



CP GROUP
6795 Calle de Linea
San Diego, CA 92154
619-477-3175 | 800-462-5311
www.cpgrp.com

Dem-Con Retrofits MRF with Four MSS CIRRUS® Optical Sorters

New equipment has resulted in increased recovery and quality while reducing operations costs



SAN DIEGO, CA (March XX, 2019) – Between summer 2017 and 2018, [Dem-Con Materials Recovery](#), Shakopee, MN, retrofitted their single stream MRF with three new MSS CIRRUS® optical sorters from CP Group. Another MSS CIRRUS® sensor is currently in production and will install this summer.

The three MSS CIRRUS® optical sorters installed pertain to fiber. The units increase recovery, improve product quality and reduce sorter headcount on the fiber QC.

“The result of the retrofit has been that we are able to diversify and solidify our end markets while decreasing our operations costs. We are able to establish a high quality reputation in the market for selling paper. We have also realized the ability to recover cleaner containers from the paper screen and maximize the container value,” stated Mark Pahl, Dem-Con co-owner.



The 2017 retrofit included a MSS CIRRUS® optical sorter on the tail of the CPScreen™ before the container line. The 2018 retrofit included two MSS CIRRUS® FiberMax™ optical sorters on the fiber QC lines. The CIRRUS® at the beginning on the container line positively sorts any remaining 3D fiber and sends it back to the fiber lines while simultaneously cleaning the containers. The two FiberMax™ units on the fiber quality control lines negatively sort fiber (positively ejects non-fiber) in place of human sorters.

MSS CIRRUS® FiberMax™ optical sorters run at 1,000 feet per minute, which is higher than the industry standard for belt speed. This lightens material on the belt and increases accuracy by decreasing collateral damage. The higher belt speeds also increase picks per minute. MSS uses their patented PrecisionFlow™ eject hood in combination with air-assist systems for precise material handling of flexible material.

Dem-Con is currently in the process of retrofitting their MSS Aladdin optical sensor on the container line to the newest MSS technology, an MSS CIRRUS® PlasticMax™. This optical sorting unit will positively sort PET.

MSS CIRRUS® units combine high-resolution near-infrared color and metal sorting which allow a wide variety of materials to be sorted on a single machine including color and metal.

“We continue to work with CP because they are responsive, listen to our needs, and always deliver on time. CP’s team, through many variations of design showed patience and a commitment to find the best retrofit design. We had a lot of teamwork between our companies throughout the design process. CP always has innovative and facility specific ideas and we really value the relationship,” continues Pahl.

The 20 TPH MRF was originally installed by CP in 2013 and serves the Twin Cities and greater Minnesota.

“Dem-Con is a very progressive company. They adapt and create opportunities as material streams and markets evolve. We always enjoy working with this group and are proud to call them a long-time customer,” said Ashley Davis, Director of Sales and Marketing of CP Group.

About Dem Con Companies

Dem-Con Companies is a third generation family owned and operated facility that has been responsibly handling twin cities waste materials since 1965. Mark Pahl and Jason Haus are co-owners of Dem-Con. They purchased the business from Joe Pahl in 2001, and building on a solid reputation and business integrity, many important changes and improvements in operations have taken place. Currently, Dem-Con Companies consists of several divisions serving the solid waste and recycling space.

About MSS:



MSS, Inc. is an optical sorting company based in Nashville, Tennessee. Since its formation in 1974, MSS has been designing, engineering and manufacturing optical sorting machinery for various companies within the recycling and waste management industry. MSS, Inc. is a division of the CP Group which seeks to provide the highest-quality end products to their customers, while striving to make them the leaders in their respective industries.

About CP Group:

CP Group is a team of manufacturers and thought leaders in the waste and recycling industry. CP Group—comprised of CP Manufacturing, Krause Manufacturing, MSS, Inc., and Advanced MRF—provides award-winning recycling system design, manufacturing, retrofits, audits, and consulting. CP Group provides turn-key solutions for mixed waste, residential recycling, commercial and industrial, construction and demolition, and electronic waste applications.

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Media:

Anthony Bonds

619-477-3175

Anthonyb@cpgrp.com