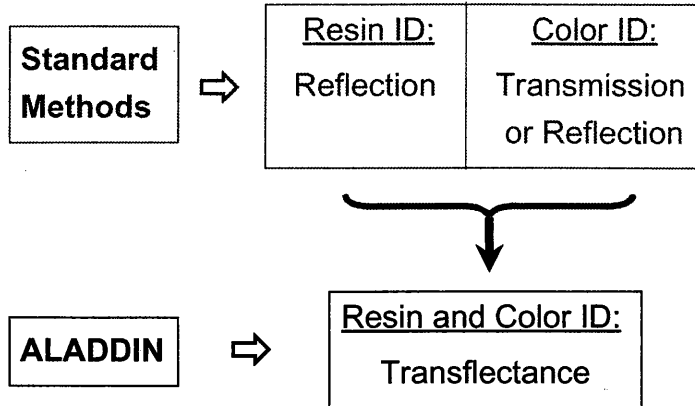
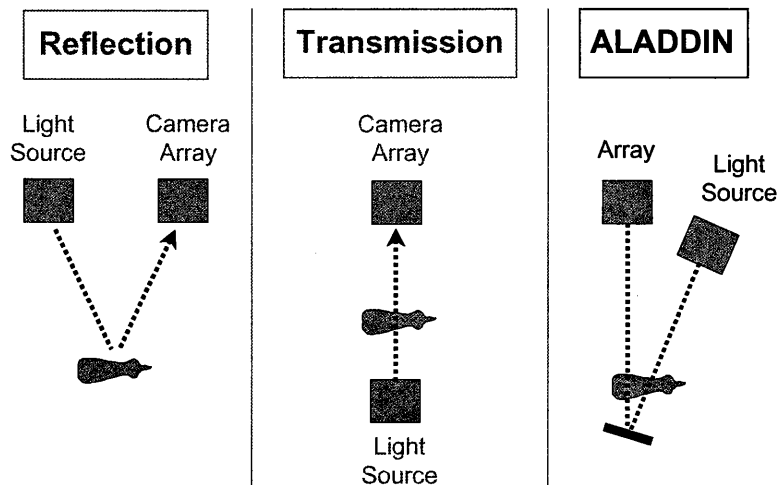




