

# HYDRODYNE TEIKOKU

*a joint venture partner*

## CANNED MOTOR PUMPS

Over 25 years of Engineering Excellence in India for critical segments of Industries...



*.....Your Partner in  
Emission Control*

- Canned Motor Pumps
- Metering Pumps
- Canned Motor Agitator

- No Mechanical Seal or its API System
- No Coupling
- No External Lubrication
- Vacuum Tight
- Hermetically Sealed
- Flameproof & Explosion Proof
- No Rigid Foundation
- Compact Design
- Zero Leakage & Emission
- No Alignment
- No Product Loss
- Longest MTBF
- Low Noise & Vibration Levels
- Negligible Maintenance
- Lowest Cost of Production



**HYDRODYNE TEIKOKU (INDIA) PVT. LTD.**

[www.hydrodynepumps.com](http://www.hydrodynepumps.com)

# Ultimately Ecological, Pollution – free, Zero Emission Canned Motor Pumps.



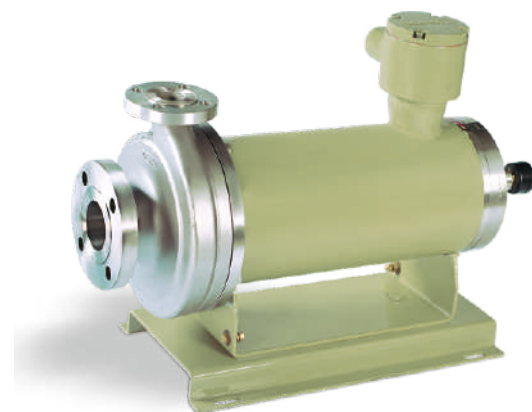
HYDRODYNE TEIKOKU presents the most edge-cutting canned motor pumps in double containment, leak-free, robust & user-friendly design to the users in desperate need to live up to 21st Century industrial standard on the planet.

HYDRODYNE TEIKOKU products will prove their hermetic-sealing power in the following fluid-handling segments: Oil & Gas Refining, Petro chemistry, Chemistry, Food-Processing, Pharmaceutical, Textile, Refrigeration, Nuclear Power Plants and more to come .....

## **Type F-V (Basic Internal Circulation Pump)**

Suitable for a broad range of clean, non-volatile liquid with moderate temperature

Capacity max. : 1000m<sup>3</sup>/hr  
Head max. : 150m  
Motor rating : 250KW  
Temperature : up to 150 °C



## **Type R (Reverse Circulation Pump)**

Suitable for volatile liquids, liquefied gases & refrigerants such as ammonia and synthetic fluoro and hydro carbons.

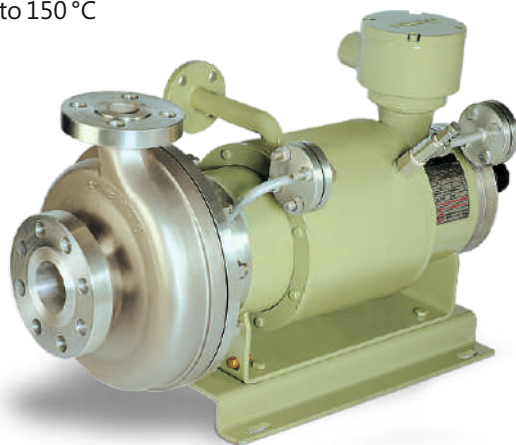
Capacity max. : 1000m<sup>3</sup>/hr  
Head max. : 150m  
Motor rating : 250KW  
Temperature : up to 150 °C



## **Type B (High Temperature Pump)**

Zero leakage service for hot oils, hot water and for any other high temperature chemicals. Inbuilt & External heat exchanger available.

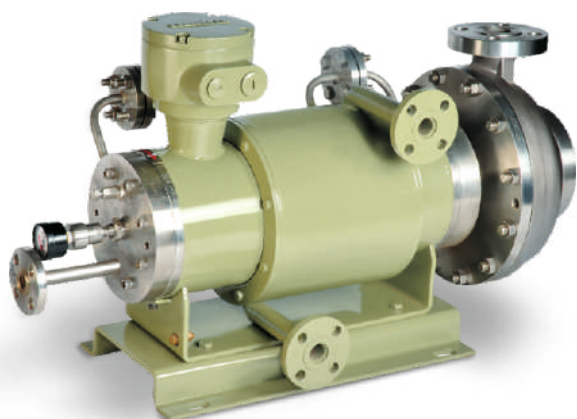
Capacity max. : 1000m<sup>3</sup>/hr  
Head max. : 150m  
Motor rating : 250KW  
Temperature : up to 400 °C



## **Type D (Slurry Pump)**

Suitable to handle relatively small amount of fine Slurry.

