

The Compact Difference...

Compact Automation Products brand, is a market-leading manufacturer of space-efficient linear actuator solutions including, industry standard and custom pneumatic cylinders, hydraulic cylinders and accessories. With Compact's 16 patents, Compact has manufactured over 50,000 modified and custom designs.

With over 12 patents within the Turn-Act product line, Compact is a leading manufacturer of rotary actuators and multi-motion devices. We sell our products through a highly capable distribution network. They can assist you with application specifications and product support.

Compact is dedicated to producing quality products that deliver high power in a small package and is fully repairable. With sizes from 8 mm to 8 inches with forces up to 5,000 lbs. and easily field repairable, we have the right products to meet your application needs.

Common Applications:

- Medical Equipment
- Robotics and Automation
- Manufacturing Process Systems
- Semi-Conductor Manufacturing
- Sub-Sea Equipment
- Conveyor Systems
- Tooling and Machining Systems
- Component Assembly
- Automotive Assembly
- Autonomous Vehicle
- Food Processing
- Sub-Sea Equipment
- Packaging
- General Industrial
- Factory Automation
- Antenna Pedestals
- Oil and Gas Industries
- Offshore Drilling
- Wellhead Applications
- Industrial Gases, Water & Waste Water
- Pulp and Paper Production
- Chemical Processing
- Hazardous Area Applications
- Nuclear Power Facilities

At Compact we make the customer central to everything we do.

COMPACT
AUTOMATION PRODUCTS

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COMPACT
AUTOMATION PRODUCTS

Actuator Capabilities



An ITT Company

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Compact Actuator Solutions

Cylinders (Inch, Metric and Clean-Act®)

COMPACT® cylinders are designed for limited space and weight applications. Cylinders are up to 60% smaller than conventional types and are ideal for clamping fixtures, robotics, parts feeders, and medical devices.

COMPACT®'s unique space efficient, patented design makes these products perfect for the semiconductor, packaging, medical and factory automation industries.



Turn-Act Rotary Vane Actuators

COMPACT® Turn-Act brand Rotary Vane Actuators have only one moving part which produces rotary motion with ZERO Backlash, 100% repeatability and continuous full torque. The actuator utilizes patented urethane seals which permit long cycle life and non-lube service. Numerous switch and stroke sensors, adjustable stroke control, special fixed rotations, various shaft styles and materials, and many other options are available to address your specific application requirements. Torque range is from 9 – 5200 in.-lbs.



Workholding (Grippers, Twist Cylinders, Collet Closers, Intensifiers)

COMPACT® Grippers are designed for use in industrial applications such as robotics, automated assembly and manipulator/tooling. All units feature self-contained, double-acting COMPACT® actuators. All models feature low unit weight, high output and compact size.

COMPACT® Twist Cylinders are linear motion cylinders with internal cams that provide 90° swing motion. Twist cylinders are ideal swing clamps for automated and semi-automated assembly.

COMPACT® Collet Closers are stationary fixtures for metalworking, bench top assembly, precision robotics and assembly machine applications. With an output gripping force ranging from several pounds to 4 tons, collet closers can also be used for crimping, forming and staking.

COMPACT® Intensifiers are simple boosters that utilize large pneumatic pistons to intensify oil pressure with a smaller piston. All intensifiers are designed to be light weight and space efficient.



Slides (Guided Slides, Ball Slides, Z-Series, GRC)

COMPACT® Slides are designed to outperform conventional non-rotating cylinders. Our slides are designed for short and long stroke. They are perfect for limited space applications where a cylinder is needed that guides and supports its own load. The COMPACT® design of these slides makes them compatible with semiconductor, packaging and assembly applications.

Z-Series Slides provide pinch type tooling plate connection improving rigidity with a sturdy system ideal for precise movement and accurate location.

Materials consist of Standard Hardened Carbon Steel, Hardened Stainless Steel, Ceramic Coated Light Weight Aluminum and Corrosion Resistant Coated Hardened Steel.

Standard guide rods/bushings offer solid performance with linear ball or composite bushing options. Oversized guide rods/bushings provide greatest rigidity with minimal deflection. Our Z-Series slides offer a longer life and repairable design.

COMPACT® Guided Rod Cylinders combine high strength, lightweight extruded bodies and the rigid support of composite or roller ball bearings with the Enersorb® piston that provides an unparalleled guided cylinder product. The Enersorb® piston from COMPACT® provides precise repeatability, smooth operation, high noise reduction and energy absorption all with an extended cycle life and non-lube service. Four base models ranging from 1/2", 3/4" 1-1/4" and 2-1/2" bore sizes with lift forces from 6 to 490 lbs.



Shaker Cylinder®

COMPACT® Shaker systems are pneumatically driven feeder/beltless conveyor systems. These systems are ideal for the stamping industry or other parts transfer and scrap removal applications. Shaker cylinders have 6 base models to choose from: 1/2" to 2 1/2 inch Bores with tray loads to 50 pounds and maximum loads to 140 pounds

As compared to traditional conveyor systems, COMPACT® "shaker" systems save you time and money.



Air Springs

COMPACT® Air springs are highly durable, precisely engineered and cost-effective for use in a wide variety of actuation and vibration isolation applications. With time-tested designs, fabric-reinforced Neoprene or Natural Rubber flex member construction and corrosion-protected end retainers, air springs provide superior quality and performance. As an actuator, air springs provide linear or angular motion. These air springs offer a favorable stroke-to-compressed-height ratio when compared to air cylinders, and can accept a wide variety of actuation media such as air, water, nitrogen or anti-freeze.



Hydraulic Rotary Vane Actuators

Hydraulic Rotary Vane Actuators have only one moving part which produces rotary motion with ZERO Backlash, 100% repeatability and continuous full torque. The actuator utilizes the same design as the COMPACT® Rotary Vane Actuator with the exception of stainless steel construction and hydraulic service up to 3,000 psi.



Val-U-Act® & Class-Act®

COMPACT® Val-U-Act® and Class-Act® are double acting and spring return pneumatic valve operators. Operates 1/4" through 12" ball, plug and butterfly valves.



Turn-Dex®

Turn-Dex® is a COMPACT® Rotary Vane Actuator with an overrunning clutch providing unidirectional output shaft rotation, either clockwise or counter clockwise. Torque range is from 13 to 350 in.-lbs.



Multi-Act® Actuators

COMPACT® Multi-Act® Actuator's exclusive design generates linear and rotary motion. The motions may be operated independently and/or simultaneously. Both, the linear and rotary strokes are fully adjustable. The load is carried by an oversized shaft and heavy duty guide rails.



Accessories

COMPACT® Round, Standard and Husky Sensors are offered with a variety of options to meet your situational needs.

COMPACT® Flow controls are available for metered out, metered in or needle valve operations.

COMPACT® Alignment Couplers are built from hardened steel with a black oxide finish in standard and metric sizes.

