



WORLD LEADER IN SEPARATION TECHNOLOGY

OUR COMPANY

With over 155 years of combined company experience, CP Group has established itself as a pioneer and leader in the field of recycling equipment and waste management solutions.

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. More importantly, being an operator of this 20 TPH single stream facility gives us key insight into our customer's perspective—insight other equipment vendors don't have. We are committed to helping you run a successful operation by providing durable, dependable, and innovative equipment paired with ongoing customer support.

OUR PEOPLE

The waste and recycling industry demands durable equipment, proactive innovation, and professional service. Our most valuable asset is our dedicated staff of over 300 specialized professionals who regularly deliver, and exceed, industry expectations. Meeting complex demands across the globe, our team is committed to continuous innovation, equipment longevity, and customer success.

OUR FOCUS

- Long-term customer success
- Customer relations
- Continuous innovation (R&D)
- Equipment safety
- Ethical business practices
- International growth
- Exceeding expectations

OUR BRANDS

CP Group is comprised of 4 industry-proven brands and provides the waste and recycling industry a single source solution for Material Recovery Facilities and equipment.



CP Manufacturing

- Material recovery facilities
- Waste management solutions



MSS

- Optical sorting technology



Advanced MRF

- Electrical controls
- Automated solutions



Krause Manufacturing

- C&D solutions

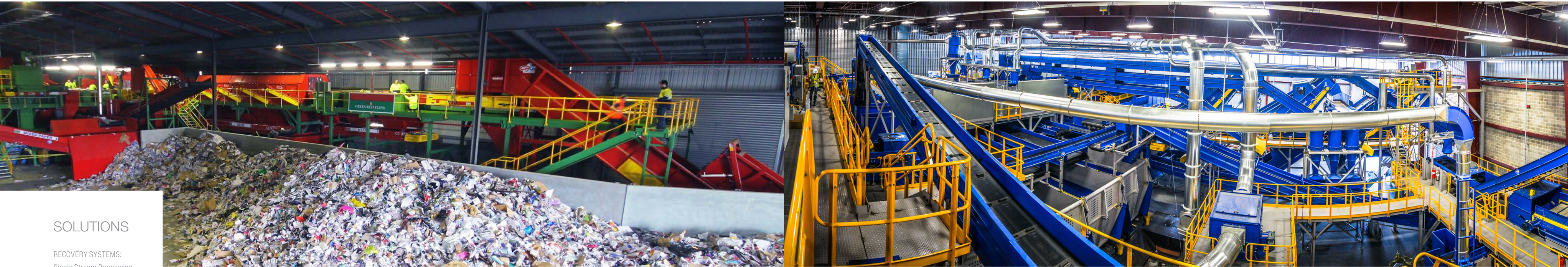
Solutions for Material Recovery Facilities

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 specialize in safety, continuous process innovation, durable equipment, integrated solutions, and exceptional customer service for operator success.

With over 400 Material Recovery Facilities designed and installed worldwide, we bring a depth of experience and expertise to every project.





SOLUTIONS

RECOVERY SYSTEMS:
 Single Stream Processing
 Municipal Solid Waste
 Waste to Energy Front-End
 Commercial and Industrial
 Construction and Demolition
 Electronic Waste Processing
 Retrofit Solutions

SERVICES:
 Engineering Services
 System Auditing
 System Integration
 Electrical Engineering

Keeping Green in the Black

CP Group will help you keep your green operations in the black. For nearly four decades, we have provided our customers practical, highly efficient solutions for their operations. Our equipment is engineered for the least amount of maintenance possible. We design our systems and equipment for safe operations. Our electrical controls division monitors your equipment and provides advanced diagnostics and real time data to maximize operational efficiency. Our after-sales service team provides lifetime support for all our equipment. CP Group's business model is built around your profitability. Your success is our first priority.

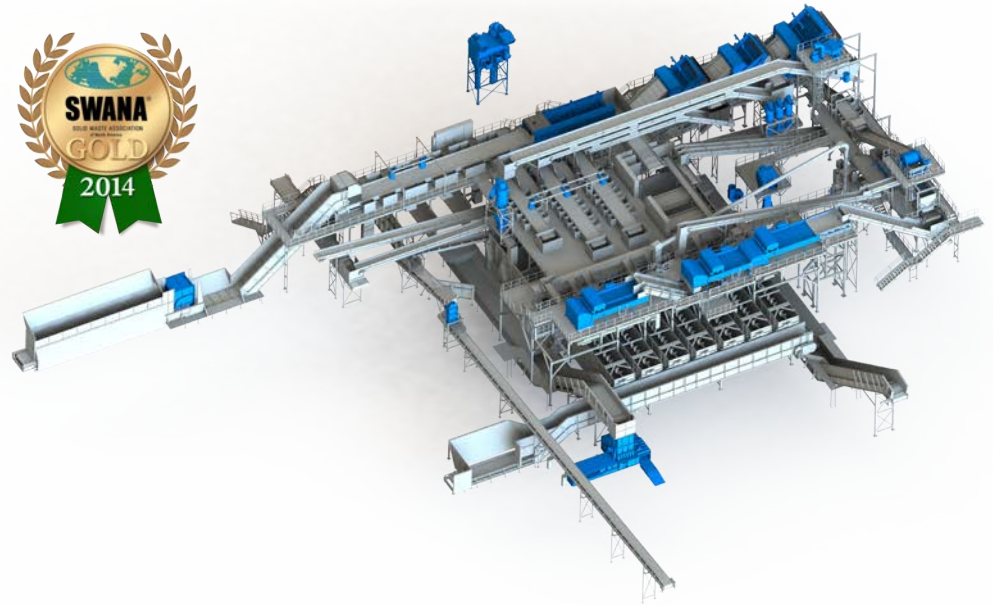
Maximized Performance

We understand that your operation is unique. Material Recovery Facilities come in various sizes with differing equipment based on material type, tonnage, and operational goals. CP Group's system 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 and engineers provide solutions that yield proven results.

