



CP Group



**Advanced Sorting Equipment and Solutions  
for Material Recovery Facilities**

# About CP Group

CPG has led the waste and recycling industry for nearly five decades, focusing on designing, manufacturing, installing, and servicing innovative material recovery facilities and sorting machinery.

Our reputation for superior engineering, innovative designs, and high-quality machinery makes us a trusted provider of turnkey solutions for new installations and retrofits. Choosing to work with us means collaborating with a team recognized for its integrity and commitment to exceptional customer service.

## We Have You Covered: Turn-key Solutions for MRFs

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



# CP Design Principles

In order to extract maximum value from the material stream, it is necessary to identify the key stages in the recovery process and use the correct equipment at each stage. Our design principle is "Fractionate, Liberate, Separate."

## ***Fractionate***

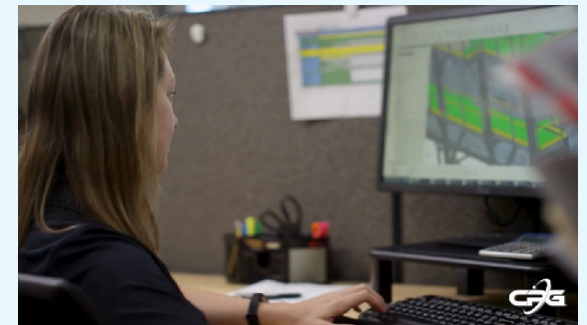
for size and density separation

## ***Liberate***

material for efficient downstream processing

## ***Separate***

commodities with highly accurate selective sorting



# Award-Winning System Design

The SWANA organization has awarded the Recycling Excellence Gold Award to multiple systems designed, built, and installed by CP Group.

From screen separation to optical sorting, CP's award-winning systems exhibit next-generation separation technology designed to recover value from the volume.



CP Group was named NWRA's 2022 Innovator of the Year for the patented OCC Auger Screen.



# Retrofit Solutions

We understand that your operation is unique. CP Group's retrofit designs are custom-engineered solutions for your specific needs. Our experienced staff of engineers, field technicians, and operations teams not only work for you, we also work with you. By drawing on years of experience gathered in the field, our in-house team of designers, engineers, and installers provide solutions that yield proven results.

# Manufacturing Capabilities

All CP equipment is manufactured in-house at our facility in San Diego.

Our AIS quality certified manufacturing processes and our UL508A approved electrical panel shop ensure all of our products conform to the highest quality standards.

We utilize the most sophisticated automated manufacturing technologies, including a welding system with a robotic arm, laser with automated loading & unloading, CNC high definition plasma table, multiple automated press brakes, CNC automated lathes and vertical mills, and more. These powerful tools allow our shop can run day and night.

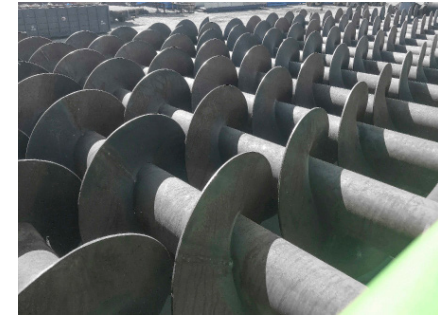


# Single Stream Processing

CP was one of the first to engineer and manufacture single stream recycling systems. For decades, we have spearheaded the residential recycling industry, setting standards across the globe and raising the bar on performance and efficiency. Our systems feature a variety of equipment, from screens, to optical sorters, to cutting-edge electrical solutions.



CP Drum Feeder



CP Auger Screen™

## KEY TECHNOLOGIES

Metering Equipment

Auger Screens

Disc Screen Equipment

Magnetic Separation

Optical Sorting Equipment

Air Separation Equipment

Baling Equipment

Advanced MRF Controls

Vivid AI™



CP Wrap-Resistant Screen™



MSS CIRRUS® Optical Sorters



CP LightsOut™ Air Drum Separator



35 TPH Single Stream Recovery System

# Municipal Solid Waste Processing

CP Group provides advanced systems and equipment for Municipal Solid Waste (MSW) processing. Our equipment is designed for rugged durability and is field-proven to provide high throughput, maximum recovery rates, and the best end-product quality for MSW systems.

