



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



# About CP Group

CP Group is comprised of 4 industry-proven brands with over 155 years of combined company experience. With hundreds of Material Recovery Facilities designed and installed worldwide, CP Group has established itself as a pioneer in the waste and recycling industry and the go-to single source solution.

We specialize in innovative equipment that lasts, integrated MRF designs, safety, continuous process innovation, and exceptional customer service for operator success.

CP Group understands Material Recovery Facilities. As the trusted global leader in system engineering, manufacturing, and installing, we ensure sustainable profitability for project owners and partners.

We are unique among equipment vendors in that we own and operate a MRF in San Diego, CA, which serves as an R&D facility where we put our new innovations to test.



# CP Design Philosophy

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 philosophy is "Fractionate, Liberate, Separate."

## Fractionate

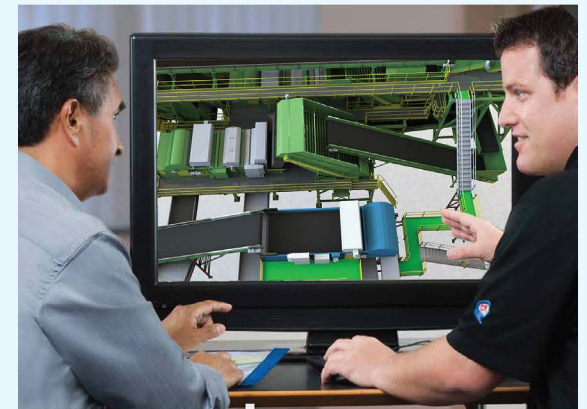
for size and density separation

## 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.



# 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.



# 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.





# 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
- Disc Screen Equipment
- Magnetic Separation
- Optical Sorting Equipment
- Air Separation Equipment
- Baling Equipment
- Advanced MRF Controls



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.

## KEY TECHNOLOGIES

Metering Equipment

Disc Screen Equipment

Magnetic Separation

Trommel Separation Equipment

Optical Sorting Equipment

Baling Equipment

Advanced MRF Controls



CP Metering Drum



CPScreen™



MSS CIRRUS® Optical Sorters



AMRF Controls



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

Heavy Duty Conveyors

Disc Screen Equipment

Magnetic Separation

Optical Sorting Equipment

Air Separation Equipment



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.



CPScreen™



CP Drum Feeder



CIRRUS® FiberMax™ Optical Sorter



CIRRUS® PlasticMax™ Optical Sorter

## KEY TECHNOLOGIES

- Metering Equipment
- Disc Screen Equipment
- Magnetic Separation
- Air Separation Equipment
- Trommel Separation Equipment
- Optical Sorting Equipment
- Baling Equipment
- Advanced MRF Controls



70 TPH Residential & Commercial Recovery System



# Key CP Technologies

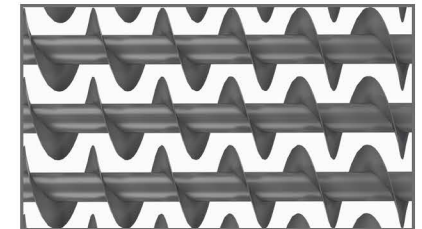
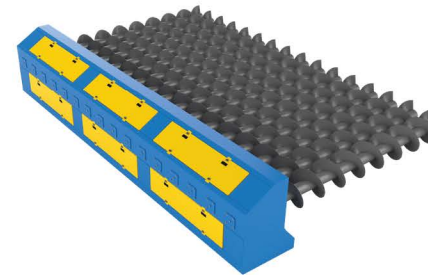
## CP Drum Feeder with Knife Option



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

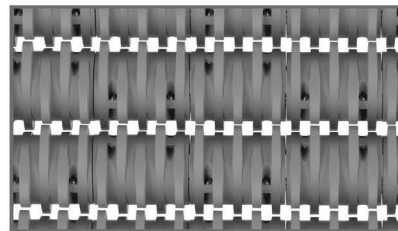
## CP Auger Screen™



Sizes material 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
  - Municipal Solid Waste
  - Single Stream
  - Construction and Demolition

## CP Glass Breaker/Fines Screen

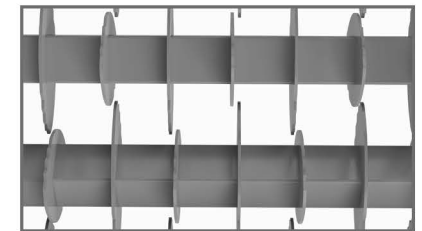


Disc Pattern: 2" x 2" openings

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
  - Municipal Solid Waste
  - Single Stream
  - Construction and Demolition
  - Green Waste

## CP OCCScreen™



Disc Pattern: 8.75" x 10.7" openings

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

- Applications:
- Commercial and Industrial
  - Single Stream



## CP Scalping Screen



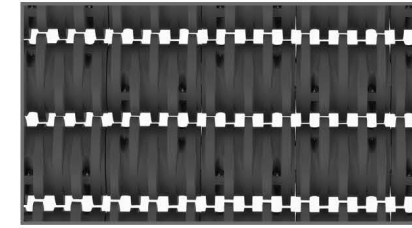
Disc Pattern: 4" x 7" openings

Uses steel discs to size smaller containers, small fiber, and fines from larger containers and fiber.

Applications:

- Commercial and Industrial
- Municipal Solid Waste
- Single Stream

## CPScreen™



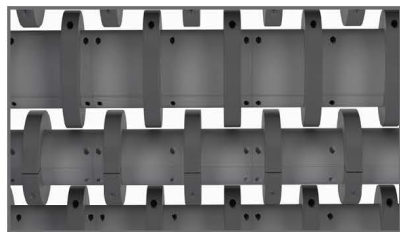
Disc Pattern: 2" x 2" openings

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

Applications:

- Commercial and Industrial
- Municipal Solid Waste
- Single Stream

## CP Wrap-Resistant NEWScreen™



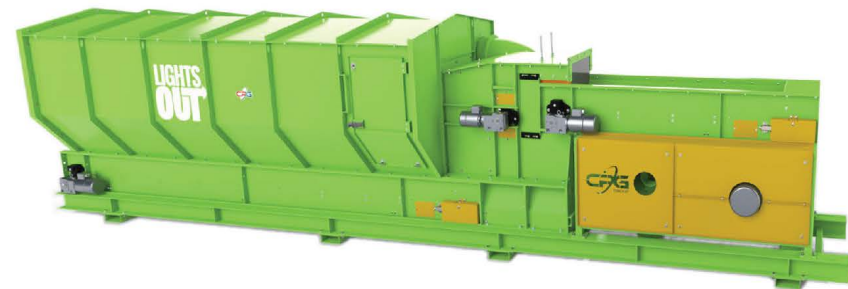
Disc Pattern: 3" x 3" openings

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

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





## L-VIS®

Using an ultra high-resolution color camera system and illuminated background reference, L-VIS® is capable of sorting by size and shape, with color sorting applications. For electronic scrap applications, a proprietary algorithm is available for the detection of wires in electronic scrap.

Applications:

- Electronic Scrap
- Metal Scrap
- Plastic Flake and Pellets
- Other Small Particle Applications



## 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







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