Award Winning System Design

The 2014 SWANA Recycling Excellence Gold Award went to the North Texas Recycling Complex, designed, built, and installed by CP Group. This industry-recognized, award-winning system handles materials collected from more than 350,000 households in communities around the Dallas-Fort Worth area.

The MRF processes 35 tons per hour for residential materials and 20 tons per hour for commercial materials. The plant was designed to recover 95% of the targeted recyclable materials going through the sorting system, and it is exceeding that goal.





BENEFITS OF ADVANCED MRF SOLUTIONS

- Increased up-time through real time dashboards
- Preventive maintenance
- Performance monitoring
- Seamless data acquisition
- Remote troubleshooting
- Energy efficiency
- Video surveillance
- Integrated diagnostics

The Intelligent MRF

Advanced MRF, a Siemens Solution Partner in automation, and the controls division of CP Group, offers the industry's most advanced Industrial Control Panels and Office Interface System (SCADA) for your operation. Our i-MRF™ (intelligent MRF) acts as the brains of your system, providing seamless data-acquisition, control of processing equipment across the plant floor, real-time reporting, and integrated diagnostics.



Electrical Service & Maintenance

In addition to our full range of high-tech products, Advanced MRF offers a team of experienced personnel to provide service and continuing education to all our customers:

- Electrical audits, performed by our experienced technicians, providing a thorough analysis of your system
- Training focused on proper operation, cleaning, and repairs
- Integrate new equipment into existing systems
- Advanced diagnostics
- Real-time troubleshooting



ADVANCED OIS FEATURES

- Displays real-time production values
- Measures real-time throughput with belt scales
- Identifies causes of downtime
- Prompts scheduled maintenance
- Power consumption monitoring
- Integrated camera systems
- Preset process recipes
- Highly scalable to meet any operator needs

Office Interface System

The Advanced MRF Office Interface System (OIS) is Supervisory Control and Data Acquisition (SCADA) technology for MRF operations. The OIS allows facilities to maximize run-time, throughput, and material quality by providing the information operators and managers need to identify causes of downtime. Monitoring real-time run data and reviewing daily reports allows plant managers to stay on track and meet monthly production goals. Advanced MRF engineers provide assistance and training to help you design custom reports to fit the operational needs of your MRF.

Solution
Partner

Automation

SIEMENS



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.

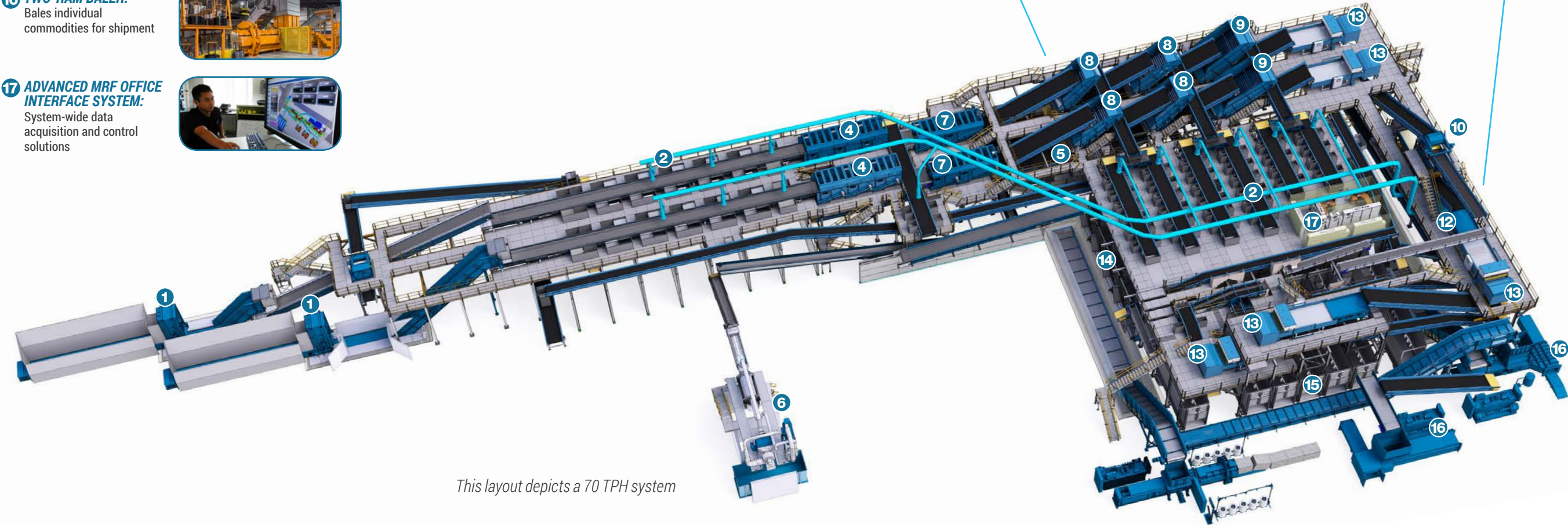
- 1 DRUM FEEDER:**
Provides uniform material flow to the downstream pre-sort line
- 2 FILM VACUUM SYSTEM:**
Collects and transports plastic film
- 3 SCREW COMPACTOR:**
Compacts all collected plastic film into long tubes
- 4 OCCSCREEN™:**
Removes and recovers large OCC (cardboard) from other materials



- 5 GLASS BREAKER SCREEN:**
Breaks and separates glass and other small materials
- 6 GLASS CLEAN-UP TROMMEL:**
Separates glass from fines
- 7 SCALPING SCREEN:**
Separates material by size and shape
- 8 NEWSCREEN™:**
Sorts 2D large and medium fiber from 3D containers
- 9 CPSCREEN™:**
Sorts 2D small fiber from 3D containers
- 10 DRUM MAGNET:**
Separates and recovers steel from other materials
- 11 EDDY CURRENT SEPARATOR:**
Separates and recovers aluminum
- 12 VIBRATORY FEEDER:**
Spreads out material to "feed" the optical sorters



