

ALL TIME

Electro Gas Welder

The EGW (Electro Gas Welding) is a high deposition welding process that uses retaining shoes to confine a molten metal for vertical progression welding. EGW is a considered highly automatic process as it requires closed loop current sensing or other means, to govern travel speed & to maintain electrode stick - out automatically without operator interference.

Welding Process

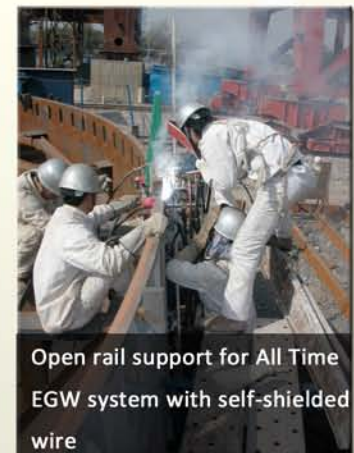
- 1) Electro Gas #elding
- 2) Flux cored Arc Welding



Power propelled Wind
Shielding Frame



Suspending gondola for ship
panel welding with EGW
system



Open rail support for All Time
EGW system with self-shielded
wire

Features:

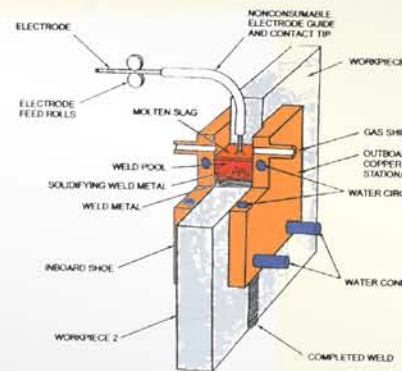
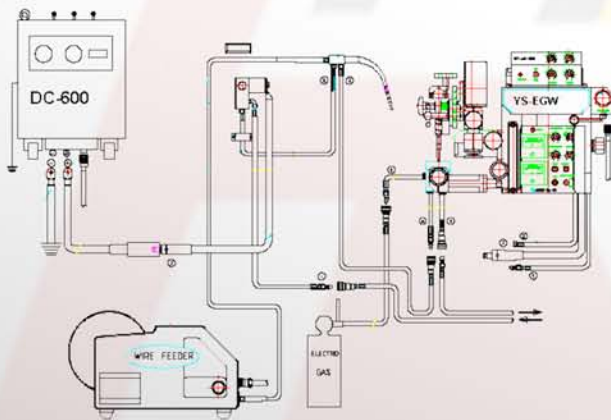
- 1) High deposition single pass welding with code quality welds
- 2) Carriage and rail system to handle vertical seams up to 3m (* consult factory for additional welding length)
- 3) Linear oscillator to weld up to 40mm plate in a single pass, special swivel oscillator mount to provide side to side oscillation for multi pass FCAW (*VUP model only)
- 4) Master control for close-loop automatic travel speed adjustment, welding parameter preset and monitoring.
- 5) Spring loaded copper shoe with copper or ceramic backing system.
- 6) Powered lateral travel frame to create an "indoor" atmosphere for high quality site welding

VERSIONS OF AGW:

- 1) EGW V - Single pass Electro Gas Vertical Welder for bottom up constructed tanks
- 2) EGW V/D - Single pass Electro Gas Vertical Welder for Top down constructed tanks
- 3) EGW (BUG) - Multi pass Vertical welder for applications where single pass electro gas welding is not applicable. (refer to EGW BUG leaflet)

SYSTEM COMPONENTS:

Basic components that make up an EGW are machine frame, controls, power supply, wire feeder, right angle torch, linear oscillator, auto arc sensing control.



Electro-gas single pass welding process

Technical specification:

| Model | Application | Tank Diameter | Welding thickness | Shell Plate height | Operator Platform | Welding Process |
|---------|--|------------------|-------------------|--------------------|-----------------------------------|-----------------|
| EGW V | Storage tanks, vertical vessels, blast furnaces, chemical towers | Min. 4.8m n/a | 9 – 80mm | Max. 3m | Double-sided wind shielding frame | EGW |
| EGW BUG | | | | | Single-sided wind shielding frame | FCAW |
| EGW-SB | Ship Building | n/a | Min. 5mm | n/a | Gondola | EGW |