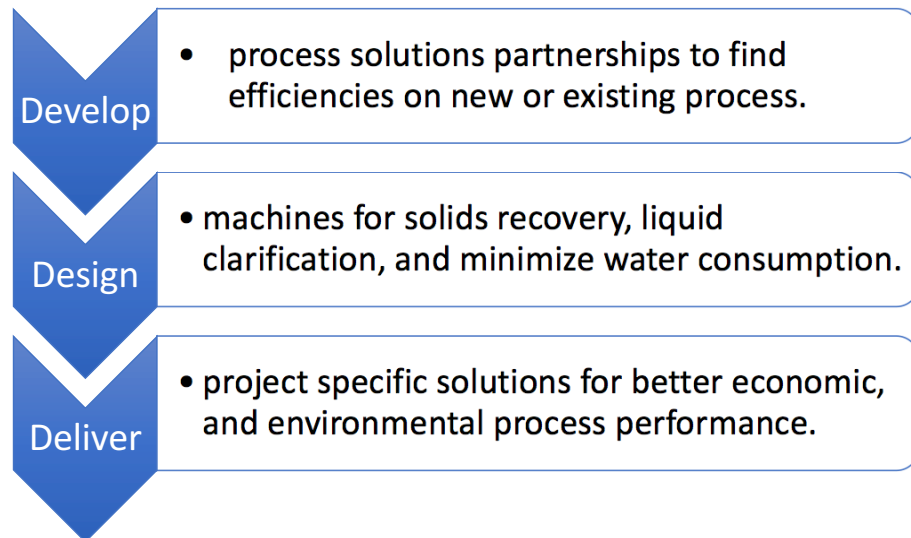


Industrial and Municipal Process Equipment Packages



Doc# TWISTER-1704-R02

TWISTER

Depackager & Separator

Capacity up to 10t/h 22,000 lbs/h

MANUFACTURE

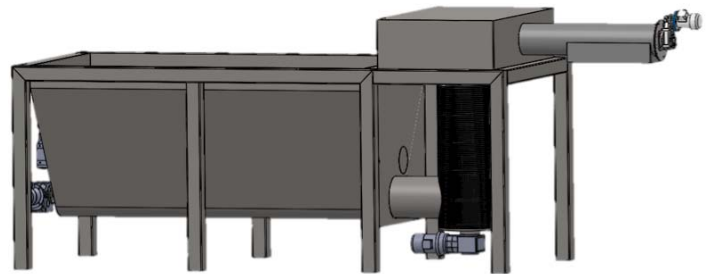
DRYCAKE's technical department is able to develop all the required design activities from feasibility to as-built. Process Validation can be validated using our lab or on-site pilot services.

Our equipment is manufactured in high quality Stainless Steel , and is fully customizable according to project requirements and needs.

The production team is composed by assemblers and certified welders, experts in TIG (Tungsten Inert Gas) welding, a process of arc welding with consumable electrode (Tungsten), under protection of inert gas. After the welding processes, the Stainless Steel is passivated by our operators.

Quality control during the entire design process guarantees the compliance with Customer's technical requirements, good manufacturing practices and compliance with UL and CSA, ASMI, ANSI Standards and certifications.

All equipment is subject to 3rd party witnessed factory acceptance test prior to shipment.



OPERATION

The **TWISTER** unit allows to separate packaging from food or other organic material. This unit is the perfect equipment to preprocess packaged food waste to create a clean feedstock for wet/dry anaerobic digestion and composting. The versatility of the **TWISTER** allows to separate organics from can, wrapper, bag, plastic bottle or plastic jar packaging.

The de-packaging process starts with a loading phase into a hopper. Then the vertical hammer-mill separate the organic product from the packaging in creating an upwards vortex and twister effect removing the solids from the pasty material leaving all organics in the paste or liquid. Depending of the source of the material and the product requirement, the water control help to achieve the right consistency for further treatment.

The innovative design of the **TWISTER** is the result of high experience in the field of pre-treatment and filtration and has been optimized following extensive testing of different filtration scenarios that optimize organic capture to the best energy recovery.

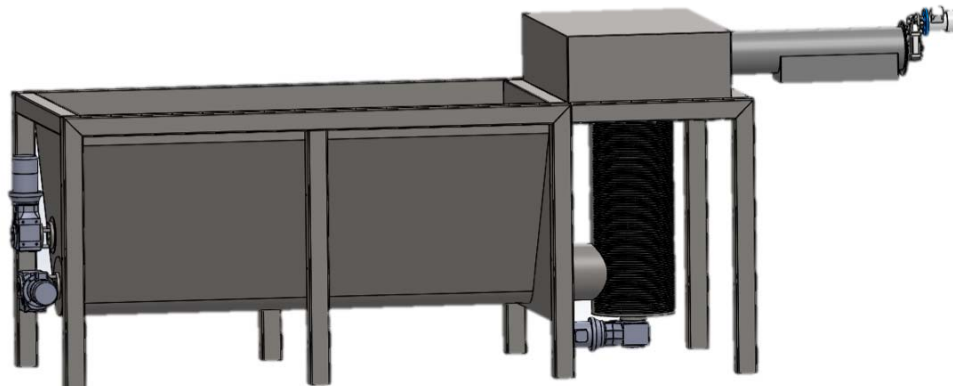
FEATURES

- ✓ Automatic operation
- ✓ No pre-treatment necessary
- ✓ Continuous functioning
- ✓ Quick and easy installation
- ✓ Low energy consumption
- ✓ High quality and reliability
- ✓ Manufactured in Stainless Steel AISI 304 and 316(L)
- ✓ Welding pickled and passivated
- ✓ Easy removable covers for hygienic inspection
- ✓ Rubber scraper bolted to screw to clean drum
- ✓ Low and easy maintenance

The complete unit is made entirely out of stainless steel, as this selection of materials is essential to a long life of the equipment.



