

A large industrial facility, likely a material recovery or sorting plant, featuring multiple levels of conveyor belts, metal walkways with railings, and large rollers. The equipment is primarily light blue and grey. The facility is housed in a large, open industrial building with a high ceiling and visible structural beams.

# Advanced Sorting Equipment and Solutions for Material Recovery Facilities



## WE HAVE YOU COVERED: TURN-KEY SOLUTIONS FOR MRFS

-  Project Development
-  Engineering
-  Manufacturing
-  PM and Construction
-  Operations Services
-  Customer Service and Parts

## About CP Group

Innovation is at our core. Since our inception, we have introduced groundbreaking ideas and technologies to the waste and recycling industry, starting with the first aluminum can flattener in 1977. Today, we develop large-scale turnkey material recovery facilities.

Our culture promotes curiosity and continuous learning, pushing us to raise the bar constantly. Our dedicated team prioritizes customer needs, ensuring exceptional service. When you partner with CPG, you gain a lifelong partner. We're committed to supporting you for the long haul.

## Design Principles

Our mission is to enhance material recovery by utilizing precise equipment at key stages in the process. This involves fractionating for size and density, liberating materials for efficient processing, and employing selective sorting for accurate separation.



### Fractionate

for size and  
density separation



### Liberate

material for efficient  
downstream processing



### Separate

commodities with highly  
accurate selective sorting



# Award-Winning Design

SWANA awarded CPG the Recycling Excellence Gold Award for multiple systems featuring advanced separation technology.



Our Chicago customer won the 2024 NWRA Recycling Facility of the Year Award. CPG was also named NWRA's 2022 Innovator of the Year for the OCC Auger Screen™.

## Retrofit Solutions

We recognize your operation is unique. CPG offers custom-engineered retrofit designs tailored to your needs. Our skilled engineers, technicians, and operations teams collaborate closely with you, leveraging years of field experience to deliver effective solutions.

## Manufacturing Capabilities

Engineered and manufactured in the USA, CPG is dedicated to innovative design, quality construction, and outstanding customer service. With nearly 50 years of experience, our AIS quality-certified processes and UL508A approved electrical panel shop guarantee timely, on-budget delivery of high-quality products. Our large manufacturing space and proactive project management allow us to quickly adapt to your project's needs.



# Single Stream Processing

At CPG, we lead the industry in engineering and manufacturing single stream recycling systems. Our systems feature cutting-edge equipment, including auger screens, optical sorters, AI, and advanced electrical solutions, enhancing performance and efficiency.

## KEY TECHNOLOGIES



Metering Equipment



NIR Optical Sorting



Air Separation Equipment



Auger Screens



Vivid AI™ Advanced Sorting



Baling Equipment



Disc Screen Equipment



Metal Separation



Advanced MRF Controls



CP Drum Feeder



CP Auger Screen™



CPScreen™ & Drum Magnets



MSS PlasticMax™ Optical Sorter



MSS Vivid AI™



70 TPH Residential & Commercial Recovery System



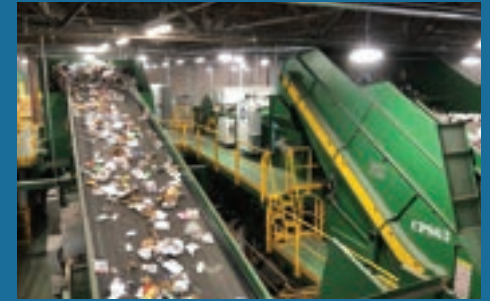
# Municipal Solid Waste Processing

The demand for mixed waste processing is on the rise, necessitating specialized solutions to effectively manage its complexities. CPG delivers advanced systems and equipment specifically designed for Municipal Solid Waste (MSW) processing. Our durable, field-tested equipment ensures high throughput, optimal recovery rates, and exceptional end-product quality.

With two decades of expertise in mixed waste processing, CPG partners with MSW facilities to help clients recover valuable commodities from the mixed waste stream. Our commitment to efficiency and quality enhances resource recovery, paving the way for a more sustainable waste management future.



