



ROTOMAKE
ENGINEERING INTERNATIONAL

Engineering Performance, Powering Progress

ROTOMAKE ENGINEERING

PROGRESSIVE CAVITY PUMP

PROGRESSIVE CAVITY PUMPS

INDUSTRIAL | FOOD | SUGAR
MINES | WASTE WATER | CHEMICAL
EXPLOSIVE | CONSTRUCTION
PAPER INDUSTRIES |



REVERSIBLE



DURABLE



PRECISE



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WOBBLE SCREW CAVITY PUMP TYPE RMDW / RMSW

ADVANTAGES:

- Flow rate from up to 3500 (lit/h)
- Pressure up to 6 (bar)
- Self-priming
- High efficiency

VERTICAL PROGRESSIVE CAVITY PUMP TYPE RMPV / RMPHV / RMPFV

ADVANTAGES:

- Flow rate from 2 up to 200 (m³/h)
- Pressure up to 6 (bar)
- Precise dosing
- Pumping of media low to high viscosity
- Pumping of media with solid contents



METERING SCREW CAVITY PUMP TYPE RMPM / RMPHM

ADVANTAGES:

- For low to high viscous media
- Flow rate from 2 up to 1500 (lit/h)
- Pressure up to 6 (bar)
- Gentle conveyance
- Constant low-pulsation conveyance
- High efficiency

GENERAL PURPOSE SCREW PUMP TYPE RMPD / RMPS

ADVANTAGES:

- Easily maintenance
- Flow rate from up to 3500 (lit/h)
- Pressure up to 6 (bar)
- Self-priming
- High efficiency



STATOR



ROTOR



SPARES



JOINTS



INDUSTRIAL & CHEMICAL PUMP TYPE RMPI / RMPS

ADVANTAGES:

- Flow rate from up to 200 (m³/h)
- Pressure up to 24 (bar)
- Gentle conveyance
- Constant low-pulsation conveyance
- High efficiency

HYGIENIC SERIES PUMP TYPE RMPF / RMPH

ADVANTAGES:

- Flow rate from up to 200 (lit/h)
- Pressure up to 24 (bar)
- Reversible conveyance direction
- Constant low-pulsation conveyance
- Easy serviceability



WIDE THROAT PUMP TYPE RMDW / RMDSW / RMDFW / RMDWH

ADVANTAGES:

- For viscous and semi solid media
- Flow rate from up to 200 (m³/h)
- Pressure up to 24 (bar)
- Gentle conveyance
- Constant low-pulsation conveyance

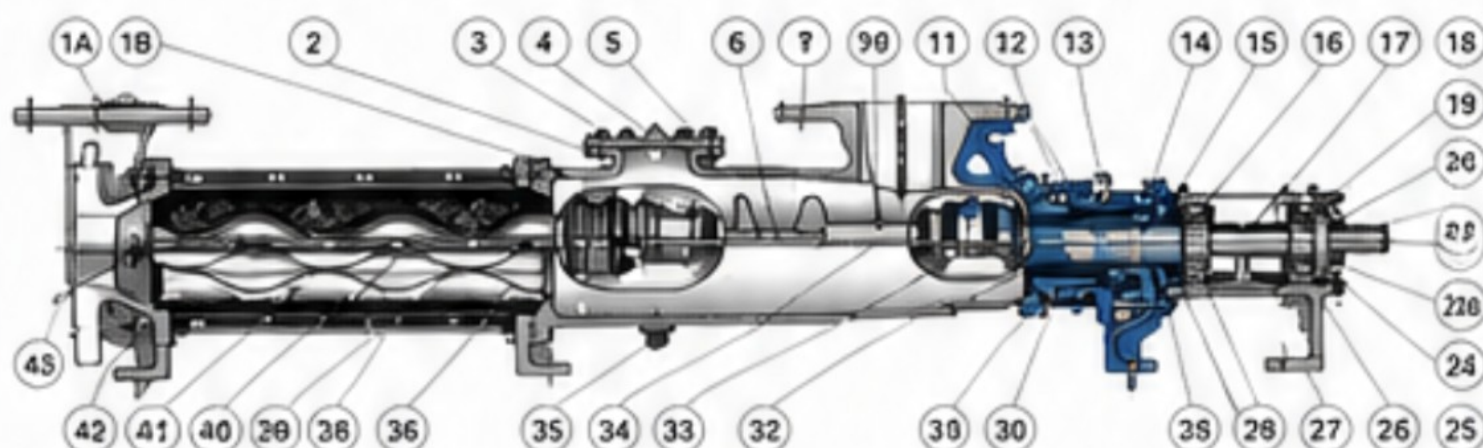
BARREL EMPTY PUMP TYPE RMPB / RMPSB / RMPHB

ADVANTAGES:

- Flow rate from 2 up to 50 (lit/m)
- Pressure up to 6 (bar)
- Easily maintenance
- Constant low-pulsation conveyance
- High efficiency



