

'Plug and play' for efficient tube processing

THE combination of individual machines to complete processing of a tube in one pass has its risks. Interfaces or the central computer may not work as planned, and may lead to quality loss.

transfluid develops linked tube processing technologies following customers' requirements. The company offers a total machine portfolio of its own production, and can provide a complete system for tube processing.

For the first step, cutting machines are most in demand, and transfluid provides a solution in its t cut category. From the coil to the rod, the user can cut tubes (chip-less and material independent) up to a diameter of 50mm. Efficient loading and unloading protect the pipes from damage, and cutting optimisation is ensured even at cutting rates of more than 1,800 pieces per hour.

The technology for tube forming is important for nearly every production cell. transfluid provides a range of axial and rotating tube forming technology. The tube end forming machines are offered in a linked production sequence with normal cycle times or as a transfer system with

cycle times between 2 and 6 seconds. For the precise manufacturing of sharp-edged geometries, the rotary forming process is suitable. Through the latest innovations, rolling tools can be used independently of the geometry and sizes.

In the area of bending technology transfluid provides its t bend fully electrical solutions as right-/left-benders with free forming or with automatic tool changing. The company can meet different requirements, such as the realisation of cycle times of less than 1.5 seconds per bend.

The cleaning process is becoming increasingly important in tube processing. "For the material flow it would not be sensible to put the tubes in baskets to carry them in the cleaning machine and separate them after

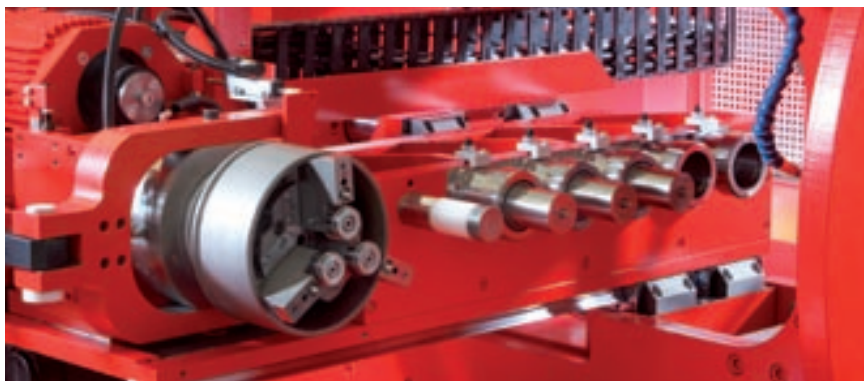


t form axial forming machine REB 632



Cutting tubes with t cut RTO 628

Combined machine axial forming and rolling: REB 632-5-SRM 622



cleaning again," explained Gerd Noeker, the company's founder and managing director. With t clean, transfluid offers a closed cleaning process to ensure the cleanliness of parts and tubes. "While processing tubes we have to satisfy particular requirements. Therefore we take care, for example, that components can be fed via a rotation feeder or can be marked by needle, inkjet or laser printer. Also the implementation of high pressure tests in the process, the weld seam detection, assembly with sealing elements or protective caps, going through the autofrettage or the final package we offer, of course," said Mr Noeker. "Even existing machines of other manufacturers which are no longer required, we can integrate effectively into a newly constructed transfluid manufacturing cell."

The handling of the linked transfluid solutions depends on the customer's requirements or the requirements of the process. The company can use both linear handling systems and standard robots. "With our Plug & Play solutions customers can avoid quality loss as they arise in combining different individual products. Interfaces are not needed and the central computer will be programmed in accordance with the customer's requirements. Here are all the components or special requests are considered for programming at the beginning," concluded Mr Noeker.

transfluid – Germany
 Fax: +49 2972 97 15 11
 Email: info@transfluid.de
 Website: www.transfluid.de