

Actuators

Fast, precise actuation for the automotive industry
What makes Helical different?

As a designer and manufacturer of actuators:

- Helical is an independent, family-owned company.
- We are the only major manufacturer of pneumatic actuators which designs and produces springs in-house.
- Actuators are at the core of our business, and we offer a specialist approach from concept to production.
- Helical has a full range of design and manufacturing skills, and in-house testing facilities.
- We pay close attention to customers' requirements.
- Helical approaches electronic actuation from the standpoint of many years' experience in the turbocharger market. This means we have extensive knowledge of the operating conditions on vehicles, and a thorough appreciation of the commercial constraints.
- We offer competitive products based on low-cost manufacturing of components and expert engineering.
- We have a worldwide presence due to our sales to major OEMs in Europe, North and South America and Asia, from our European HQ, Chinese joint venture and Indian subsidiary.
- We have the flexibility to expand our production capacity.

What is an Actuator?

Actuators function as control devices in the demanding conditions of automotive applications.

The gradual world-wide introduction of new emissions standards for vehicles has created the need to equip new vehicles, both petrol and diesel, with ever more precise control systems.

What does it do?

The actuators use pressure, vacuum or electrical forces to operate a rod which in turn can be applied to other components to control opening and closing with high precision.

Advantages

Provide fast and precise control.

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Precise control allows harmful emissions to be minimised.

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Actuation in turbochargers contributes to the creation of more compact engines with higher power output.

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Robust designs withstand vibration, extremes of temperature, dust etc.

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Low cost relative to performance, reliability and longevity.