When used as front-end separation systems for waste-to-energy technologies, our equipment makes it possible to extract recyclables at maximum recovery rates and produce the specific feed required for energy conversions, while removing harmful contaminants.



CP OCC Auger Screen



CPScreen™



MSS CIRRUS® Optical Sorters



AMRF Controls

## KEY TECHNOLOGIES

Metering Equipment

Auger Screens

Disc Screen Equipment

Magnetic Separation

Optical Sorting Equipment

Air Separation Equipment

Baling Equipment

Advanced MRF Controls

Vivid AI™



50 TPH MSW Recovery System

# Construction & Demolition Waste Processing

Processing C&D requires extremely resilient equipment. CP Group's Construction & Demolition (C&D) division, Krause Manufacturing, provides recycling systems that are built to endure the most punishing conditions. Custom-designed Krause C&D systems combine heavy-duty conveyors with automated screening technology. They are built to handle concrete, wood, metals, glass, fibers, plastics, and other salvaged building components.

## KEY TECHNOLOGIES

Auger Screens

Heavy Duty Conveyors

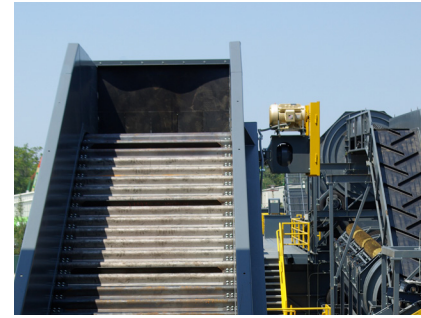
Disc Screen Equipment

Magnetic Separation

Optical Sorting Equipment

Air Separation Equipment

Vivid AI™



Heavy Duty Infeed Conveyor



CP Auger Screen™



CP Fines Screen



CP LightsOut™ Air Drum Separator



75 TPH C&D Recovery System

# Commercial & Industrial Waste Processing

CP Group's Commercial and Industrial (C&I) systems are designed to sort waste generated by factories, offices, retail shops, and businesses. C&I material generally consists of office waste, product packaging, production waste, and can include fiber, cardboard (OCC), wood, metals, glass, textiles, food organics, containers, and other materials.



CP OCC Auger Screen



CP Drum Feeder



CIRRUS® FiberMax™ Optical Sorter



CIRRUS® PlasticMax™ Optical Sorter

## KEY TECHNOLOGIES

Metering Equipment

Auger Screens

Disc Screen Equipment

Magnetic Separation

Air Separation Equipment

Trommel Separation Equipment

Optical Sorting Equipment

Bailing Equipment

Advanced MRF Controls

Vivid AI™



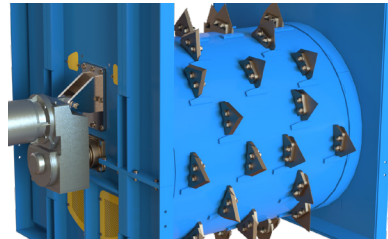
25 TPH Residential & Commercial Recovery System

# Key CP Technologies

## CP Drum Feeder with Knife Option

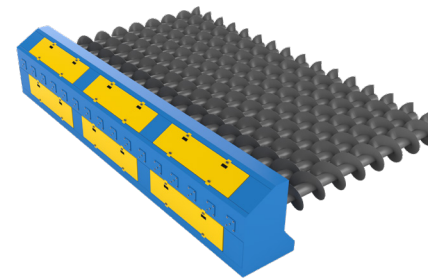


Breaks and fluffs up material. Optional knives can be used to open bags and break up green waste.

