



MEGALAP SEAM WELDER

FOR CONTINUOUS STEEL PROCESSING LINES




- HIGH-SPEED COIL JOINING PROCESS
- SAFE, RELIABLE OPERATION
- QUICK CHANGE WELDING WHEELS
- AUTOMATIC SCRAP REMOVAL
- FULLY AUTOMATIC OPERATION
- CONSISTENT AND REPEATABLE WELDING PROCESS

Taylor-Winfield Technologies has a long and substantial history of providing the highest quality coil joining welding machines to the metals processing industry. Our MegaLap Seam Welder is no exception. Designed and built to join thickness ranges of 0.01" - 0.25" (0.25 mm - 6.35 mm) and widths up to 76" (1930 mm), the MegaLap is the solution for joining a wide variety of material grades including those with yield strengths \geq 1200 MPA.



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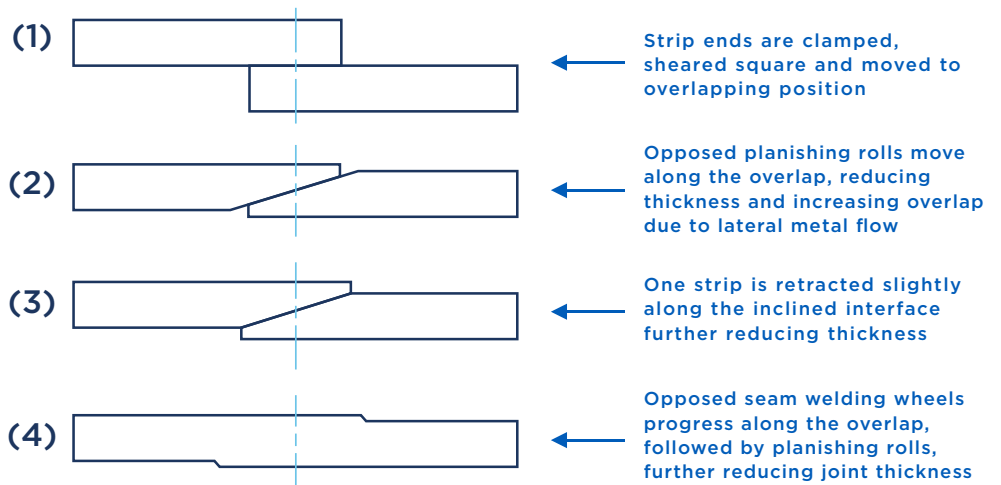
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Strip Material Specifications:

- Steel Grades: AHSS, Stainless, IF, High Carbon Steels, HSLA and Silicon Steels
- Strip Thickness: 0.01" to 0.25" (0.25 mm to 6.35 mm)
- Strip Width: 18" to 76" (457 mm to 1930 mm)
 - $\leq 0.150"$ (≤ 3.81 mm) Single pass
 - $\geq 0.151"$ (≥ 3.83 mm) Dual pass of the planish and one pass welding sequence with strip

*Gauge retraction (PrepLap Feature) is used for heavy gauges to minimize weld over-thickness.

Automatic Prep/Lap Seam Welding Sequence



Benefits:

- Lower initial investment, operating and maintenance costs than TIG, MIG or Laser welding systems
- Fast cycle times - typically less than 60 seconds for the maximum strip width and thickness
- More forgiving welding process compared to laser and other joining processes
- No specialized skilled training required to operate and/or maintain the welder
- Creates a "Rollable Weld" - no need to release tension in your mill to pass the weld
- Less concern about weld breakage when moving across strip support and tension rolls
- In many applications, the welded joint does not have to be removed before subsequent processing - coating, annealing, or galvanizing the strip

Mechanical Features:

- Dual re-squaring shear with automatic scrap extraction
- Entry and exit adjustable overlap clamps allows for weld compensation in both welding directions
- Single pair HD weld heads with hydraulic nut
- Two pair planish wheels with one pair located before and after welding heads
- Allows for single or dual pass welding sequence with over-thickness reduction

Electrical Features:

- Single phase AC, DC or MFDC weld control options
- Constant current weld control for consistently high weld quality
- Automatic weld parameter set-up with "Upper Level" computer communication via Profibus, Ethernet, or TCP/IP protocol
- 250 KVA welding transformer

Optional Machine Features Available:

- Induction pre/post weld heat treatment (PWHT)
- Single and dual entry pass-line systems
- Entry/Exit centering tables, with pinch and looper Rolls
- Strip edge notchers
- Weld quality destructive "bulge" tester
- Off-line weld wheel dresser
- Weld seam monitor - machine diagnosis and monitoring system with good/bad weld notification



Single Pair HD Welding Heads With Hydraulic Nut and Two Pairs Planish Wheels For Single or Dual Pass Welding



Sequence Entry Side - Movable Carriage In Post Weld Position