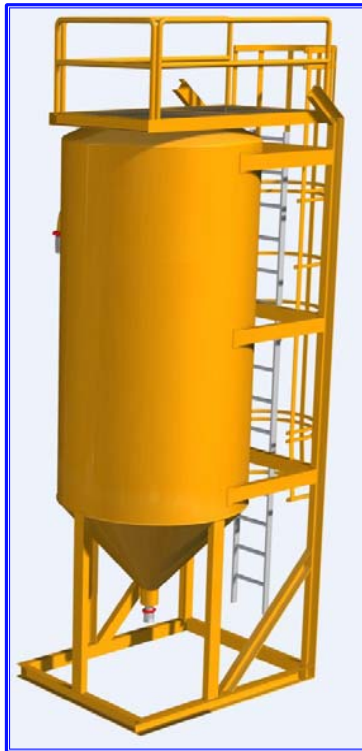


ITE Vertical Clarifier VC2500

Product specifications

The VC2500 vertical clarifier serves as static thickener of pre-cleaned suspensions and accelerates the sedimentation of solids on account of its design.



Functioning

Due to the application of flocculant aids the fine particles of the supplied solid-liquid mixture coagulate and result in macroflakes which settle in the tapered section of the VC2500. The liquid separated in the process moves upward into upper section of the tank from where it flows back into the slurry circuit of the processing after passing a rim. The concentrated sediment slurry is removed via an outlet on the bottom of the VC2500 and can then be fed via a pump into a centrifuge for dewatering.

In conjunction with an ITE flocculation unit – AutoFlock 3000 or MiniFlock – and an ITE centrifuge – ZR15046 or ZR18553 – the VC2500 represents an efficient and innovative stage for separating grain fractions < 45 microns.

Properties and equipment

- Slurry thickening and slurry volume reduction
- Enhanced efficiency of downstream decanter centrifuges by feeding a higher solids concentration
- Requires less maintenance due to natural sedimentation process
- Mounting brackets for anchoring the vertical clarifier in reinforced ground and protecting it against wind loads
- Permanently installed ladder and equipment supplied for ensuring safe ladder ascent and descent
- Two vibration motors mounted outside the tapered section of the tank for loosening the sludge and preventing the outlet from clogging



Transport dimensions

- Length: 2660 mm
- Width: 2400 mm
- Height: 9380 mm
- Diameter: 2500 mm
- Weight (net): approx. 7000 kg

Technical specifications

- **Capacity**
 - approx. 27 m³
- **Flow rate**
 - Max. 160 m³/h
- **Vibration motors**
 - Quantity: 2 pcs.
 - Power supply: 2 x 0.75 kW = 1.5 kW
- **Pump**
 - Type: 4x3x13 centrifugal pump
 - Power supply: 22 kW
 - Speed (fixed): 1450 rpm
- **Additional components**
 - ITE ZR15046 and ITE ZR18553 centrifuges
 - AutoFlock 3000 and MiniFlock flocculation units

