Industrial and Municipal
Process Equipment Packages

- Develop
  • process solutions partnerships to find efficiencies on new or existing process.

- Design
  • machines for solids recovery, liquid clarification, and minimize water consumption.

- Deliver
  • project specific solutions for better economic, and environmental process performance.
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

DRYCAKE high-performance decanter centrifuge represents a new generation of machine. Whereas previous generations might use only 35-50% of the bowl volume and operate at a lower G-force, a high-performance decanter is distinguished by higher G-force and the use of the entire bowl volume resulting in larger process capacity using a smaller diameter bowl than a traditional centrifuge. The use of this technology allows you to have a physically smaller decanter with higher capacity, and also higher cake dryness.

DRYCAKE machines are equipped with a hydraulic or electric back drive system for variable speed control of the differential between the bowl and the scroll. The performance efficiency of our system allows us to install smaller electric motors with much higher energy savings.

All functions are managed via our touch screen HMI and can interface and integrate with external PLC or SCADA using modern industrial communication protocols. Through a remote control function we can diagnose, change parameters and update the entire software.
DECANTER
DR – Mechanical Dewatering

Capacity up to 484 GPM  110 m³/h

FEATURES

✓ Automatic Operation
✓ High Quality Construction
✓ Heavy Duty Application
✓ Highest Torque for every differential speed
✓ Open Scroll Construction
✓ Independent Solids Scraper
✓ Easy removable section covers

Systems can be Provided Complete with Cake Discharge Solutions based on Pump, Screw or Belt Conveying Technologies
STARTUP READY SKIDS

- Hydrostatically tested
- Fully piped, wired, engineered and tested prior to shipment
- Fully Assembled:
- Only 3 inlet connections:
  1. Electrical
  2. Water
  3. Sludge
- Polymer System and flow meters on board.

With his high reliability, the DRYCAKE Decanter Centrifuge is the perfect solution for your dewatering needs.
MODEL & DIMENSION

### DRYCAKE Decanter Centrifuge Size

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor kW</th>
<th>Motor HP</th>
<th>Bowl 220</th>
<th>A</th>
<th>B</th>
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### Capacity for references, Performance vary with sludge characteristics

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<th>m3/h GPM</th>
<th>1% kg/100G</th>
<th>1% lbs/200L</th>
<th>2% kg/200G</th>
<th>2% lbs/400L</th>
<th>3% kg/400G</th>
<th>3% lbs/800L</th>
<th>Dry Solids/hour at 4% kg/1000G</th>
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* Other configuration available on demand

DRYCAKE
projects@drycake.com
DECANTER
DR – Mechanical Dewatering

PROCESS & INSTRUMENTATION

Settling tank
Water tank
Sludge tank
Polymer pumps
Sludge pump
Control panel
Conveyor
Decanter

DRYCAKE
projects@drycake.com
Process Solutions for a Better World

EQUIPMENT RANGE

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

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

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