

# MechChem

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## Gruppo Aturia comes to Africa



APE Pumps: leaders in pump innovation

Gruppo Aturia



### This month:

Hydraulic systems advance drum reclaimer technology

The IIoT: Customers' views of advanced diagnostics

A visit to the Mad Giant microbrewery

SA vehicle specialist adopts the connected PLM solution

# 65 years of pump innovation

**A**PE Pumps and Mather+Platt South Africa have close to seven decades of experience in the Southern African market, with their comprehensive range complemented by key solutions from Gruppo Aturia, a fellow WPIL Limited group company acquired in 2015.

Since 2005, the Rotos Division of Gruppo Aturia has led an extensive research and development (R&D) programme specialising in the application, engineering and distribution of technically advanced, hermetically sealed, magnetic drive pumps. This R&D focus is grounded by more than 20 years of experience and extends from hydraulic ends to proprietary magnetic couplings. Rotos seal-less magnetic drive pumps are now available in 18 different designs with over 250 basic models.

"This vast pump range allows our engineering department to meet exact process requirements," comments Peter Robinson, managing director of APE Pumps and Mather+Platt South Africa. "These pumps comply with the latest standards, namely ISO 2858 for seal-less centrifugal magnetic drive pumps, and API 685 seal-less MDP pumps for the petroleum industry."

Gruppo Aturia represents the integration of five famous brands. Alongside Rotos, Aturia has a leading reputation for submersible pumps; the Marelli brand covers all industry sectors; while the Audoli & Bertola and Aris Chiappa ranges target the vertical pump segment.

Products are divided into four lines: the Blue Line for submersible pumps with semi-axial and radial hydraulics; the Green Line for close coupled pumps, in-line, single-stage DIN 24255, multi-stage, split-case and vertical pumps; the Yellow Line of ISO 2858-5199 compliant pumps for the chemical industry, API 610 process pumps, magnetic drive seal-less pumps, and API 685 pumps;

and the Red Line for firefighting systems.

## Product range

Rotos is one of the mainstream solutions for the transfer of fluids with corrosive, acidic, or inflammable properties. The product range comprises:

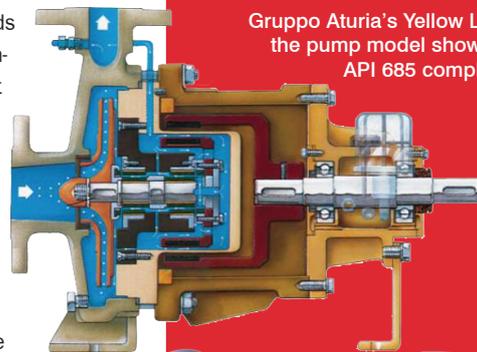
- STM seal-less regenerative turbine magnetic drive alloy pumps
- PTM seal-less regenerative turbine magnetic drive non-metallic pumps
- SVM seal-less rotary vane magnetic drive alloy pumps
- PCM seal-less centrifugal magnetic drive non-metallic pumps
- SDM seal-less centrifugal magnetic drive alloy pumps.

"Since magnets are the main driving force, this obviates the need for shaft sealing interventions, such as gland packing or mechanical seals. That's because the design negates the need for a shaft extension from the pump casing," explains Richard Harper, project manager at APE Pumps.

"Therefore, there's minimal risk of leakage in terms of fluid and vapour emissions. That's especially important where chemicals, acids and corrosive liquids are factors. Maintenance interventions also tend to be far lower when compared to mechanical seal pumps. However, it's important to understand that their roles are very different. Mechanical



Gruppo Aturia's Yellow Line: the pump model shown is API 685 compliant



An example from Rotos' SVM series of seal-less rotary vane magnetic drive alloy pumps

drives are designed to cope with solids in suspension, while magnetic drive pumps are not. Magnetic drives are purpose built for clean fluids transfer, and that's where they really excel." **35**

**Mather+Platt**

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

## APE product milestones since 1952

**1952** APE Pumps enters the market under the name Sangus  
**1953** Sangus range of submersible pumps  
**1965** APE split-case range from 50 mm to 450 mm  
**1970** APE Nimbus end suction 80 mm to 300 mm range  
**1974** APE range of end suction pumps from 32 mm to 150 mm  
**1977** Introduction of the Byron Jackson petrochemical range  
**1979** APE vertical turbine range of pumps from 150 mm to 1 100 mm  
**1980** APE submersible range of dewatering pumps

**1983** APE Robushi chemical process pumps  
**1985** APE Vac Seal range of pumps  
**1997** Introduction of the new range of APE submersible pumps from 100 mm to 250 mm  
**2002** APE Byron Jackson range of petrochemical pumps, 8th Edition  
**2007** PSV Holdings acquires pump division  
**2012** WPIL India acquires APE and Mather+Platt South Africa  
**2015** APE Pumps company group acquires Gruppo Aturia