CP Auger Screen™



CPScreen™



MSS NIR Optical Sorters



CP Glass Breaker



40 TPH MSW Recovery System

## ADVANCED SYSTEMS

- ✓ Custom design
- ✓ High diversion rates
- ✓ Option to remove organics
- ✓ Low maintenance



1,775 TPD C&D Recovery System



Heavy duty Infeed Conveyor



CP Auger Screen™

# Construction & Demolition

Processing Construction & Demolition (C&D) materials demands robust equipment. CPG offers recycling systems specifically engineered to withstand the toughest conditions. Our custom-designed C&D systems integrate heavy-duty conveyors with advanced automated screening technology, capable of handling concrete, wood, metals, glass, fibers, plastics, and other salvaged building materials.

## GREEN WASTE AND ORGANICS

With rising regulations such as California's SB 1383, the need for efficient organic waste collection services is crucial. CPG excels in creating tailored Green Waste and Organics systems to recover yard trimmings and food scraps effectively.

Our advanced equipment sorts and processes waste into compost, mulch, and other sustainable materials. We collaborate with clients to achieve waste diversion goals, minimize environmental impact, and foster sustainable practices in compliance with regulations.



Promoting sustainable waste management



# Commercial Processing

CPG's Commercial and Industrial (C&I) systems efficiently sort waste from various sectors, including office waste and production materials like fiber, plastic, cardboard, and metals. Our systems can integrate downstream screens and optical sorters to enhance throughput and automate recovery of smaller materials, ensuring effective waste management.

We emphasize the need for durable, reliable equipment to address the unique characteristics of these materials for successful waste sorting operations.



50 TPH Single Stream & Commercial Recycling System



LightsOut™ Air Drum Separator



MSS FilmMax™ Optical Sorter



Patented OCC Auger Screen™

## FEATURED EQUIPMENT BENEFITS

- ✓ Durable steel cantilevered tri-lobe augers
- ✓ Non-wrapping, self-cleaning, and low maintenance
- ✓ High agitation and throughput
- ✓ Eliminates the presort enhancing worker safety
- ✓ Creates clean OCC end-product

# Key CP Technologies

## CP DRUM FEEDER WITH KNIFE OPTION

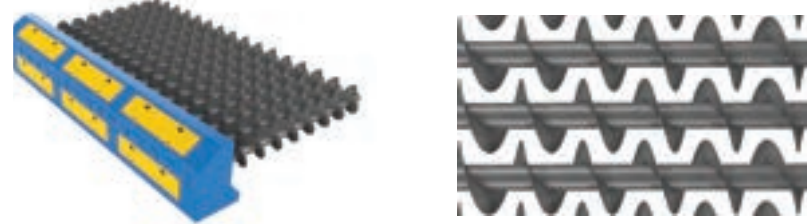


Breaks and fluffs up material. Optional knives can be used to open bags and break up green waste.

### APPLICATIONS:

- Commercial and Industrial
- Single Stream
- Municipal Solid Waste
- Green Waste and Organics

## CP AUGER SCREEN™

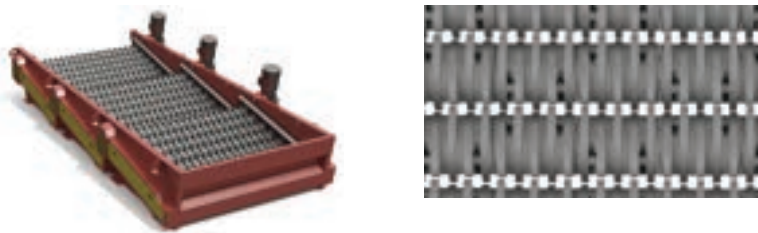


Sizes material by using a series of cantilevered augers that do not wrap or jam, requiring very low-maintenance. Built for high volumes.

### APPLICATIONS:

- Commercial and Industrial
- Construction and Demolition
- Municipal Solid Waste
- Green Waste and Organics
- Single Stream

## CP GLASS BREAKER/FINES SCREEN



This screen has the longest lasting glass breaker discs in the industry. It can also be used as a fines screen in C&D and green waste applications.

### APPLICATIONS:

- Commercial and Industrial
- Construction and Demolition
- Municipal Solid Waste
- Green Waste and Organics
- Single Stream

## CP OCCSCREEN™



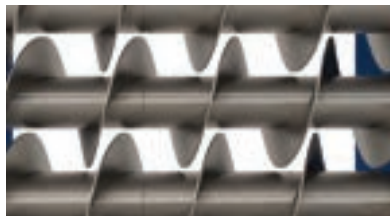
Long-lasting steel discs provide lateral agitation to separate large cardboard from other fibers, containers, and debris.

