



OLYMPUS

Accelerated Ballistic Separator

 SPARTA | Innovations

What is the **OLYMPUS**

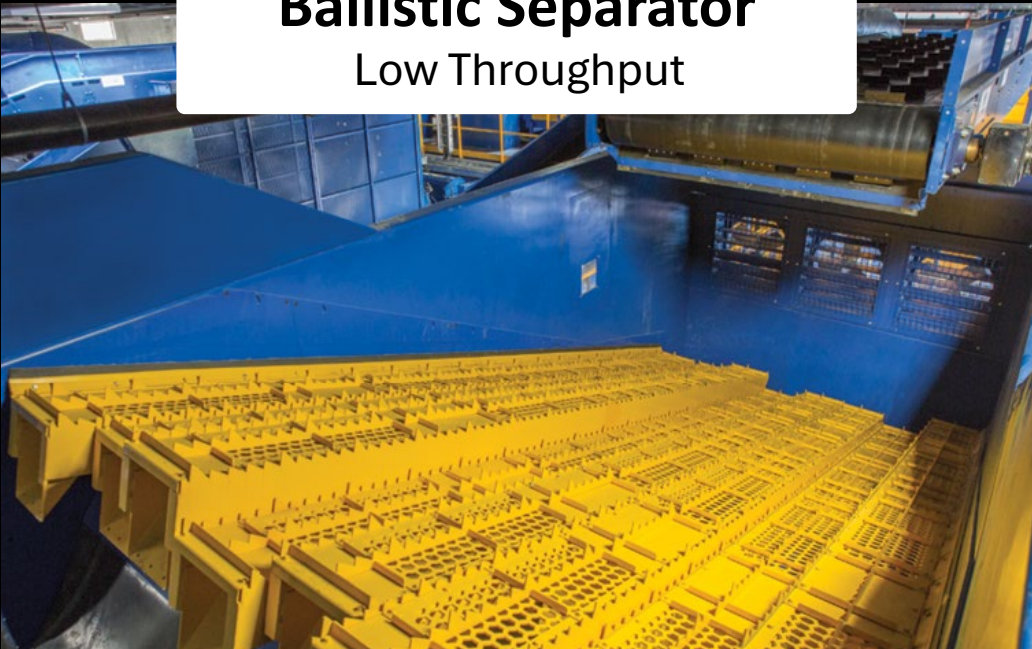
Experience the future of recycling with a new class of single-stream separators – The Olympus: a groundbreaking Sparta innovation that redefines the single-stream industry's idea of efficiency, speed, and reliability. Engineered to seamlessly integrate into your existing recycling process, this new Accelerated Ballistic Separator effortlessly combines the best features available in a ballistic separator and a Disc Screen Separator.



