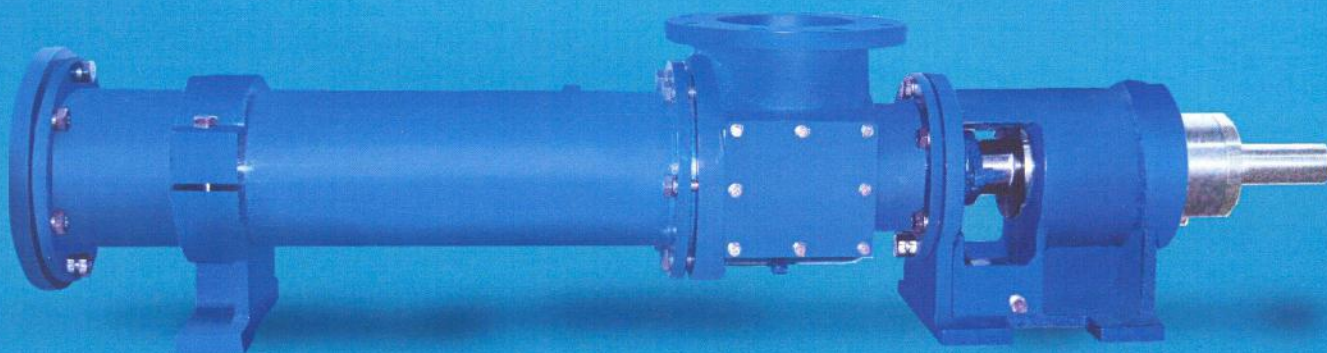


# HYDRO PROKAV

Proven Performance for Better Pumping Solutions



## KM 2000 PUMPS



# HYDRO PROKAV KM 2000 SERIES PUMPS

Hydro Prokav KM 2000 series pumps are built with rugged gear-type universal joint which is the effective solution to handle heavy radial thrust loads. This design ensures best performance with very minimal maintenance, low wear & tear of rotating parts and longer life of the Pump.

## The heavy duty transmission train

- A. Gear type universal joints with perfect sealing of rubber sheath prevents contamination of joints and foreign particle entry to joints during pumping of fluids.
- B. The grease lubricated gear joints can very well operate up to 90° C, far higher than other oil lubricated joints.
- C. Thrust plates are clamped by pins ensuring maximum life for gear joints and smooth functioning.
- D. The lengthy coupling rod design maintains shaft angularity of less than 1.5° for reduced stress on gear joints and on Bearings.

## Drive shaft assembly

- A. Hollow single shaft design reduces run-out for extended packed gland or mechanical seal life.
- B. Stuffing box assembly can accommodate single/double mechanical seal or different types of packing.

## Unique fitment of pumping elements

- A. Precision machined rotor and elastomer stator design reduces slippage for higher efficiency and improved volumetric efficiency.
- B. Hard chrome plated rotors provide high abrasion resistance and longer service life.
- C. Wide variety of elastomers available for every applications with proven qualities.

## Low maintenance casing & bearing housing assembly

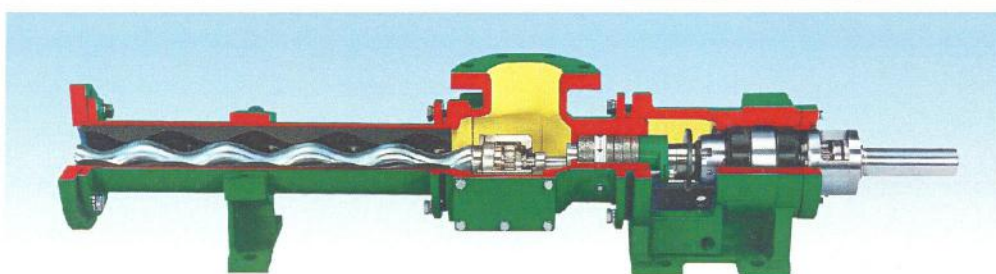
- A. Hydro Prokav KM 2000 series pumps are built with grease packed tapered roller bearings for withstanding better load conditions of the rotating parts.
- B. Sturdy castings improve pump performance by reducing vibration load to the shaft and bearings.
- C. The gear joint on shaft side reduces the radial thrust on drive shaft and bearings and requires minimal pump disassembly.

