



NEWS

World leaders in handling and feeding technology

NEWS

www.rna-uk.com

For today's information hungry society an effective website is crucial to any company's sales & marketing efforts and corporate image.

helps gain a true picture of website quality, effectiveness and helps improve the customer experience

The RNA website has recently introduced project management software, a technical file download area, equipment cases studies, and a news page for updates of RNA events.

The results of the survey will highlight what information customers are searching for, how the site is navigated and if any challenges are experienced when visiting. By evaluating the results, RNA will carry out any improvements and changes that need to be made to maximise the customer experience.

However RNA has decided to carry out a website satisfaction survey to ensure the RNA company website is responsive and effective for its customers requirements.

Participate in our survey now!

A customer feedback survey



As an appreciation for your time and feedback, RNA will hold a prize draw where the winner will receive an iPod Nano. Details can be found on the RNA website @ www.rna-uk.com



Welcome to the July issue of RNA newsletter

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www.rna-uk.com

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Forward
If you have friends or colleagues you think would like to receive a copy of e-News, subscribe their name and email address to us via rna@rna-uk.com

We will forward them the latest issue and add them to our quarterly distribution list.

EVENTS

RNA set pace for



Members of RNA entered a team for the 7th Great Midlands Fun Run on Sunday 31st May. The team consisting of Stuart Brettell Managing Director, Andy Carter Electrical Manager and Andy Perks Sales Manager volunteered to participate in the 8.5 mile event and raise money for Whizz-Kidz, a national charity that helps disabled children become more active and independent.

Despite the high temperatures of over 23 °C a fun if exhausting and thirsty day was had by all with nearly 6,000 runners participating and a large crowd of well wishers and spectators.

Nathan Giles (pictured centre) who campaigns and raises money for whizz-kidz, comments: 'Thank you very much to all that took part, and I hope a great day was had by all.'

A big thankyou and congratulations to everyone who completed the 8.5 mile run. Nearly £700 was raised and all the money donated will go to the West Midlands Regional Appeal, so more children in the West Midlands area can benefit from the Whizz-Kidz organisation.



Automatic Inspection

A major retailer commissioned RNA to design and manufacture an inspection system to sort mixed batches of coat hanger size identification tags into individual containers. Each tag has a size identification character printed at three points on the outer circumference and a corresponding colour. In designing the system a number of challenges were highlighted, multiple variants of component

colour, multiple identification prints, debris and scrap contaminated batches all combined with a high sort rate of 300 components per minute.

RNA designed and developed a single lane, bowl sorting system incorporating a bowl feeder based feed system in conjunction with a camera inspection to sort the components prior to sorting them into separate

containers for each size designation.

The process starts with loading components from a customer's tote into a bulk hopper capable of holding approximately 4 hours of product; the hopper is fitted with a griddle to catch over size rogue components. The bowl feeder is dosed with components from the hopper and presents a single line of orientated components to a separation

wheel, the wheel transfers components onto a sorting conveyor at a repeatable spacing single file.

The inspection station incorporates two industrial cameras mounted on opposite sides of the sort conveyor. Each camera reads the letters and numbers printed on the components as they pass through the field of view. After the inspection process the camera control relays data to the system PLC.

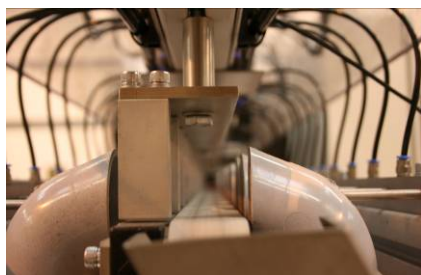
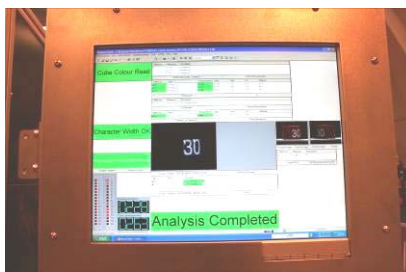
Depending on the results of the inspection, the main system PLC triggers a solenoid to blow the component off the sort conveyor as it passes the correct chute. The chutes interface with 2 out-feed conveyors fitted with separation lanes; these transport the components into product specific tote bins.

For this project RNA drew upon its expertise in handling and sorting to develop a bespoke yet cost effective solution for the customer's process. Following the customer's operation and centralization plan, the solution has provided a significant saving in labour costs, reduced inventory and speeded up the lengthy process of manual inspection and sorting. The high-speed inspection system also helps to ensure tag quality supplying the process chain with a consistent supply of product.



<< Inspection station with two individual OCR cameras mounted on opposite sides of a conveyor

>> The main system PLC analyse the data



<< Components diverted into a chute relevant to each component

>> Out-feed conveyors fitted with separation lanes to transport the parts into tote bins



<< RNA sorting and handling system