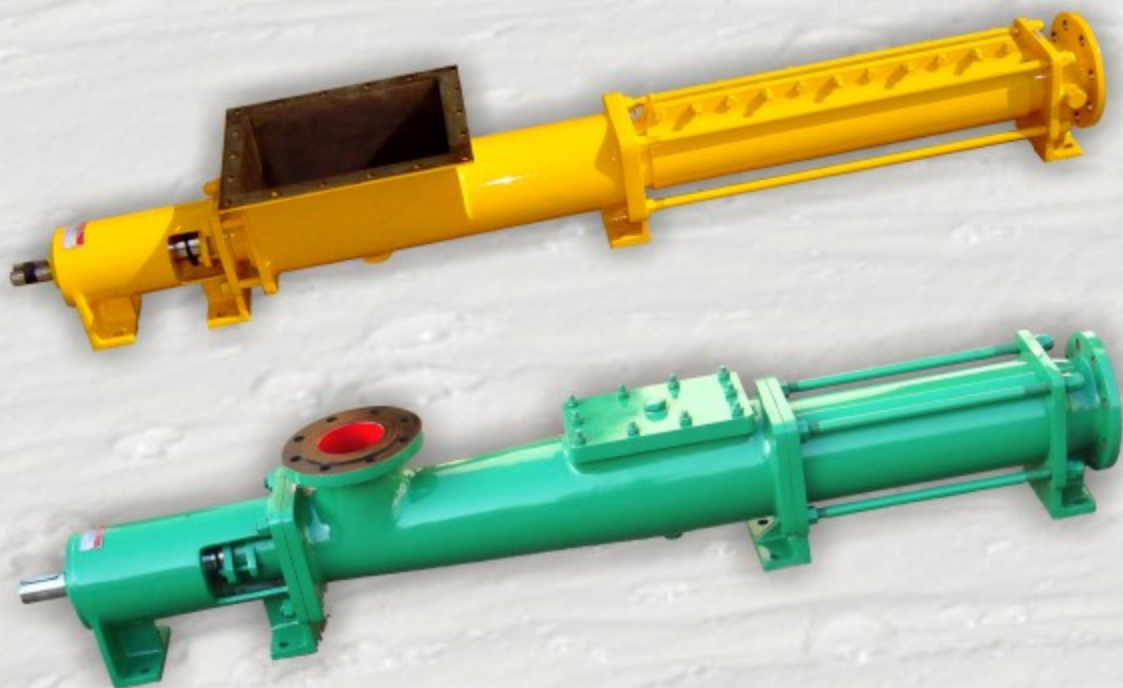


ROTOMAC™

HELICAL ROTOR SCREW PUMPS



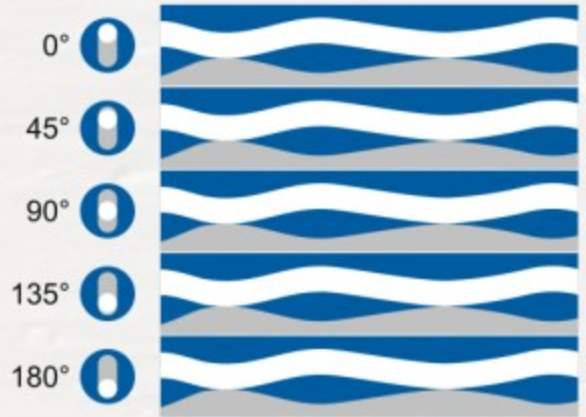
Grouting
Guniting
Injection
Plastering
Transfer

