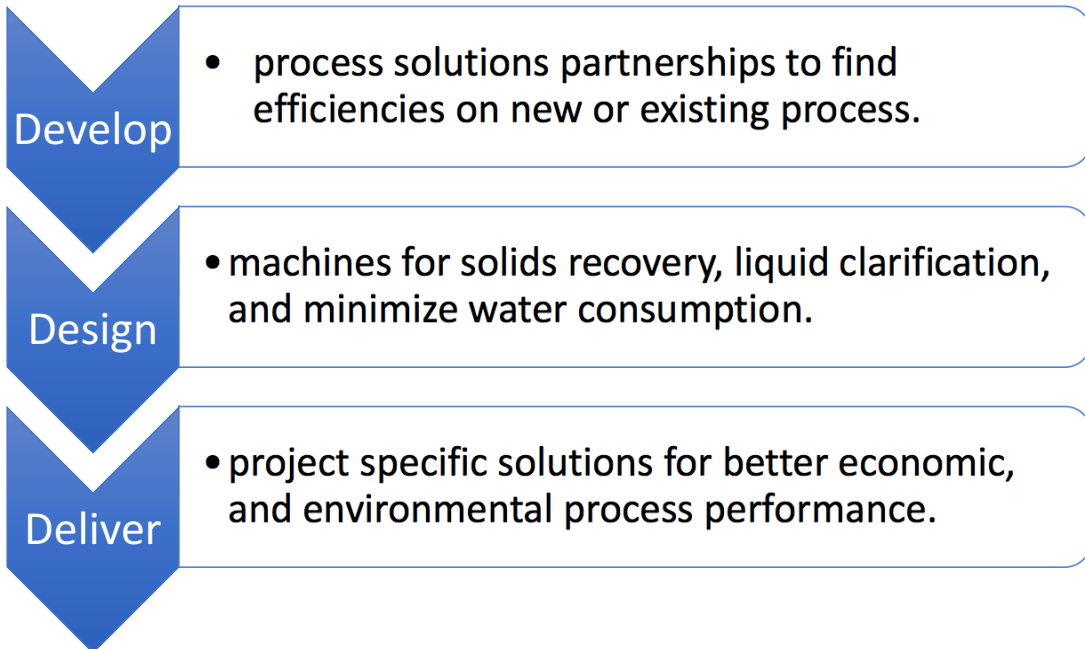


### Industrial and Municipal Process Equipment Packages



Doc# PERFOBASK-1703-R01

## 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 **PERFOBASK** offers the waste water filtration, the transport and the compaction, which allows an important reduction in weight and volume of filtered waste (up to 50% less). The aperture can be circular holes (2 to 6 mm) or wedge wire from 0.5 to 2 mm.

The machine can be installed inclined into a **concrete channel (DSS-C Serie)** or in a **stainless steel tank (DSS-T Serie)** to receive the waste waters from a fix pipe. The **vertical configuration (DSS-V Serie)** is the variant developed for vertical installation.

The screening basket retains solids as the liquid passes them. The solids clog the holes and cause a rise in the level of the effluent causing a differential between the level of the upstream and downstream. Generally, a sensor, detects the increase in absolute or differential water level, provides the auger start signal. As the auger rotates, brushes fixed on the lower part of the auger clean the screening profile. The auger then transports the screenings to the compaction area. Compaction is achieved by reducing the auger pitch. The compacted solids exit the screen out the discharge chute.

**PERFOBASK  
IN CHANNEL  
DSS-C**



**PERFOBASK  
VERTICAL  
DSS-V**



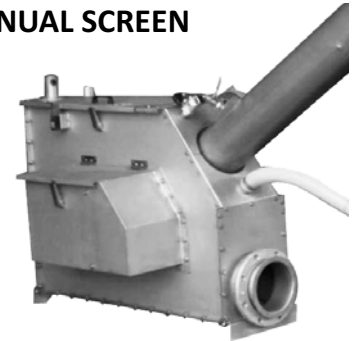
**PERFOBASK  
IN TANK  
DSS-T**

Capacity up to 4,400 GPM 1,000 m3/h

### FEATURES

- ✓ Automatic Operation
- ✓ Screening, Washing & compaction in one compact unit
- ✓ Fully customizable to customer needs
- ✓ No submerged mechanical components
- ✓ Manufactured in Stainless Steel AISI 304 and 316(L)
- ✓ Welding pickled and passivated
- ✓ Easy removable covers for hygienic inspection
- ✓ Odour-containing covers
- ✓ Bagging System
- ✓ Winterization
- ✓ Low and easy maintenance

