



To Use This Product Safely

Be sure to read this before use.
For general information on Electric Actuators, please refer to Intro 15.

Individual Precautions: Electric Actuator ETS Series

During Design and Selection

Danger

- Do not use in locations where hazardous materials such as ignitable, flammable, or explosive substances are present. There is a possibility of ignition, fire, or explosion.
- Ensure that the product is free of water droplets and oil droplets. This can cause fire or failure.

- When mounting the product, be sure to securely hold and fix it (including the workpiece). There is a risk of injury due to the product tipping over, falling, or malfunctioning.

Warning

- Use within the product's specified operating range.
- If there is a risk of danger to the human body, install a protective cover.
 - If the moving parts of the electric actuator pose a particular danger to the human body, design the structure so that people cannot enter the drive range of the electric actuator or directly touch that area.
- Design a safety circuit or equipment so that damage to equipment, injury to persons, etc., does not occur when the machine stops in the event of a system failure such as emergency stop or power outage.
- Install indoors with low humidity.
 - In places exposed to rain or high humidity (over 85% RH, with condensation), there is a risk of electric leakage and fire. Oil drops and oil mist are also strictly prohibited.
 - Use in such environments can cause damage and malfunction.
- Use and store in accordance with the working / storage temperatures and where there is no condensation.
(Storage temperature: -10°C to 50°C, Storage humidity: 35% to 80%, Operating Temperature: 0°C to 40°C, Operating humidity: 35% to 80%) This can cause abnormal product stoppage or reduced service life. If heat accumulates, ventilate.
- Install in a location free from direct sunlight, dust, and corrosive gas / explosive gas/inflammable gas / combustibles, and away from heat sources. In addition, this product has not been considered for chemical resistance. This can cause failure, explosion, or fire.

- Use and store in a location free from strong electromagnetic waves, ultraviolet rays, and radiation. This can cause malfunction or failure.
- Consider the possibility of power source failure.
 - In case of breakdown in the power source, take countermeasures without causing trouble or damage to the operator or equipment.
- Consider the operating state when restarting after an emergency stop or abnormal stop.
 - Design so that restarting does not cause harm to people or damage to the equipment. Also, if it is necessary to reset the electric actuator to the starting position, design a safe control device. Consider the possibility of failure of the installed motor. Take measures to prevent injury to personnel or damage to equipment in the event of a power source failure.

- Avoid using this product where vibration and impact are present.
- Do not apply a load to the product that is greater than or equal to the allowable load listed in the materials for selection.

Caution

- Do not use in a range where the moving table could collide with the stroke end and break.
- Clearly state the maintenance conditions in the equipment's instruction manual.
 - The functionality of this product may be significantly reduced and safety may not be ensured depending on the usage conditions, environment, and maintenance. If maintenance is performed correctly, the product's functions can be fully utilized.
- Regarding installing, setting up, and/or adjusting the actuator, read through the instruction manual and operate correctly.
- The product is manufactured in conformity with the related standards. Never disassemble or modify.
- Refer to the instruction manual of the motor mounted to the product and control for your safety before wiring and designing.
- The customer is responsible for confirming the compatibility of CKD products with the customer's systems, machines and equipment.

For precautions regarding mounting, installation, adjustment, operation, and maintenance, please refer to the CKD Equipment Product Site(<https://www.ckd.co.jp/kiki/en/>) → 'model No.' → [Instruction Manual](#) .

ETSModel Selection Check Sheet → CKD (Contact)

Please fill out this form and send it to your nearest sales office. We will respond with the model selection results.

Customer :

Company		Department	
Name		E-mail	
TEL		FAX	

Selection Conditions :

Desired Model	ETS-		
Basic Specifications	Max. Stroke : mm, Ball screw lead : mm		
Operating Conditions	Moving stroke : mm, travel time : s		
	Set Speed : mm/s		
	Set acceleration/deceleration : mm/s ² (set acceleration/deceleration time : s)		
	Repeatability : ± mm		
Load Conditions	Slider Type		
	Load weight : kg		
	Mounting Orientation : Horizontal / Wall-mounted / Vertical / Ceiling-mounted / Other		
	Distance from slider center to load's center of gravity		
	Direction A : mm		
	Direction B : mm		
Direction C : mm			
Operating Environment	Pressing load : None / Yes (N) During operation / When stopped Direction of force on slider center ()		
	Ambient Temperature : °C, Ambient Humidity : % Atmosphere :		
Motor Used	Manufacturer : , Model No. :		
	Motor capacity, size :		
Special Notes			