

RCS

Rougher Cleaner Scavenger
NONFERROUS PROCESSING SYSTEM



MAXIMIZE ZORBA RECOVERY



RCS Rougher Cleaner Scavenger

NONFERROUS PROCESSING SYSTEM

Positioned downstream of ferrous separation equipment, Eriez' **RCS Rougher Cleaner Scavenger** nonferrous processing system employs three eddy current units in a specific sequence to produce a high-grade zorba while maximizing recovery. This type of RCS system has been used successfully in high-value mineral processing and mining operations for decades. In an ASR environment, the setup is as follows:

The Rougher is set to aggressively maximize recovery of nonferrous metals.

The Cleaner removes unwanted materials from the final zorba product.

The Scavenger recovers any zorba misplaced by the Rougher.

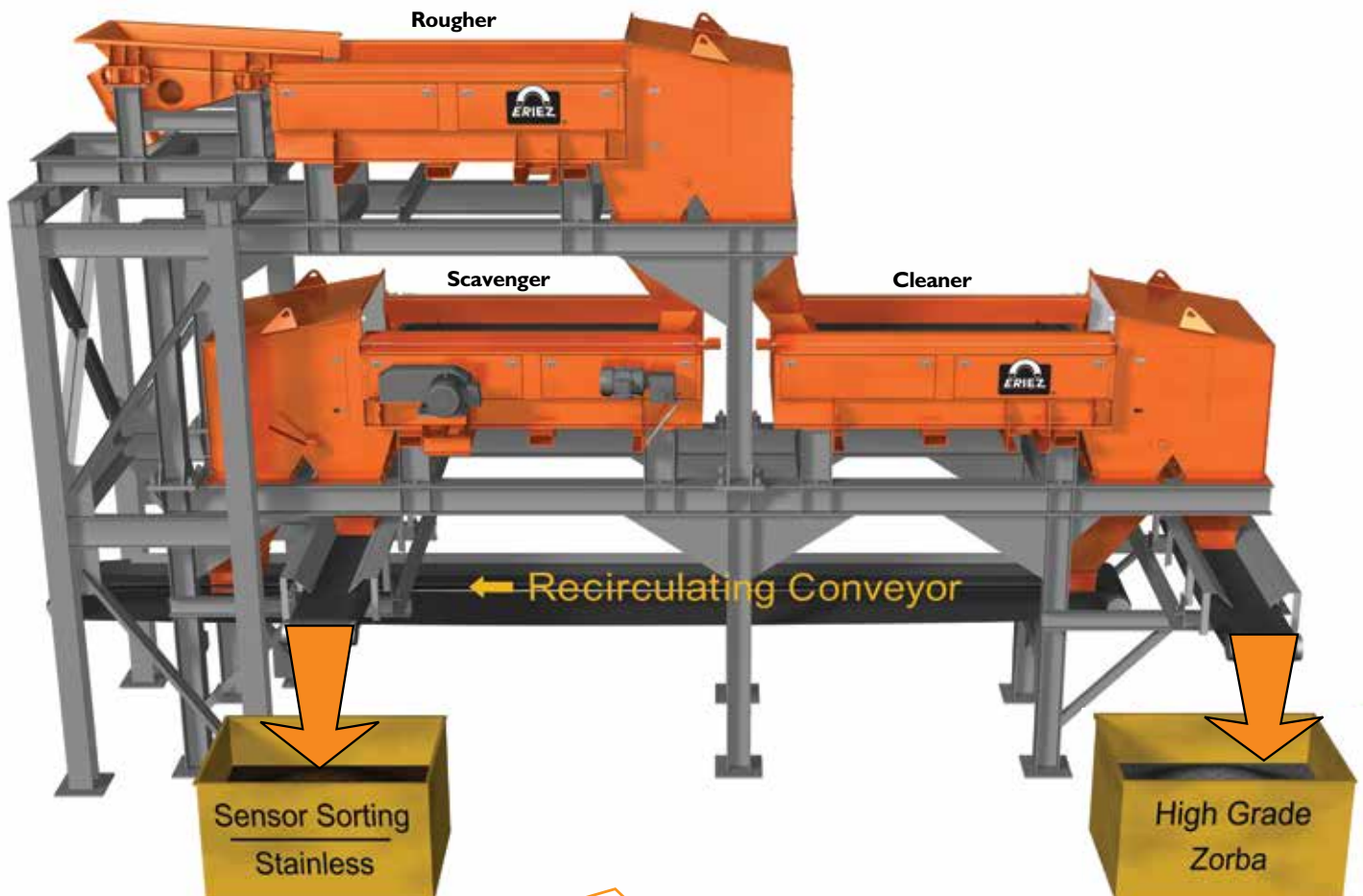
Material Recirculation combines the rejected cleaner product and the recovered scavenger product to be reprocessed, ultimately leading to greater recovery.

