

ALUMINUM SMELTERS

ADVANCED SENSOR-BASED
SORTING TECHNOLOGY
FOR OPTIMIZED RESULTS



ALUMINUM SORTING: RELIABLY EXCEPTIONAL QUALITY

YOUR CHALLENGE: MEETING REMELTERS AND REFINERS HIGH QUALITY STANDARDS OF ALUMINUM SCRAP.

The demand for Aluminum is steadily increasing due, in part, to lightweight construction in car manufacturing. To obtain useful Aluminum, pure Aluminum must be added to secondary resource until the concentration meets the specifications. This secondary

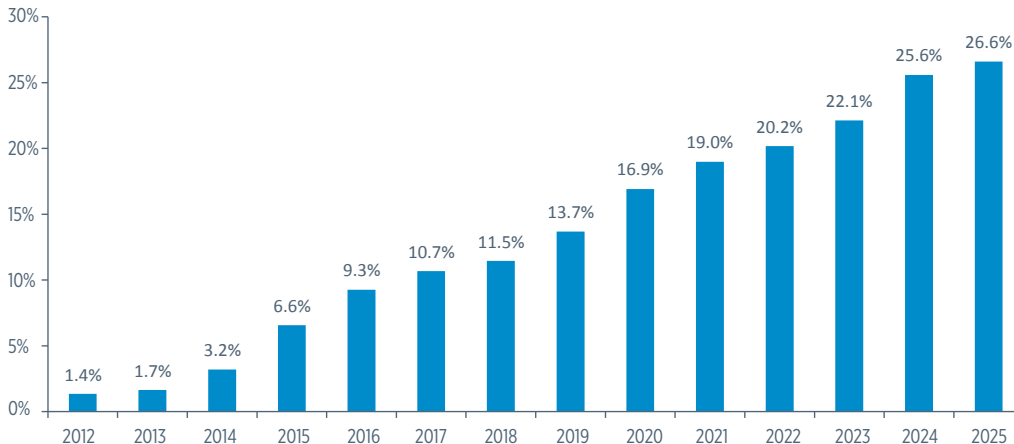
resource still contains small amounts of other metals which have not been sorted. Less contamination in Aluminum scrap leads to increased usage in order to substitute primary Aluminum.

OUR ANSWER: ACHIEVE SUPERIOR QUALITY – ECONOMICALLY

Sensor-based technology makes it worthwhile to sort Aluminum. The X-TRACT separates Aluminum alloys

(2xxx, 7xxx) and Heavy Metals with high precision, so that **Aluminum purities of 98-99%** can be achieved. With up to **95% of energy savings** when compared to the laborious extraction of primary Aluminum, smelters gain new and cheaper sources of material. Flexible systems allow integration on a modular basis, resulting in relatively low initial investment – and **quick ROI**.

