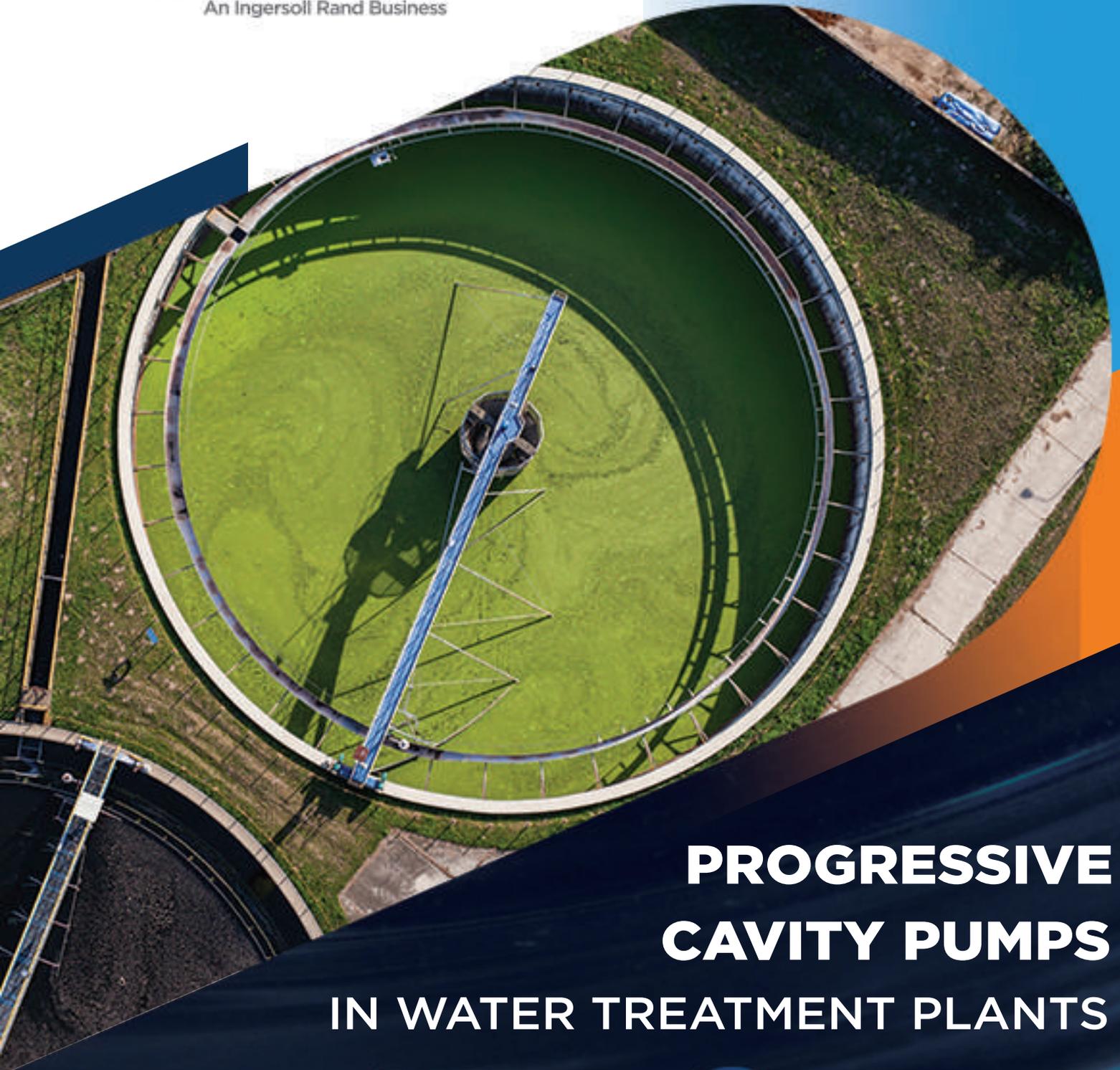




**HYDRO
PROKAV**

An Ingersoll Rand Business



PROGRESSIVE CAVITY PUMPS IN WATER TREATMENT PLANTS



Whether you're dealing with activated sludge, digested slurry, floc or thickened waste, our pumps deliver unmatched performance and reliability.

PROGRESSIVE CAVITY PUMPS

WHY PROGRESSIVE CAVITY PUMPS FOR SLUDGE MANAGEMENT?



