

Faster weld-speeds Three groundbreaking new with less energy!

Three groundbreaking new technologies for the tubing and profile industry

Induction welding of high strength steel profiles



Increasing saftety standards and an obligation to reduce weight and material content have increased the importance of high strength steels for many uses. Because of their structural rigidity more and more profiles will be designed as weldes "hollow" shapes. For these applications inductions welding offers some very interesting alternatives, with very decisive arguments such as high production speeds and ecomomics.

At Tube 2008 Dreistern will introduce a new weld-table offering significant advantages when working with these materials. The design profides up to 100 kN of press-force, pleanty of reserves for pratically all profiling demands. Due to its quick-change design all product related component are changed over in a very short time. Individual reproduceable settings of all rolls and lateral adjustment guaranty exact alignment of strip edges and profile, consequetly increasing the accuracy of the welded shape.

Fast and energy efficient laser-technology for composite tubes



Composite tubes combine both, the corrosion resistance properties of plastic tubes and the bursting pressure of metal pipes. System technology has evolved rapidly since shipment of the first line in 1984, especially due to the collaboration of Dreistern with the extruder manufacturer Maillefer.

Another milestone was the integration of the disc-laser, a new generation laser, supporting weld-speeds of up to 60 m/min. This Trumpf disc-laser equipped with a highly dynamic seam-tracking system, and combined with a refined tube forming process, are the guarantor for this success.

Another benefit, in spite of higher welding speeds, this new technology reduces energy consumption and operating costs tremendously.



High-speed laser-welding of welded shapes



Welding physics limit the maximum possible weld speed for all welding tecniques. This is also valid for Laser welding. Laser experts know the "Humping" as term used to refer to a dynamic process in the weld pool that occurs particulary at high welding speeds, causing unwanted hump and definciencies to form at periodic intervals along the weld.

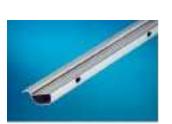
By varying the parameters it is possible to push the humping threshold to higher speeds. Exactly this was one successfully by Trumpf in Ditzingen/Germany.

The result can be looked at the Trumpf booth No F 29 / D30 in Hall 08a. In cooperation Trumpf and Dreistern developped a new production system for manufacturing tube sections. This installation is capable to produce tubes at high speeds.





















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