







# **DM SERIES PUMPS**

#### - Introduction

DM series pumps are specially designed for applications in food, beverage and cosmetic industries. These pumps are simple in construction with emphasis on quick cleaning. All metallic parts in contact with the media are 316 and 304 stainless steel with a smooth finish. Wide throat hopper inlets incorporating coupling rod mounted augers are available for highly viscous media.

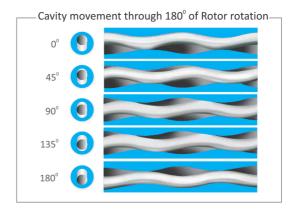
## Distinctive design, features and benefits

- POSITIVE DISPLACEMENT
   The head developed is independent of speed, whereas capacity is proportionate to the speed
- NON CONTAMINATING METALS
   All metallic surfaces in contact with the media are smooth surface stainless steel
- NO RETAINING POCKETS
   Avoids chemical or bacterial contamination
- CLEANING IN PLACE Ensures positive cleaning
- HIGH SUCTION LIFT Ideal for lifting viscous fluids. Effective even in high vacuum conditions
- LOW FLUID VELOCITY
   Ensures gentle handling of shear sensitive fluids
- UNIFORM FLOW
   No pulsation, turbulence or aeration
- NON CLOGGING
   Ability to handle solids in suspension or mixtures containing high percentage of solids
- SELF PRIMING
   Can handle high percentage of air/gas/vapor with liquid
- VERSATILITY
   Handles any fluid from clear water to highly viscous media
- REVERSIBLE
   The rotation and direction of flow are reversible. This offers flexibility in handling variety of applications.



## **Progressive Cavity Pumping Principle**

The pumping elements consist of a precision machined single helical metal rotor and a double helical elastomer stator. With the rotor engaged in the stator a seal line is formed along the axis of the rotor. The seal line is maintained in both static and dynamic conditions. As the rotor turns inside the stator, a series of cavities form that progress from the suction to the discharge end of the pump. As one cavity opens and closes, it's opposing cavity closes and opens at exactly the same rate resulting in a constant non-pulsating fluid flow.



## **Typical Applications**

## FOOD

- Milk Curd Oil slurries Cheese Ice-cream
- Chocolates Taco Sauce Dough balms
- Lecithin Jam Butter oils Diced vegetables
- Fruit pulp Fruit juice Beer Beverages
- Liquor Wine Malt Extracts
- Tomato pastes etc.

# PHARMA AND COSMETICS —

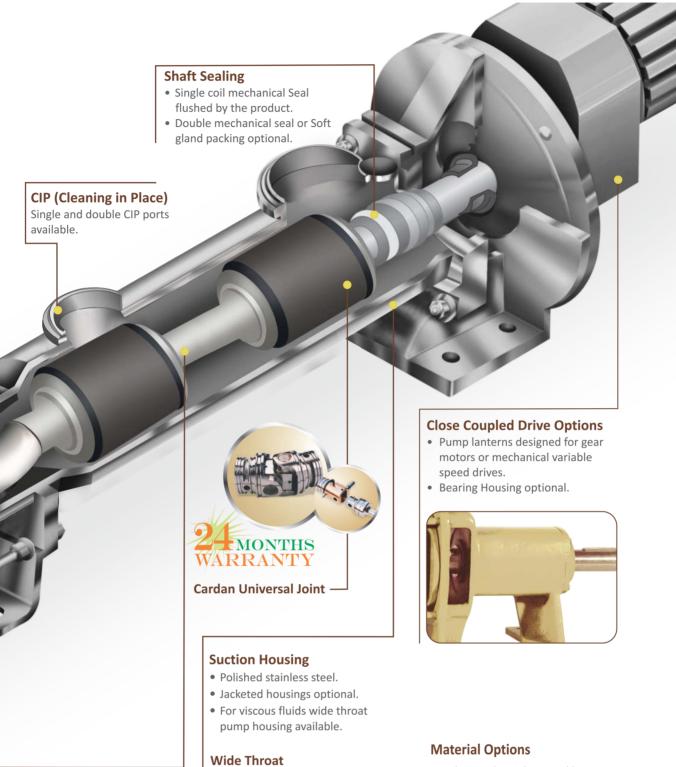
- Syrups Pill pastes Creams Shampoos
- Tooth pastes Heavy liquid lotion Creams
- Selenium liquid Chyawanprash Bulk drugs
- Vitamins Emulsion Gelatin
- Essential oils concentrate Ointments
- Liquid make up Fruit pulp Herbal pastes etc.

# Zero leakage @ low torque









- Fabricated stainless steel housing
- Stainless steel rotor
- Stainless steel hardware
- Stator options:
  - Nitrile Black
  - Nitrile Off-white
  - EPDM Black
  - EPDM White
  - Fluoroelastomer
- Other exotic materials
  - Duplex
  - Super Duplex

# **Technical & Performance Information;**

# **Threaded Port Series**



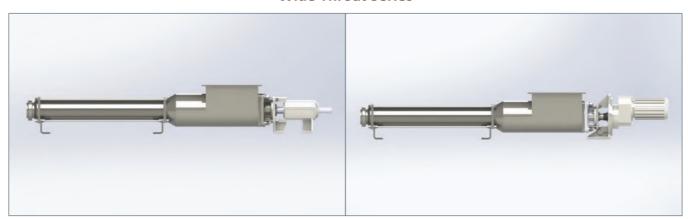
# **Single Stage Pumps**

Size	51	53	54M	57M	59M	61M	63M
Capacity							
M³/hr	7	10	18	31	51	63	86
Pressure							
Bar	6	6	6	6	6	6	6

# **Two and Four Stage Pumps**

Size	51	53	54	56	58	60	62
Capacity							
M³/hr	7	10	14	18	26	37	55
Pressure							
Bar	12	12	12	12	24	24	12

# **Wide Throat Series**



# **Two and Four Stage Pumps**

Size	51	53	54	56	58	60	62
Capacity							
M³/hr	4	6	7	11	16	22	33
Pressure							
Bar	12	12	12	12	24	24	12



Melbourne Office & Warehouse



Manchester Office & Warehouse



Roto Pumps North America, Inc





## ROTO PUMPS LTD.

#### **Marketing Head Office**

Roto House,13, Noida Special Economic Zone, Noida - 201305, INDIA Tel.: +91 120 2567902-5 Fax: +91 120 2567911 Email: contact@rotopumps.com

## **Branch Offices and Warehouses**

## **United Kingdom**

Australia

Unit 1 St Elizabeths Park, Grey Street, Denton, Manchester, M34 3RU Tel.: +44 161 4775511 Fax: +44 161 4747900 Email: sales@rotopumps.co.uk

26, Deans Court, Dandenong South, Victoria 3175 Tel.: +61 3 97945200 Fax: +61 3 97945900 E mail: melb@rotopumps.com.au

## www.rotopumps.com

#### **Subsidiaries**

## Roto Pumpen GmbH

Am Brühl 17, 32423 Minden, Germany Tel: +49 571 40410077, Email: sales@rotopumpen.de

#### Roto Pumps North America, Inc.

5889 S Garnett Rd. Tulsa ,Oklahoma 74146 Tel: +1 918 280 9144,Fax: +1 918 806 6853 Email: info@rotopumpsna.com

#### Roto Pumps Africa (Pvt) Ltd

3, Sun Rock Close Germiston 1401, Africa Tel.: +27 10 100 3774

Email: sales@rotopumps.co.za