

Screw Pumps Product Catalog

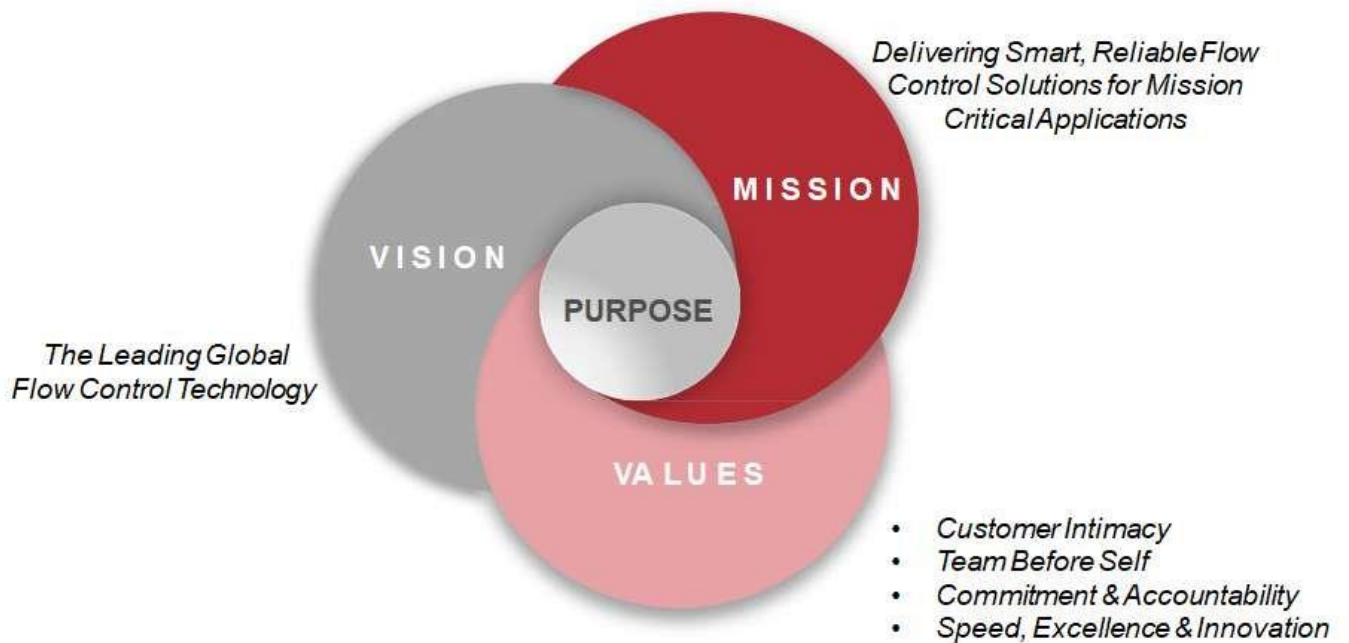


ALLWEILER®
HOUTTUIN™
TUSHACO®



CIRCOR Purpose, Mission, Vision & Values

Keeping Society Safe, Productive and Moving



ABSOLUTES: SAFETY, ETHICS & CONTROLS

CIRCOR serves an ever increasing range of markets on a local, national and global level including :



Power Generation



General Industry



Processing



WasteWater



Midstream Oil and Gas



Downstream Oil & Gas



Mining & Construction



Ports & Yards



Defense





CHEMICAL PROCESSING – MINING & CONSTRUCTION – PULP & PAPER – WASTEWATER – FOOD & BEVERAGE – TEXTILES – HYDEL POWER – THERMAL POWER – SOLAR POWER – WIND POWER – OIL & GAS – STEEL – SUGAR

REDEFINING WHAT'S POSSIBLE

CIRCOR is redefining what's possible in the oil and gas, power generation, industry and commercial marine markets, collaborating with engineers and operators like you to develop the best fluid-handling solutions for your application.

Your toughest challenges are addressed with more than just an off-the-shelf product when you partner with CIRCOR. You get 160+ years of application experience, technology that's relied on to support numerous power and industrial plants every day worldwide, and a team of product and service specialists tasked with maximizing the efficiency of your operation - from the very start to the finish of your project.

All of this is enabled by a broad portfolio of pumps and engineered systems from brands you and your clients know and trust – Allweiler, Houttuin, IMO, Tushaco, Warren and Zenith – ensuring that you get the reliability your operations demand and expert levels of service that you require during design, commissioning and throughout operations.

As your single-source global supplier, we call this 'Total Savings of Ownership (TSO)' reducing the overall costs of your operation and increasing your profitability.

Note:

Please note that performance data and construction characteristics of our products may change due to continuous optimization and development.

Products Overview


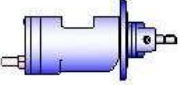

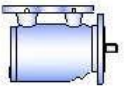

TUSHACO Three-screw pumps are rotary, self-priming Positive Displacement Pumps. The pumping elements consist of three moving parts: the power rotor (main screw) and two symmetrically opposed idler rotors, all operating within close fitting housing bores. The incoming process fluid is conveyed by the rotating power rotor by means of the cavity formed with the inter-meshing idler rotors.