- 13 CIRRUS™ OPTICAL SORTER:**
Sorts and recovers mixed plastics and cartons
- 14 FIBER BUNKER:**
Holds sorted fiber before baling
- 15 LIVE FLOOR SILO:**
Holds sorted containers before baling and uses screw augers
- 16 TWO-RAM BALER:**
Bales individual commodities for shipment
- 17 ADVANCED MRF OFFICE INTERFACE SYSTEM:**
System-wide data acquisition and control solutions



This layout depicts a 70 TPH system



McMRF

For years, the McMRF™ has been known throughout the industry for compact design and big performance. The McMRF™ is CP Group's answer to the industry's need for smaller systems with many of the benefits of larger facilities. Built from the highest quality machinery, the McMRF™ delivers excellent recovery rates and material quality. Modular and scalable, the McMRF™ is an affordable solution that is designed to fit your material-recovery needs and space requirements.

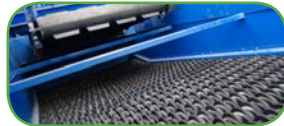
1 OCCSCREEN™:
Removes and recovers large OCC (cardboard) from other materials



2 GLASS BREAKER SCREEN:
Breaks and separates glass and other small materials



3 CPSCREEN™:
Sorts 2D small fiber from 3D containers



4 INLINE OVERBELT MAGNET:
Efficiently separates ferrous material



5 EDDY CURRENT SEPARATOR:
Separates and recovers aluminum



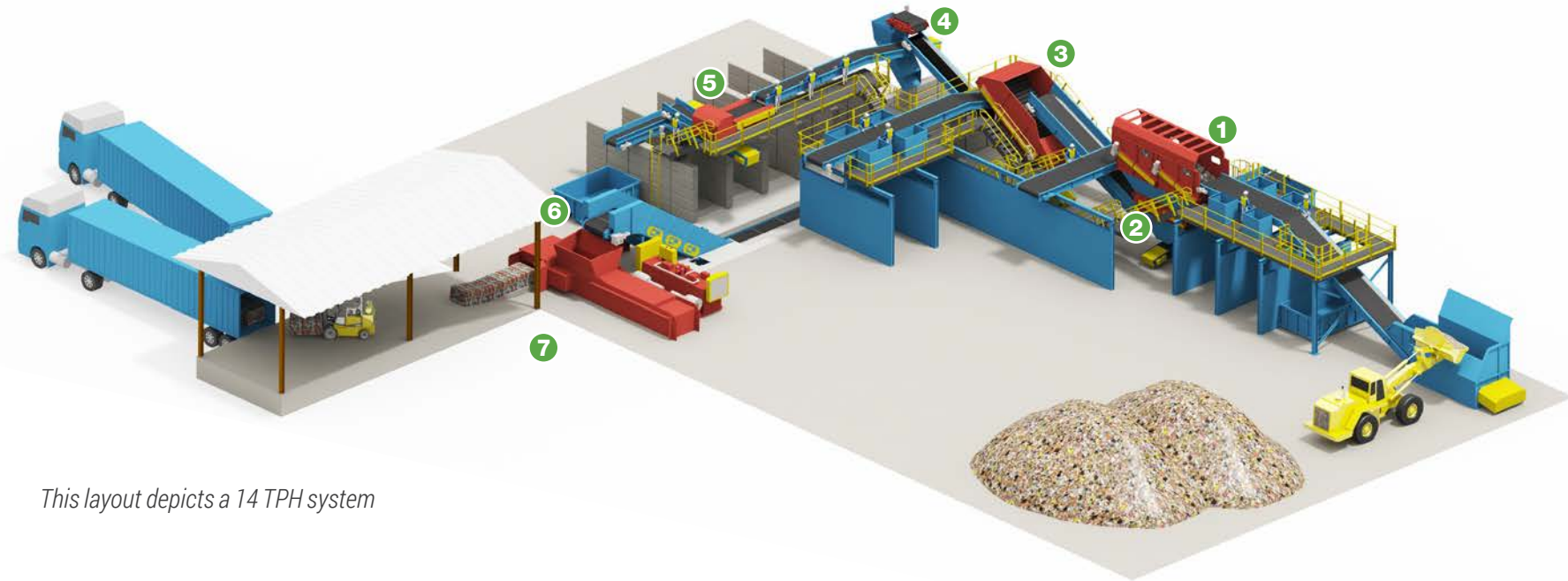
6 TWO-RAM BALER:
Bales individual commodities for shipment



7 ADVANCED MRF INDUSTRIAL CONTROLS:
System-wide controls



MSS ALADDIN™ OPTICAL SORTER:
(Optional) Efficiently sorts plastics by color and resin type



This layout depicts a 14 TPH system

E-Waste

Electronic waste (E-waste) is one of the fastest growing segments of waste generated by the United States. With new technologies emerging at a rapid pace, outdated computers, cell phones, monitors and laptops are being discarded and are ready for "end-of-life management." E-waste contains a variety of extremely valuable metals and plastics. E-waste also contains hazardous materials that must be disposed of properly. Due to the inconsistent nature of the materials, E-waste recycling presents several unique challenges, to which CP Group offers innovative recycling and recovery solutions.

1 INCLINED INFEED CONVEYOR:
High-quality, durable conveyor.



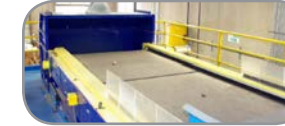
2 SHREDDER:
Heavy-duty and high-efficiency shredding of electronic scrap



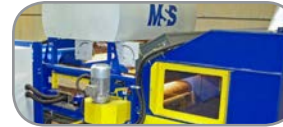
3 OVERBELT MAGNET:
Powerful magnet efficiently separates ferrous material



4 EDDY CURRENT SEPARATOR:
Separates and recovers aluminum



5 CIRRUS™ OPTICAL SORTER:
Sorts and recovers all mixed plastics and metals



6 INFEED TIPPER:
Tips material into the stream midway through the system.



7 ADVANCED MRF INDUSTRIAL CONTROLS:
System-wide controls



MSS METALSORT™:
(Optional) Sorts ferrous, non-ferrous, and stainless steel particles



MSS L-VIS™ OPTICAL SORTER:
(Optional) Separates plastics, e-scrap fines, and metal scrap by color and shape



This layout depicts a 8 TPH system



MSW

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.

