

**BRAND INDIA ENGINEERING
E-CATALOGUE**

Date: 15-03-2025

Roto Pumps Limited

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Roto's state-of-the-art manufacturing facility covers a combined factory area of 20,000 sq. meters. With 'Creative Manufacturing Engineering' as core strength, Roto's plant operates using several efficient manufacturing process innovations in the crucial areas of metal & elastomer processing - handing Roto and its customers the critical edge in cost & performance. Roto has recently completely transformed its testing infrastructure. Conforming to international standards, Roto's ultra modern pump test facility with sophisticated data acquisition systems empowers "Real-Time Globally Accessible Data". Where required, Roto tests pumps using customer's fluids enabling specialized customized pumping solutions. Roto's manufacturing units are certified for conformance with the ISO 9001-2008 quality surveillance systems, ISO 14001 and OHSAS 18001 (Occupation, Health, Safety & Environment) certifications. "Innovation for increased customer value" has been the driving force behind the innovation centre at Roto. For over four decades, continuous research and development has helped resolve some of the world's toughest pumping problems - in a more effective and cost effective manner. With its strong team of technical experts, the Global Innovation & Research Center at Noida, addresses issues that are top-of-the-mind for customers.

Products Description

PROGRESSIVE CAVITY RANGE OF PUMPS

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Technical Details

Progressive Cavity Pumping Principle The pumping element comprises of a precision machined single external helix metallic rotor, and a double internal helix elastomer stator. Due to the special profile of the rotor and stator set, a sealing line is formed along the axis of the rotor which is maintained at both static and dynamic conditions. As the rotor turns within the stator, these cavities progress from the suction to the discharge end of the pump carrying the fluid.

ITC HS Code

841360

Certification Category

Product Standard

Certification/ Standard

CE

Issuing Agency

MSA

Date of Issue

01-05-2015

Date of Expiry

30-04-2018

Certificate Image

End Use Sectors

Agricultural Products, Food Products, Basic Chemicals, Textiles, Paper & Paper Products, Basic Chemicals, Water, Sewage & Effluent Treatment, Oil & Gas,

Product Images



Twin Screw Range of Pumps

Technical Details

The working principle of Roto gear timed Dual-Flow Twin Screw Pumps is dependent on the rotation of two screw spindles in closed compartment. Wherein a predefined clearance is maintained between the screw spindles as well as between the outside diameter of the screw spindles and the bore of the casing/liner in which the screw spindles are located. Each half of the screw spindles is left-handed and right-handed. Thus when the spindles start rotating, driven by a pair of timinggears located at the end of the screw spindles, the liquid is drawn towards the end of the screw spindles and entrapped between the bore of the pumping compartment as well as the flanks of the screws and is then propelled axially from both the ends towards the centre. Such a dual flow nullifies the axial thrust completely thereby enabling the screw spindles to remain in a state of hydraulic balance. Roto's unique double profile of the screw spindles contributes to a higher volumetric efficiency, thus an improved overall efficiency.

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Sectors of Interest

Agricultural Products, Food Products, Basic Chemicals, Textiles, Paper & Paper Products, Basic Chemicals, Water, Sewage & Effluent Treatment, Oil & Gas, Sugar and Marine.

Is OEM Supplier?

Indigenous

Is After Sales Service Provider?

Remarks : OEM Supplier

Importance of niche products

Yes

Potential market of niche products



BRAND INDIA ENGINEERING E-CATALOGUE

Product Supply Record

Patented Technologies

Awards/Accolades