

PRODUCT INNOVATIONS

# ROTOscreen® Separator





## ROTOscreen® Separator

The environmental and economic solution of separating slurries of all consistencies and ages of liquids and solids in a wide range of waste products found on dairy and pigs farms, sewage works, abattoirs, cattle markets, food processing plants, water utilities, breweries etc.

Advantages of separation		
Solids	Liquids	Generally
Composts easily	30 % less volume than slurry	More efficient slurry management
Stackable dry	No mixing needed in store	Less power use
Less smell than F.Y.M.	Much less smell than slurry	Less storage needed
Less contamination on grass	Easier to aerate	More socially accepted product
Kill weed seeds when composted	Can be spread by small bore irrigation systems	
Reduce initial volume by approx. 40 % over 3 months	No smothering of sward	
	No crusting in store	



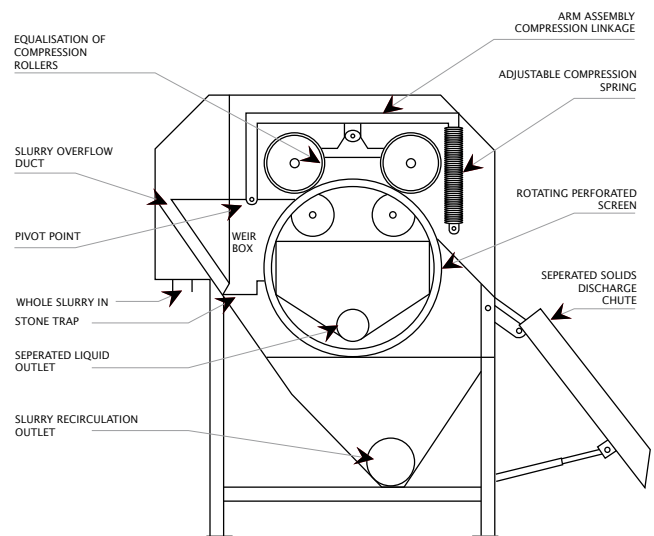
The stainless steel construction combined with a patented roller tensioning feature and scraper system, unique roller and weir design, self-draining and remote mounted bearings prolongs the life, reliability and efficiency of the **ROTOscreen®** Separator.

## Features of ROTOscreen® Separator

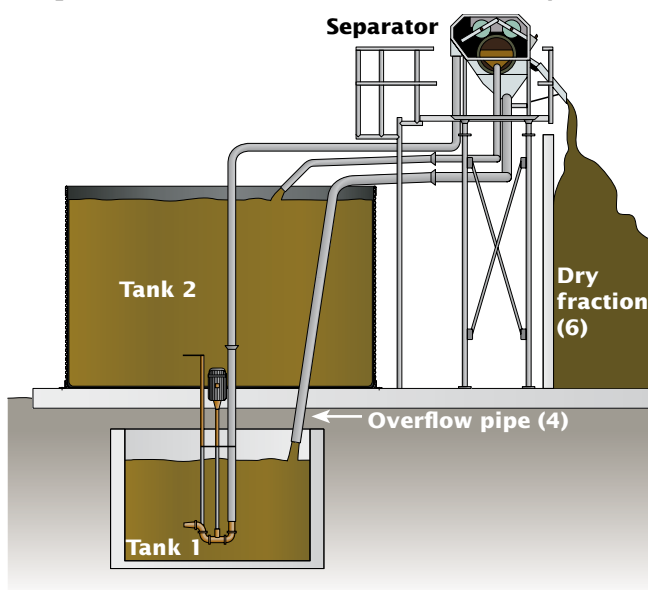
- Simple operation – low maintenance requirements.
- High output – lower power usage.
- Proven reliability – low operating costs.
- Separates waste of differing consistencies.
- No need for dilution, mixing or adjustment.
- Automatic wash down on completion of cycle.