ALUMINUM SHARE FOR LIGHT VEHICLES IN NORTH AMERICA



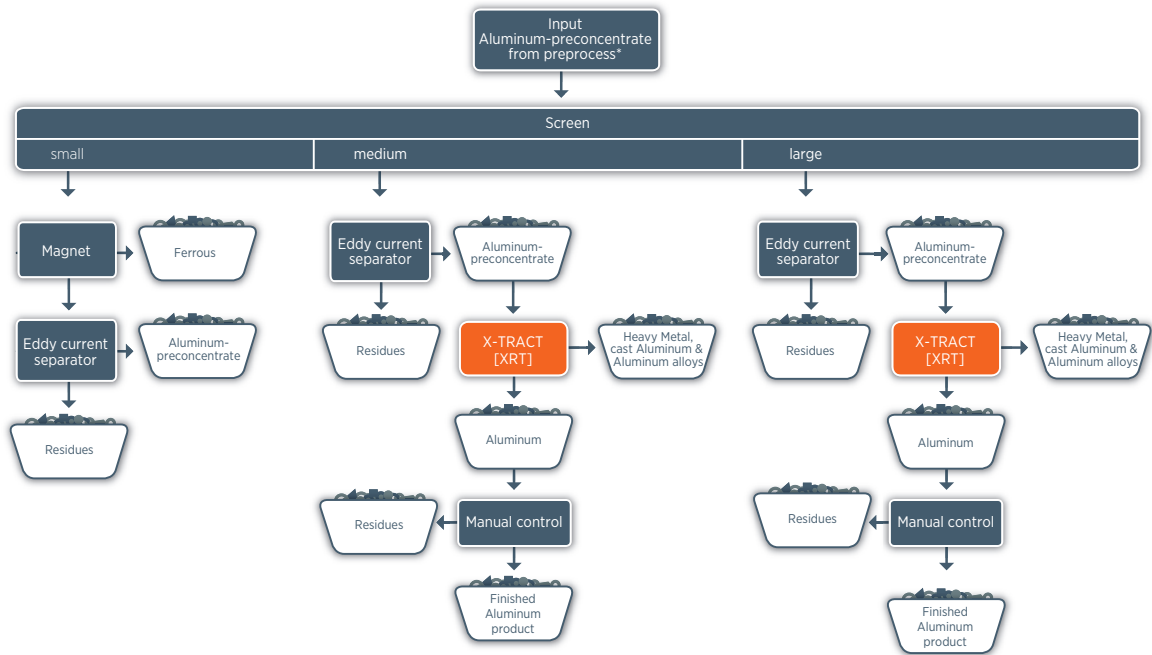
Source: Ducker worldwide 2015 North America light vehicle Aluminum Content Study: Aluminum Volume Share of Body and Closure Components, modified by TOMRA Sorting Solutions, Recycling

THE SOLUTION: SEAMLESS AND FLEXIBLE

Input from pre-process such as Shredder, E-Scrap or Waste processing plants

Zorba/Preconcentrate generated by Eddy Current Separation – is passed through an X-TRACT (XRT) unit to **separate Aluminum from Heavy Metals and Aluminum alloys 2xxx and 7xxx.**

The result: high-value mono fractions with up to 99% purity.



* e.g. Non-Ferrous Metals (Zorba) from Shredder, E-Scrap or Waste processing

“THE USE OF SENSOR-BASED SORTING TECHNOLOGY WAS NEW TO US. IT GIVES ADDITIONAL BENEFITS WHEN COMPARED TO CONVENTIONAL SORTING METHODS, AND THE INSTALLATION OF THESE DEVICES HAS ALLOWED THE PURCHASING AND PROCESSING OF A HIGHER AMOUNT OF A SPECIFIC GRADE OF SCRAP. WE’RE DELIGHTED WITH THE RESULTS ACHIEVED TO DATE AT OUR NOWA SÓL PLANT”, HE ADDS.

Andrzej Slupski, Alumetal’s business development manager

THE TOMRA SORTING ADVANTAGE

**HIGH THROUGHPUT,
HIGH CONSISTENCY,
HIGH PRODUCT YIELD**
RESULTS IN HIGH PROFITS

**FIELD-PROVEN PROCESS AND
ROBUST MACHINE DESIGN**
TESTED IN MULTIPLE
APPLICATIONS WORLDWIDE

**SUBSTANTIALLY LESS
DOWNTIME, GREATER OUTPUT
STABILITY AND LOW ENERGY
CONSUMPTION** THROUGH
EXCLUSIVE, PATENTED AND
PIONEERING TECHNOLOGY

**SUPERIOR ALL-AROUND
SERVICE SUPPORT** WITH
TOMRA CARE

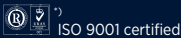
SHORT PAYBACK PERIOD
FOR SORTING TECHNOLOGY

FLEXIBLE SOLUTIONS
FOR EASY INTEGRATION

AS A TECHNOLOGY LEADER, TOMRA SORTING RECYCLING CONTINUES TO BE PIONEER IN SENSOR-BASED SORTING IN THE WASTE AND METAL RECYCLING INDUSTRIES. WITH OVER 4,400 UNITS INSTALLED IN MORE THAN 50 COUNTRIES, OUR EXPERTISE AND SUPERIOR SERVICE ALLOW US TO DELIVER HIGH-PERFORMANCE SORTING AND ANALYTICAL SOLUTIONS TO OUR CUSTOMERS IN A BROAD RANGE OF APPLICATIONS.

Find out why:

www.tomra.com/recycling



We print on 100% recycled paper.
TOMRA Sorting's innovations are helping
to produce it.



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