**PERFOBASK IN TANK DSS-T  
WITH OVERFLOW SIDE BOX  
MANUAL SCREEN**



**PERFOBASK  
IN CHANNEL  
DSS-C**



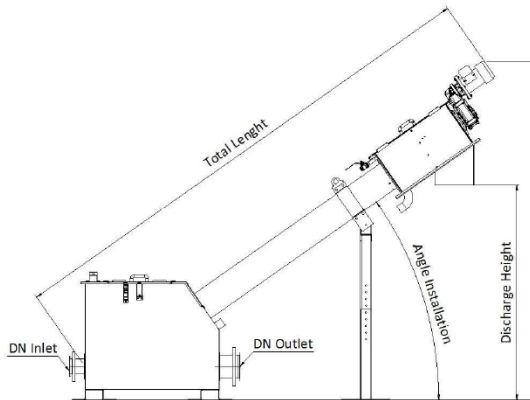
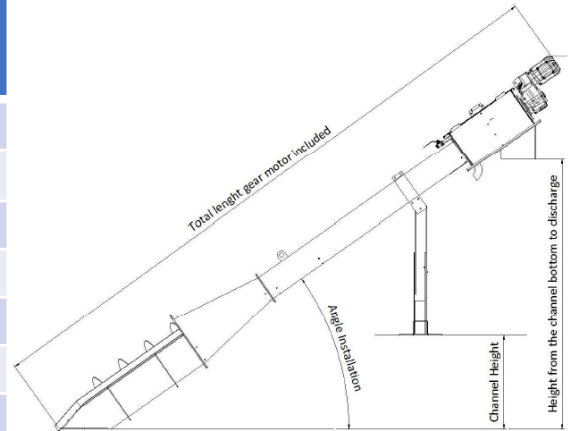
**PERFOBASK  
VERTICAL  
DSS-V**



**PERFOBASK  
IN TANK  
DSS-T**

### MODEL & DIMENSION

35°-45° installation IN CHANNEL	Channel Height		Ideal Width		Total Length /w gear motor		Discharge Height from channel bottom	
	mm	in	mm	in	mm	in	mm	in
<b>MODEL</b>								
<b>DSS-C 200</b>	800	32	250	10	5,360	211	2,300	91
<b>DSS-C 300</b>	800	32	350	14	5,355	211	2,300	91
<b>DSS-C 400</b>	800	32	460	18	5,410	213	2,320	92
<b>DSS-C 500</b>	800	32	560	22	5,420	214	2,325	92
<b>DSS-C 600</b>	800	32	660	26	5,825	230	2,350	93
<b>DSS-C 700</b>	1,000	40	760	30	6,165	243	2,550	101



35°-45° installation IN TANK	Inlet		Outlet		Total Length /w gear motor		Discharge Height	
	mm	in	mm	in	mm	in	mm	in
<b>MODEL</b>								
<b>DSS-T 200</b>	100	4	150	6	5,360	211	2,300	91
<b>DSS-T 300</b>	150	6	200	8	5,355	211	2,300	91
<b>DSS-T 400</b>	200	8	250	10	5,410	213	2,320	92
<b>DSS-T 500</b>	250	10	300	12	5,420	214	2,325	92
<b>DSS-T 600</b>	300	12	400	16	5,825	230	2,350	93
<b>DSS-T 700</b>	350	14	500	20	6,165	243	2,550	101

PERFOBASK CAPACITY *	DSS 200		DSS 300		DSS 400		DSS 500		DSS 600		DSS 700	
Type of meshes and spacing	m3/h	GPM	m3/h	GPM	m3/h	GPM	m3/h	GPM	m3/h	GPM	m3/h	GPM
<b>0,25mm Wedge Wire</b>	20	88	35	154	55	242	120	528	200	880	290	1,276
<b>0,50mm Wedge Wire</b>	45	198	60	264	5	22	190	836	275	1,210	370	1,628
<b>1mm Wedge Wire</b>	75	330	90	396	120	528	265	1,166	360	1,584	530	2,332
<b>2mm Wedge Wire</b>	85	374	105	462	150	660	310	1,364	415	1,826	670	2,948
<b>3mm Holed</b>	100	440	125	550	180	792	320	1,408	465	2,046	740	3,256
<b>5mm Holed</b>	140	616	162	713	268	1,179	396	1,742	590	2,596	950	4,180
<b>6mm Holed</b>	160	704	198	871	300	1,320	435	1,914	600	2,640	980	4,312
<b>8mm Holed</b>	180	792	220	968	350	1,540	480	2,112	650	2,860	1,000	4,400

\* Contact **DRYCAKE** for capacity at different perforations.



## 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