Capacity max. : 100m<sup>3</sup>/hr  
Head max. : 150m  
Motor rating : 250KW  
Allowable max slurry content: 3 to 5wt %





### Type G (Self Priming Pump)

Canned motor self-priming featuring elimination of priming problems due to leakage at shaft seal. Very pertinent to pumping solvents out of underground tanks and application involving liquid entrained or dissolved gas.

Capacity max. : 10m<sup>3</sup>/hr  
Head max. : 100m  
Motor rating : 50KW



### Type U & X (Higher Heat Resistant Canned Motor)

Suitable for handling high temperature liquids such as Heat Transfer Oils, Hot Water & High Melting Temperature Chemicals with un-comparable easiness.

Types U & X need no cooling providing customers with considerable energy and utility savings in high temperature pumping.

Temperature : up to 400 °C  
Motor rating : 60KW

### Type MT – Multistage Canned Motor Pump

Specially designed for high head, low flow duties. Increased heads are achieved by running the fluid from discharge of one impeller to the suction of the succeeding one.

Capacity max. : 100m<sup>3</sup>/hr  
Head max. : 450m



### Type R – Canned Motor Agitator

Side or bottom tank entry, zero leakage agitators for high vacuum to high pressure services. Space saving canned motor design requires no alignment and no possibility of ingress or contamination from outside environment ensuring product quality. High speed mixing at 900/1100RPM with canned motor driver up to 20KW

### Metering Pump

High accuracy – High efficiency API 675

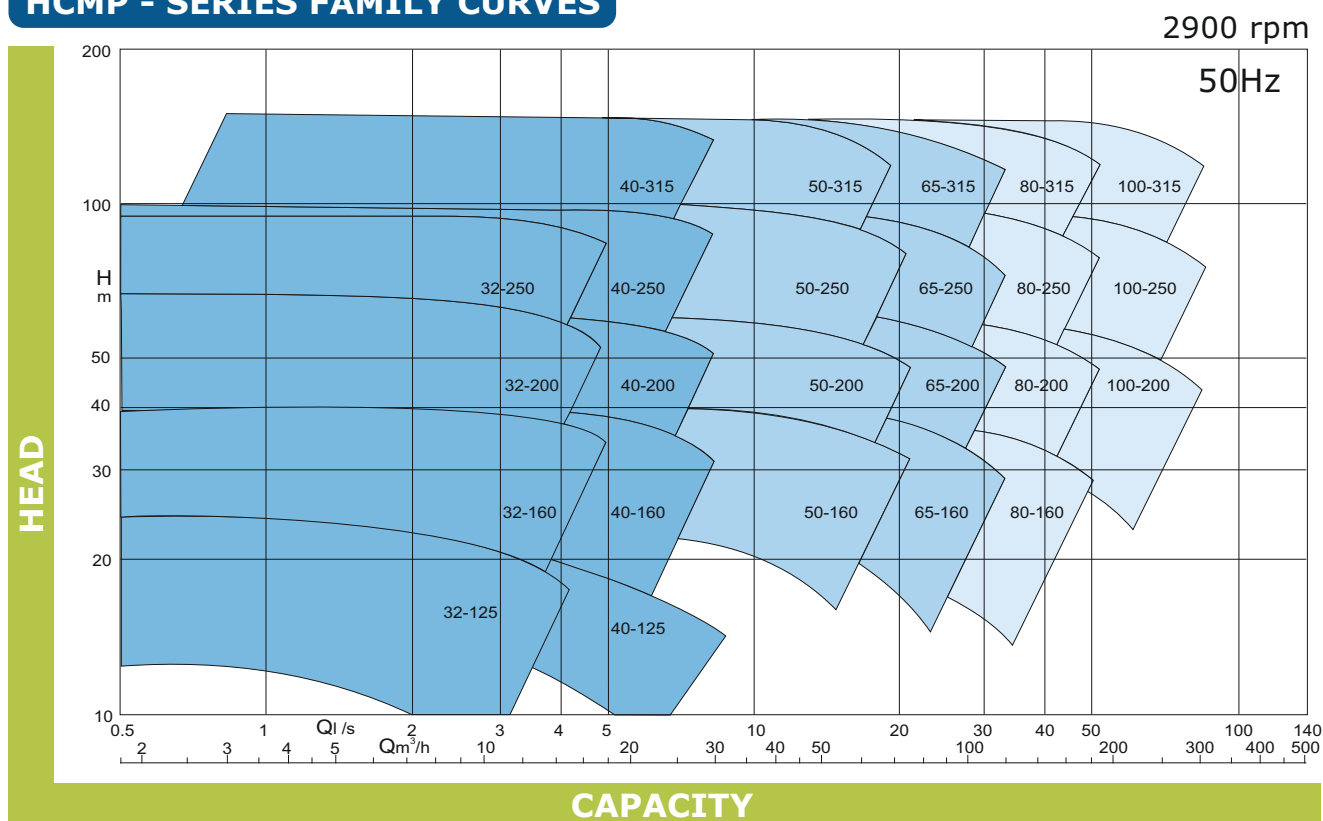
Capacity max. : 4,000 l/h per head  
Head max. : 50MPa