Hydro Prokav's progressive cavity pumps are engineered to:



Handle viscosities up to 1,00,000 cP



Transport fluids containing soft solids up to 100 mm and hard solids up to 25 mm

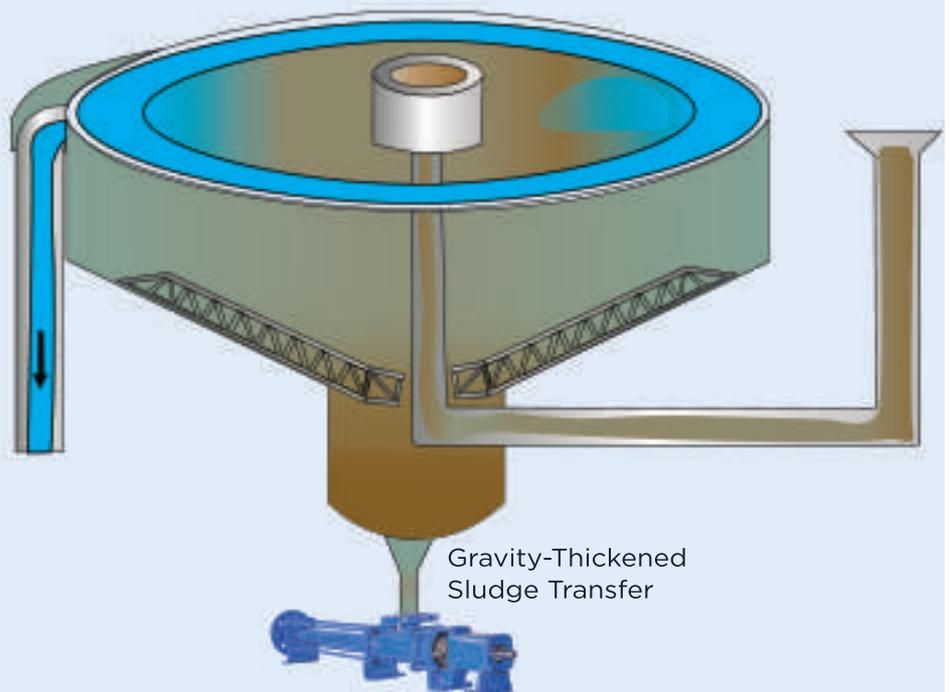


Handle dry sludge with moisture up to 50%



Reduce downtime and maintenance costs with robust, wear-resistant designs

PRIMARY CLARIFIER



PRIMARY TREATMENT

Sludge settled at the bottom of the primary clarifier is thick and often contains fibrous material. This primary sludge must be transferred to holding tanks or further treatment units such as sludge thickener and digestors and dewatering units.

- GRAVITY-THICKENED SLUDGE TRANSFER

- GRAVITY-THICKENED SLUDGE TRANSFER

SECONDARY TREATMENT

The dissolved and colloidal organic matter must be biologically removed to reduce Biochemical Oxygen Demand (BOD) and Activated Sludge System is at the center of this process.