BUILDING AND CONSTRUCTION

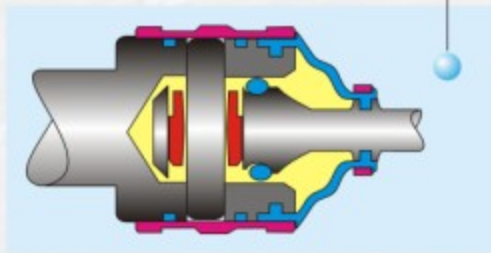
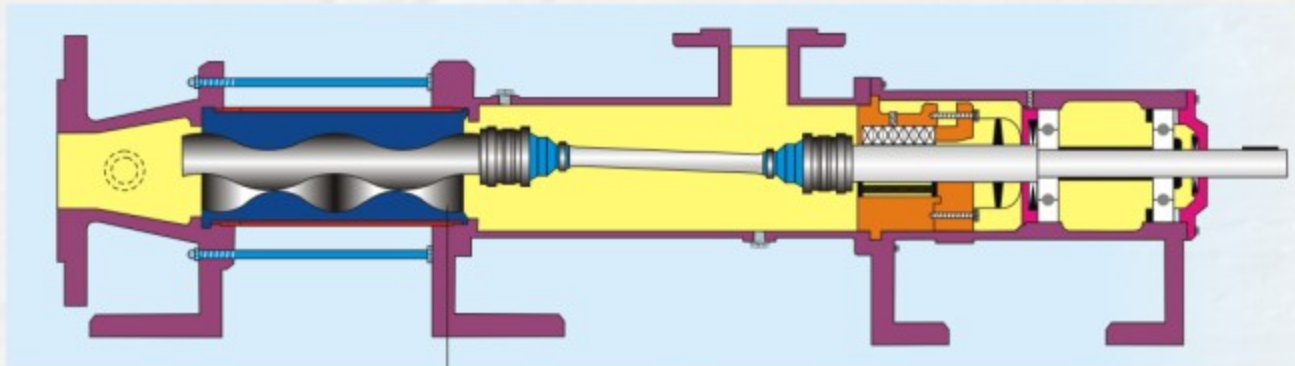
ROTOMAC™

PRINCIPLE

The main components which characterise the pump are a metallic single helical rotary part ROTOR and fixed double helical resilient polymer part STATOR in which the rotor turns and thereby a complex progressive sealing line (cspl) is maintained. Whilst the rotor rotates inside the stator, the cavities formed between them progresses from suction to discharge end, gently carrying the media.



Cavity Movement at Different Rotor Settings



UNIVERSAL JOINT

User friendly, completely sealed pin & bush joints for a longer service life.

DRIVE OPTIONS

- Electric Motor/Geared Motor
- Hydraulic
- Pneumatic
- Petrol & Diesel Engine
- Pulley & V-Belt
- Sprocket & Chain

MATERIAL OPTIONS

- | | |
|----------------|--|
| HOUSING | Cast Iron & Steel. |
| ROTOR | Nitrided Steel, Tool Steel, Hardened And Hard Chrome Plated. |
| SHAFT | Ni-Cr Hardened And Hard Chrome Plated. |
| STATOR | NR, NBR Soft Grade Wear Resistant. |

SHAFT SEALING

A wide variety of gland packed & mechanical seal options with API plan.

MEDIA HANDLED

Cement Slurry, Foam Concrete, Grout Mixture, Bentonite Dispersion, Mortar, Ready Mix Concrete, etc.

ADVANTAGES

| | |
|------------------------------|---|
| POSITIVE DISPLACEMENT | Progressing cavities deliver a uniform, metered and non-pulsating flow. The head developed is independent, and flow rate proportionate to the rotational speed. |
| SELF PRIMING | Can work on snore i.e., handles high percentage of air with liquid and do not require foot valves. |
| NON CLOGGING | Can handle solids in suspension or media containing high percentage of solids. |
| LOW INTERNAL VELOCITY | Minimum degradation of shear-sensitive media and can handle highly viscous pseudo-plastic materials. |
| LOW NPSH REQUIREMENT | Suction lift capability up to 9.5 MWC and effective even in high vacuum conditions. |
| REVERSIBLE | Suction and Delivery ends can be interchanged by merely changing the direction of rotation of the pump. |
| SILENT RUNNING | The rotor rotates inside a resilient stator, thus generation minimal noise. |

INTEGRAL SAFETY RELIEF VALVE (OPTIONAL)

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

DRY RUNNING PROTECTION (OPTIONAL)

The temperature between the rotor and the stator is permanently sensed thermoelectrically via a temperature sensor integrated in the stator and compared with the limit value set at the TSE control unit.

When the pump runs dry, the temperature will rise due to the increased friction between the rotor and the stator. When the set limit value has been reached, the TSE control unit switches off the pump drive and triggers a fault message to trip the motor.

