

*Net-Zero Waste &  
Resource Recovery*



# ROTARY SCREEN SEPARATOR

## for Ag and Industrial Applications



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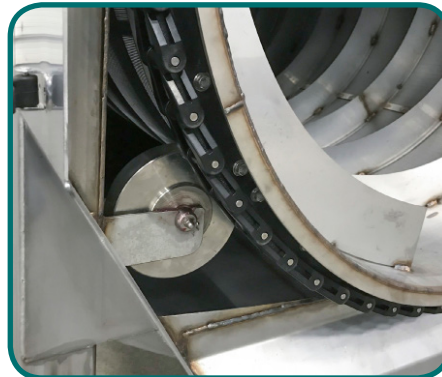
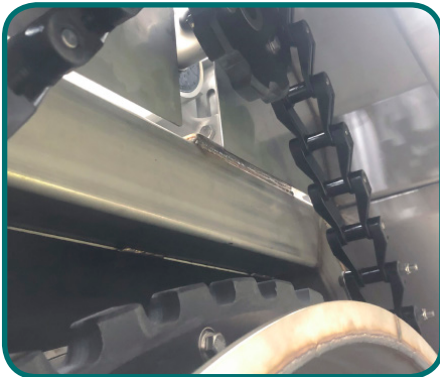
## TRIDENT Separators

Trident focuses on the advancement of solid-liquid separation technologies for agricultural and industrial applications. The Trident Rotary Screen Separator is specifically designed for screening, conditioning and separating solids from liquid waste. This internally fed drum screen separator suits many applications in the industrial and agricultural wastewater sector. It combines high abrasion resistance, exceptional flow characteristics and effective solids removal with a robust and reliable equipment design. Different screen opening options ensure the most effective separation results for every application.

*Trident separators are built to operate in a variety of applications. The simple and robust design ensures smooth operation with minimal maintenance requirements.*

The latest generation of Trident ROTARY SCREEN SEPARATORS features a non-corrosive UHMW chain drive system with top mounted motor and gearbox. The chassis is reinforced in strategically important areas, with improved access points and protective guards. A high efficiency spray bar system is activated as needed and reduces screen clogging for consistent material processing rates. The rotary screen (RSC) is available in two sizes: the standard RSC 900 with 36" drum and the RSC 1200 with 48" drum for high-capacity applications. Long lasting, dependable components guarantee trouble free operation for many years.

The **Trident Separator** is designed specifically for high capacity applications for both coarse and fine particle separation. Quick-change screens provide maximum flexibility to meet your precise filtration needs. The proven technology of the rotary screen ensures superior operation and exceptional wear resistance. The chain drive system reduces vibration and ensures non-slip positive turning power to the screen. The integrated spray bar system (CIP) helps maintain a clean screen for constant material processing rates. Long lasting, dependable components guarantee trouble free operation for many years.



## Features & Benefits

- Non-metallic NH78 chain drive for high strength torque and low-vibration machine operation
- Interchangeable screens for improved versatility for changing feedstock or output requirements
- Reinforced perforated screen with full length internal screen flights for optimal solids conveyance
- UHMW or stainless steel idler wheels with sealed bearings ensure smooth rotation and durability
- 1 HP electric motor for low power consumption
- 1 internal CIP spray bar ensures non-clogging operation and most efficient water use
- Large inlet chamber for maximum throughput
- Strategically designed inlet and outlet guards for positive containment and improved safety

## Specifications

- Construction: 304 stainless steel
- RSC 900 Dimensions: 143" x 46" x 72" (L x W x H), Screen Diameter: 36", Dry Weight: 1,500 lbs
- RSC 1200 Dimensions: 157" x 58" x 90" (L x W x H), Screen Diameter: 48", Dry Weight: 2,400 lbs
- Screen Options: 3/16", 1/8", 3/32", 1/16" to suit differing processing needs
- Electric Motor: 1 HP, 230/460/575 Volt 3 phase or 230 Volt single phase

RSC 900		RSC 1200	
Screen	Processing Rate	Screen	Processing Rate
RSC 900 3/16"	up to 1,500 gpm	RSC 1200 3/16"	up to 2,000 gpm
RSC 900 1/8"	up to 1,000 gpm	RSC 1200 1/8"	up to 1,350 gpm
RSC 900 3/32"	up to 750 gpm	RSC 1200 3/32"	up to 1,000 gpm
RSC 900 1/16"	up to 500 gpm	RSC 1200 1/16"	up to 675 gpm

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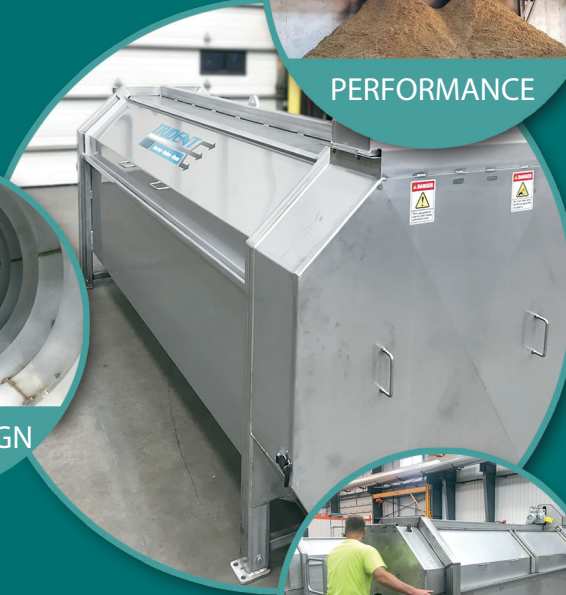
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PERFORMANCE



PROVEN DESIGN



RELIABILITY

*Net-Zero Waste &  
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