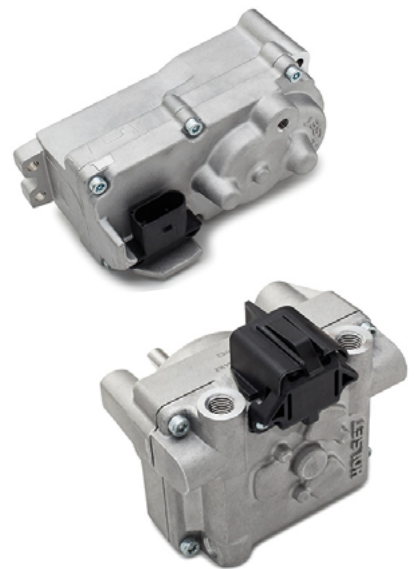




Rotary Actuators High Torque Solutions

CTS actuators are electrically commutated, compact, and capable of generating high torque specifically designed for extreme environments associated with on and off-highway applications which require products designed to withstand intense vibration, extreme temperatures, and meet high reliability standards.



Precise Control of Mechanical Devices in Challenging Environments

The actuator has a built-in absolute position sensor for closed loop feedback. Built for high temperature, high vibration applications with optional Front-End-Protection (FEP) that protects against input voltage spikes.



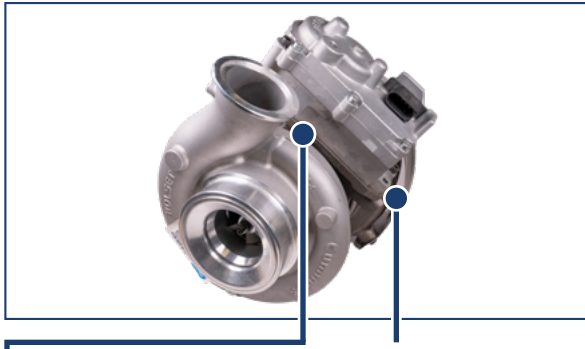
On Board Software with CAN Control and Feedback

Our "smart" actuators are designed to give the most feedback possible. With CAN control and feedback operations, it is easy to control. CTS provides actuators with prebuilt software for easy integration and diagnostic use.



High Torque with Fast Response

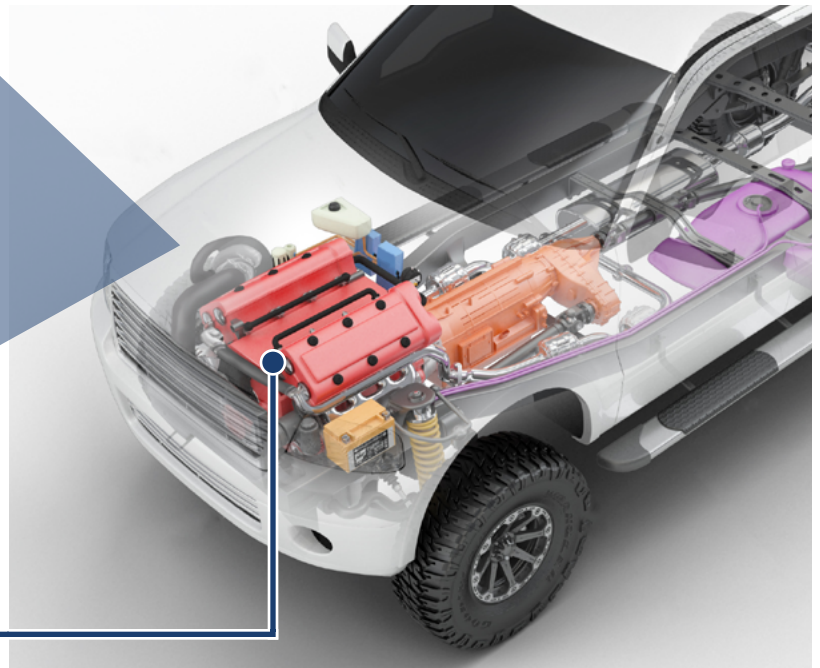
The greater the torque the higher work performance that can be achieved. CTS Rotary actuators have a Brushless DC motor that delivers continuous output torque of 2Nm and a fast step response of 200 msec.



Durable build that can stand temperatures up to 200° and is mechanically sealed to resist liquid.

Aluminum casting with easily mount, pre calibrated and ready to use.

Rotary Actuators are preset with diagnostic software that easily communicates with the control system to ensure precision control.



Example Technical Specifications Table:

Parameter	Unit
Supply Voltage	12 to 28 VDC nominal
Max. Current at 25°C	6.0 Amps
Step Response	200 msec, 90°
Rotational Travel	340° Maximum with stops, 360° without stops
Max Continuous Torque	2 Nm (286 oz. in.)
Mass	1.2 Kg typ. (2.6 lbs.)
Envelope	75 x 80 x 110 mm (2.95 x 3.15 x 4.33 inch)
Strokes	>5 Million @ full load power
Vibration	Random – 15 G’s, 20 hrs / plane
Mechanical Shock	30 G’s, 10ms half-sine pulse
Operational Temperature	-40°C to 140°C (200°C with water cooling)
Thermal Shock	-40°C to 150°C
Humidity	95% RH @ 30°C - 80°C, 9 days
Solvent Resistance	All normal under-hood fluids
Salt Fog	ASTM-B117 340 hrs. (240 hrs. no red rust)

Years Of Automotive Experience

CTS Corporation began expanding into the automotive market in the early 1970’s, when the U.S. government first issued requirements for controlling automotive emissions.

Today, we are a leading provider of sensing solutions, smart actuators, and pedals. Our smart actuators enable the automation and manipulation of mechanical systems, contributing to enhanced functionality, efficiency and performance.

Contact Information

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