

Screw Pumps Product Catalog

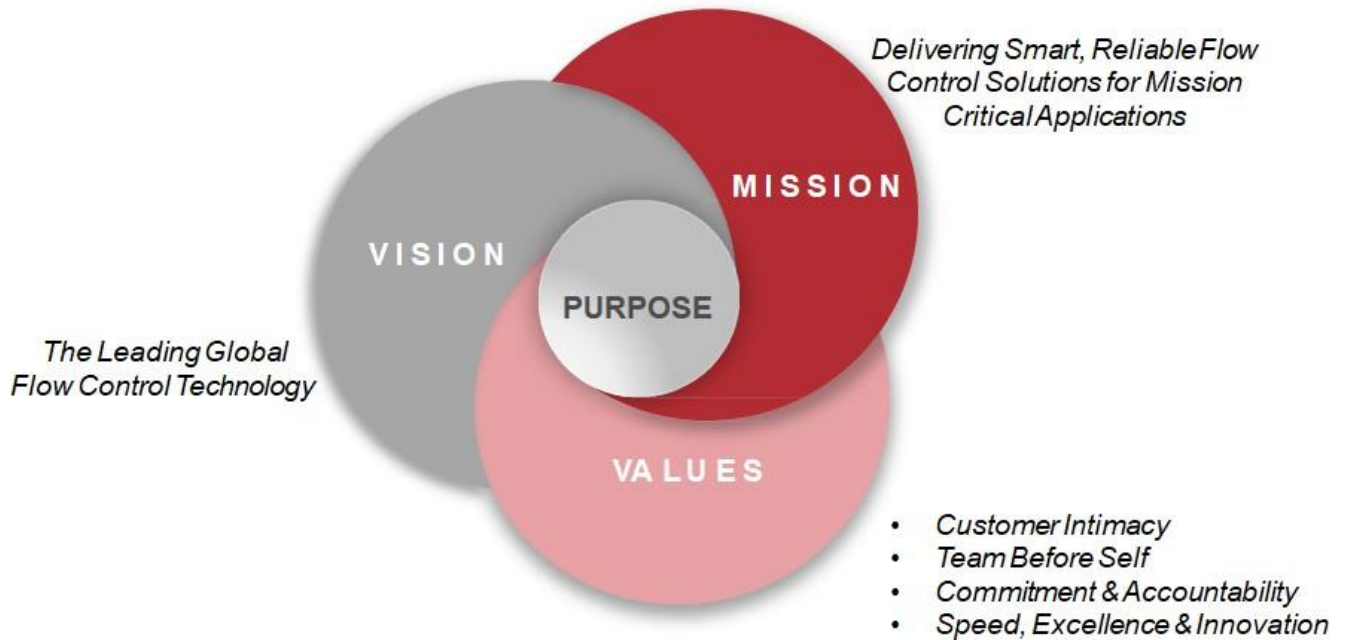


ALLWEILER®
HOUTTUIN™
TUSHACO®












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



Product Overview

Manufactured under the brand name Houttuin, this technology utilizes two inter-meshing screws synchronized by a set of external timing gears, which are assembled into a close fit figure-eight-shaped housing. The operating principle employed is based on the non-contacting concept of positive displacement (PD) pumps, which means a combination of timing gears are used to prevent the screws from touching each other. In addition, radial bearings orienting the screws position in the bores permits this technology to defy the capabilities of many PD pumps offered in the industry for non-lubricating fluids. With no need for contacting surfaces and no dependence on fluid film support, twin-screw pumps can be made using many different materials. They operate at a wide range of speeds while dealing with conventional and unconventional fluids with properties like ultra-low and ultra-high viscosity, gas entrainment, contamination and corrosives. This technology is particularly suitable for industries, where fluids are non-Newtonian, shear sensitive, have high vapor pressures, varying viscosities, and where processes are solvent flushed, heated, batched or drained.

Main Applications

The Houttuin, Tushaco and Warren Pumps are used worldwide in the chemical and petrochemical industry, tank farms, power plants, offshore, refineries, shipbuilding and defense, soap, food, beverage, plastics and sugar industries.

Series	Product	Capacity	Performance Data			
			Inlet Pressure	Outlet Pressure	Viscosity Range	Temp.
136		Upto 20 m3/h	Up to 1 bar	Up to 10 bar	0.6 to 1500 cSt	Up to 120 °C
		Upto 330 lpm				
211 (TDSV*)		Upto 300 m3/h	Up to 10 bar	Up to 16 bar	0.6 to 1500 cSt	-5 °C to 100 °C
		Upto 5000 lpm				
215		Upto 490 m3/h	N.A.	Up to 10 bar	20 to 760 cSt	Up to 80°C
		Upto 8165 lpm				
216 (TDSH*)		Upto 1100 m3/h	Up to 10 bar	Up to 16 bar	0.6 to 1500 cSt	-5 °C to 100 °C
		Upto 18335 lpm				
231 (TDLV*)		Upto 300 m3/h	Up to 10 bar	Up to 16 bar	0.6 to 1500 cSt	-5 °C to 100 °C
		Upto 5000 lpm				
236 (TDLH*)		Upto 6000 m3/h	Up to 40 bar	Up to 40 bar	0.6 to 5000 cSt	-5 °C to 140 °C
		Upto 10000 lpm				
249		Upto 2500 m3/h	Up to 10 bar	Up to 16 bar	0.6 to 5000 cSt	Up to 140 °C
		Upto 41675 lpm				
MR		Upto 4175 m3/h	Up to 40 bar	Up to 40 bar	1 to 5000 cSt	5°C to 150 °C
		Upto 69595 lpm				
TT		Upto 3400 m3/h	-	Up to 20 bar	1 to 5000 cSt	Up to 140 °C
		Upto 56675 lpm				

(* Former Series) * For special requirements, contact CIRCOR Sales Team

Strengths of the technology:

- Tolerates contamination
- Large range of viscosity
- Runs dry
- Low shear
- Variable speed

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

- Wide range of materials
- High temperature up to 698°F / 370°C High
- Flows up to 22,000 gpm / 5,000 m³/h
- Low NPSHr value
- Easy maintenance

Twin-Screw Pumps

Brands

- > HOUTTUIN™
- > TUSHACO^Y
- > WARREN®

Value Proposition :

Long service life

Precision gears prevent screw contact by maintaining a constant space between the screws, resulting in less wear on the screws.

Insensitive to impurities

Insensitive to impurities because there is no metal contact between the screw-shafts and the cylinder bore.

High performance

High suction capability due to good sealing of inter-meshing screw profiles.

API Compliant Pump

API 676 3rd edition compliance

Customization

Custom rotor pitches & profiles, seal types and suction / discharge orientation



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

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