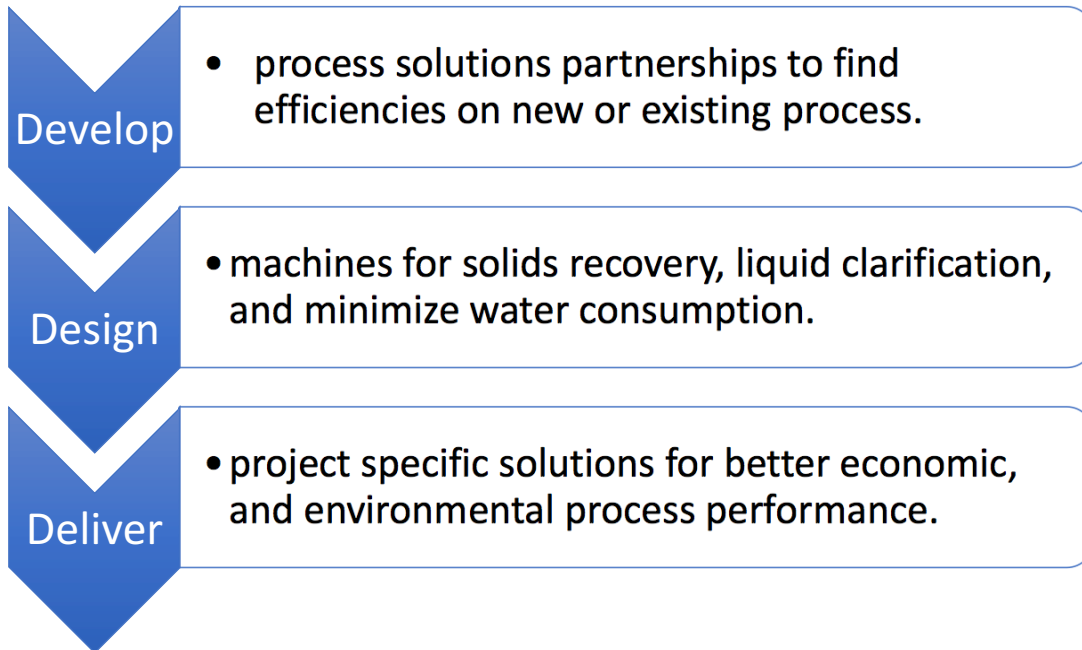


Process Solutions for a Better World



Doc# MULTIRAKE-1703-R03

MULTIRAKE

DBS - Coarse & Fine Screening

Capacity up to 228 MGD 36,000 m3/day

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 **MULTIRAKE** comes from years of experience in the field of mechanical pre-treatment of wastewater. The equipment is for solid separation (of variable size as a function of the screen panel bar spacing).

The operation is automatic. Equally spaced bars form the screening area, and solids accumulate at the screen base until a water height level sensor activates the rake mechanism to clear the bars. The rake mechanism is designed to fit between the bar spacing, and transport the screenings to the top of the **MULTIRAKE** where a rake plate ensures the screenings drop down the discharge chute. The rakes are fixed and chain driven, with the number of rakes growing with the screen height.

A gear-motor actuates the rake mechanism transmission.



FEATURES

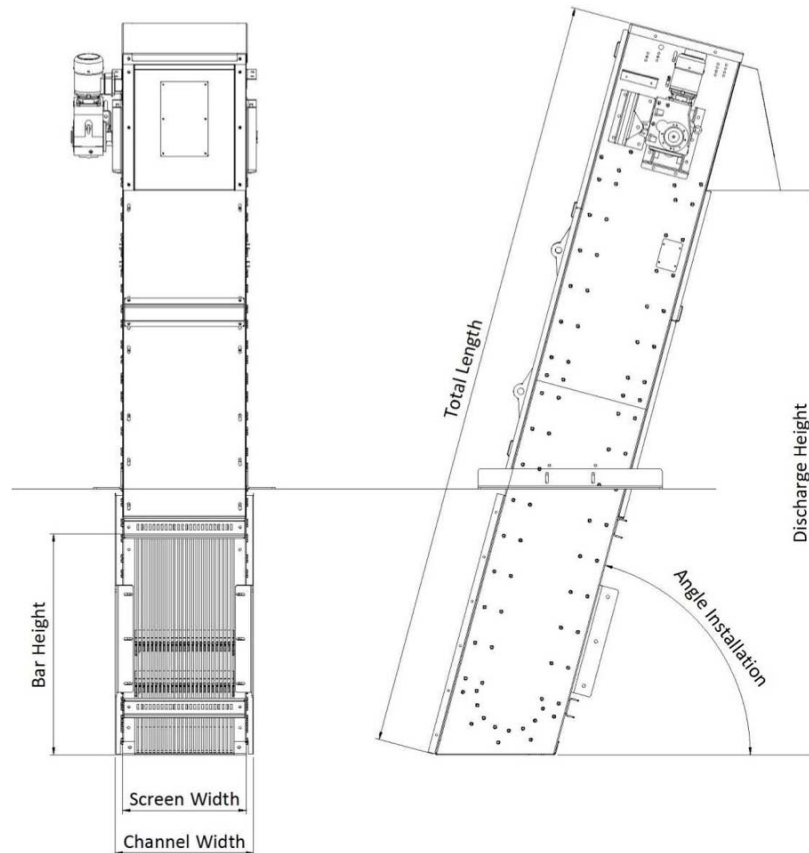
- ✓ Automatic Operation
- ✓ Easy installation in channel
- ✓ Fully customizable to customer needs
- ✓ Heavy Duty Application
- ✓ No submerged mechanical components
- ✓ 40-75° Installation angle standard. 80 & 90° installation angles available in special execution
- ✓ Manufactured in Stainless Steel AISI 304 and 316(L)
- ✓ Welding pickled and passivated
- ✓ Easy removable covers for hygienic inspection
- ✓ Odour-containing covers
- ✓ Low and easy maintenance



MODEL & DIMENSION

75° installation MODEL	Channel width		Total length		Discharge height from channel bottom		Screen width		Bars height	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
DBS400	16	400	132	3350	91	2300	15	370	24	600
DBS600	24	600	132	3350	91	2300	22	570	24	600
DBS800	31	800	132	3350	91	2300	30	770	24	600
DBS1000	39	1000	140	3550	98	2500	38	970	31	800
DBS1200	47	1200	140	3550	98	2500	46	1170	31	800
DBS1400	55	1400	140	3550	98	2500	53	1340	31	800
DBS1600	63	1600	140	3550	98	2500	61	1540	31	800
DBS1800	71	1800	140	3550	98	2500	69	1740	31	800
DBS2000	79	2000	159	4050	118	3000	76	1940	51	1300

* Other configuration available on demand



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

By INDUSTRY

- 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
- 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