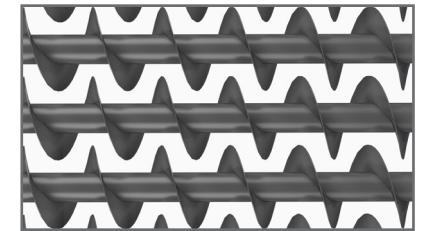


- Applications:
- Commercial and Industrial
  - Municipal Solid Waste
  - Single Stream
  - Green Waste

## CP Auger Screen™

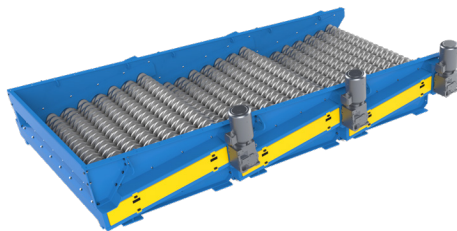


Sizes material using a series of patented non-round cantilevered steel augers that do not wrap or jam, requiring very low-maintenance.

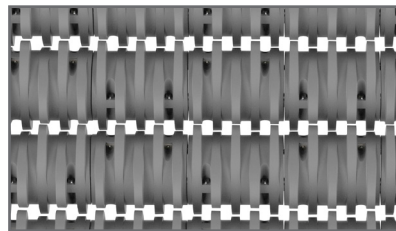


- Applications:
- Commercial and Industrial
  - Municipal Solid Waste
  - Single Stream
  - Construction and Demolition
  - Green Waste and Organics

## 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.



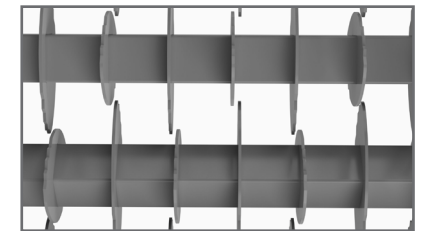
*Disc Pattern: 2" x 2" openings*

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

## CP OCCScreen™



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

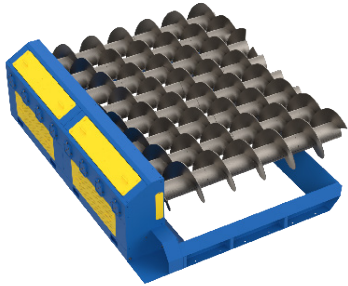


*Disc Pattern: 8.75" x 10.7" openings*

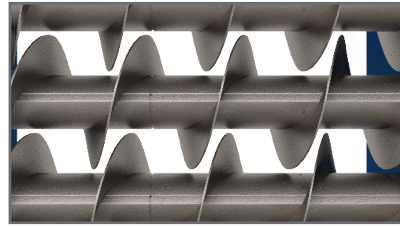
- Applications:
- Commercial and Industrial
  - Single Stream



## CP OCC Auger Screen™



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



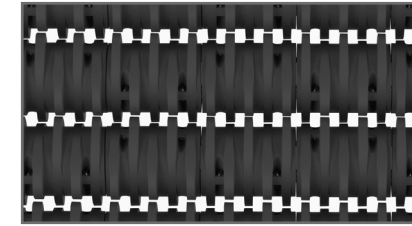
Applications:

- Commercial and Industrial
- Municipal Solid Waste
- Single Stream

## CPScreen™



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

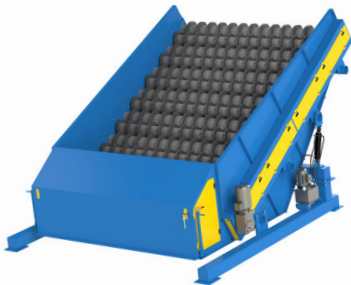


*Disc Pattern: 2" x 2" openings*

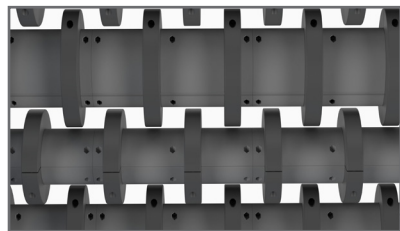
Applications:

