

SIMOClearWeld Technology

**Faster, more efficient, more cost-effective:
Innovative joining technology for cable protection ducts and fittings**



When it comes to laying conventional cable protection ducts, removing the inner beads created as part of the butt-welding process poses a time-consuming and cost-intensive challenge. SIMOClearWeld technology makes this additional processing step a thing of the past: for the first time ever, a heated-tool butt welder enables these inner beads to be radially offset and not have to be removed – an efficient and practical solution. SIMOClearWeld technology is made up of two elements:

1. SIMOClearDuct

Cable protection ducts for protecting energy infrastructure. Unlike “normal” cable protection ducts, these ducts are manufactured using specific formulations and tolerance ranges in terms of their

outer diameter and ovality so that their ends can be planed accurately, down to the exact millimeter. The ultra-precise planing process only reduces the tensile force by around 9%.

Product range



Design	Mono-extrudet	Co-extrudet
Materials	PE 100	PE 100
	PE 100 RC	PE 100 RC
	PE 100 RT	PE 100 RT
	PE 100 RT RC	PE 100 RT RC
Dimensions	225 - 315 mm	225 - 315 mm

2. SIMOClearWeld

A newly developed, patent-pending welding technology for heated-tool butt-welding without the need to remove inner beads.

A CNC-controlled heated-tool butt-welding machine that uses a contoured plane to create the recess required for the weld bead to form without getting in the way. The contoured machining is all part of the standardized planing process and thus adds nothing to the overall time and cost.

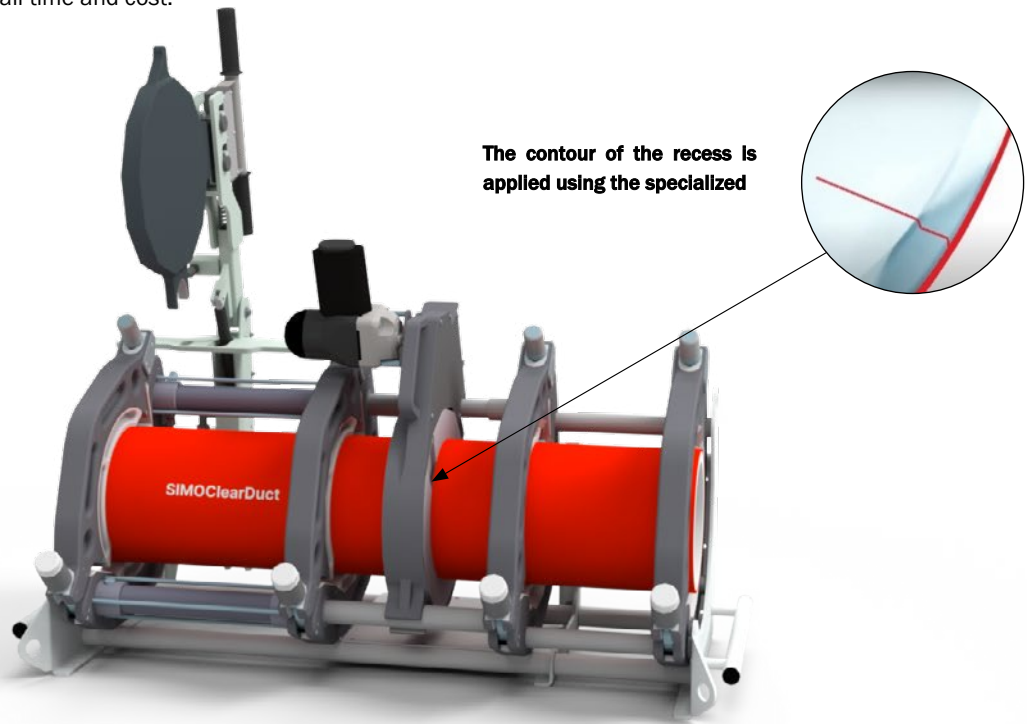


[YouTube video](#)

SIMOClearWeld: the welding machine

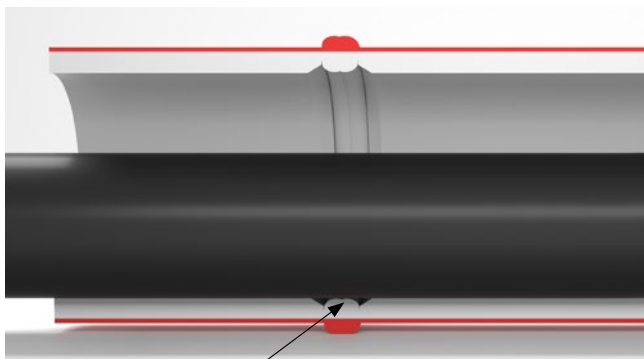
- No risky, time-consuming removal of weld beads
- Can handle long ducts over 12 meters or duct runs without any problems
- Optimized welding program with the potential for time savings of up to 45%*

*When welding inside a container or under workshop conditions.



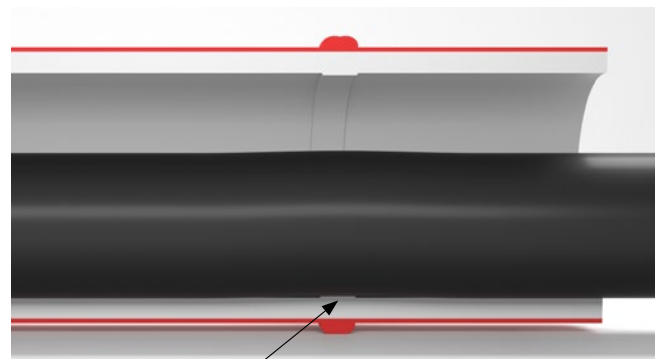
View of the inner bead

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The bead does not protrude into the duct and so does not require manual removal.

Standard heated-tool butt-welding



The bead first needs to be removed manually in a costly and time-consuming process.