



ALL TIME

Automatic Girth Welder

The All Time Automatic girth welder (AGW) is an automatic system that is applied to reduce welding time for joining tank courses during field erection. It straddles the shell plates riding on adjustable flange wheels and travels at a controllable speed for mechanized SAW.

Welding Process

SAW (Single Arc / Tinytwin Arc)



Features:

- 1) Standard with reliable Lincoln Electric welding equipment. Other welding equipments can be integrated on request
- 2) Laser pointer on weld head for easy wire tip positioning
- 3) Handrail, operator seat, weatherproof curtain
- 4) Integrated Control Panel for sequence control and easy operation, CE marking electrical
- 5) Enclosed dual motors AC inverter drive for steady and consistent speed travel along the tank shell diameter
- 6) Powerful blower type vacuum with flux roller belt for flux recycling.
- 7) Standard electric flux winch to lift flux off the ground
- 8) Special models available for welding double shell LPG/LNG tanks and top down constructed storage tanks

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VERSIONS OF AGW:

- 1) AGW I - Single sided horizontal girth welder
- 2) AGW II - Double sided horizontal girth welder
- 3) AGW I/II-LNG - Girth welder for double shell cryogenic tanks
- 4) AGW I-D - Girth welder with special modular frame for both Traditional & jack up storage tanks
- 5) AGW I-Mini – Lightweight version of girth welder for small thin wall tanks
- 6) AGW-P – Portable girth welder for easy transportation

SYSTEM COMPONENTS:

Basic components that make up an AGW are machine frame, welding head, controls, flux support belt, flux recovery system, and welding power supply with storage case.



Master control panel integrated with Lincoln NA3 welding control



Ergonomically arranged flux recovery belt assembly with Lincoln NA3S weld head



Lincoln DC Welding Power Supply

RECOMMENDED OPTIONS:

Pre heat LNG torch	Stainless Steel tank welding kit	Auto Gouging Unit	Auto Grinding system	Tinytwin Arc welding kit
Pre – mounted on AGW frame with gas bottle platform	Hardened stainless steel drive wheels & flux belt ring sleeves to prevent contamination	Includes arc sensing control and gouging rod feeder	Mounted on AGW to grind off weld crown for flush tank wall surface	Feeds 2 welding wires on single torch for high speed SAW with superior weld puddle control

Technical specification:

Model	Application	Tank Diameter	Welding Thickness	Travel Speed	Shell Plate Height	Wire Diameter	Approx. Weight
AGW1	Conventional storage tanks, vessels.	Min. 4.5m	8 – 45 mm	100 – 2900 mm/min	1.5 – 3.2 m	2.4mm 3.2mm 2 x 1.6mm	950 kg
AGWII							1800 kg
AGW1-LNG	Double shell cryogenic storage tanks				2.0 – 4.5m		900 kg
AGWII-LNG	Double shell cryogenic storage tanks				2.0 – 4.5m		1770 kg
AGW1-D	Top-down constructed storage tanks				1.5 – 3.2m		1100 kg
AGW - 1 mini	Small think walls tank				1.6 – 3.2 m		500 kg
AGW - P	Girth welder for easy transportation	Min. 2m			N/A		