

# CSY Pumps

## SAMengineering

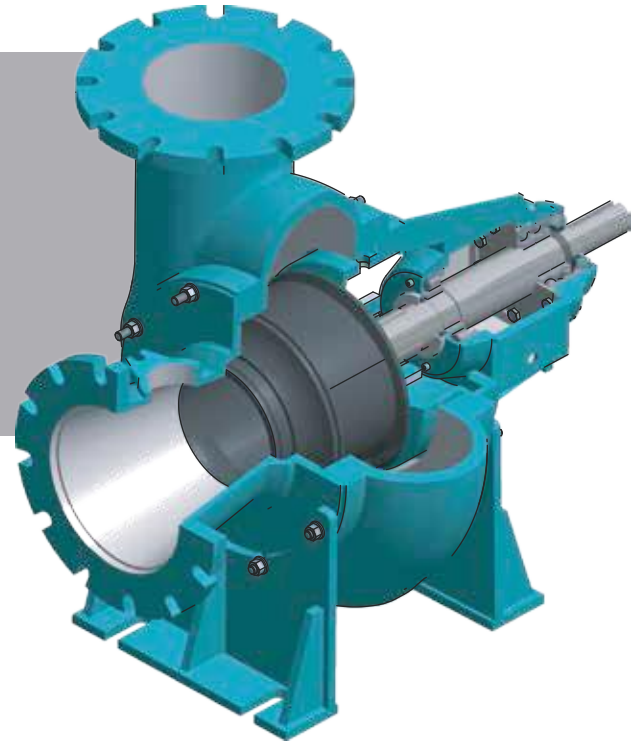
Customised Pump Solutions



SAM Engineering (Pty) Ltd.  
24 Duncan Road, Lilianton,  
Boksburg, South Africa  
Tel: +27 (011) 823-4250  
Fax: +27 (011) 823-4943  
Email: [pumps@sameng.co.za](mailto:pumps@sameng.co.za)  
[www.sameng.co.za](http://www.sameng.co.za)

## SAMCO Chemical Process Pumps

*CSY pumps are designed to handle wastewater and other corrosive and non-corrosive liquids with soft solids in suspension. The typical applications of these pumps include municipal water and wastewater, industrial wastewater treatment and food processing.*



### CSY TYPE PUMPS: ADVANTAGES OF MODEL DESIGN

**STANDARDISED DESIGN:** Maximum interchangeability of parts helps reduce spare parts inventory. All parts except the casing suction cover and impeller are completely interchangeable within a given frame group. Seven pump sizes are built on four power frames.

**BACK PULL-OUT DESIGN:** The complete rotating element can be removed from the pump without disturbing the suction or discharge piping. Fewer crafts are required to service the pump.

**TAPERED SHAFT:** The impeller and shaft are designed with a taper to allow for ease of maintenance and great reliability.

**IMPELLER NUT:** A well-contoured nut is provided which helps to prevent material from hanging up. A set-screw locks the nut in place.

**FLEXIBILITY:** The discharge nozzle can be arranged in any one of five positions for either clockwise or counter-clockwise rotation to suit the piping arrangement.

**ENGINEERED FOR DEPENDABILITY:** The two-vane, non-clog impellers with smooth flow passages are capable of passing large soft solids.

