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**TOMRA TO SPOTLIGHT SENSOR-BASED SORTING TECHNOLOGIES AT ALUMINIUM 2018 EXHIBITION**

*TOMRA Sorting Recycling will show how X-TRACT and LIBS technologies can help increase the worldwide supply of aluminium at the same time as enhancing sustainability*

TOMRA Sorting Recycling will showcase its sensor-based sorting technologies at Aluminium 2018, the world trade fair and conference, at Messe Düsseldorf, Germany, from 9th to 11th October. TOMRA’s exhibition stand will spotlight the company’s X-TRACT machine, which separates valuable materials from metal waste, and its state-of-the-art LIBS technology, which accurately sorts and separates different aluminium wrought alloys.

Aluminium 2018 is expected to attract more than 27,000 visitors from 100 countries and will share latest insights into everything from aluminium production to processing, finished goods and recycling. TOMRA can be found on Hall 11, stand no. 11|54. The company’s technical experts will be available during all three days of the event to answer visitors’ questions.

TOMRA’s participation at Aluminium 2018 highlights how the company provides technical solutions to two of the industry’s biggest challenges: with global production of aluminium pushed to an all-time high because of the increasing need for light metals for energy transition and transportation, recycling can help meet demand for the material; and with intensifying pressures for sustainability, recycling improves resource conservation.

Frank van de Winkel, TOMRA Sorting Business Development Manager Metals, said: “High levels of aluminium production plus the high accuracy of modern alloy-sorting techniques make it more and more worthwhile to unlock the value from secondary materials that would otherwise be lost. What’s more, re-using scrap metal is an environmentally-friendly practice which demonstrates the industry’s commitment to sustainability. For these reasons we’re looking forward to discussing our technologies at Aluminium 2018 with refiners and remelters.”

TOMRA’s X-TRACT separates heavy metals from aluminium alloys with such high precision - irrespective of the materials’ size, moisture, or surface pollution level - that it achieves aluminium purities of 98-99%, even from a varied mix and with small grain sizes. This technology employs an electric X-ray tube so that broad-band radiation can penetrate the material to provide spectral absorption information. This data is then measured with a highly sensitive X-ray camera to identify the atomic density of the material, regardless of its thickness. Material is sorted into high- and low-density fractions, with TOMRA’s DUOLINE® sensor technology using two independent sensor lines with different spectral sensitivities.

TOMRA’s LIBS-based sensor sorting technology extends the options for the use of scrap- and secondary-aluminium. By employing a dynamic laser which can monitor the entire width of the belt, this has the unique advantage of eliminating the complex and costly need to separate materials into single lanes. This enables the sorting and separation of different aluminium wrought alloys with unprecedentedly high levels of efficiency, achieving sorting accuracies of 99% purity (or greater) with high throughputs of three to seven tons per hour.

Aluminium 2018 will also be an opportunity for recyclers, smelters and remelters to learn how TOMRA customises technical solutions to fit customer requirements. The combination of state-of-the-art technologies and personalised technical support explains why TOMRA has become one of the leading suppliers of sorting units in Europe, Asia and the USA. Over 60 TOMRA units have been sold worldwide for the separation of different scrap sources, such as taint tabor from (old) sheet scrap, extrusion profile scrap, used beverage-can scrap, and production scrap and new scrap from manufacturing waste.

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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](http://www.tomra.com/recycling) or follow us on [LinkedIn](https://www.linkedin.com/company-beta/123801), [Twitter](https://twitter.com/TOMRARecycling) or [Facebook](https://www.facebook.com/TOMRA-Sorting-Recycling-183257172165234/).