From suction to discharge, the fluid is transferred by means of a series of constantly forming and re-forming chambers until it reaches the casing outlet. Symmetrical pressure loading on the power rotor eliminates the need for radial bearings to absorb radial forces. The idler rotors generate a hydrodynamic film, which provides radial support similar to journal bearings. Axial loads on the power rotor and idler

rotors, created by differential pressure, are hydro-statically balanced. With this design arrangement, high differential pressures can be managed.

Main Applications

Utilized in all segments of industry where lubricating liquids are pumped that do not contain abrasive components, and which will not chemically attack the pump materials, e. g. heavy and diesel oil, circulation of lubricating and hydraulic oils.

Series	Product	Performance Data			
		Capacity	Diff. Pressure	Viscosity Range	Temp.
T3SI		0.9 - 25.8 m ³ /h	12 bar	15 to 760 cSt	80 °C
		16.5 - 430 lpm			
T3SZ		9.3 m ³ /h	12 bar	15 to 760 cSt	125 °C
		155 lpm			
T3ST		1.8 - 170 m ³ /h	40 bar	12 to 760 cSt	200 °C
		30 - 2835 lpm			
T3SFP		0.31 - 3.39 m ³ /h	40 bar	15 to 760 cSt	125 °C
		5.1 - 56 lpm			
TUSET		1.8 - 3.3 m ³ /h	40 bar	3 to 760 cSt	125 °C
		30 - 55 lpm			
		12 - 15 m ³ /h			
		200 - 250 lpm			

* For special requirements, contact CIRCOR Sales Team

Brands

- > ALLWEILER®
- > IMO AB®
- > IMO®
- > TUSHACO®

Value Propositions:-

Long service life

Hardened and ground screws; hydraulically driven idler spindles that are not subject to any wear.

Reliable operation

As overload protection a built-on-pressure relief valve is possible.

Low maintenance

Internal bearing lubricated by pumped liquid or external bearing grease lubricated.

Easy maintenance

Complete insert unit dismountable. The pump casing remains in the piping.

Flexible configuration

Shaft sealing alternatively by shaft seal rings, mechanical seal or magnetic coupling according to the operating conditions.

Strengths of the technology:

- High pressure boost capabilities even when handling low viscosity fluids
- Pump with one of the highest overall efficiencies when aligned with only three rotating parts
- Virtually pulse-free flow with extremely low vibration and noise levels

General advantages of the three-screw pumps at a glance:

- Self-priming
- Virtually no pulsation
- Wide viscosity range
- High thermal resistance
- Low operating noise
- Very good efficiency
- Low wear
- Reliable during operation

CIRCOR India Footprint

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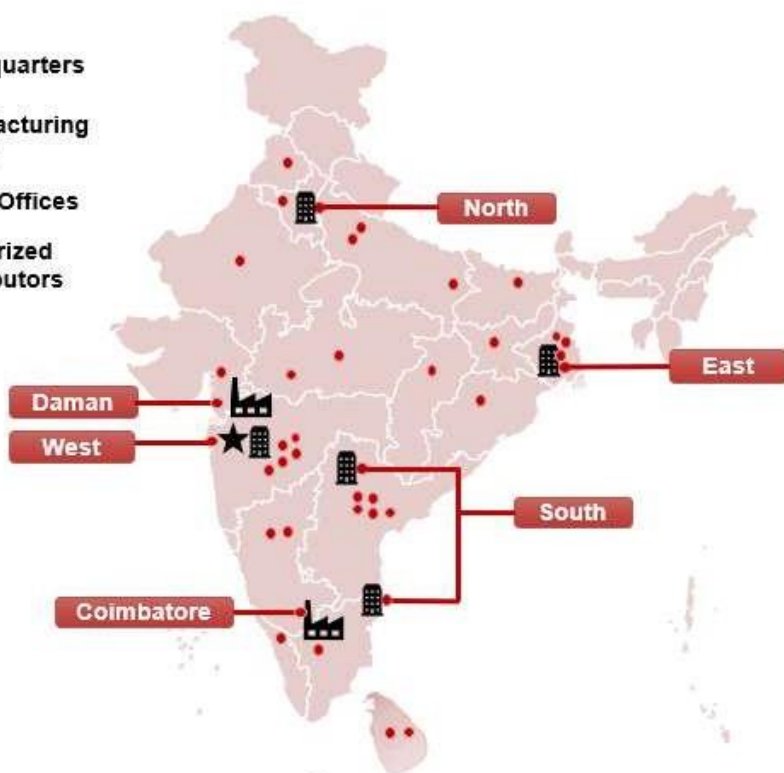
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- ★ Headquarters
- 🏭 Manufacturing Plants
- 🏢 Sales Offices
- Authorized Distributors



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🏭 **Coimbatore Plant**
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Allweiler India Pump Division



Products:

- 3-Screw Pumps
- 2-Screw Pumps
- Single Screw - PC Pumps
- Gear-Lobe-Shuttle Block Pumps
- Lube Oil and Fuel Oil Skids / Alignments

CIRCOR Flow Technologies Valve Division



Products:

- Industrial Valves
- Refinery Valves
- Aerospace & Defense Valves
- Systems

Fully Integrated Manufacturing Facilities



CIRCOR is a market-leading, global provider of integrated flow control solutions, specializing in the manufacture of highly engineered valves, instrumentation, pumps, pipeline products and services, and associated products, for critical and severe service applications in the oil and gas, power generation, process, aerospace and defense industries.

Excellence in Flow Control

Asia | Europe | Middle East | North America | South America

Authorized Distributors: -

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