

CMT TWIN

/ The thriftiest way to weld



/ CMT Twin is based on the same set-up as the tried-and-tested TimeTwin process: two power sources, one torch and two insulated contact tips ('Lead' and 'Trail'). To which have been added the outstanding welding properties of CMT. CMT Twin scores top marks for its high welding speeds and easy-to-use process control.

THE BEST OF TWO TECHNOLOGIES, AND MORE ...

/ This new synchronised system/process technology is unique in the market, and ensures an extremely stable arc all the way through from weld start-up to the filling of the end crater. The advantages are plain to see: deeper penetration, optimised wetting to sidewalls and low-spatter welding. The optimally fine-tuned characteristics and the 'Lead & Trail' concept together make the process control of CMT Twin so easy to use. Once the 'Lead' electrode has been set, the 'Trail' electrode which follows it is automatically adjusted to match. Never before have welding processes been better self-regulated than this. Combining the CMT and Pulse processes in this way makes possible the best result for every application.



/ Superior productivity and efficiency with CMT Twin: two power sources, one torch and two insulated contact tips, plus the outstanding welding properties of CMT.

WHAT ELSE DOES CMT TWIN HAVE TO OFFER?

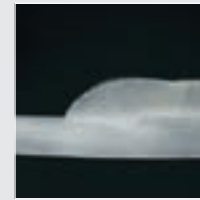
/ CMT Twin also has huge potential for welding with CO₂ gas. It not only offers low-spatter welding results due to the perfect droplet detachment that is typical of the CMT process, but also a graduated choice between twice the welding speed and twice the deposition rate, as required.

/ In addition, CMT Twin comes with optimally fine-tuned characteristics for every application. Extra-thick materials are best welded with the 'Heavy Duty' characteristic. CMT Twin Speed is superbly well-suited for thin and ultra-light gauge sheets and/or the very highest welding speeds.

/ The new and extremely robust heavy-duty torch Twin Compact Pro allows good accessibility to the weldments. In addition, there are torch packages that are optimally tailored for every application.

/ Power, speed and efficiency: CMT Twin, a fast, low-spatter, tandem process.

Tandem process



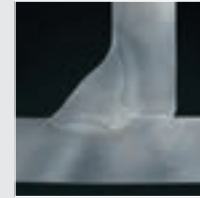
/ Steel lap-weld, 3 mm

V_{weld} 200 cm/min
 $V_{wire\ total}$ 24 m/min

CMT Twin



V_{weld} 300 cm/min
 $V_{wire\ total}$ 23 m/min

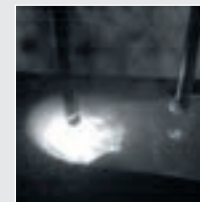
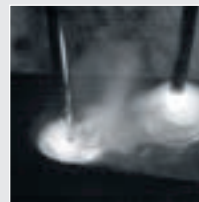


/ Steel fillet weld, 10 mm

V_{weld} 120 cm/min
 $V_{wire\ total}$ 24 m/min



V_{weld} 150 cm/min
 $V_{wire\ total}$ 26 m/min



/ The 'Lead' electrode is in pulsed-arc mode, and the 'Trail' electrode (in CMT mode) fills the weld-pool to the required 'a'-dimension. Minimal mutual influence of the arcs, and a stable weld-pool, are among the defining features of this process.

/ Perfect Welding / Solar Energy / Perfect Charging

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/ Whether welding technology, photovoltaics or battery charging technology – our goal is clearly defined: to be the innovation leader. With around 3,000 employees worldwide, we shift the limits of what's possible - our record of over 1,000 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.

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