## Additional features

- A. Suction chamber allows full 360° rotation for easier piping installation.
- B. Suction and discharge flanges as per ANSI, BS, ASA, DIN OR JIS for easy installation
- C. Drain plug provided at the casing ensures the total drain of liquid form casing before inspection or during maintenance.
- D. All pumps are provided with inspection ports on either side for efficient cleaning.
- E. Gland area is drilled and tapped for easy disposal of stuffing box leakages.

## Materials of construction

	Standard Materials	
Pump Body	Cast Iron, Cast Steel, CF8, CF8M	
Internals, Including Rotor	Alloy Steel, Tool Steel, AISI 304, AISI 316,	
Stators	EPDM	(to 260°F)
	Fluoroelastomer	(to 400°F)
	Nitrile	(to 210°F)
	Natural Rubber	(to 185°F)





## Special options to suit every application - flush gland

- Allows gland packing leakage to be flushed away from the pump preventing severe damage to seals and packing.
- Permits controlled leakage of process or flush fluid to reduce friction and dissipate heat.
- Inlet and outlet connections for flushing leakage away to drain.
- Ideal for waste water treatment, sugar, petrochemical and paper industry applications.
- Available with flanged and wide throat versions with or without shaft sleeves.

## Foreign particle deflector

- Prevents ragging around pump coupling rod and rotor head.
- Eliminates down time of costly equipment and damages due to blockages.

## Shaft sleeve design

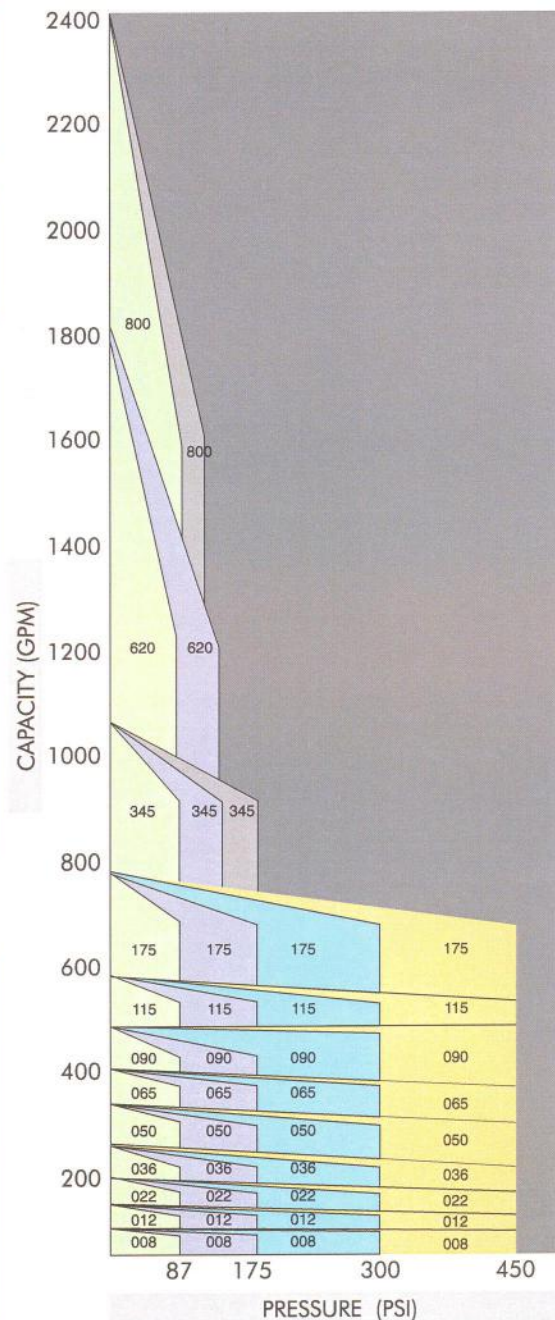
- Protects the shaft from high wear and tear from abrasive media.
- Minimizes drive shaft and bearing replacement for economical maintenance.

