



Svedala Tube Press Test



High Pressure Filtration Laboratory and Plant Testwork

Laboratory Filtration Testwork

A slurry sample's filtration characteristics are evaluated by the Svedala Piston Press. This device is a standard laboratory scale filter capable of filtering slurries at pressures of up to 180 bar. On completion of the test, a report plus a small filter cake and filtrate sample will be returned to the customer for inspection.

Sample Requirements

In order to carry out slurry evaluation, a sample should be forwarded to the Svedala Laboratory at Charlestown, UK or Sala, Sweden. This sample should be 2 to 5 litres and should contain a significant solids content, at least 15% wt/wt. Obviously the sample should be as representative as possible of the production feed.

It is essential that any sample provided for testwork is accompanied by details of its Safe Handling Requirements. Such information is now a legal requirement and failure to provide it will result in testwork being refused. If in doubt, the laboratory undertaking the tests will provide details of what is required under these regulations.

All samples provided, must be packed in appropriate containers and adequately marked with:

- Origin of sample
- Description of sample
- Details of sender
- Test or project reference
- Details of specific tests required
- As much physical/chemical data as possible.

Generally laboratory testwork is provided free of charge, detailed or large scale trials may be charged on an agreed basis.

On completion of the testwork all samples & containers may be returned to the customer.

- The performance will be full size eliminating possible scale-up problems



Mobile Pilot Plant



Piston Press

Site Testwork

Globally Metso have several mobile Pilot Plant test units for undertaking on-site trials to evaluate filtration characteristics.

Each rig is essentially a fully operational single Tube Press plant, based around either a 500-series or 200-series Tube press unit.

The undertaking of on-site trials is recommended for the following reasons:

- The trial will cover production variations
- The client will be able to gain “hands-on” experience
- A reasonable volume of cake can be produced for client evaluation.
- Air purge or water wash evaluation

Each Trials Rig consists of the Tube Press unit and its support structure, together with skid-mounted pallet containing the functional services required for operation. The control system on each rig will allow for automatic and manual operation.

Metso will provide dedicated personnel for equipment installation, testwork and training. Costs are based on equipment hire period.

SC500 Mobile Pilot Plant Details

	Weight	Approx Dimensions (overall)
Tube Press Unit	1750kgs	2.4m x 0.7m
Support Raft	1080kgs	2.0m x 2.0m x 3.2m
Pump Pallet	1902kgs	2.8m x 1.9m x 1.6m
Control Pallet	1306kgs	2.8m x 1.6m x 1.6m

Motors

HP Pump	22kW
LP/Vacuum Pump	5.5kW
Slurry Pump	5.5kW
Water Wash Pump	5.5kW
Oil Hydraulic Power Pack	7.5kW
Air Compressor	5.5kW

Site Requirements

Power Supply	380-415v, 3ph, 45kW/hour, 157 amp
Crane	5.0m Lift height, 2 tonne lift
Slurry feed	Agitated tank with 0.5mm screen



Mobile Plant Unit

Svedala Tube Press Test

Our range: **Flotation Machines**
Reactor Cell Systems
DR Flotation Machines
Classifiers
Spiral Classifiers
Agitators
Mixers

Magnetic Separators
Low Intensity Magnetic
Separators
High Gradient Magnetic
Separators

Sedimentation Equipment
Inclined Plate Settlers
Thickeners & Clarifiers
Spiral Dewaterers

Filtration Equipment **Thermal Equipment**
Vertical Plate Pressure Holo-Flite® Processors
Filters
Tube Presses

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