CP's MSW recycling systems can be used as front-end separation systems for waste-to-energy technologies. Our equipment makes it possible to extract recyclables at the highest recovery rates and produce the specific feed required for energy conversions, while removing harmful contaminants.

1 SHREDDER:
Heavy-duty and high-efficiency shredding for large quantities of MSW material



2 METERING DRUM:
A heavy duty rotating drum preventing surges of material and providing even material feed.



3 TROMMEL:
Uses a revolving screened cylinder to separate material by size; optional knife sections open bags



4 DRUM MAGNET:
Separates and recovers steel from other materials



5 EDDY CURRENT SEPARATOR:
Separates and recovers aluminum



6 TWO-RAM BALER:
Bales individual commodities for shipment



7 ADVANCED MRF OFFICE INTERFACE SYSTEM:
System-wide data acquisition and control solutions



This layout depicts a 50 TPH system



Commercial & Industrial

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.

Our C&I systems can act as front-end systems waste-to-energy technologies, customized to separate high-energy materials like fiber and film.

Whatever your needs and specifications, CP Group's C&I systems ensure your business recovers the maximum amount of valuable commodities.

This layout depicts a 30 TPH system

1 METERING DRUM:
A heavy duty rotating drum preventing surges of material and providing even material feed



3 CPSCREEN™:
Sorts 2D small fiber from 3D containers



4 DRUM MAGNET:
Separates and recovers steel from other materials



5 CIRRUS™ OPTICAL SORTER:
Sorts and recovers mixed plastics and cartons



7 TWO-RAM BALER:
Bales individual commodities for shipment



2 TROMMEL:
Uses a revolving screened cylinder to separate material by size; optional knife sections open bags



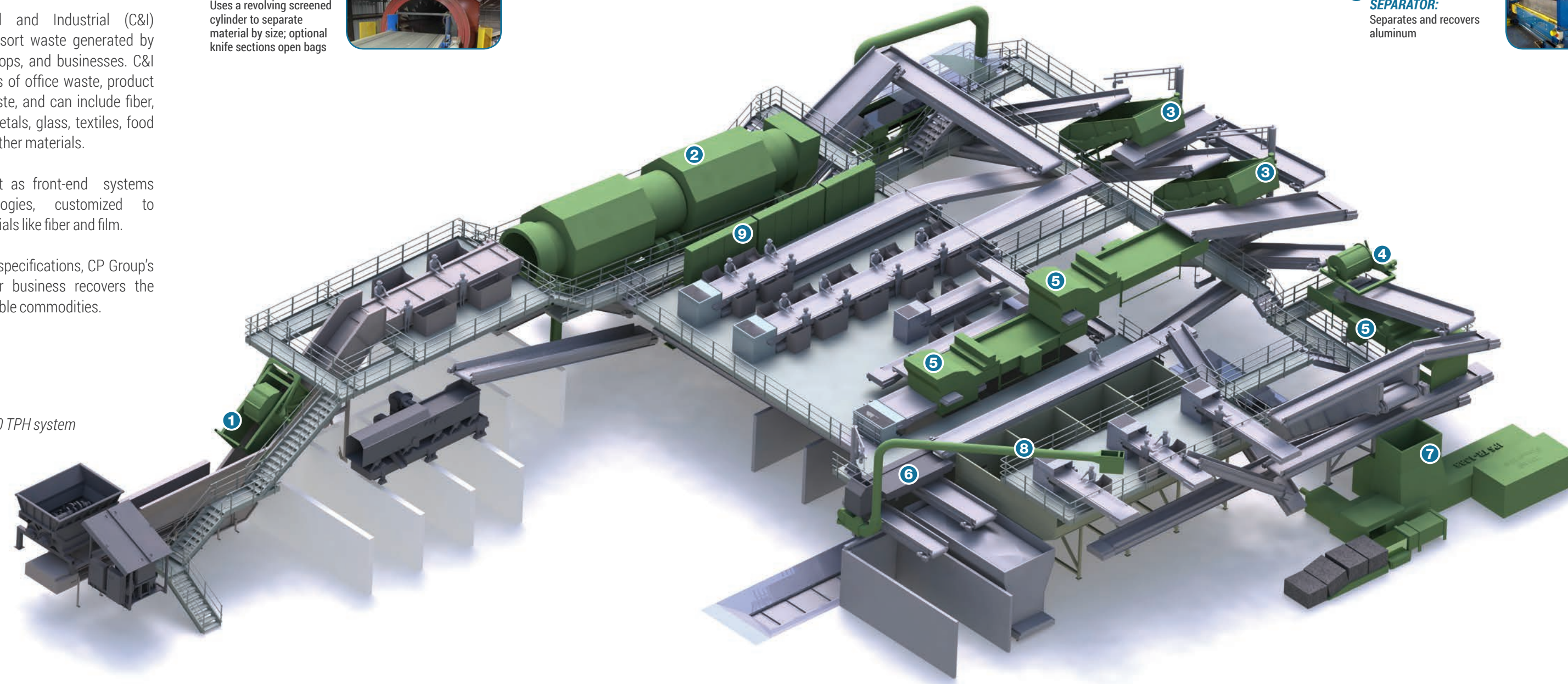
6 EDDY CURRENT SEPARATOR:
Separates and recovers aluminum



8 CP SILO BLOWER:
Eliminates need for multiple conveyors by transferring "lights"



9 ADVANCED MRF OFFICE INTERFACE SYSTEM:
System-wide data acquisition and control solutions



Construction & Demolition

Processing C&D requires extremely resilient equipment. CP Group's Construction and Demolition (C&D) recycling systems are built to endure the most punishing conditions. CP Group custom-designs durable C&D recycling systems by combining heavy-duty conveyors with automated screening technology. Our C&D systems are built to handle concrete, wood, metals, glass, fibers, plastics, and other salvaged building components.