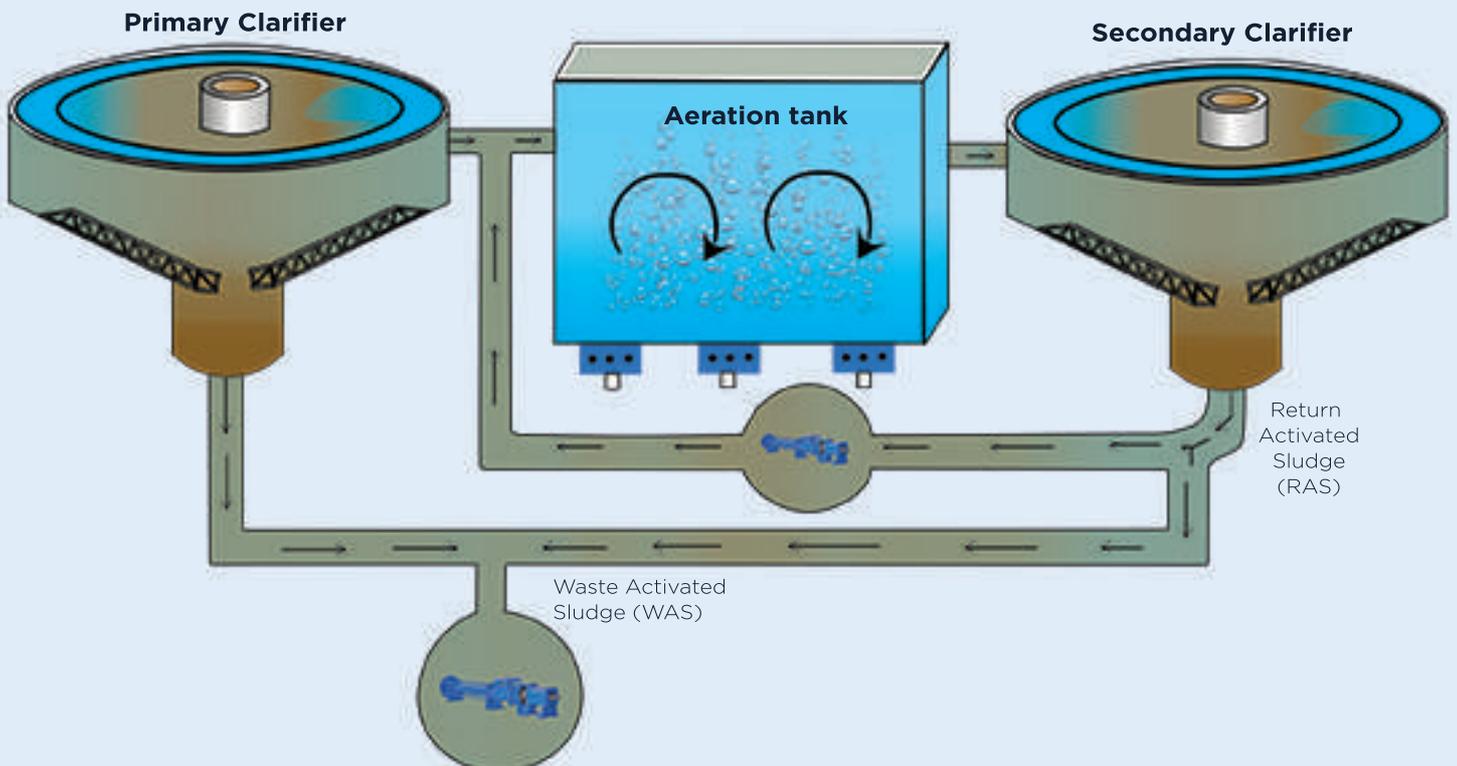
ACTIVATED SLUDGE SYSTEM

The biomass generated by aerobic bacteria and flocculants settle in the secondary clarifier as secondary sludge. Hydro Prokav Pumps can be used to recycle the Return Activated Sludge (RAS) back to the aeration tank and transfer Waste Activated Sludge (WAS) to further processes.

- RETURN ACTIVATED SLUDGE (RAS)

- WASTE ACTIVATED SLUDGE (WAS)

SECONDARY TREATMENT



TERTIARY TREATMENT

In tertiary treatment, Hydro Prokav pumps offer efficient transfer of fine sludge generated after nitrification and denitrification processes

ANAEROBIC DIGESTION

Thickened sludge from primary, secondary and tertiary processes are anaerobically digested and transferred to sludge storage tanks.

SLUDGE DEWATERING

Hydro Prokav pumps can be fitted to centrifuges, filter presses, and belt presses to transfer dewatered sludge.

SLUDGE DISPOSAL

Sludge disposal techniques like land application, landfill, and incineration can be done using our intelLe Sludge Transfer (iST) System to ensure efficient, low-resistant transfer. This system is automated and can transfer sludges up to 1000 meters.



Anaerobic Digestion

Load and unload undigested and digested sludge to and from digesters with Hydro Prokav Pumps

Dewatering

Dewater sludges in Filter Press, centrifuges and belt presses seamlessly with Hydro Prokav Pumps

Sludge Disposal

Dispose sludges as far as 1000 meter with our intelLe sludge transfer system without any hiccups

HYDRO PROKAV PUMPS MADE FOR WATER TREATMENT PLANTS

Model	Max Flow (m ³ /h)	Max Temperature (°C)	Max Viscosity (cP)	Max Pressure (bar)	Special Features
KX-A	175	200	1,00,000	48	Short-pitch rotors, leak-free transfer
KX-B	375	200	1,00,000	6	Bulk transfer, long-pitch rotors
KX-W	275	200	1,0000,00	36	Wide-hopper inlet, screw conveyor
KYM	380	175	1,0000,00	36	Customizable sealing and universal joints
KX-CC	375	200	1,00,000	36	Compact, close-coupled
iST System	15	46	5,00,000	4	Long-distance of transfer low moisture sludges

Hydro Prokav is a leading manufacturer and exporter of progressive cavity pumps (PCPs), headquartered in Coimbatore, India. With over two decades of experience and a presence in 47 countries, we deliver efficient, reliable, and customized progressive cavity pumps and solutions across industries.

Our modern 25,000 sq. meter facility houses advanced machinery and testing systems, enabling precision manufacturing and strict quality control. We also operate a state-of-the-art rubber manufacturing unit and a dedicated R&D facility, driving innovation and material excellence. Our expertise lies in handling tough, viscous, abrasive, and high-consistency fluids, with a wide range of Progressive Cavity Pump (PCP) models tailored to diverse industrial applications.

WHY CHOOSE HYDRO PROKAV?

- **In-House PCP Technology** for complete control and faster delivery
- **ISO 9001, 14001, 45001, CE, ATEX, & FDA Certified** for global quality assurance
- **State-of-the-art rubber and stator manufacturing unit**, equipped with precision molding technology
- **Highly Durable Stators** for lower total cost of ownership
- **Custom Pump Solutions** to meet specific fluid handling needs
- **Global Support Network** with offices in India, USA, China & worldwide distributors



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