

# PERFECT FOR DEMANDING WELD SEAMS

## FAST AND SPATTER-FREE WELDING WITH THE S-SERIES AND SPEEDPULSE XT

Müller-Mitteltal follows the principle of “best quality for professional applications”. The medium-sized family-owned business from the area of Freudenstadt has conquered a leading position throughout Europe in the field of trailer manufacturing. Exceptionally high demands are placed on the quality of the weld seams in the production of customised trailers and low-loaders. High payloads require a precise and secure fit. Weld seams require a high visual quality at Müller-Mitteltal. Nearly every single joint ends up visible after all. As a result, the individual sheets are precisely tacked beforehand. An ingenious design of longitudinal and transverse struts to keep the dead weight of the trailers at a minimum in spite their enormous transport loads produces many short weld seams subject to great stress. The company now produces with 17 Lorch S-series MIG-MAG systems using the innovative SpeedPulse XT welding process. Not only does it speed up welding considerably but it has also minimised rework.

### OVERVIEW

#### KARL MÜLLER GMBH & CO. KG

- Baidersbronn-Mitteltal, Germany
- 170 employees
- Customised trailers and low-loaders
- [www.mueller-mitteltal.de](http://www.mueller-mitteltal.de)



Dynamic control is very helpful, as is the SpeedPulse XT welding process. It allows welders to set a softer or harder arc depending on the work process or personal preferences.



High-quality weld seam: The joints also visually offer an optimised weld appearance. Difficult areas such as tack welds and uneven gaps can be easily removed thanks to SpeedPulse XT. Just weld over it.

Easily master difficult welding situations

## **INHERENT PROPORTIONAL CONTROL ENABLES OPTIMAL CONTROL OF THE WELDING PROCESS**

The SpeedPulse XT welding process optimises usage conditions at Müller-Mitteltal. Difficult welding situations, e.g. in corners, can be managed very well with the SpeedPulse XT welding process. The inherent proportional control patented by Lorch is a special advantage, allowing controller intervention without waiting for the pulse phase to end, and thereby permitting lightning-fast yet moderate control of the welding process. This is particularly noticeable when welding over tack welds or unequal gap dimensions. While conventional arcs require great adjustments at times and tend to over-

shoot, the SpeedPulse XT arc length can be adjusted much more precisely. Consequence: Over-welding can be done safely and without jerking. There are no more audible frequency changes and the tendency to splash decreases significantly. Start and end correction is also very helpful with the large number of short weld seams. In addition to arc length correction, this allows adjustment of the arc length specifically for the start and end phases and the problematic start and end craters to be completely avoided.



*Very satisfied with the use of the new S-Series at Müller-Mitteltal: Christian Finkbeiner, welding specialist and the two welders Joachim Roth and Markus Glaser.*

## **FACTS**

- High welding speed, little rework
- Excellent welds with high optical quality
- Difficult welding situations well manageable thanks to SpeedPulse XT
- Helpful start and end correction
- Dynamic control enables individual welding
- User-friendly control panel with rotary control technology
- Upgradeable

