



SOTRES Group offers tailor-made solutions for the treatment and washing of various sands : natural, crushed, glass, foundry etc.

PURPOSE

Producing sands in accordance with customer expectations and effective standards while optimizing energy and water savings.
The basis of sand treatment and washing is **liquid / solid** separation by cycloning and dewatering.

SOLUTION

To do this, **SOTRES Group** uses different processes :

- The elimination of extra fine particles (essentially clays or fillers) smaller than 63 μm .
- Grading curves management (Classification – Washing).



- **Hydrocyclones** with diameters ranging from **176 to 1000 mm (7" to 40")**, to perform liquid / solid cuts between 15 and 80 microns.
- **2 sizes of vibrating sieving panels** make it possible to obtain different higher cuts under water.
- Wide range of **vibrating dewaterers**, ensuring a washing up to **300 t/h of sand**.
- **Hydroseparators** : to eliminate some fines particles by overflow.
- **Customized access and frame** according to customer requirements and adapted to the health and safety rules.

COMPLEMENTARY PROCESS EQUIPMENTS

- ▶ **Attrition Cells units (shaped in 2 or 4 cells of 500 l / 750 l / 1000 l) :**
Friction allows mechanical separation of polluted particles from sand.



- ▶ **Air rotating vacuum dewaterer** allows sand dewatering with less than 6 % moisture (mainly used on industrial sand plants).



STRONG ASSETS

- Elements pre-assembled in the workshop.
- Fully modular and customizable groups according to customer requirements.
- Groups adapted to the constraints of the materials to be treated and the site.
- Sand Redialing (curve correction) automatically or manually.
- Tough construction with abrasion resistant design of wearing parts.



Single stage sand treatment unit.



Sand treatment unit with redialing sand and grading cut.