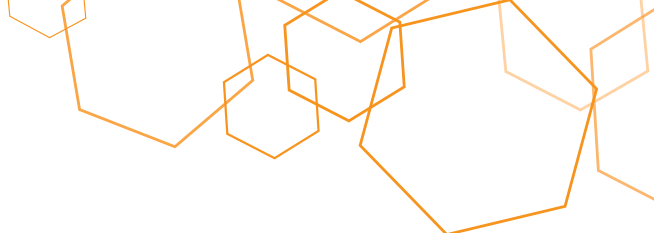
To ensure the best possible separation, it's a good practice to size the ASR prior to eddy current or RCS separation.

**Meet China's
National Sword
Mandate of**

99%

GRADE ZORBA!





THE RCS ADVANTAGE

The **Rougher Cleaner Scavenger (RCS) system** developed by Eriez deploys eddy current separator units with specific settings in a deliberate order to maximize zorba recovery in downstream auto shredder systems. The ROI of an RCS system is demonstrated by the difference in recovery levels.

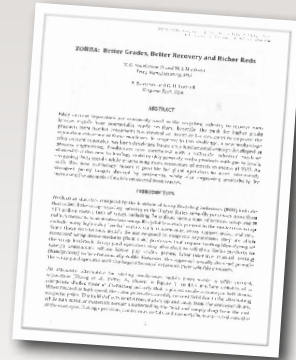
Through months of full-scale testing, Eriez' research revealed these average recovery levels:

- A single eddy current at the rougher setting yields 81% recovery when producing a 90 grade zorba product;
- An RCS System with multi-stage rougher, cleaner, scavenger yields higher recovery while meeting the National Sword 99% metals quality standard.



Technical Paper

Zorba: Better Grades, Better Recovery and Richer Reds



Download at Recovery.Eriez.com





WORLD AUTHORITY IN SEPARATION TECHNOLOGIES



HEADQUARTERS:

2200 Asbury Road • Erie, PA 16506-1402 U.S.A.

P: 814-835-6000 • F: 814-838-4960

E-mail: eriez@eriez.com • www.eriez.com



AUSTRALIA
Eriez Magnetics Pty. Ltd.
Epping, Victoria
P: +61 (0)3-8401-7400



CHINA
Qinhuangdao and Tianjin, China
P: 86-22-8390 4608



MEXICO
Querétaro, Tlalhepantla, Mexico
P: 52 555 321 9800



BRAZIL
Belo, Horizonte MG, Brazil
P: 55 11 4056-6644



INDIA
Athipet, Chennai, India
P: 91-44-26525000



SOUTH AFRICA
Bramley, South Africa
P: 27-11-444-9160



CANADA
Eriez Flotation Division
Vancouver, BC, Canada
P: +1 604-952-2300



JAPAN
Urayasu, Chiba, Japan
P: +81-47-354-6381



UNITED KINGDOM
Eriez Magnetics Europe LTD
Caerphilly, United Kingdom
P: 44-29-2085-5854



*Note: Some safety warning labels or guarding may have been removed before photographing this equipment.
Eriez and Eriez Magnetics are registered trademarks of Eriez Manufacturing Co., Erie, PA*