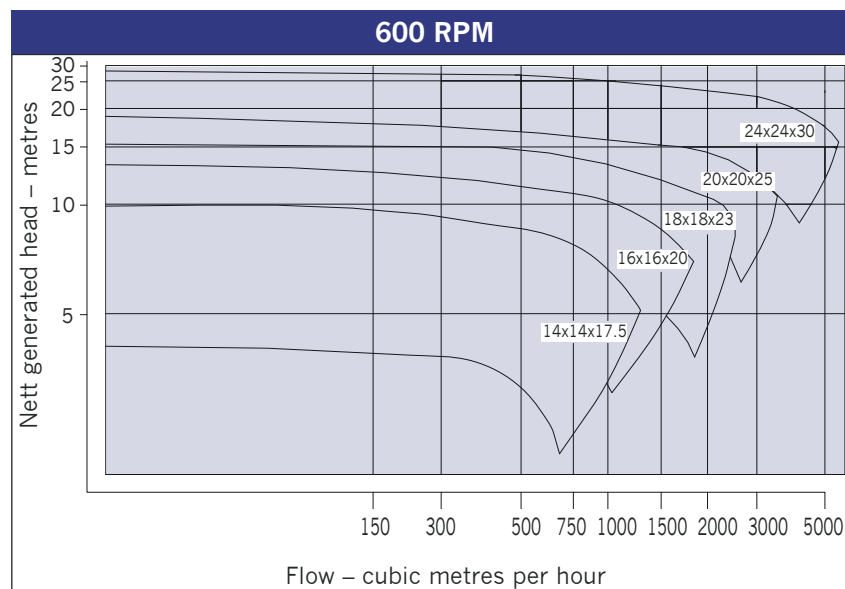
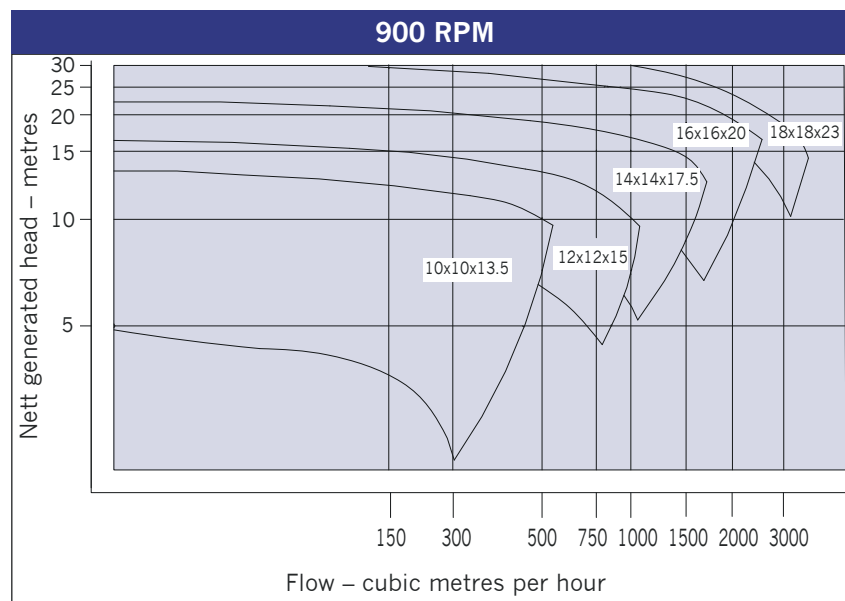
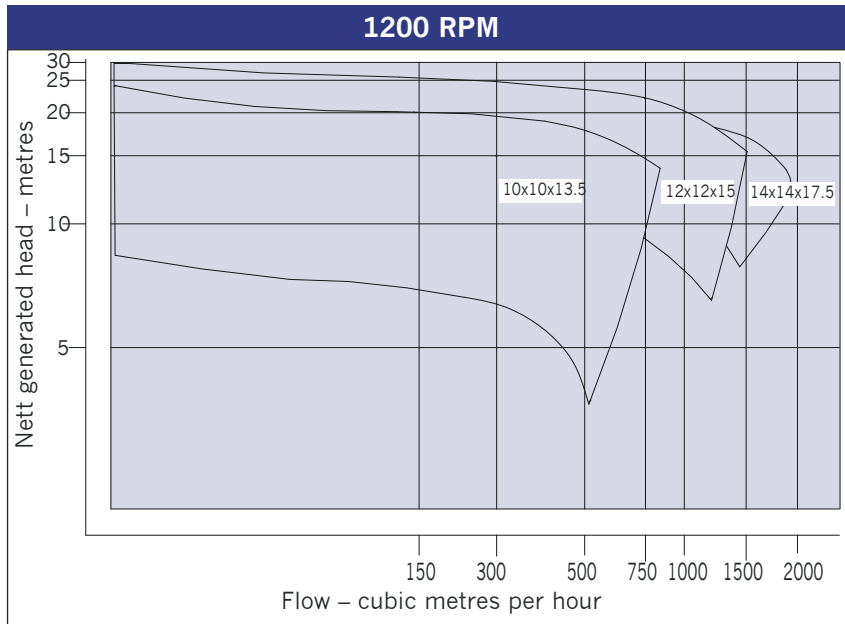
**MAXIMUM SHAFT AND BEARING LIFE:** Large diameter shafts minimise deflection and increase packing life.

- Bearings are selected in accordance with the Anti-Friction Bearing Manufacturers Association (AFBMA) to provide for maximum life expectancy.

**SIMPLE IMPELLER ADJUSTMENT:** The axial clearance between the impeller and suction cover is controlled by adding or removing shims between the outboard bearing cartridge and the frame.

**HIGH OPERATING EFFICIENCY:** Replaceable alloy impeller wear rings and suction cover wear plates are optional.

# Horizontal-Mixed Flow Type CSY | Range Charts





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