

ROTA pumps SUMO pumps



→ ROTA and SUMO,
reference pumps
for massecuite

The most extensive product line on the market

- Massecuite flow rate: 15 to 120 m³/h
- Discharge pressure: 5 to 8 bar

A highly competitive equipment

- A well-tried robust design
- Manufacturing in series and best price

Excellent performances

- Optimal force-feed and high volumetric efficiency thanks to a low rotation speed (from 40 to 65 rpm) and a large inlet area (product suction speed lower than 0.2 m/s)
- Exceptional conservation of the integrity of the crystals handled: no breakage, no attrition
- Sealing ensured by mechanical seal

Simple maintenance

- Minimum wear
- No specific maintenance

For more than 50 years, Fives Cail Rota pumps have been handling all kinds of massecuite in cane and beet sugar factories as well as in refineries. They are also adapted for handling all viscous products (up to 10,000 Pa.s), whether loaded in crystals or not (up to more than 50% in crystals content).

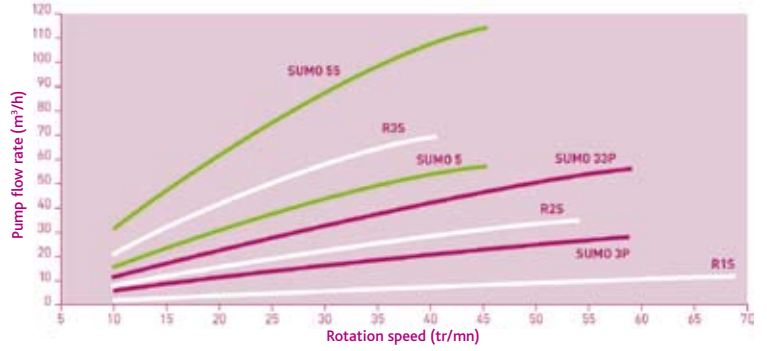
In order to build on the success of the ROTA series, which totals more than 1,000 references worldwide, a new generation of pumps has been added to the product line: the High Pressure and High Flow Rate SUMO series.



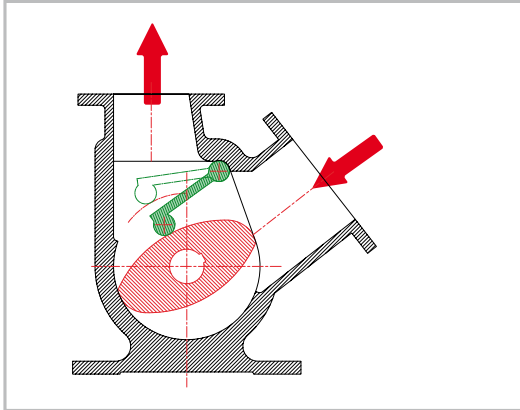
Rota R3S electro-pump group



SUMO pump



ROTA product line



A complete solution

- ⑤ Very simple design
- ⚙ Braided packing
- ⑤ Unbeatable prices
- ⑤ Easy maintenance

Several variants

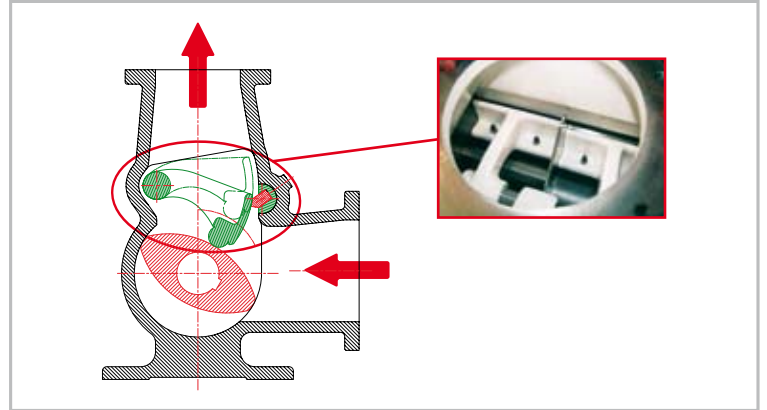
- ④ 3 flow-rate ranges: up to 15, 36 or 70 m³/h
- Drives on the left or on the right



ROTA R3S pump

- ⑤ Low operating cost
- Ease of use
- ⚙ Cleanliness / Hygiene
- ④ Yield / Productivity
- ⚙ Safety

SUMO product line



Numerous variants

- ⑤ ⚙ High pressure (8 bar) or High Flow Rate (120 m³/h)
- Single or twin rotor
- Drives on the left or on the right

Effective kinematics

- ④ ⚙ No shocks in piping
- ④ ⚙ Almost continuous flow (highly reduced pulsations)
- ④ Low head loss at discharge (hollow valve)
- No cavitation

Low rotation speed and wide inlet area

- ④ Excellent feeding and force-feeding of the pump
- ④ High volumetric efficiency
- ⑤ ⚙ Excellent mechanical performance
- ⑤ Low wear and tear of moving parts

Reversible feature

- Easy reversal of the massecuite flow by change of motor rotation

Simple and well-ried mechanical seal

- ⑤ ● Easy maintenance (no stuffing box)
- ⚙ No leaks
- Easy removal and re-installation