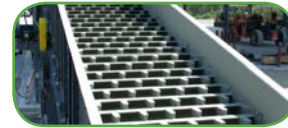
1 INFEED CONVEYOR:
Durable conveyor feeds system



4 FINES SCREEN:
Aggressive sizing screen to remove fines and glass



2 SHAKER SCREEN:
Vibratory action provides efficient size separation



5 HIGH CAPACITY DRUM AIR KNIFE:
Removes fibers, plastics, foil and other "lights" from the stream



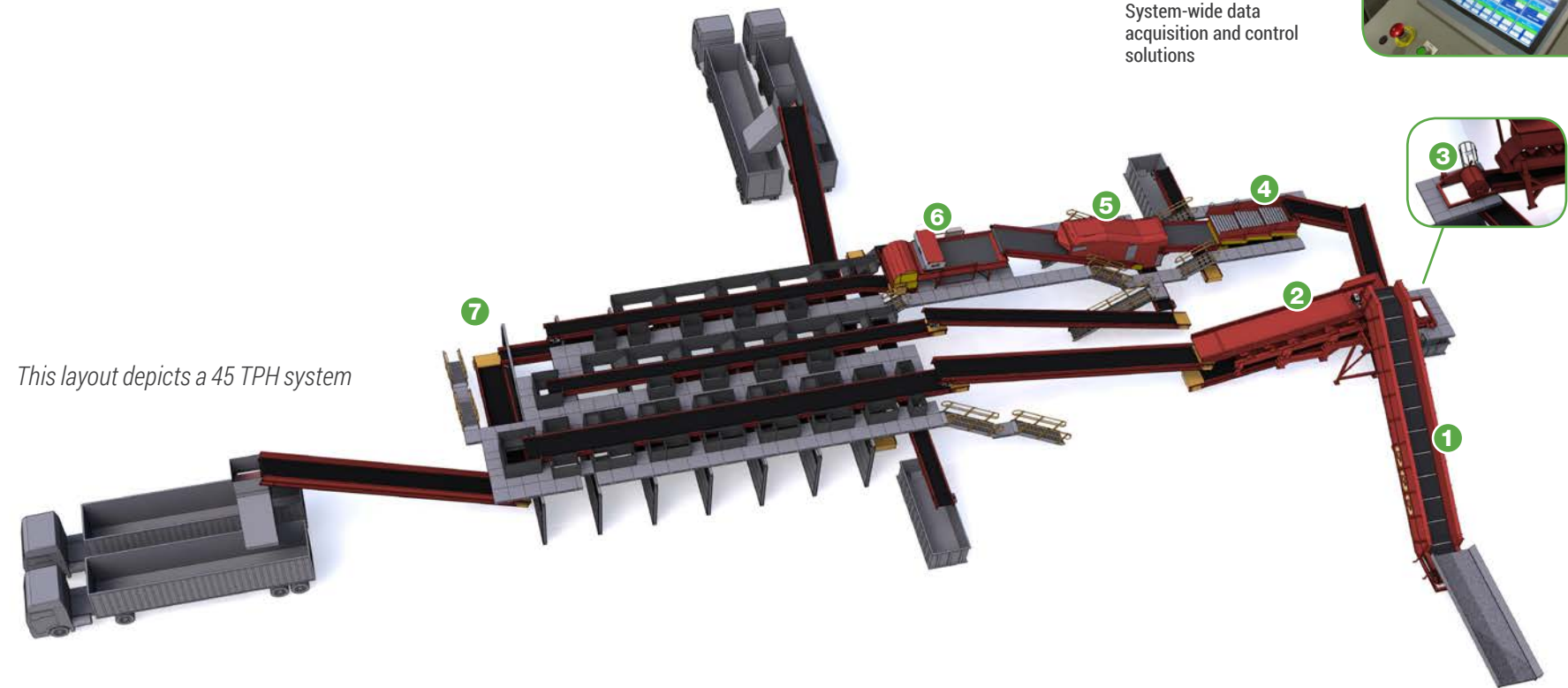
3 DRUM MAGNET:
Separates and recovers steel from other materials



6 CIRRUS™ OPTICAL SORTER:
Sorts and recovers grades A and B wood, and mixed plastics



7 ADVANCED MRF OFFICE INTERFACE SYSTEM:
System-wide data acquisition and control solutions



This layout depicts a 45 TPH system



Super Portable

CP Group's Super Portable is capable of handling the grizzliest C&D separation applications, and yet it sets up easily on virtually any surface and requires minimal pre-installation investment. Because the C&D Super Portable is manufactured in large sections and set up on a series of skids and axle frames, it can be installed quickly and easily on any level surface: gravel, pavement, concrete, or dirt.

The dependable C&D Super Portable system provides recyclers with years of cost savings and low-maintenance operation. The Super Portable helps you achieve reduced man-hours, higher throughput, lower costs, and an increase in marketable end-products.

