

FXG

DUPLEX DOUBLE ACTING
RECIPROCATING PISTON PUMP

MOBILE | SIMPLE MAINTENANCE | CUSTOMISED SOLUTIONS

The Scamont FXG is a versatile slurry pump that has a wide universe of applications by virtue of its compact design and low power requirements, whilst still delivering impressive flow rates over a range of pressure duties.

UNIQUE DESIGN FEATURES

- Robust design with fabricated steel frame allowing for refurbishment
- Clear water or slurry service with solids up to 8mm in size
- Low rpm
- Simple maintenance
- Mobility on a skid
- From 3.42 l/sec at 580m vertical head to 9.84 l/sec at 200m vertical head or similar pressures
- Different materials of construction available in order to deal with a multitude of corrosive forces
- Electric or diesel motor driven
- Customised solutions available
- Proudly manufactured in South Africa

APPLICATIONS

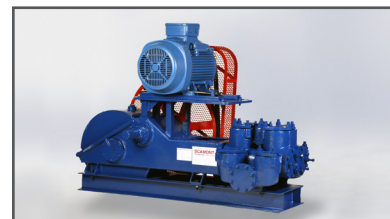
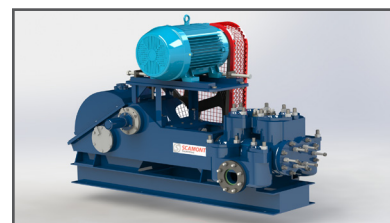
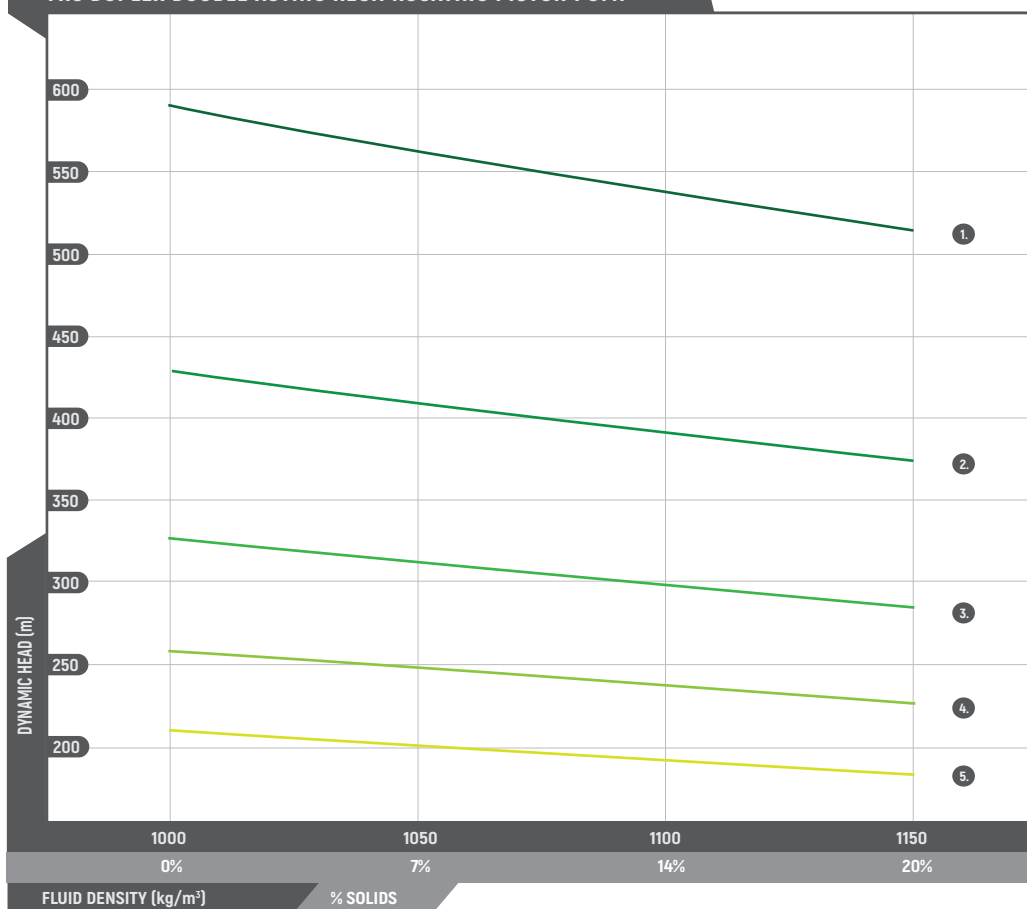
- Underground and Surface Mining Operations
- High pressure jetting or hosing
- Mud Drilling
- Horizontal and vertical transfer
- Shaft bottom de-watering
- Stage mounting during shaft sinking
- Backfill pumping
- Grout plants
- Agriculture

DYNAMIC | POWER | MOTION

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1.	3" Piston	3.42 l/s Flow
2.	3 1/2" Piston	4.72 l/s Flow
3.	4" Piston	6.23 l/s Flow
4.	4 1/2" Piston	7.89 l/s Flow
5.	5" Piston	9.84 l/s Flow

The curves shown were calculated assuming a 90% mechanical efficiency and a 100% volumetric efficiency. The pressures were calculated using a 110kW prime mover.

*Note: Pipe friction losses can greatly effect the pressure requirement of a pump. Scamont representatives will gladly assist with any dynamic head calculations.

RECOMMENDED MOTOR SIZE: 30kW

Larger motors can be installed however maximum pressure cannot be exceeded

MAX RECOMMENDED PRESSURE: 6.3MPa

RECOMMENDED CRANK SPEED: 80 rpm

Speeds can be altered by changing the pulleys. Greater speeds result in greater flow which requires more power. Contact a Scamont representative before attempting to change flow rates.

NET POSITIVE SUCTION HEAD REQUIRED (NPSHr): 1m

This is measured from the fluid surface level to the centre line of the pump. Suction lines longer than 6m will result in a greater NPSHR. Please contact a Scamont representative to assist. Negative suction heads are possible when pump is properly primed, contact Scamont representative for assistance.

MAX PARTICLE SIZE: 8mm

Use a mesh screen to remove any particle which is larger than 8mm. This mesh must be cleaned regularly to avoid suction problems.

PUMP WEIGHT: 1500kg

This is complete with motor and base frame. Pump without motor and base frame weighs 1150kg

PUMP ACCESSORIES

Scamont offers a full range of accessories for the FXG pump. This includes and is not limited to:

- Non Return Valves (Installed in order to limit slip flow on discharge valve)
- Shear Relief Valves (necessary in every installation to limit max. pressure)
- Plug Valves (used at start-up to obtain operating speed with load)
- Accumulators and Air-chambers (used to obtain steady flow in discharge line)
- Valve Seat Pullers (used to remove valve seats)
- Starter Panel (Designed to be used with the FXG pump, details obtainable from Scamont representative)

MATERIALS OF CONSTRUCTION

Scamont Engineering can alter the materials of construction for any application including mud and acid water

* The five different sized pistons are interchangeable to provide for varying capacities and pressures.

** Data subject to change as required