

# Metso

Tube press

## High pressure filtration laboratory and plant test work



### Laboratory test work

The Metso Piston press is a laboratory filter, capable of filtering slurries at pressures up to 100 bar. With the Metso Piston press the filtration characteristics under high pressure can be evaluated.

### Tube press pilot

With the Tube press pilot unit, full scale tests can be done to evaluate the effect of pressure and air drying on residual moisture. By using mechanical high pressure even strong capillary forces can be overcome. The additional use of air blow, where air is forced through the filter cake by hydraulic pressure, will further reduce the filter cake residual content.

### Site test pilot equipment

The pilot container is a mobile, fully automated pilot plant designed to evaluate Tube press filtration characteristics at your site. It includes a complete pilot plant with a Tube press filter, necessary auxiliary equipment, and control system. The container also features a small laboratory equipped with a Piston press and tools for preliminary tests.

With the pilot unit process simulations can be run for all operating parameters required for full-size plant dimensioning, including cloth selection, cake washing and air-purge. The Tube press installed in the container is a production size Tube press, thus eliminating any scale up factors and providing a direct view on the operation and performance of a full-scale Tube press plant.

To support your testing and filtration development, Metso operates a unique Dewatering Technology Center in Lappeenranta, Finland, where more than 14,000 filtration tests have been conducted.





Main data	
Weight	14 000 kg
Dimensions	Standard 20' container
Power Supply	380-480V (approx. 25 kW)
Typical amount of sample required	
Type of test	Amount
Piston press test	5 l
Pilot container test	1 m <sup>3</sup>

**Tube press pilot container includes:**

- Tube press filter
- PLC system including graphic HMI display
- Filtrate weight monitoring system
- Slurry feed temp monitoring system
- Cake weight and volume monitoring system
- On board laboratory including Piston press

Read more at [metso.com/portfolio/tube-press-filter](https://metso.com/portfolio/tube-press-filter)