- Commercial and Industrial
- Municipal Solid Waste
- Single Stream

## CP Wrap-Resistant NEWScreen™



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

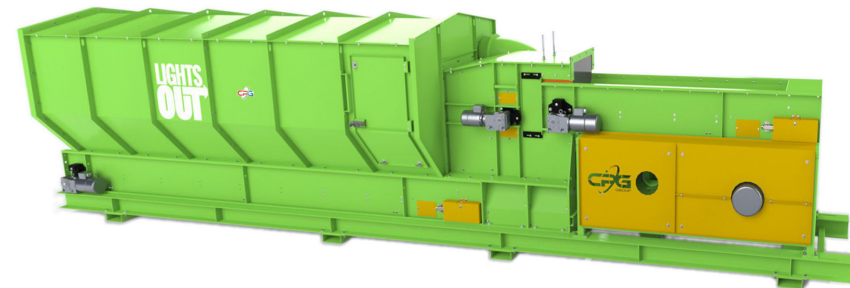


*Disc Pattern: 3" x 3" openings*

Applications:

- Commercial and Industrial
- Municipal Solid Waste
- Single Stream

## 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
- MRF Glass
- C&D

# Key MSS Optical Sorting Technologies

## CIRRUS® FiberMax™

MSS's newest generation optical sorter for fiber applications positively sorts a wide variety of materials to enhance fiber product quality and decrease manual sorters on the fiber QC line. FiberMax™ features a full-spectrum high resolution NIR, color and metal sensor that is capable of identifying and accurately sorting fiber material at speeds up to 1,000 FPM (5m/sec).

### Applications:

- Positively sort contaminants and OCC from ONP and Mixed Paper
- Positively sort SOP
- Positively sort Mixed Paper
- Commercial and Industrial



## CIRRUS® PlasticMax™

The industry's most efficient optical sorter for containers and plastic recovery, PlasticMax™ accurately identifies and recovers the most challenging materials, such as short fills, labels, and PET-G.

### Applications:

- Commercial and Industrial
- Construction and Demolition
- Plastic Bottles
- Paper + Cardboard
- Beverage Cartons
- MSW/RDF
- MRFs

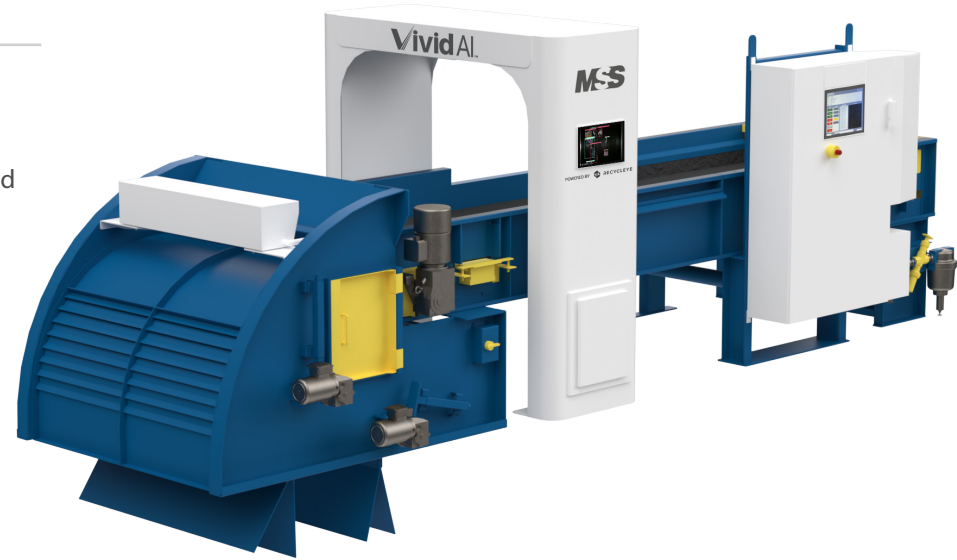


## MSS Vivid AI™

VIVID AI is a powerful sortation machine, detecting and sorting more classes of material than ever. Combining Recycleye AI and MSS system capabilities, VIVID AI handle material classifications not previously possible. Pair the right detection method with the right extraction method: Vivid Air™, Vivid Bot™ and Vivid Vision™.

### Applications:

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



## MetalMiner™

Sorts ferrous, non-ferrous, and stainless steel particles down to 1mm in size. An induction-based true all-metal sensor, MetalMiner™ can be configured in a conveyor or slide setup. The sensor resolution is tailored to the specific processing application.

### Applications:

- Commercial and Industrial
- Municipal Solid Waste
- Single Stream





[www.cpggrp.com](http://www.cpggrp.com)