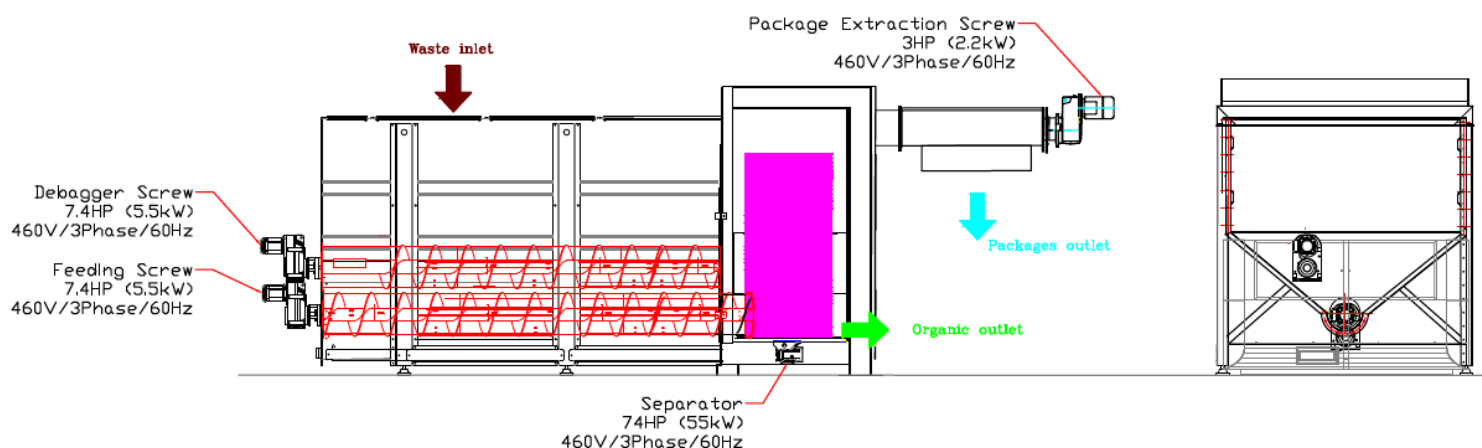
Valuable organic waste rather than being discarded in a landfill are now recovered and recycled to generate biogas a natural and clean energy!



SPECIFICATIONS

View from left side

Frontal view



FOOT PRINT DIMENSIONS

Length	7290 mm	287 in
Width	2,470 mm	97.5 in
Height	2,720 mm	107 in

HOPPER DIMENSIONS

Length	3,680 mm	145 in
Width	2,235 mm	88 in
Capacity	5.7 m ³	200 ft ³

IP 55 - MOTORS

Debagger Screw	5.5 kW	7.4 HP
Feeding Screw	5.5 kW	7.4 HP
Separator	55 kW	74 HP
Extraction Screw	2.2 kW	3 HP
Throughput	10 t/h	22,000 Lbs/h

EQUIPMENT RANGE

Mechanical Dewatering

- Decanter Centrifuge
- High Speed Centrifuge
- Gravity Belt Press Thickener
- Belt Press
- Scrudrain: Screw Thickener
- Screw Press
- DRAIMAD Dewatering bag skid

Thermal Systems

- Sludge Dryers
- Evaporators

Screening

- Multi-Rake Bar Screens
- Perforated Plate Screens
- Internally Fed Drum Screens

Grit and FOG Removal Systems

Solid Waste

- Material Sorting & Screening

Polymer Preparation

- Dry & Liquid polymer systems

Materials Handling Systems

- Shaftless Screw Conveyors
- Belt Conveyors
- Live Bottoms
- Silos
- Sorting Lines
- Shredders

Pumping

- PC Pumps

APPLICATION FIELD

By PROCESS

- Aggregates conveying
- Biomass drying
- Biomass gasification
- wastewater treatment
- Biosolids reduction
- Biosolids stabilization (Class A)
- BOD reduction
- Cogeneration
- Dewatering:
 - Aerobic sludge
 - Anaerobic sludge
 - Lime & Alum sludge
 - Mixed industry sludge
 - WAS sludge
- Evaporation
- Enzymatic Inactivation
- Fish processing

- Flour enhancement
- Head works
- Heat treatment
- Kelp processing
- Bulk materials Handling
- Leachate treatment
- Oil separation
- Paper sludge de-inking
- Plastics separation
- Pump station screening
- Pulp Recovery

By INDUSTRY

- Airports
- Biomass gasification
- Cement factory
- Dairy Industry
- Die Casting Industry
- Flour Mill
- Landfill
- Municipal WWTP
- Paint Factories
- Petro-chemical refinery
- Pulp & Paper industry
- Potato plant
- Rendering plant
- Slaughtering plant
- Tar Sands
- Quarries