CURRENT SOLUTION

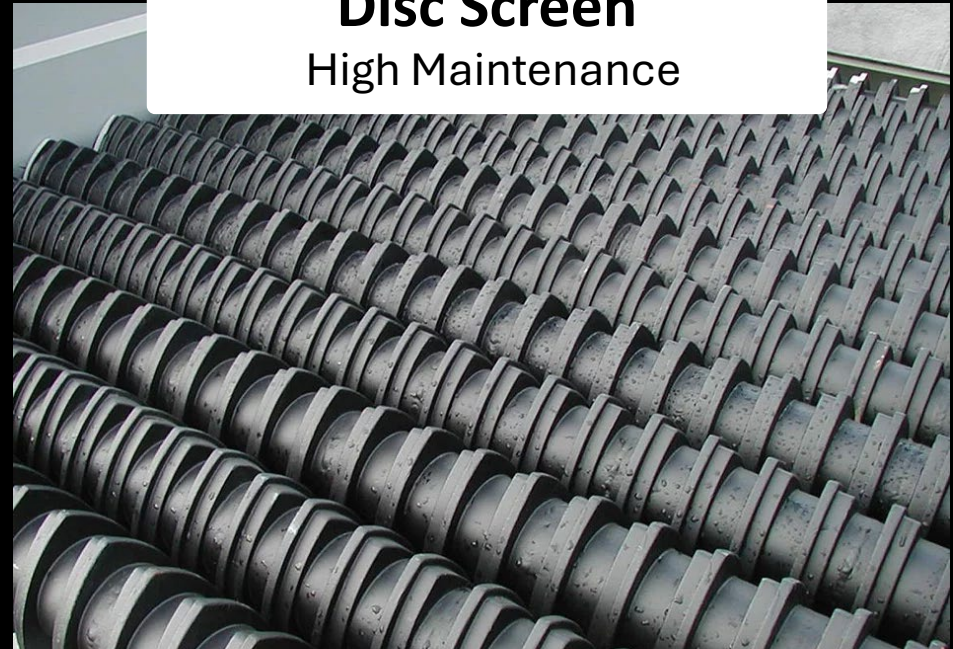
The Industry's Current Solution

Ballistic Separator
Low Throughput



✓ Low Maintenance ✗ Low & Slow Throughput

Disc Screen
High Maintenance



✓ High efficiency ✗ Extensive maintenance



CURRENT SOLUTION

Traditional Ballistic Separator

Advantages

- ✓ Efficient separation of 3D (containers, bottles) from 2D materials (paper, plastic films).
- ✓ Low maintenance due to fewer moving parts.

Disadvantage

- ✗ Low Throughput
- ✗ Slow Throughput





CURRENT SOLUTION

Traditional Disc Screen

Advantages

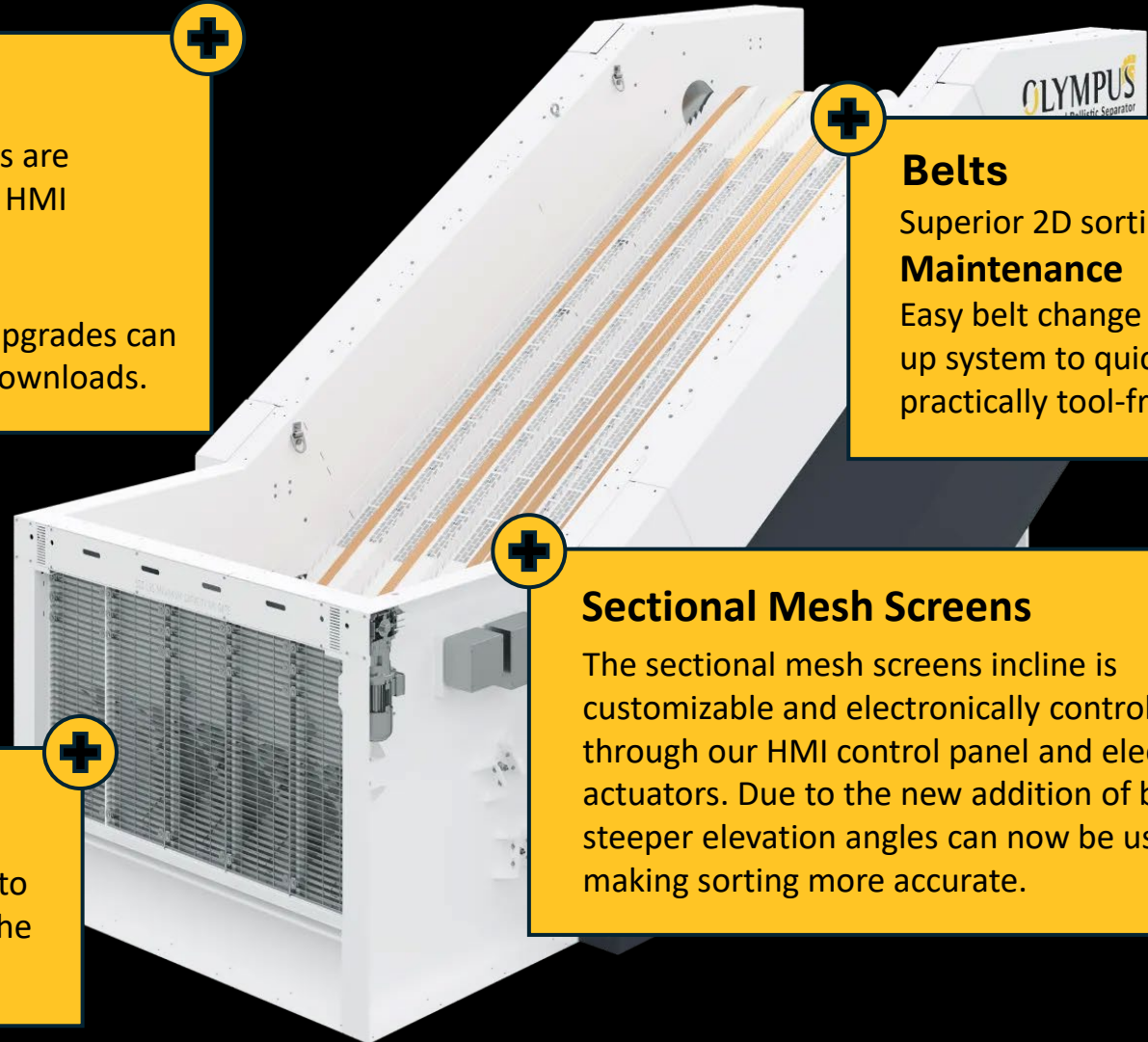
- ✓ Effective at separating by size.
- ✓ Can handle a large volume of materials.

