



# RecoverMax<sup>®</sup>

Max. Metal Recovery from ASR Fines or  
NE-Metals (Incinerator Bottom Ash) with a Purity of > 98%



**Feed Stock**  
ASR fines < 12mm



**3 - 12 mm**

Non-ferrous metals (after throughput  
optical sorting < optional)



**3 - 12 mm**

Other metals (after throughput  
optical sorting < optional)



**0 - 3 mm**

Heavy metal concentration



# Success in 5 Steps with the RecoverMax<sup>®</sup>

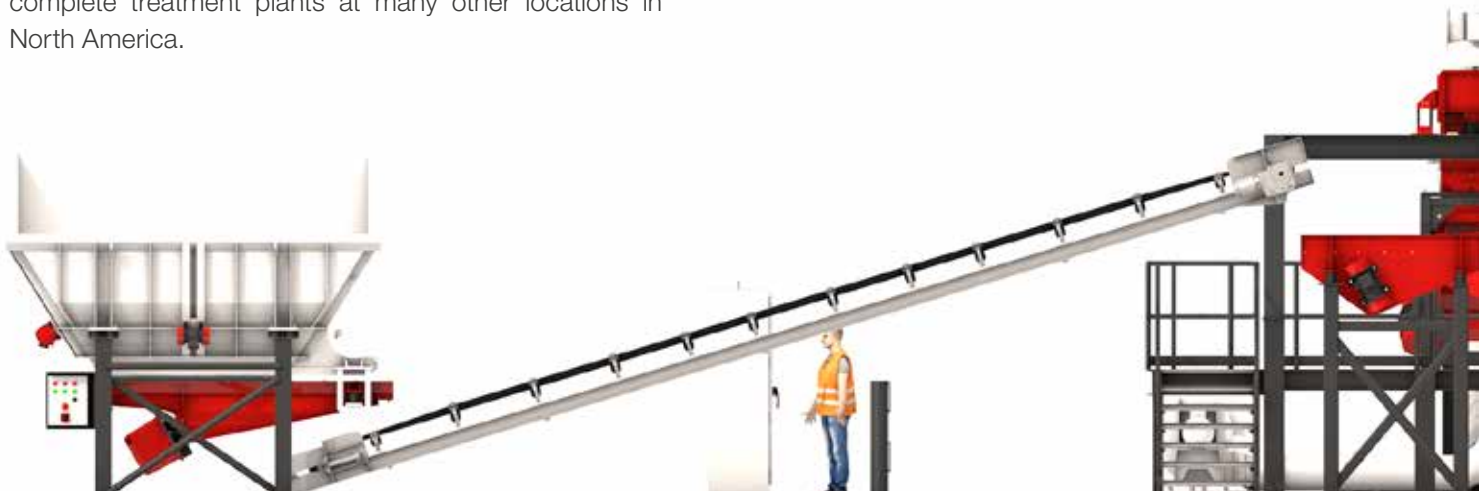
Best rates in recycling, minimized energy and wear

**ASR (Auto Shredder Residue) fines, as referred to in the US or “Shredder-heavy fraction/shredder-light fraction”, in Europe, is the starting material thanks to which previously unattainable recovery rates can be achieved. The success story of the recovery of non-ferrous metals (<12 mm) in the treatment of shredded cars and white goods is remarkable.**

What emerged in late 2015 from the cooperation of the leading manufacturer of recycling technologies JOEST GmbH + Co. KG and its American partner Best Process Solutions, Inc. (BPS), continues with the production of complete treatment plants at many other locations in North America.

A key factor here was the systematic, worldwide patent-pending interaction of the system components for the JOEST long-particle separators, flip-flow screens, sifters and separation tables. This is optimally combined with the RecoverMax<sup>®</sup> Separator from BPS for the separation of mineral components.

[www.recovermax-joest.com](http://www.recovermax-joest.com)



## 98 %

maximum metal recovery  
with a purity of > 98%

## best ROI

lower operating and investment costs  
than previous systems



## compact

compact system concept  
with modular design

## modular

three systems  
2, 5 and 10 tons per hour

# 1

## SCREENING

### Combination Screen TOPCILLA

► Only the efficient system design results in a very high treatment rate of **recyclable fine metal**. The recycling process starts with the concentration of long copper cables through the JOEST Long Part Separator. This is followed by the screening of the fraction 0-12 mm with approx. 4 mm in the JOEST Flip-Flow Screen TOPCILLA.



*Long Part Separator*



*TOPCILLA*



# 2 SIFTING AND DENSITY-SORTING

## K-Sifter



► Both the fraction 0-4 mm and the fraction of 4-12 mm are each fed to a JOEST K-Sifter. The K-Sifter, combination of sifter and separation table, is compact and uses the same process air, thanks to which the exhaust air volumes are considerably reduced. At the aspiration flange, the ultralight material is sucked off, whereas the heavy material passes to the separation table and is fed to a new separation process according to density. Subsequently, the separation of the remaining organic components and the plastic takes place at the separation table.



# 3

## RECOVERMAXING

### RecoverMax<sup>®</sup>

► The heavy material fraction, consisting of mineral and metal, is fed from the separation table into the RecoverMax<sup>®</sup> Separator from BPS. The worldwide patent pending process separates the mineral components from the heavy fraction. In the following recycling process, a drum magnet removes residual magnetic components from the metal fraction.



# 4

## SCREENING

### Double-Deck-Screen

► Another screening machine classifies the remaining fraction into three sizes.



# 5

## DENSITY-SORTING

### Tribble Separation Table

► Each size of the material stream then passes to a JOEST Tiple Separation Table to separate the remaining, digested light particles. Here, the different material sizes are treated parallel in the three chambers.



# 6

## OPTICAL SORTING

### Optional

► Please contact us.



“Less wear and tear with high energy efficiency, best metal recovery rate with 98% purity — the result of a partnership with long-term experience and application know-how between JOEST and BPS in scrapped car recycling.”

*Dr. Marcus Wirtz, Managing Director*

A variety of reference systems:



5 Tons System



10 Tons System



5 Tons System



10 Tons System

A member of the

**JOEST group**

JÖST GmbH + Co. KG, Germany  
Gewerbstraße 28 - 32, 48249 Dülmen

Fon: +49 2590 98-0  
Fax: +49 2590 98-101

info@joest.com  
www.joest.com

