

Jacopa™ Screw Compactor

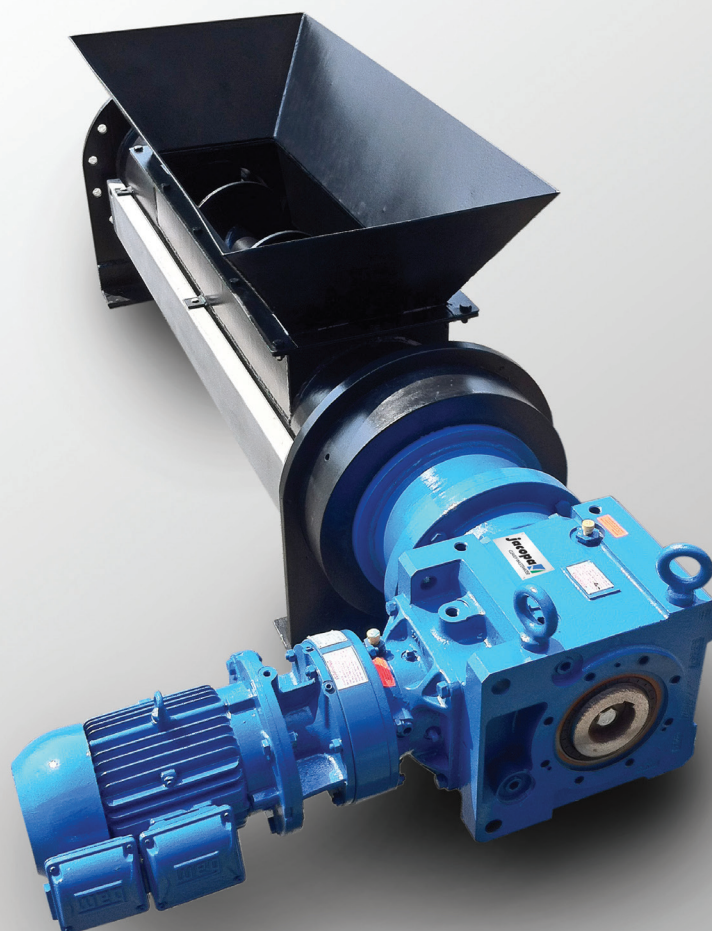


Key Features:

- 9mm mild steel trough construction
- 6mm tapered holes for drainage
- Flanged opening for retrofit laundry hopper
- Five standard sizes
- 25 year design life

Key Benefits:

- Can receive flows from water fed or dry launders
- Good quality 'plug' (with operational screenings washing)
- Minimal operational intervention
- Low operating costs



Jacopa™ Screw Compactor

Based on the proven original Jones + Attwood™ design:

Incorporating the original Jones + Attwood™ features for unrivalled reliability and robustness, the Jacopa™ screw compactor has been innovatively designed to meet today's growing preference for simple, low maintenance equipment.

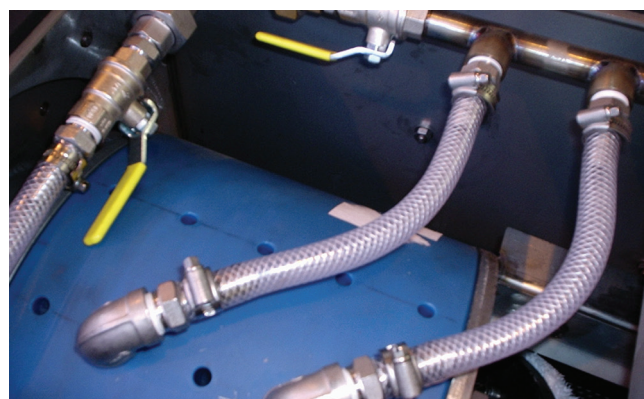
A suitable retrofit for most OEM screening compactors, the Jacopa™ screw compactor features 6mm tapered holes for improved drainage which enables it to receive feed directly from screens, conveyors and the higher water volume launder flow from installations that previously required screenings to be washed.

