

# SAVE PRODUCTION TIME WITH THE LORCH SPEEDPULSE PROCESS

## EXTENSIVE PREPARATION AND REWORK ARE NOT REQUIRED

ADK d.o.o. was founded in 1995. It has grown into one of the most successful Slovenian companies in the steel construction industry. ADK manufactures machines and equipment of high-strength steel for lifting heavy loads as well as large-scale equipment for raw material extraction and for the construction industry in its four sites. Virtually everything in ADK's production revolves around welding, with about 160 welders working at the Hoce site alone. Welding is performed exclusively in accordance with DIN EN ISO 5817, the reference standard for the quality assessment of weld seams. Previously, ADK had to perform plenty of time-consuming additional grinding and gouging to meet these requirements. Converting the machine park to the Lorch S series with the SpeedPulse process has enabled ADK to eliminate the time-consuming and expensive preparation and rework while ensuring optimal weld seam quality with deep penetration.

### OVERVIEW

#### ADK D.O.O

- Hoce, Slovenia
- 160 welders
- Mechanical engineering
- [www.adk.si](http://www.adk.si)



Among other things, ADK manufactures mobile cranes as a service provider for one of the industry's global market leaders.



A total of 42 welding units of the Lorch S-SpeedPulse-XT series ensure excellent weld seams at ADK.

The SpeedPulse advantage

## FASTER WELDING DUE TO SMOOTH MATERIAL TRANSITION

The SpeedPulse welding process combines the speed advantages of the spray arc with the advantages of the pulsed arc. The qualities of a good pulse arc are known to be the virtually spatter-free, ideal weld-pool control, controlled material transfer, and virtually no rework requirements. What exactly increases speed as compared to a standard pulse process, however? Before, each pulse equalled one drop. The Lorch process specialists found a way to extend this drop and allow a controlled, virtu-

ally flowing material transition to the workpiece. A pulsed guiding drop is always followed by a second one, which leads to a specifically controlled, spray-arc-like material transition. This extra material clearly increases speed as compared to a standard pulse, while maintaining the best pulse quality and improving handling by far.



*"The micrographs show the enormous SpeedPulse potential with excellent results. Deep, firm penetration without any pores at all, even on lower-grade base material."*

*– Zoran Vidovic, head of welding supervisor*

## FACTS

- Faster pulse welding due to SpeedPulse process
- Controlled material transfer to the workpiece
- Deep penetration and excellent seam quality
- No time-consuming pre- and post-processing
- Intuitive operating concept with optimised control panel

