

# Brazing, punching and clinching – machinery solutions at a glance

Brazing aluminium pipes is one of the technical challenges with which machinery suppliers of the collector industry have to cope – flexible and cost-effective automation is the other.

Photo: Dtec

## Dtec systems fit for aluminium

Austrian automation specialist and machinery manufacturer Dtec GmbH has responded to the growing demand for aluminium as an absorber material. It has begun to offer tube processing systems, which can manufacture harps, as well as manifolds made of either aluminium or copper. Even the welding systems and bending machines by the machinery supplier can be used for both aluminium and copper products. Dtec's Managing Director Michael Dietl guarantees cycle times of 70 seconds for a standard pipe register. "The high bending quality at the different radii offers good opportunities to process the materials further. A transport system integrated into the table provides full protection against deformations of aluminium pipe registers," he says, listing additional advantages of the company's bending machines. All systems can be operated and programmed via touch screen.

Further information:  
www.dtec.at

# SUN & WIND ENERGY



dynamic technology

*"Precision combined with durability"*

At the end of April, on time and according to plan, the world's fastest laser welding system for absorbers went into series production for our customer VISSMANN SAS in France!

DTEC dynamic technology GmbH modified one of its existing laser welding systems PULSSPEED 556 - in cooperation with the customer - to meet the company's requirements.



The machinery has a uniquely high output and can process a wide range of raw materials! Due to a new patented development, this laser welding system is able to weld almost any production material in best quality. The point detachment forces are enormous and it is possible - without any retooling procedures - to weld a wide variety of tube diameters (e.g. manifolds and harps). Unique features include the high-quality welding of bends, both inside and outside, the cleverly thought-out maintenance and safety system, and the quality assurance tool.

Thanks to the modular construction of DTEC, even relatively small companies can free themselves at low cost from the old methods of soldering and ultrasonic welding, for example by implementing one source and two optics (e.g. PULSSPEED 278 and PULSSPEED 278 advanced) and switch over to the most modern laser welding technology currently available! The possibilities of extending the basic system in order to increase output are unlimited! Using the new DTEC laser welding systems, both flat and finned absorbers can be welded in the widest variety of sizes.



DTEC is one of the leading companies in the area of solar industry automation technology and laser welding is one of its specializations. For this purpose, only sources and optics from TRUMPF are used! DTEC has its roots in the automotive supply industry, which means that systems from DTEC are built to the highest standards, have a long lifespan and are designed to require as little maintenance as possible! DTEC has only satisfied customers ...

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