DAIHEN VARSTROJ | OTC

HIGHLY EFFICIENT WELDING SYSTEM FOR HEAVY STEEL PLATE

D-Arc

85% REDUCTION IN WELDING TIME

70% REDUCED GAP AREA

85% LESS DEFORMATION

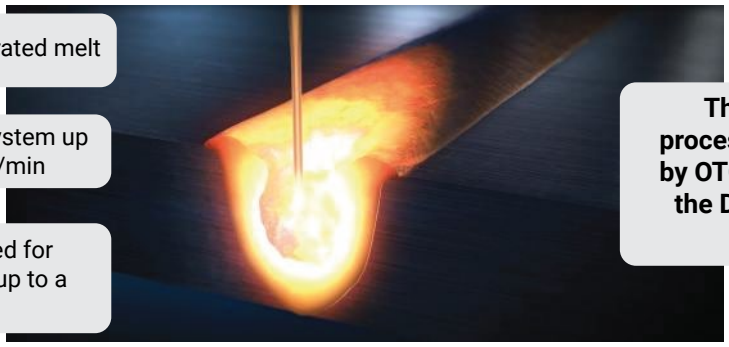
85% LOWER COST

IS THERE ANYTHING ELSE TO ADD?

Deep in the electric arc-generated melt

High speed wire conveyor system up to a maximum of 100 m/min

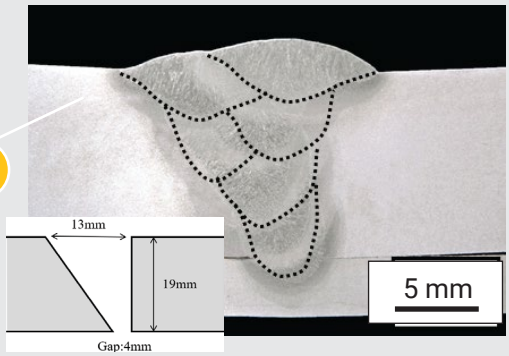
Current flow control developed for high-powe current source of up to a maximum of 1000 A



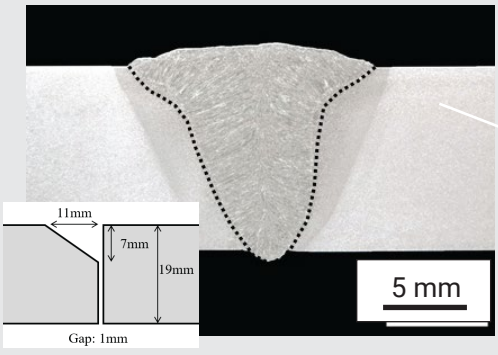
The unique LSI welding processor ˝Welbee˝ developed by OTC, controls and regulates the D-Arc high-performance welding process

Welding of 19 mm thick plate

approx. 20 min



Conventional welding procedure

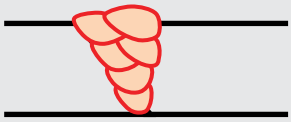
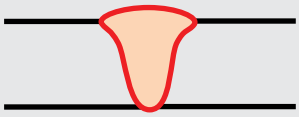
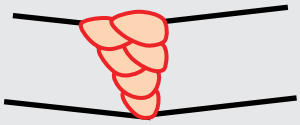
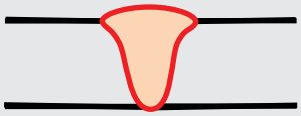


approx. 3.5 min

D-Arc welding procedure

ADVANCEMENT IN THICK PLATE WELDING

The D-Arc Process represents a significant advancement in the welding of thick plates. It utilizes a rotating and oscillating arc that generates a high level of material deposition while maintaining controlled heat input. This results in improved efficiency and reduced requirements for weld preparation, such as the need for extensive joint bevelling.

	Probems in conv. welding	Aim of D-arc welding
70% less effort for seam preparation and wire consumption	Large groove area 	Square-groove welding with no groove area 
80% time and gas saving	Multi pass welding 	Thick plate single pass welding 
85% reduced welding time	Large welding disortion 	Reduction of welding distortion 

EXAMPLES



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