Overload protection (overcurrent, overvoltage, temperature protection) | ★ Within the mechanical travel range, the action travel can be learned through a simple program on the CAN bus                         |
| ★ Monitoring and diagnosis   | ★ Position, speed, and force control, with maximum speed% and maximum force settings available   |
| ★ Can bus communication  | ★ Thermal protection, the motor is equipped with a built-in thermal switch, which will turn off the power in case of motor overheating |
| ★ Multiple devices can move in parallel                                  | ★ Gearbox breathing valve ensures temperature and pressure balance and optimal service life  |
| ★ Mechanical, electrical, and temperature tests                          | ★ The itinerary and installation distance can be customized according to the actual situation of the customer                          |
| ★ Almost maintenance free  | ★ The installation method of the rod head and cylinder bottom can be customized (single/double ear fork pins, flanges, etc.)           |
| ★ The pole head can rotate freely at 360 °                               |  |
| ★ Integrated controller with H-bridge and 2 microcontrollers             |  |

## Selection Example



## Overall dimensions



	A	B	C	E	F	G	H	J	K
CPA040	76	38	63	30	60	64.5	151	74	115.1
CPA050	90	45	74	36	60	82	170	78	140.1

	RL		
Stroke	50-300	301-900	900-1500
CPA040	235	270	/
CPA050	315	350	400

## Performance Overview

NAME	UNIT	CPA040-12V				CPA040-24V/-48V			
Performance Data									
Rated thrust	N	2300	3500	6800	10000	2300	3500	6800	10000
Rated pulling force	N	2300	3500	6800	10000	2300	3500	6800	10000
Maximum Push-Pull Force	N	3500	4500	9600	12000	3500	4500	9600	12000
Speed (no load - rated load)	mm/s	74-66	62-50	32-26	22-17	74-66	62-50	32-26	22-17
Maximum stroke	mm	800	650	450	350	800	650	450	450
Electrical Data									
Rated voltage	V	12V				24V /48V			
Current @ Rated Load	A	37A				18A/9A			
Operating system	%	20				20			
Running time/stop time	S	85/340				85/340			
Environment and Standards									
Ambient Temperature	℃	-40℃~+85℃							
Protection Grade	-	IP69K/IP66M							
EMC test standard	-	ISO12366-1:2018							
Electromagnetic interference test standard	-	ISO16750-2-3							
Salt Spray Test Standard	-	ISO 9227:2012 500 hour							

NAME	UNIT	CPA050-24V				CPA050-48V			
Performance Data	N	5000	6200	12000	14000	5000	6200	12000	14000
Rated thrust	N	5000	6200	12000	14000	5000	6200	12000	14000
Rated pulling force	N	6300	9500	13000	15000	6300	9500	13000	15000
MaximumPush-Pull Force	mm/s	94-80	78-64	40-33	34-28	94-80	78-64	40-33	34-28
Speed (no load - rated load)	mm	950	800	650	550	950	800	650	550
Maximum stroke									
Electrical Data	V	24V				48V			
Rated voltage	A	32A				16A			
Current @ Rated Load	%	20				20			
Operating system	S	85/340				85/340			
Running time/stop time									
Environment and Standards	°C	-40°C~-+85°C							
Ambient Temperature	-	IP69K/IP66M							
Protection Grade	-	ISO12366-1:2018							
EMC test standard	-	ISO16750-2-3							
Electromagnetic interference test standard	-	GB34660-2017							
Salt Spray Test Standard	-	ISO 9227:2012 500 hour							