## APPLICATIONS

<b>Acids</b>	Sulphuric acid, Nitric acid, Mixed acid, Phosphoric acid, Hydrofluoric acid, Hydrocyanic acid, Chromic acid, Acetic acid, Oxalic acid, Lactic acid, Methacrylic acid, Chlorosulfonic acid, Fatty acid, Boric acid
<b>Salts as solution</b>	Calcium Chloride, Sodium chloride, Sodium carbonate, Ammonium sulphate, Sodium cyanide, Potassium dichromate, Lithium Chloride, Ammonium sulphite, Sodium hypochlorite, Sodium chlorate, Lithium chloride
<b>Alkalis</b>	Caustic soda, Caustic potash, Ammonia water
<b>Aromatic compounds</b>	Benzene, Toluene, Xylene, Phenol, Naphthalene, Dichlorobenzene, Cresol, Methyl naphthalene, Alkybenzene
<b>Hydrocarbons</b>	Butane, Hexane, Propane, Propylene, Ethylene
<b>Monomers and Polymers</b>	Styrene, Caprolactam, Chloroprene, Butadiene, Vinyl ether, Acrylonitrile, Acetonitrile, Vinyl chloride, Esterify Products
<b>Alcohol</b>	Methanol, Ethanol, Butanol, Hexanol, Isopropyl alcohol, Octyl alcohol, Glycerine, Ethylene glycol, Propylene glycol
<b>Other organic combinations</b>	Formaldehyde, Benzaldehyde, Methyl ether, Acetone, Ethylene oxide, Propylene oxide, Acrolein, Allyl acetone, Acetic anhydride, Hexane
<b>Halogenides</b>	Carbon tetrachloride, Trichlorethylene, Allyl chloride, Phogene, Liquid chlorine, Anhydrous hydrogen fluoride, Methylene dichloride, Methyl chloride, Titanium tetrachloride, Silicon tetrachloride, Phosphorus oxichloride, Phosphorus trichloride, Ethylene trichloride, Propylene dichloride, Chloroform, Aluminium chloride
<b>Nitrogen and Sulphur combinations</b>	Carbon disulphide, Hydrazine, Methyl hydrazine, Aniline, Carbon disulphide
<b>Liquified gases</b>	Freon, Carbon dioxide, Methane, Ethylene, Propane, Propylene, Ammonia
<b>Oils</b>	Petroleum, Transformer oil, Edible oil
<b>Heat transfer oils and coolants</b>	Synthetic heat transfer, Lithium bromide, Methyl chloride and other coolants
<b>Water</b>	Sea water, Distillate and pure water, Hot water and others
<b>Others</b>	Peroxide, Plasticiser, Developer, Detergent

## HCMP - SERIES FAMILY CURVES



Contact



+91-22-50592300 - 30



+91-22-50592318



E-Mail : [info@hydrodynepumps.com](mailto:info@hydrodynepumps.com)

**HYDRODYNE TEIKOKU (INDIA) PVT. LTD.**

S. No. 18, H. No. 3, 4 & 5 of Village Ghodbunder, Mira Bhayandar Road,  
Near R. T. O. Office, Mira Road (East), Thane - 401107., Maharashtra - INDIA.