

REFERENCE CMT WELDING PROCESS

Metalldesign Magdeburg GmbH, Germany

WIND TURBINE SPECIALIST INCREASES PRODUCTIVITY USING THE CMT WELDING PROCESS.

Metalldesign Magdeburg GmbH specialises in processing aluminium. At peak times, the company produces up to 15 aluminium claddings for wind turbine halls per week. The welding professionals rely on innovative technologies and high quality standards in workpiece production.



"In aluminium welding the faster the process is, the better. A high welding speed helps minimise deformation and distortion."

Jörg Weise,
welding engineer at
Metalldesign Magdeburg GmbH

REQUIREMENT

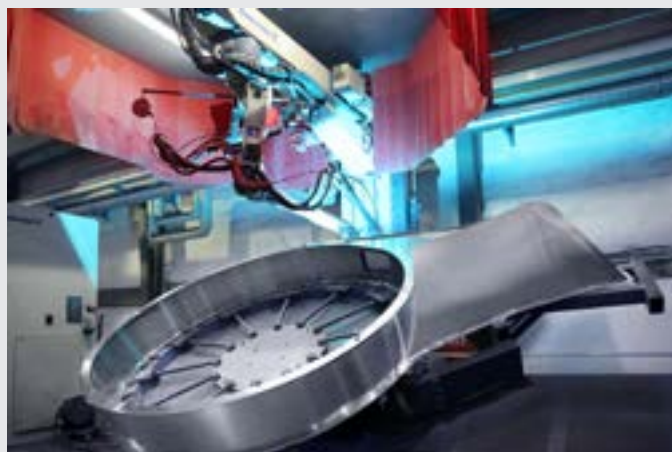
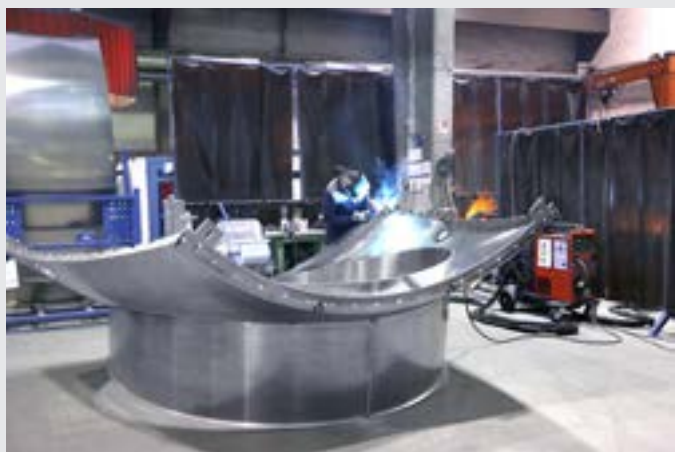
Competition in the wind turbine market is ever increasing, which is why the company needs to improve the efficiency of its production methods. Process-optimised systems for manual and automated welding play a central role here.

SOLUTION

“Thanks to the combination of CMT and pulse welding, we benefit from controlled heat input and the high process stability the CMT process offers.”

Jörg Weise,
welding engineer at
Metalldesign Magdeburg GmbH

Metalldesign Magdeburg has been putting its trust in Fronius welding systems for years. The heart of the production process is a robot-controlled double cell welding system equipped with a Fronius CMT power source. The “cold” CMT welding process achieves optimum results when joining different materials, the world’s most stable arc and precision process control. Thanks to this technology the welding robot can weld aluminium sheets at a speed of up to 1.2 metres per minute. The built-in CMT power source allows the advanced cold metal transfer process to be combined with the conventional pulse welding process in the best possible way, leading to controlled heat input and high process stability. At Metalldesign Magdeburg, technology from Fronius significantly increases productivity and competitiveness.



/ Perfect Welding / Solar Energy / Perfect Charging

WE HAVE THREE DIVISIONS AND ONE PASSION: SHIFTING THE LIMITS OF POSSIBILITY.

/ Whether welding technology, photovoltaics or battery charging technology – our goal is clearly defined: to be the innovation leader. With around 3,300 employees worldwide, we shift the limits of what’s possible - our record of over 900 granted patents is testimony to this. While others progress step by step, we innovate in leaps and bounds. Just as we’ve always done. The responsible use of our resources forms the basis of our corporate policy.

Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com

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