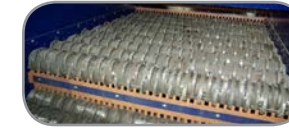
1 INFEED CONVEYOR:
Durable conveyor feeds system



4 SORT CABIN:
Contains the sort stations with optional enclosure



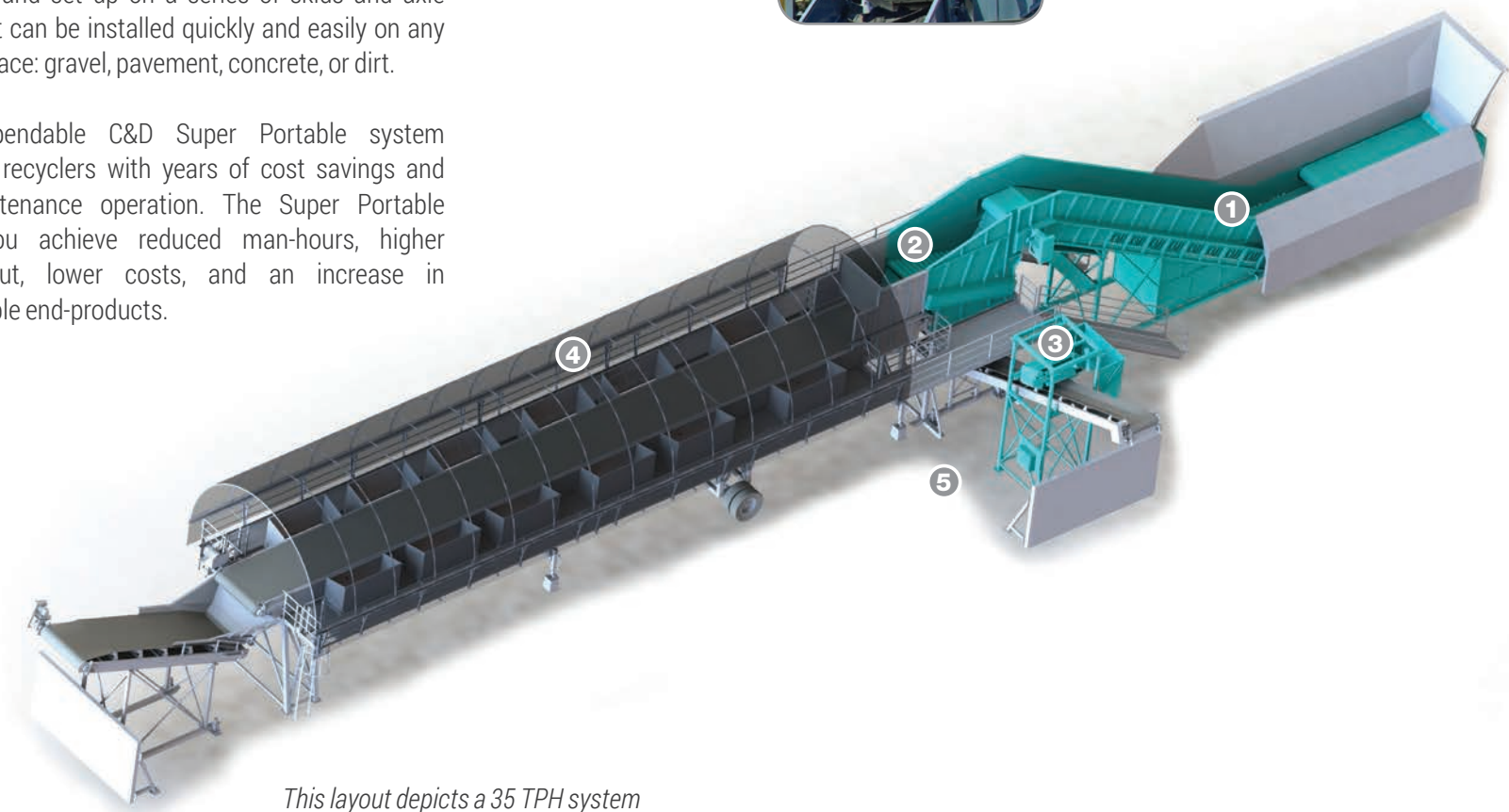
2 FINES SCREEN:
Aggressive sizing screen to remove fines and glass



5 ADVANCED MRF INDUSTRIAL CONTROLS:
System-wide controls



3 OVERBELT MAGNET:
Powerful magnet separates ferrous material

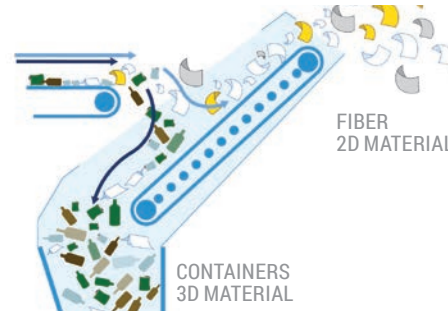


This layout depicts a 35 TPH system

Separation Equipment

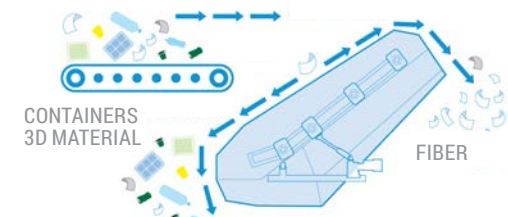
CPScreen™

- Separates small fibers from containers, and 2D from 3D material
- Small screen openings minimize loss of small fibers to container line, maximizing capture rate
- Belt-driven discs resist jamming and wrapping
- High throughput, low maintenance



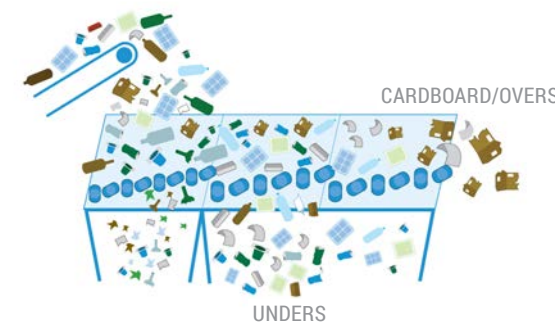
NEWScreen™

- Separates large fiber (ONP) from mixed paper, containers, debris, as well as 2D from 3D
- Patented rubber finger discs accurately size material for increased recovery rates
- Lowest disc cost per ton of material
- Designed for reduced wrapping