Designed with 9mm thick, mild steel, drainage trough for extra ruggedness, the Jacopa™ screw compactor retains the original thick mild steel of its predecessor (first developed in 1986 by Jones + Attwood™) and is suitable for dewatering and compacting screenings from inlet or sludge screens.



Screening Inlet:

- The standard screw compactor flanged inlet opening allows greater onsite flexibility to accommodate site conditions and launder flows.
- The inlet hopper can be designed to fit existing installations.
- 6mm tapered holes allow flows to easily pass through the trough and have a greater resistance to blinding.
- Available in a range of sizes from 150mm to 500mm diameter, the largest machine can process up to 9.5m³/hour of screenings.



Process and Applications:

During the 90's, the demand for compacting screenings, only, was slowly overtaken by the need for washing screenings to reduce odours, and to meet emerging landfill regulations for 'washed' screenings. However, the way waste screenings are managed today has changed.

For some utilities, there is a growing preference to reuse the screenings, unwashed for composting – the high organically loaded screenings encourage the composting process and subsequent conversion of waste to energy.

As a result of the evolution of the compactor to wash screenings, water powered launders and channels were designed to convey screenings to compactors, which can be situated a short distance from the inlet screen. As a consequence, the new screw compactor has been designed to receive (higher water volume) launder flow from these types of installations making it a suitable retrofit for most OEM screening compactors.

Our standard screw compactor is supplied without a washing system; however, optional jet washing can be fitted if required, to reduce the organic loading of the plug.

Where TOTEX* is a key driver (i.e. low maintenance, robust operation, requiring minimal replacement parts) and where washing is not a prerequisite, the Jacopa™ screw compactor is a proven, reliable option.

* Total Expenditure

Jacopa™ Screw Compactor



Key Components



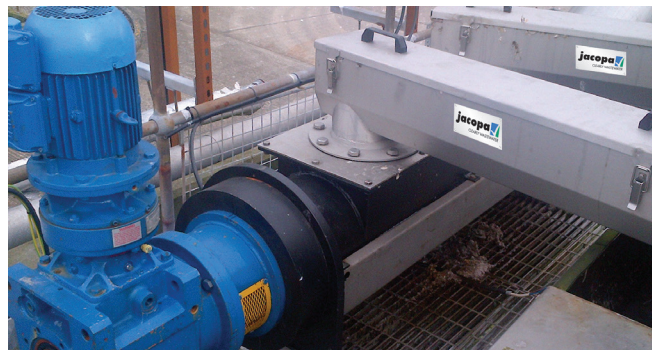
The 9mm thick perforated mild steel trough incorporates 6mm diameter, tapered holes for efficient fluid discharge.



Discharge chute can be designed to suit existing installations.



Good quality plug (image is results from pumped flow).



Flanged opening to accommodate an existing launder channel

| Technical Data: | Size 150 | Size 200 | Size 300 | Size 400 | Size 500 |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|
| Compactor Motor Rating (kW) | 1.10 | 1.50 | 3.00 | 5.50 | 7.50 |
| Compactor Screw Diameter (mm) | 150 | 200 | 300 | 400 | 500 |
| Maximum Launder Flow (l/s) | 1.50 | 3.00 | 5.00 | 6.50 | 8.00 |
| Outlet Chute Diameter (mm) | 250 | 300 | 400 | 500 | 600 |
| Max Screenings Loading Capacity (m3/hr) | 0.50 | 1.25 | 3.00 | 6.00 | 9.50 |
| Rinse Water System Flow Rate (l/s) @ 2 bar* | 0.16 | 0.16 | 0.24 | 1.00 | 1.00 |

*Jet washing is offered as an option.

Operational Benefits



Operational Benefits:

- Low maintenance.
- Long life expectancy.
- Low energy.
- Reliability.



Improving on the design of our original Jones + Attwood™ screw compactor (shown in the medallion above), the Jacopa™ Screw Compactor now replaces its predecessor on new screening projects.

Copyright © 2015 Jacopa. All rights reserved.