### APPLICATIONS:

- Commercial and Industrial
- Single Stream



## CP OCC AUGER SCREEN™

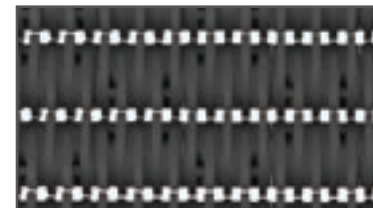


Specifically targets mid to large sized OCC and creates a clean end product utilizing patented high-agitation augers.

### APPLICATIONS:

- Commercial and Industrial
- Single Stream
- Municipal Solid Waste

## CPSCREEN™

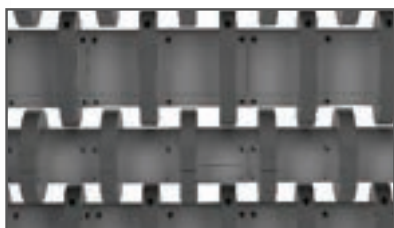


Separates small fibers from containers as well as 2D from 3D material.

### APPLICATIONS:

- Commercial and Industrial
- Single Stream
- Municipal Solid Waste

## CP AWSCREEN™

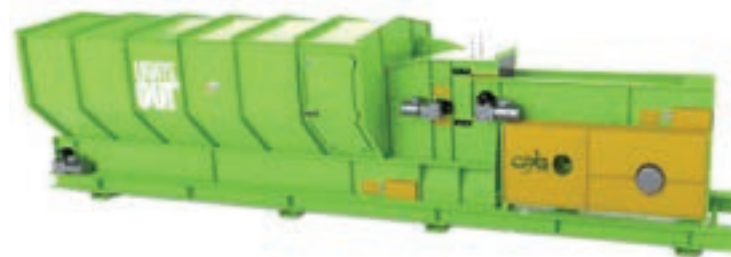


Performs 2D/3D separation and is especially designed to reduce wrapping.

### APPLICATIONS:

- Commercial and Industrial
- Single Stream
- Municipal Solid Waste

## LIGHTSOUT™ AIR DRUM SEPARATOR



A robust low-maintenance air separation solution that removes light contaminants from heavy commodities, such as film and paper shreds from glass.

### APPLICATIONS:

- Shredded Materials
- Construction and Demolition
- MRF Glass

# Key MSS Optical Sorting Technologies

## CIRRUS® FIBERMAX™

MSS's FiberMax™ is the industry's leading optical sorter for fiber, maximizing product quality and reducing the need for manual sorting. It features a high-resolution NIR, color, and metal sensor to sort fiber materials at speeds of 1,000 FPM (5m/sec) and includes our patented PrecisionFlow™ hood and air handling technology for ultralight and flexible materials.

### APPLICATIONS:

- MRFs and Paper Recyclers
- Sort prohibitives and OCC from SRP and Mixed Paper
- Positively sort SOP
- Positively sort SRP and Mixed Paper



## CIRRUS® PLASTICMAX™

The MSS PlasticMax™ is the industry's most efficient optical sorter for containers and rigid plastics. PlasticMax™ accurately identifies and recovers the most challenging containers, including PET, HDPE, PP, cartons and others.

### APPLICATIONS:

- MRFs and PRFs
- MSW and C&D
- Beverage Cartons
- Positively sort PET, PE, PP, PVC, PS, #7 Plastics





## MSS VIVID AI™

VIVID AI™ is the industry's most advanced artificial intelligence based sorting machine that detects more classes of materials than ever. Combining Recycleye AI and MSS capabilities, Vivid Air™, Vivid Bot™, and Vivid Vision™ efficiently detect and extract materials.

### APPLICATIONS:

- MRFs
- PET QC: Bottles from thermo-forms and non-PET
- Black Plastics from mixed recyclables
- Last Chance/Residue lines
- Aluminum QC: UBCs from Non-UBC aluminum and non-metals
- Food-grade from non-food-grade polymers



## METALMINER™

The MetalMiner™ is a leading induction-based metal detector that sorts ferrous, non-ferrous, and stainless steel down to 1mm. It effectively recovers valuable metals like Zurik, ICW, and stainless steel from e-scrap and ASR streams, and removes metal contaminants from fiber, wood chips, plastic flake, and glass cullet.

### APPLICATIONS:

- MRFs and PRFs
- MSW and C&D
- Paper
- eWaste
- Metal Scrap





## **Contact Us**

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