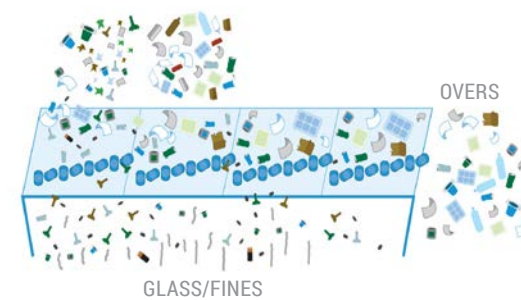
OCCScreen™

- Effectively separates old corrugated (OCC) from other mixed fiber, containers, and debris
- Aggressive steel discs separate both by size and rigidity
- Discs specially engineered to have consistent spacing at all points to prevent jamming



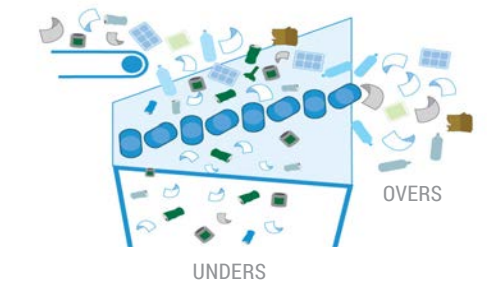
Glass Breaker Screen™

- Steel alloy discs break and separate glass as well as fines
- Longest lasting discs in the industry
- Low operating cost, reduced wrapping
- Small openings minimize loss of aluminum and PET



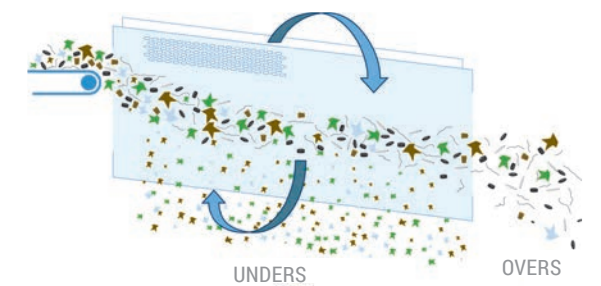
Scalping Screen

- Size-separates material, allowing subsequent separation machines to work more efficiently
- Small containers can be routed past ONP screens
- Large containers can be routed past eddy current separator
- Low maintenance screen, long lasting discs



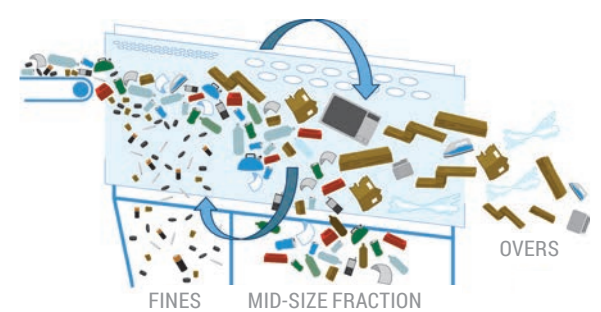
Glass Trommel Screen

- Separates fines from large and medium glass
- Retractable cover for easy maintenance
- Dual barrel option decreases space requirements
- Heavy-duty urethane direct-drive wheels
- Customizable screening options up to 4 splits



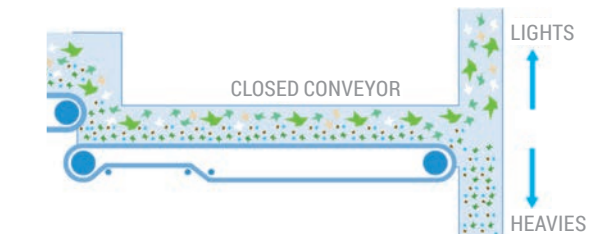
Trommel Screen

- Separates material by size and shape
- Processes MSW, C&I, and C&D material, with bag opening option
- Increases system throughput capacity
- Options for brush or air cleaning system
- Heavy duty design, built for low maintenance



Glass Clean-Up System

- Efficiently separates lights from glass, maximizing glass end-product quality
- Urethane wear liners increase durability and extend equipment life
- Adjustable vacuum system for best accuracy



Optical Sorting

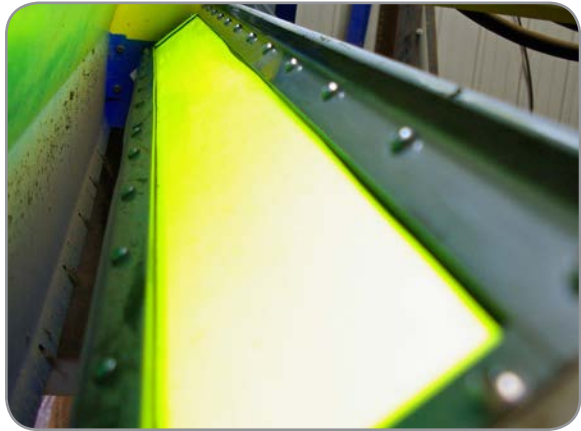
For over 40 years, CP Group’s optical division, MSS, has been the leading specialist in sensor-based sorting. We develop sensor hardware and software in-house and provide top-of-the line optical sorters that achieve highly efficient separation. MSS was the first to develop and integrate the concept of **in flight detection**, over 15 years ago.

Optical sorters increase your bottom line by eliminating manual labor costs, boosting system efficiency, recovering high-quality product, and increasing worker safety.

MSS offers the most efficient and advanced technology for automated sorting while providing continuous support for guaranteed success and equipment longevity.

