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Tomra Enhances X-Tract With Dual Processing Technology, Multi-Density Channels, And Application Packages

Software innovation achieves even higher levels of accuracy, complementing X-ray-based density-detection with the prioritization of single object processing and area processing

TOMRA Sorting Recycling has introduced a new-generation X-TRACT machine with innovative Dual Processing Technology which enhances final purity levels; multi-density channels to enable more precise classification and sorting of materials; and a broad range of application packages.

Valerio Sama, Vice President and Head of Product Management Recycling, commented: “With X-ray transmission technology to assess materials according to their density, X-TRACT was already capable of delivering exceptional sorting performance. TOMRA’s innovative and unique Dual Processing Technology adds even more accuracy to material recognition and sorting. There is no other technology on the market like this – and now that X-TRACT is available in a wider range of customized application packages, more businesses can take advantage of it.”

X-TRACT is best known for the sorting of Zorba (shredded mixed nonferrous scrap metals) into aluminum and mixed heavy metals but is now available in five different application packages: the E-Scrap, Organic, Wood, Aluminum, and High Power Pack.

Each Pack optimizes the machine’s performance for specific sorting tasks by precisely tailoring sensor and X-ray set-up. Application packages also have tailored mechanical specifications, fine-tuned to the user’s needs. Some users, for example, need higher material throughputs than others, and some sort heavier materials.”

Dual Processing Technology and multiple density channels

X-TRACT employs X-ray transmission (XRT) technology to sort materials according to differences in their density. Broad-band radiation penetrates the material to provide spectral absorption information which is then measured with a highly sensitive X-ray camera to identify the atomic density of the material, regardless of its thickness.

The Dual Processing Technology enables X-TRACT to distinguish between overlapping objects on the sorting line, a particularly useful advantage when lines are running higher throughputs. This advantage has been made possible by the development of sophisticated software, which can detect and prioritize between single object processing and area processing. X-TRACT is the only machine capable of this.

Press Information

The introduction of multi-density channels is also a useful advance. Previous X-TRACT models sorted material according to two classes, separating it into high-density and low-density fractions. The new X-TRACT features multiple density channels, allowing a greater number of classes for separating materials according to density, with the maximum precision.

TOMRA has also improved X-TRACT with the new TOMRA ACT. This intuitive user interface enables the setting of several user-levels. TOMRA ACT is placed to optimize the sort and shows operators the most relevant real-time process data at a glance. This information improves monitoring and enables fast adjustments at any time, so the operator is always in control.

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About TOMRA Sorting Recycling

TOMRA Sorting Recycling designs and manufactures sensor-based sorting technologies for the global recycling and waste management industry. Over 5,500 systems have been installed in almost 80 countries worldwide.

Responsible for developing the world's first high-capacity near infrared (NIR) sensor for waste sorting applications, TOMRA Sorting Recycling remains an industry pioneer with a dedication to extracting high purity fractions from waste streams that maximize both yield and profits.

TOMRA Sorting Recycling is part of TOMRA Sorting Solutions which also develops sensor-based systems for sorting, peeling and process analytics for the food, mining and other industries. TOMRA Sorting is owned by Norwegian company TOMRA Systems ASA, which is listed on the Oslo Stock Exchange. Founded in 1972, TOMRA Systems ASA has a turnover of around €750m and employs more than 3,500 people.

For more information on TOMRA Sorting Recycling visit www.tomra.com/recycling or follow us on [LinkedIn](#), [Twitter](#) or [Facebook](#).