## Dry running protection

- Prevents dry running and over pressure situations. Suitable Pressure switch or dry running sensors at stator are available as options.
- Ideal for high and low viscosity fluids, suspended solids, abrasive and volatile fluids.
- Solid drive shaft for slurry applications where pumping fluid could harden inside the hollow drive shafts.
- Augur or larger augur design for Hydro Prokav KM 2000 wide throat and bridge breaker models available. Wide variety of drive options, couplings, mechanical seals, gland packing, motor controls, anti rotation devices and jacketing versions available on request.

## Long-lasting, low-maintenance construction, packed in a small space

- Connecting rod operates within a hollow drive shaft allowing it to be longer without adding to total pump length for reduced angularity and extended universal joint life. Radial loads are transmitted to pump end behind the bearing making the rear joint accessible for easier, faster maintenance.
- Drive shaft "flots" in bearings and stuffing box, without placing radial loads directly on the stuffing box end of the drive shaft. This minimizes drive-train wear, provides tight, leak-free stuffing box sealing and reduces overall maintenance costs.



## Salient features of Hydro Prokav KM 2000 progressive cavity pumps

- Low total cost of ownership
- Positive displacement
- Non-pulsating flow
- Accurate, repeatable flow
- Head independent of pump speed
- Low NPSH requirement
- Self-priming
- High suction lift upto 28 feet
- Low shear
- Particles upto 2.8" in diameter
- Reversible
- Viscosities up to 1,000,000 cps
- No valves to clog, stick or vapor lock
- No timing gear adjustments
- High volumetric and mechanical efficiency
- Smooth fluid discharge
- No vibration
- Easy to maintain
- Wide temperature range to 400°F
- Ideal for metering applications
- Easy to regulate
- Superior abrasion resistance



## RANGE OF PRODUCTS

- Wobble stator pumps
- L frame pumps
- KM 1000 series pumps
- KM 2000 series pumps
- KX series
- PX series
- Wide throat pumps
- Bridge breaker pumps
- Sanitary design quick clean pumps
- Vertical / Drum emptying PC pumps



KM-2000 Series progressive cavity pumps



KX - PK Series industrial and chemical screw pumps



KX - W Series wide throat chemical and hygiene screw pumps



KX - B Series industrial and chemical screw pumps



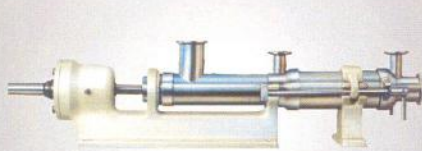
KXCC Series close coupled compact pumps



KX - F Series quick clean hygiene screw pumps



KXV - Helical series pumps



KXF - Quick clean PC pumps



Wobble stator PC pumps



Rotor Stator for wobble stator pumps

### The Prokav's real expertise

Hydro Prokav Pumps India Pvt. Ltd., is part of BKG group of industries based at industrial city of Coimbatore in South India, who have a proven track record in the field of engineering with large customer base through out India and abroad for the past two decades. Our group is engaged in manufacture of various process machineries like filter presses, classifiers, cyclones, valve and other special purpose machines needed for various industries like chemical, pharma, fertilizer, ceramics, sugar, food processing, paper, effluent, textile etc.

At Hydro Prokav, we are manufacturing the complete range of positive displacement pumps such as progressive cavity pumps, twin screw pumps, triple screw pumps, internal gear pumps and rotary lobe pumps.

### International Quality

Equipped with stringent quality standards, modern precision measuring instruments, latest process machines, sophisticated test facilities and with a team of dedicated and highly professional engineers, we at Hydro Prokav produce machines that are of high quality and meeting the stringent international quality standards. Our organisation is certified for CE standards and ISO 9000 quality surveillance systems.



**HYDRO PROKAV PUMPS (INDIA) PVT. LTD.,**

**BKG GROUP OF COMPANIES**

(AN ISO 9001 COMPANY)

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