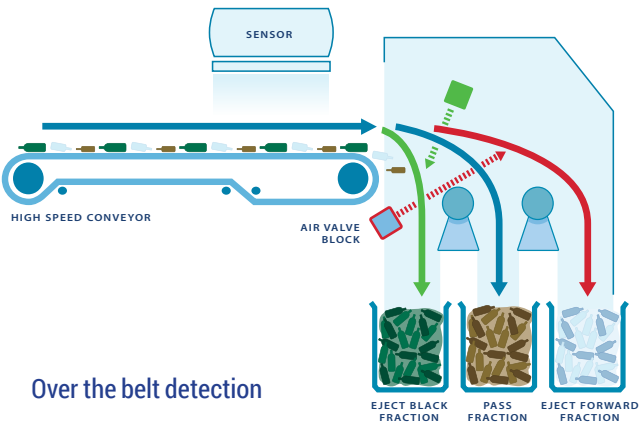
MSS Optical Sorters:

- CIRRUS™
- L-VIS™
- Alladin™
- Sapphire™
- FiberSort™
- MetalSort™
- Glass ColorSort™

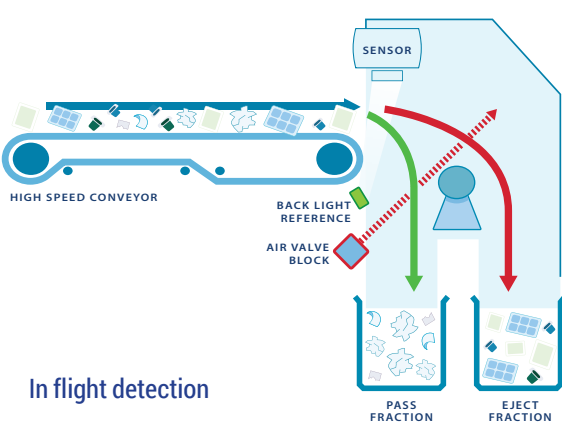


BACK LIGHT REFERENCE

Both the CIRRUS™ and L-VIS™ have the ability to change the back light reference (shown left) to optimize sorting for various applications. This is a break-through innovation, taking optical sorting to the next level of accuracy and capability.



Over the belt detection



In flight detection

APPLICATIONS

- Plastics
- E-scrap
- Paper
- Metals
- Glass
- RDF
- C&D
- Biomass
- MSW
- C&I



Safety

Providing safe equipment and systems for your operation is our number one priority. Years of research and development are spent with each piece of equipment, fine-tuning them for high efficiency and results while ensuring safe access for your personnel. Maintenance is a key component of all operations, and although CP Group provides low-maintenance equipment, regular maintenance is always recommended for best results. When your staff needs equipment access, we make sure it is as safe as possible. Here are some of the key features of our equipment to ensure this:

- All disc drives on screens have brake motors with locking hand release levers. Brakes activate when power goes off, locking rotors, which can't turn when personnel are walking on them.
- Lanyard anchorage connectors wrap around I-beams and other structures to support workers during maintenance mode. Crossbars above the rotors provide valid anchor points.

CP's corporate policy of openness and willingness to listen to customers and industry partners is a key factor in their success in building a system that has, over the years, continuously improved worker safety and efficiency. I am pleased to see CP continuously focus on incorporating safety principles into their equipment design. I look forward to seeing what's next from them.

—Susan Eppes, President, EST Solutions

- Trapped key interlocks (lock-out tag-out) are used to ensure safe access to potentially live equipment. A safe sequence of operations is enabled through transfer of keys that are either trapped or released in a predetermined order. With the double key system, the machine cannot be started while the doors are unlocked.
- The CPScreen™ and NEWScreen™ contain a fold-down service platform to access rotors. The floor is moved by hydraulic cylinders, and can only be unfolded when the screen is in its lowest position, or maintenance mode. This system eliminates the risk of falling during maintenance.
- Optional safety fences surround the ground level of the plant and are locked during operation. Access to the ground floor beneath the sorting equipment is limited to authorized employees with keys during operation, which significantly reduces associated safety hazards.



Customer and Project Partner Feedback



"I am really impressed with this project (Burlington County). This operation was something very special. The installation of the equipment was very professional and the way the machinery operated was amazing. I think the County has something here they can be proud of. It was a great team effort on the part of CP Group, who built the system in a plant 3000 miles away, shipped it across the country, and put it together here, expertly fitting it into the building. I would like to thank everybody for the wonderful experience and to a job well done. I think we all can be proud of what we were able to do."

—Joe Gould, Vice President, DEC Electrical Contractors

"Throughout the design process CP focused on our final goal, the delivery of a state-of-the-art facility in the heart of London. CP's approach to being our partner in the development of the project from day one ensured that the design focused on the key performance deliverables, quality and reliability, throughout the design stage of the project."

—Neil Arlett, Former Divisional Engineering Manager, Biffa

"Now that the Burlington County MRF project is complete, we wanted to take this opportunity to commend the entire CP Group team that worked on our project. From the beginning to end they all were extremely professional, excellent at problem solving and followed through on commitments. We look forward to working with CP again in the near future."

—Christopher Nugent, Dandrea Construction Co., Inc.

"I have a very close working relationship with the team at CP Manufacturing. I have been working with CP for a little over a decade and continue to work with them because of the responsiveness of their team and the effectiveness of their equipment. We take great pride in shipping out clean end-products, and CP helps us achieve that."

—Joe Lewandowski, Plant Manager, ReCommunity

"We are very happy with the purchase of our e-Sort optical sorting unit, it provides us with consistently high separation efficiency. In addition, MSS provides us with great service and support whenever we require it."

—Darrel Schmidt, Owner, DCal Services LLC

"As a facility manager of a high volume single stream MRF, and now as a Region Manager, I am a big advocate of CP Group. They've always been very responsive to all of my needs. I'm very impressed with their customer service and the training they supply to ensure a facility's successful start-up and long-term operation. I know how much the entire CP team cares about our success."

—Ron Santos, Northeast Regional Manager, ReCommunity

"We are very pleased with our relationship with the Krause team and enjoy working with them. The equipment and system are running extremely well. Our facility was designed to be fast and efficient for our customers- and it is. Their Electrical Division, Advanced MRF, helped remotely and got us back up and running very fast- we were very impressed, and relieved. We would work with Krause again in a heartbeat!"

—Randall Baker, General Manager, Abbey Green



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