Sensor Flexibility



Method of Transflectance



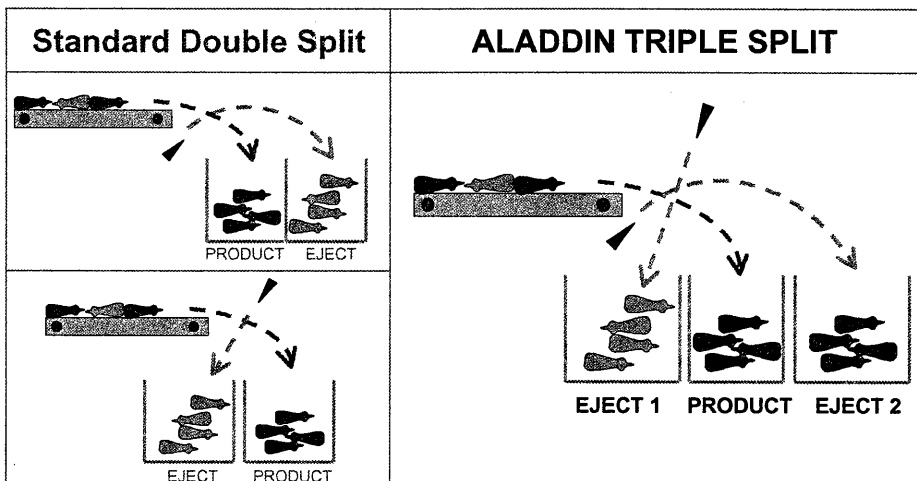


Get the Most Out of ALADDIN

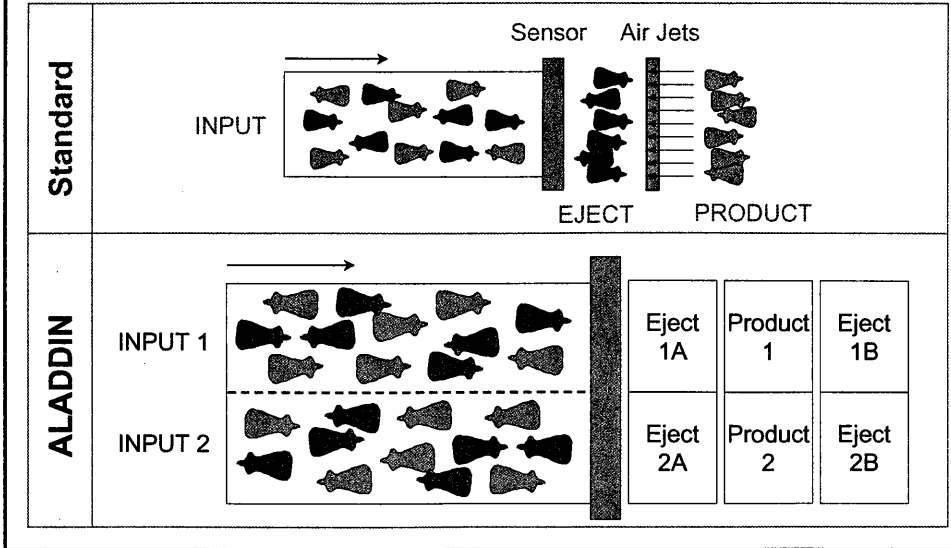
- First system world-wide to create THREE output stream FROM ONE input stream in a mass-fed sorting system.
- First system able to process MORE THAN ONE input stream in one separation module.



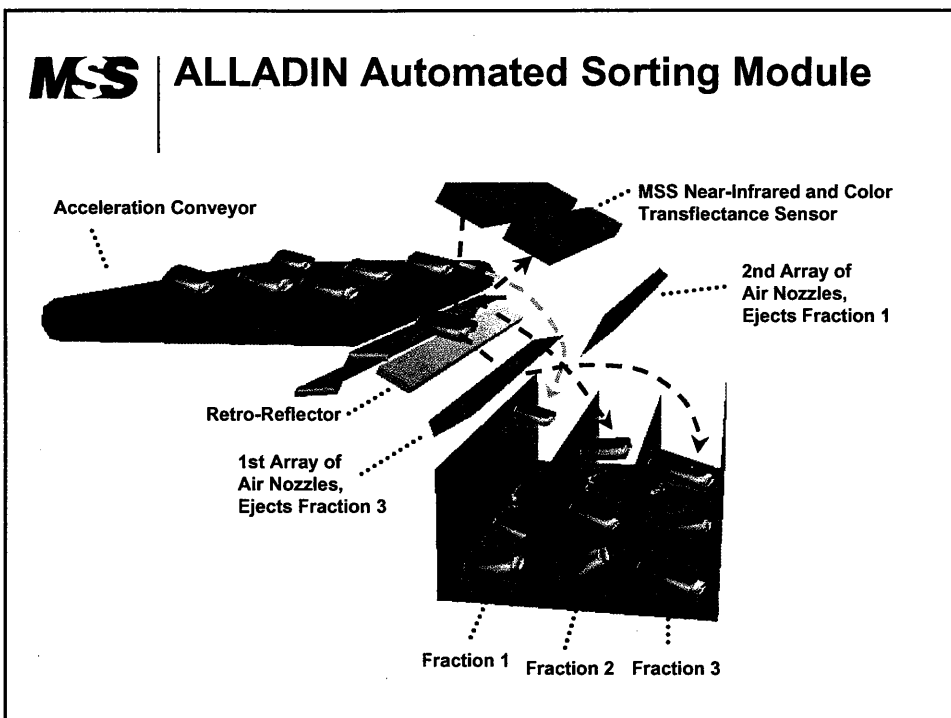
ALADDIN - More Output Streams



MSS ALADDIN - More Input Streams



MSS ALLADIN Automated Sorting Module





ALADDIN in MRFs and PRFs

- A first unit performs a triple split of ANY resin and/or color from # 1-7, depending on collection scheme.
 - HDPE opaque, HDPE natural, PET
 - PET clear, PET colored, PET light-blue
 - Separate a pre-sorted German packaging waste stream (PP, PE, PET, PVC, PS).
- A second unit performs further splits on ALL THREE outputs at the same time, saving sensor cost AND space (critical for retro-fits).



ALADDIN - Significant Space Reduction

- Only one module is needed to produce the typical three split.
- Only one module is needed to perform further splits instead of two or three small ones.
- Up to 9 output streams can be generated with just two sorting modules.



Other State-of-the-Art Features

- Simple touchscreen user interface for full setup control and monitoring.
- Automated cleaning system for sensor to increase uptime.
- Modem access for easy monitoring and factory upgrades or trouble-shooting.



Installation Schedule

- First industrial scale ALADDIN system will go into operation in January/February 2001 in a MRF in Pennsylvania, USA.
- Sensor technology will be proven during November/December 2000 in three sorting modules in Germany processing DSD packaging waste (resin separation).



Summary

ALLADIN Cuts Sorting Cost in Half Using:

- a sensor technology that allows full color spectrum AND NIR in ONE sensor.
- a sensor technology that allows identification in reflection AND transmission in ONE sensor.
- a system technology that creates THREE output streams from ONE input.
- a system technology that allows to process MORE than one material input stream.