



SKV-ELITE

QUICK WELDING METHOD WITH SHORT PREHEATING TIME FOR FLAT BOTTOMED RAILS

The SkV THERMIT® quick welding method has been used successfully all over the world for many years. Because it can be completed in a short time whilst still being very reliable and robust, aluminothermic welding is used as the standard method not only on all standard lines, but also for high speed and heavy goods vehicle traffic.

The SkV-Elite welding method is a logical enhancement of the THERMIT® welding method, with a short preheating time, based on the results of research and many decades of practical experience with SkV on rail track. It guarantees that the track system will enjoy high levels of availability because it takes so little time and its altered mould design makes it even easier to apply.

ADVANTAGES OF THE NEW MOULD DESIGN

- » Better utilisation of heat, thus enhanced welding safety thanks to a new gating system and riser geometry.
- » Enhanced safety thanks to easier sealing using sand or paste.
- » The best mechanical and wear properties thanks to optimised solidification processes.
- » One pair of mould shoes for all profiles.

RAIL JOINING

RAIL SERVICES

MEASUREMENT

TOOLS & MACHINES

EQUIPMENT

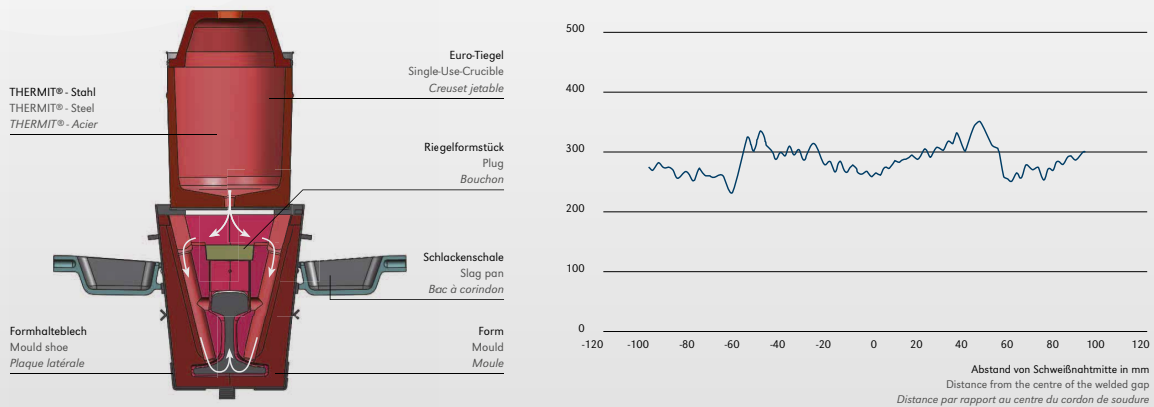
MEMBER OF



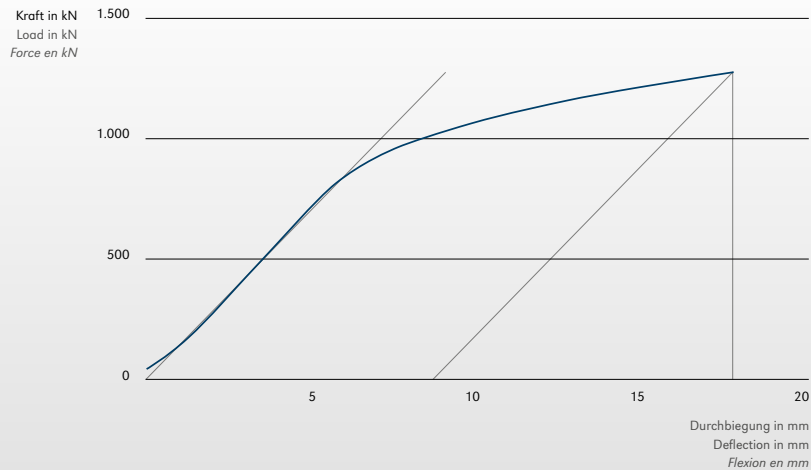
GOLDSCHMIDT
THERMIT GROUP

SKV-ELITE OVERVIEW

This method, with a short preheating time, central ingate and downhill casting system, is used for flat bottomed rails in operating track for all speeds and traffic volumes. Process modifications (L50 and L75) enable additional gap widths of 40-50mm and 65-75mm to be welded. Optimising the ingate technology has made it possible to standardise the outer dimensions of the moulds for all track profiles. This leads to savings of used moulding material and therewith to a reduction in weight when considering all current profiles. Thanks to its excellent properties, the SKV-Elite method has already been cleared for use by a large number of rail companies and has been proving its practical worth since 2005.



A perfectly coordinated combination of energy in the weld portion and the short preheating time, along with an optimised casting system, means error free welding seams (fusion zone). In this way, SkV-Elite welding is setting new standards of process security, error free welding and homogeneity of the microstructure.



RAIL JOINING

RAIL SERVICES

MEASUREMENT

TOOLS & MACHINES

EQUIPMENT