EXTERNAL AND INTERNAL PARTS OF SCREW PUMP CROSS SECTIONAL ARRANGEMENT



Sl.No.	Name of Parts	Sl.No.	Name of Parts
1A	Pin & Bush Joint Assy.	26	Bearing Spacer
1B	Cardan Joint Assy.	27	Tapper Roller Bearing (Opt.)
2	Hex Head Bolt, Nut, Spring Washer	28	Grease Seal Housing
3	Filling Plug	29	Water Thrower
4	Plain Washer for filling Plug	30	Mech Seal Housing & Mech Seal (Opt.)
5	Gasket Cover	31	Hex Head Bolt for Pump Assy.
6	Coupling Rod Auger	32	'O' Ring for Mech. Seal Housing
7	Coupling Rod	33	Cardan Joint Assy. (Opt)
8	Pump Housing	34	Flavable Rod (Opt)
9	Cordan Rod	35	Drain Plug For Pump Housing
10	Stuffing Box	36	Middle Support
11	Gland Packing Set	37	Hex Nut for Middle Support
12	Gland	38	Tie Rod
13	Stud Hex, Nut, Spring Washer	39	Rotor
14	Shaft Sleeve (Opt.)	40	Stator
15	Grave Screw for Bearing Housing	41	End Cover
16	Ball Bearing	42	Dome Nut & Spring Washer for Tie Rod
17	Bearing Spacer	43	Drain Plug & Plain Washer
18	Circlip Internal for Ball Bearing	44	Stator Support Ring
19	Hex Head Bolt for Bearing Cover	45	'O' Ring For Support Ring
20	Bearing Cover	46	Plain Washer for Filling Plug
21	Feather key for Shaft Pin Bush & Shaft Cordan	47	Lantern Ring For Stuffing Box
22A	Shaft pin & Bush	48	Nozzle for Stuffing Box
22B	Shaft Cordan	49	Stuffing Box
23	Grease Seal for Bearing Cover	50	Glund
24	Bearing Lock Nut	51	Water Thrower
25	Bearing Housing	52	Shaft Sieve



INTEGRAL SAFETY RELIEF VALVE

Recommended for plant safety wherever the possibility of the pump running against a closed valve or in line blockage exists.

MATERIAL OF CONSTRUCTION



HOUSING COMPONENTS:

Cast Iron, Mild Steel, Cast Steel, CF8 (AISI-304), CF8M (AISI-316), & AISI-316L.



ROTATING PARTS:

Rotor, Shafts, Coupling Rods, Pins & Bushes in AISI-1040, AISI-410, AISI-420, AISI-431, AISI-304, AISI-316, AISI-316L or other exotic Monel Alloys.



STATOR:

Natural, Nitrilg, Neoprene, Butyl, EPDM, Silicon, Teflon, Viton & Non-contaminating Food Grade Stators.



BASE FRAMES:

Mild Steel or Stainless Steel (cladded or whole) Fabricated.



SHAFT SEALING:

Mechanical Seal, Gland Packing, Lip Seal (Optional).

APPLICATIONS



SEWAGE & WASTE WATER TREATMENT PLANT:

Sewage Water, Raw Sludge, Activated Sludge, Alum Sludge, Centrifuge Sludge, Tannery Effluent, Lime Sludge, Chrome Liquor etc.



CHEMICAL, DYE, PAINT & PETROCHEMICALS:

Lime Slurry, Alkaline & Acidic Slurry / Chemical, Detergent & Soap Slurry, Filter Cake, Printing Ink, Dyes & Intermediates, Solvent, Binding Agent, Dispersion Paint, Clear & Opal Varnish, Acrylic Emulsion, Alum Aluminium Hydroxide Slurry, Bentonite Slurry, Resins, Solvents, Petroleum Jelly etc.



BEVERAGES, BREWERIES & WINERIES:

Yeast, Wort, Cider, Undiluted Brewer's, Whole Grapes with Stalks, Waste Yeast.



FRUIT & VEGETABLE PROCESS:

Mango, Litchi, Guava, Banana, Apple, Pineapple, Orange, Pomegranate, Peach, Grapes, Strawberry, Papaya Pulp, Noodles, Idli Mix, Shrikhand, Ghee, Lecithin, Lithopone Paste.



PAPER & PULP:

High consistency Paper Cellulose Pulp, Black Liquor, Paper Coating Mix, Starch & Spent Wash etc.



CONSTRUCTION:

Cement Slurry, Grouting, Plastering, Mortar Injection, Vermiculite Slurry etc.



VEG OIL & VANASPATI PLANT:

De-Waxed Gum & Oils, Crude Palm Oil, Rice Bran Oil, Soap Stock, Wax Oil, De-Gumming, lecithin & numerous fluids.



MINES:

Coal Washing, Flotation Sludge, Mine Water & Coal Slurry etc.



EXPLOSIVE:

Matrix Emulsion, Ammonium Nitrate, Bulk Explosives, Emulsion Matrix/Mix and Water etc.



DAIRY, SWEETS & CONFECTIONERIES:

Condensed & Concentrated Milk, Cream, Butter, Liquid Glucose, Latex, Chocolate Mix, Jam Honey, Sugar Syrup, Malt dextrin, Gelatines, Nut Paste, Ice Cream & Dug Slurry etc.



COSMETICS & PHARMACEUTICALS:

Chyawanprash, Sugar Syrup, Cream, Boost, Horlicks, Lyes, Gelatine, Medical Formulation, Ointments, Toothpaste, etc.



SUGAR MILLS:

Molasses, Sulphites Syrup, Melt, Flocculent, Sodium Silicate, Milk of Lime, Muddy Water, Ceramic & Refractories, Ceramic/Clay Slip, Aluminum Oxide, LDO, HSD etc.



STEEL PLANT:

Carbon Injection in Blast Furnace, Grouting, LDO, HSD & Oil Sludge.



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