Disadvantage

- ✗ Prone to jamming, especially with stringy materials like plastic bags or large pieces of paper.
- ✗ Requires regular cleaning and maintenance to ensure efficiency.



Single Stream Sorting Technology Reinvented



HMI Control Panel
Olympus' operating parameters are accessible through an intuitive HMI interface.

Maintenance
Effortless future updates and upgrades can be made via simple software downloads.

Belts
Superior 2D sorting facilitated by belts.

Maintenance
Easy belt change with gas strut cylinder take up system to quickly track or change belts practically tool-free.

Fans
Adjustable 5-speed fans to allow for fine-tuning of the 2D/3D separation.

Sectional Mesh Screens
The sectional mesh screens incline is customizable and electronically controlled through our HMI control panel and electrical actuators. Due to the new addition of belts, steeper elevation angles can now be used, making sorting more accurate.

Single Stream Sorting Technology Reinvented

Paddles

Unique paddles use a circular motion to quickly sort out 3D material.

Maintenance

Divided head & tail shaft to be able to quickly change a pair of paddles without having to remove all of them.

Maintenance Door

Electronically driven maintenance door to safely access paddles for cleaning and access rear bearings for maintenance.

Bearings and Labyrinth Seals

Custom bearings and labyrinth seals, offering an impressive +28,000 hours life span ensuring long-lasting reliability.

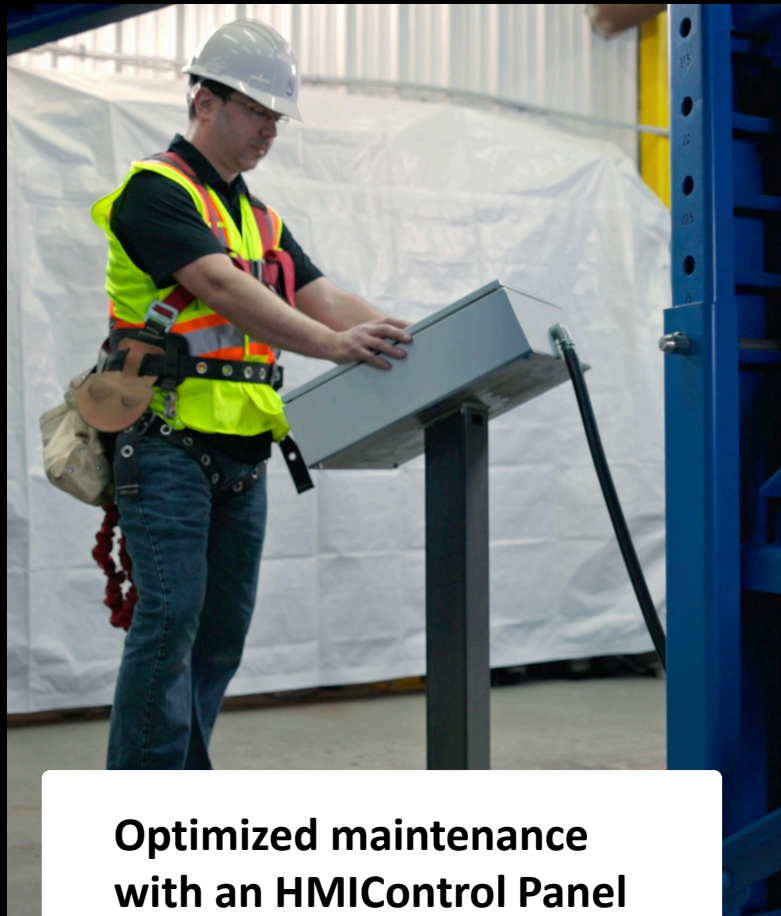
Our easy belt change system, minimal wear parts, and divided head & tail shaft contribute to a seamless maintenance experience, enabling swift paddle changes and reduced spare part requirements. Designed for single-person maintenance, our machine also features a convenient access door for easy mesh cleaning and tool-free belt tracking or changes.





