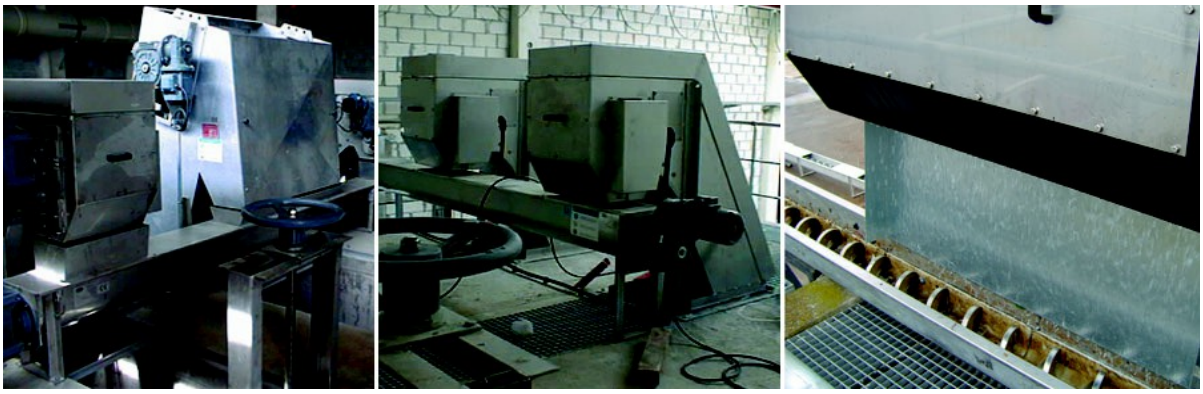
FILTRAMASSA

Especialistas en mecánica de fluidos

Screw Conveyors TT and TP



INTRODUCTION:

In all wastewater treatment plants, treatment plants, pumping stations, etc., a grinding process is carried out to generate waste. The amount of waste roughened will depend directly on the clearance of the equipment used for this function and on the dimensions of the transport manifolds.

The dry matter content of roughing residues in urban water is between 10-25%, depending on the sieving process, and the organic content can be up to 90%. The transport system, by means of a screw conveyor-compactor of waste TP, is a clean and efficient method for the evacuation of solids coming from fine grinding (screens and sieves), replacing the conventional conveyor belts for their cleaning, less height required and their capacity to drain the waste before it is unloaded into the container.

DESCRIPTION:

The operation of this equipment is very simple. The drive gear motor performs a rotating action on the conveyor propeller, which slides on the sliding sleeve and involves a forward movement of the solids that have penetrated into the screw press. The water drained in the pressure jacket is channelled to an outlet pipe installed for this purpose. The conveyor propeller deposits the solids inside the filter jacket, where the pressing action is carried out. The pressure control is carried out by means of a mechanical system that controls the opening of a flap, before discharging into a container.

Its design is based on the rotation of a worm screw without shaft. This shaftless spiral has a higher conveying capacity as it is less sensitive to fibrous matter, which tends to agglomerate and can thus transport waste with a wide range of granulometry. The screw can be operated by "pulling" or "pushing".

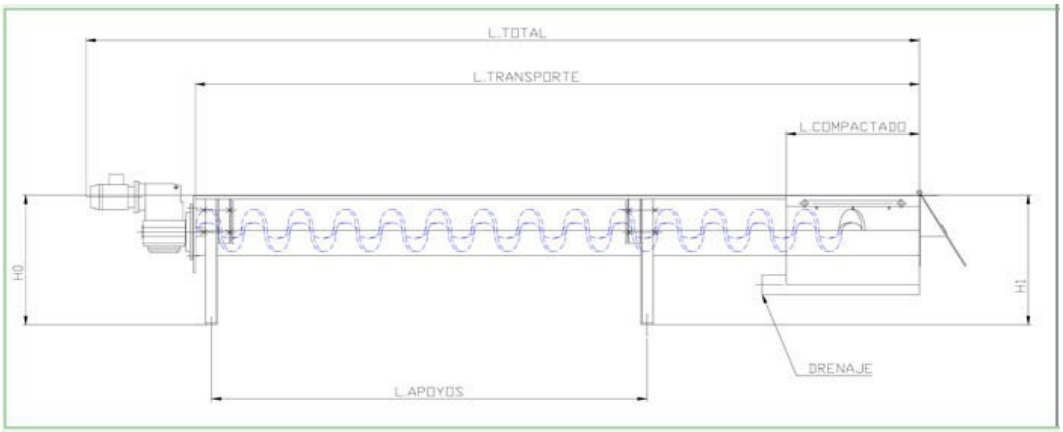
Optionally, the body can be fitted with a draining box at the bottom of the rear, under a section of gutter in which perforated sheet metal is installed. This perforated plate is cleaned by the

propeller using an auxiliary brush mounted on the edge of the screw. This configuration is especially recommended for inclined screws.

The body, legs and clamping head are made of stainless steel. The sliding cradle is manufactured with high density polyethylene sheet... The propeller is cold formed from plates. It is usually manufactured in high resistance carbon steel ST-52, being feasible the supply in AISI-304 or AISI-316L. Our teams have the following **FEATURES**:

- Sizing of the equipment according to the characteristics of each installation.
- Cradles made with different sections: circular or half round.
- Transport of the roughing residue.
- **Compaction reduces the volume of waste to be managed and also reduces operating costs.**

GENERAL DIMENSIONS:



EQUIPOS ESTÁNDAR

Transporte:	DN (mm)	Q (m3/h)
TT 20	200	2,5
TT25	250	4
TT30	300	6
Transporte + compactado		
TP 20	200	1,5
TP 25	250	3
TP 30	300	4,5