### Technical details

Model	RS 1000	RS 400
Average capacity	30-35 m <sup>3</sup> /h	20-25 m <sup>3</sup> /h
Height	1603 mm	1603 mm
Width	1430 mm	1430 mm
Length	1980 mm	1430 mm
Weight	900 kg	600 kg
Power	1,5 kW single or Three Phase	
Drum	Perforated Wedgewire Stainless Steel	
Drive	Reduction gearbox and single roller chain	
Rollers	Rubber coated stainless steel on spring load lever	
Gantry height	2,0 m - 3,0 m - 4,0 m - 5,0 m - 6,0 m	



## Layout for ROTOscreen® Separator



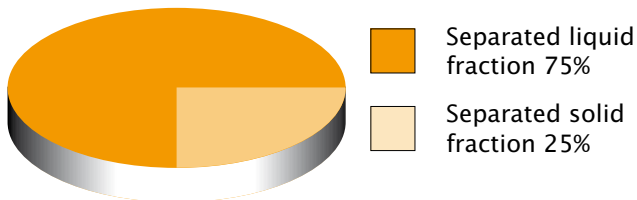
1. Raw un-separated material is collected in tank 1
2. From tank 1 the waste material is pumped through the main pipe to the separator.
3. The material passes through the perforated drum which presses the liquid fraction from the raw material.
4. Any overflow of material returns to tank 1
5. The separated liquid is collected in a hopper and flows to tank 2
6. The dry fraction falls from the separator into a collecting area like a bunker.

# Performance of ROTOscreen® Separator

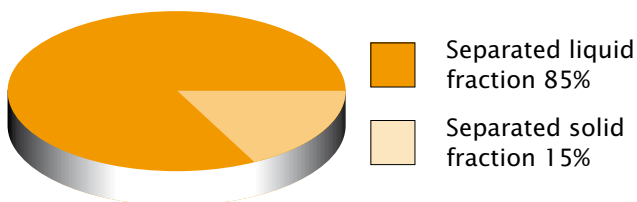
Carrier Separator Model		
	RS1000	RS400
Cattle slurry 6-10% DM	12	6
Pig slurry 3-8% DM	22	10
Cattle market slurry 2-8%	28	13
Vegetable waste 4-6% DM	26	12

Values based on a standard perforated screen size of 2.0 mm

## Separated fractions of cattle slurry



## Separated fractions of pig slurry



## Nutrient content of separated parts - cow slurry

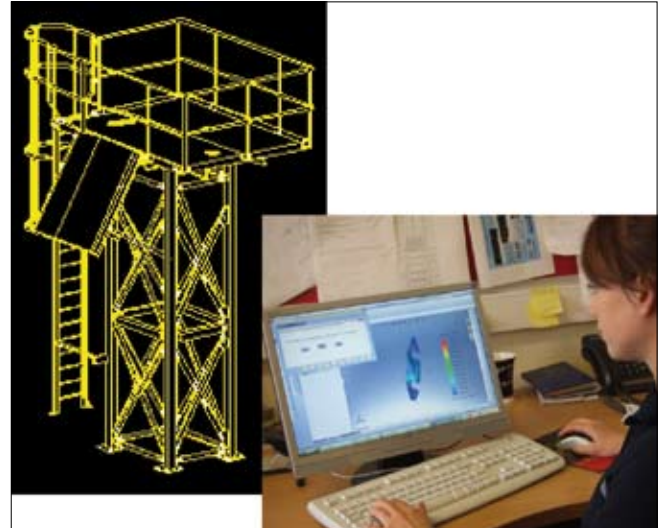
	0% Liquid Part										50%										100% Solid Part									
Nitrogen (N)																														
Phosphate (P)																														
Potassium (K)																														

## Nutrient content of separated parts - pig slurry

	0% Liquid Part										50%										100% Solid Part									
Nitrogen (N)																														
Phosphate (P)																														
Potassium (K)																														

All data above is to be used as guidance only.

Values can vary depending on slurry dry matter.



**Designed** using intelligent software, which allow us to test parts and structures for strength and performance.



**In-house production** of components ensures controlled standards and high flexibility in supplying spare parts.

## Optional Extras

- High specification galvanised gantry, platform and excess ladder
- Extension chute
- Chute cover for wind protection
- High pressure - jet washdown system
- Additional safety overflow
- Specific screen size to suit every application

## Bucon Industries BV

Lekdijk West 6a - 2861 ER Bergambacht - The Netherlands

Phone +31 182 - 30 31 00 - Fax +31 182 - 30 31 04

E-mail: sales@bucon-industries.nl - www.bucon-industries.nl

