

● While the Klinghammer Group's most prominent division is Klinghammer Can Technology, producing machinery for the three-piece can industry, sales manager Hans-Henning Kosel noted that Klinghammer Conveying Systems plays a prominent role in the production of ends for aluminium beverage cans.

"Klinghammer Conveying Systems deliver everything needed to connect the manufacturing steps, from the shell press to the bagger. It can be a single component, or an entire line, including controls," said Kosel, noting the 122-year-old German company has a wealth of designing and manufacturing knowledge.

"The integration into the Klinghammer Group means this product range is equipped for the most modern conveying systems, while also providing spare parts for lines that have been in the market for years."

● Spain's Industrias Peñalver is a leader in score repair systems and compound liners.

Evaristo Delgado, from the technical and sales department, was busy answering questions about the company's four signature products – the MRC 600 and 1200, as well as the MRT 600 and the MER 600. The first three models are score repair systems and can process at multiple speeds, while the latter is a high-speed curler-compound liner for non-round ends.

The MRT 600 handles up to 400 irregular ends or 600 round ends per minute, while the top-shelf MRC 1200 has two production lanes and allows for different round end sizes to be processed at speeds of up to 1,200 per minute.

● Dayton, Ohio-based DRT Manufacturing was promoting its parts and tooling services for easy-open end presses.

One of the cornerstones in the creation of conversion systems for easy-open ends, DRT remains one of the



Controlling the world's ends: (left to right) CDL market development director Dave Smith, CML chief operating officer Jim Miceli, CML projects manager Brad Ishmael and CDL sales manager Jim Wilkins

largest suppliers of system parts and tooling. One of its selling points is a promise of real-time print revision control, which guarantees shipment of parts with the latest revisions and prevents line slowdowns due to older-generation parts.

With a 110,000sqft facility and more than 200 machines grinding, milling and perfecting parts that require microscopic tolerances, DRT was also promoting its ability to perform contract manufacturing and systems integration.

● Though Alfons Haar was kept busy answering inquiries about its complete easy-open end lines, with the German manufacturer emphasizing its ability to deliver everything from the shell press through the conversion press to the bagging equipment, it also took advantage of the show to showcase its solution for a hairy problem on the line.

"One topic that seems to be causing major issues in the industry is what we call 'hairs,'" said John Dunn, general manager at Alfons Haar's facility in Springboro, Ohio. "This used to be seen

in the twist-off cap market, but now with the new non-BPA (Bisphenol A) coatings, it seems to be across all of the industry."

Alfons Haar committed the research and development funds to address this issue – the hairs are created during the initial blanking operation – and its technology proved to be popular during the show. The company could do more than just talk about its solution, however, because it has already run a successful demonstration at one of its customers' facilities in the US.

"As a trial, we went to one of our customers in the US that was having this issue. We took pictures to show the extent of the problem the customer was facing," Dunn said.

"We cleaned the press, introduced our technology, and then ran the press for four hours. The difference between the photos, before and after, was pretty startling. We can't completely eliminate the hairs, but as the photos showed, we can prevent it from becoming a hairy problem."

● Cantec from Germany has worked to make its End-O-Mat press more accessible by providing different features and speeds, based on the production demand.

It can be built to include a tool-changing carriage that allows one operator to handle the task in a short time; an oil temperature control system for heating up and cooling down oil in extreme climates; and a disc curler for round ends, which maintains a sufficient line of contact to allow even ultra-thin end material to be curled accurately at a speed of up to 2,000 ends per minute.