ELECTRIC GROUT PUMP SYSTEMS

EG1



EG2

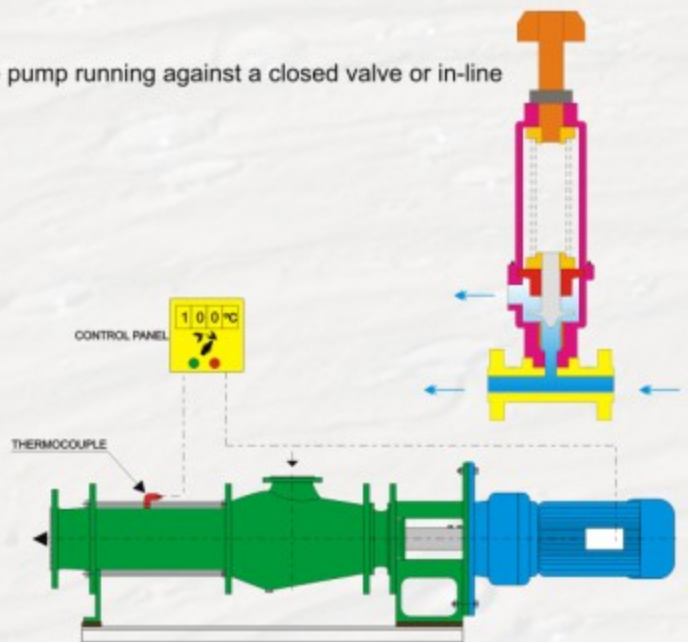


Note: These systems come in trolley mounted version for easy portability.

RANGE:

FLOW RATE Upto 50 LPM

PRESSURE HEADS Upto 24 bar



MODEL EG1

| SIZE | UNIT | 10610 | 10620 | 10630 | 10640 | 10650 |
|-----------------|------|-------|-------|-------|-------|-------|
| MAX. FLOW | LPM | 10 | 20 | 30 | 40 | 50 |
| MAX. PRESSURE | bar | 6 | 6 | 6 | 6 | 6 |
| PUMP POWER | HP | 2.0 | 3.0 | 5.0 | 7.5 | 10.0 |
| TWIN PREP. TANK | HP | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| TOTAL POWER | HP | 4.0 | 5.0 | 7.0 | 9.5 | |
| SIZE | UNIT | 11210 | 11220 | 11230 | 11240 | 11250 |
| MAX. FLOW | LPM | 10 | 20 | 30 | 40 | 50 |
| MAX. PRESSURE | bar | 12 | 12 | 12 | 12 | 12 |
| PUMP POWER | HP | 3.0 | 3.0 | 5.0 | 7.5 | 10.0 |
| TWIN PREP. TANK | HP | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| TOTAL POWER | HP | 5.0 | 5.0 | 7.0 | 9.5 | |
| SIZE | UNIT | 12410 | 12420 | 12430 | 12440 | 12450 |
| MAX. FLOW | LPM | 10 | 20 | 30 | 40 | 50 |
| MAX. PRESSURE | bar | 24 | 24 | 24 | 24 | 24 |
| PUMP POWER | HP | 3.0 | 5.0 | 7.5 | 10.0 | 15.0 |
| TWIN PREP. TANK | HP | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| TOTAL POWER | HP | 5.0 | 7.0 | 9.5 | 12.0 | 17.0 |

Note: For higher flow rates and pressure ranges contact factory assistance

MODEL EG2

| SIZE | UNIT | 20610 | 20620 | 20630 | 20640 | 20650 |
|---------------|------|-------|-------|-------|-------|-------|
| MAX. FLOW | LPM | 10 | 20 | 30 | 40 | 50 |
| MAX. PRESSURE | bar | 6 | 6 | 6 | 6 | 6 |
| PUMP POWER | HP | 2.0 | 3.0 | 5.0 | 7.5 | 10.0 |
| SIZE | UNIT | 21210 | 21220 | 21230 | 21240 | 21250 |
| MAX. FLOW | LPM | 10 | 20 | 30 | 40 | 50 |
| MAX. PRESSURE | bar | 12 | 12 | 12 | 12 | 12 |
| PUMP POWER | HP | 3.0 | 3.0 | 5.0 | 7.5 | 10.0 |
| SIZE | UNIT | 22410 | 22420 | 22430 | 22440 | 22450 |
| MAX. FLOW | LPM | 10 | 20 | 30 | 40 | 50 |
| MAX. PRESSURE | bar | 24 | 24 | 24 | 24 | 24 |
| PUMP POWER | HP | 3.0 | 5.0 | 7.5 | 10.0 | 15.0 |

Note: For higher flow rates and pressure ranges contact factory assistance

SPECIAL FEATURES

1. SINGLE DRUM MIXING ARRANGEMENT AVAILABLE FOR SMALL JOB.
2. EASY CLEANING SYSTEM

