



For reliable flotation and attritioning laboratory test work

D12 Laboratory flotation machine

The D12 Denver laboratory flotation machine enables both rougher flotation tests, cleaning and re-cleaning to be carried out using one basic machine. The machine has been locally manufactured and sold in South Africa for over 25 years.

Description

The D12 consists of a base, pedestal, rack and pinion lift, motor, mechanism and drives. The unit is also supplied with four different tank sizes, namely 2000g, 1000g, 500g and 250g. Two sized sets of impellers and diffusers are included.

Optional

Also optional is an attrition scrubbing kit with tank for high density batch scrubbing tests and agitator propeller.

Clear sight ports on the side of the tanks are also available.

What's new?

Previously, the operator relied on a tachometer, as well as a set of adjustable spring-loaded vee pulleys to regulate the speed. Metso has now installed a variable speed drive (VSD) with 1 to 1 vee pulleys. The speed readout is digital and is controlled with a rotational knob.

Operation

Flexibility of operation is the key feature of the Denver D12 laboratory flotation machine. Tests can range from 250 to 2,000 grams.

This all-purpose unit incorporates the same principle of operation as previously well-proven Denver laboratory flotation machines. Results from batch tests can be readily duplicated in commercial flotation applications. The model D12 system includes 25-, 500-, 1000- and 2000g stainless steel tanks. Two sizes of impellers and diffusers, complete with transparent recirculation collars, ensure flexibility.

The large impeller is employed for large batches, i.e. rougher flotation, while the smaller tanks can be used for cleaning and re-cleaning.

The D12 draws its own air and consequently an external air supply is not required for most operations. However, there is provision for connecting a pressurised air supply when necessary.

Special features

Electronic VSD Drive.
Adjustable aeration control.
Tanks are removable and easily cleaned.
Positive speed regulation is standard.

Construction details

Cast-iron base with rubber base mat, aluminium supporting column and arm, and drive guard.

Wet parts are corrosion and abrasion resistant.

Motor with electronic variable speed drive.

Conversions

If your laboratory is equipped with a tachometer, conversion to the D12 can be carried out simply by purchasing the conversion kit.

Machine dimensions

L mm	W mm	H mm	Approx Weight kg
750	430	1160	50.5