

**High Speed, High Volume Automated
Separation Sorting Plastics by Resin and
Color with the Touch of a Finger**

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Oral Presentation

High-Speed, High-Volume Automated Separation -- Sorting Plastics by Resin and Color with the Touch of a Finger

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ABSTRACT

This paper presents the latest, highly flexible sorting technologies for high capacity plastic sorting – the Aladdin™ and the Sapphire™ Sorting Modules.

The Aladdin is an ‘all-in-one’ sorting module providing high capacity and separation accuracy, combined with the ability to sort both by plastic resin type and color in a mass feed format. The system combines the advantages of the singulated multiple resin systems with the feed rate of mass-fed systems, and provides separation of three output fractions from one input fraction in one sorting module. System performance data and plant experience is also presented from three systems currently in operation in the US and Europe,

The Sapphire™ system uses an advanced near-infrared sensor that provides the ability to sort beverage cartons, paper, and plastics by resin type in any desired combination from a mixed stream of waste or recyclables. The plant operator can set the desired separation with a flip of a switch. The system provides high separation accuracy and flexibility and is available in sizes to match conveyor widths of 800mm to 1,600mm in 200mm increments. Performance data from eight systems currently in operation is also presented.