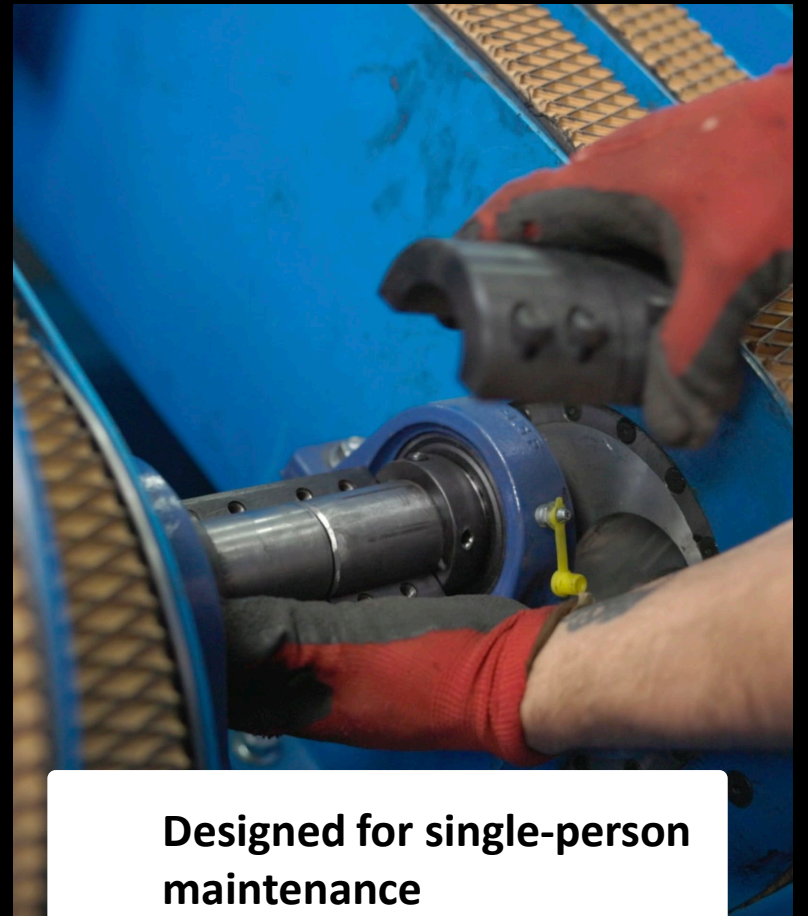
Change a belt without tools in under 2 mins

The Olympus is designed to offer effortless belt tracking and changes, requiring just one person and no tools to complete the task in under 2 minutes.



Optimized maintenance with an HMI Control Panel

We've streamlined maintenance procedures through the integration of our HMI features, enabling easy access to machine parts, settings, diagnostics, and updates, ensuring efficient upkeep.



Designed for single-person maintenance

The Olympus is not only optimized for efficient maintenance but also designed to prioritize worker safety. We've created a separator made for single-person use, reducing the need for extra personnel and minimizing the risk of accidents.

Compare 2D/3D Stream Separators

Name	Disc Screen	Ballistic	OLYMPUS 
2D/3D Separation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
High Throughput	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Highly Efficient Separation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Minimal Cleaning		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Easy 1-person Maintenance			<input checked="" type="checkbox"/>
Safe and Accessible			<input checked="" type="checkbox"/>

Olympus Specifications

Discover the Olympus' specifications and begin planning its integration into your facility.

HP of the motors	10HP (x2)
Amperage draw	13 amps
Available voltages	380V/360v/575v
Diameter of rotation	4"
Sizes available	8,10,12,14 Paddles
Area of the top deck	93 sq. feet
Size of the openings in wings	Fully customizable
Belt speed	620 fpm @60Hz
RPM	208 RPM at 60Hz
Size of the pulleys	12"
Size of pulley bearings	7" ID x 8 1/2" OD

Angle range	27.5-37.5
Actuator strength	2000Lbs/each
Bearing life expectancy	over 28,000 hours
Fan Cfm's	1800cfm/each
Total weight	16895 Lbs
Driveline weight	6220 Lbs
Paddle length C/C	14 ft.
Overall belt length	31'-7"
Belt width	2 3/8"
Overall machine size	Varies per model

A large industrial machine, the OLYMPUS Accelerated Ballistic Separator, is shown in a dark setting. The machine is primarily grey and black, with a prominent logo on its side. The logo consists of the word "OLYMPUS" in a bold, sans-serif font, with a yellow Greek letter sigma (Σ) integrated into the letter "O". Below "OLYMPUS" is the text "Accelerated Ballistic Separator" in a smaller, black font. The machine's structure is complex, with various panels, bolts, and a large cylindrical component visible on the left side.

OLYMPUS
Accelerated Ballistic Separator



No More Separation Anxiety.



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