

Stealth-Lock™







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PG: 160920 COUPLINGS FOR PIPES QUICK CONNECT

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Accelerating flowline construction whilst reducing: GHGs; Hazards; Risks and Manpower



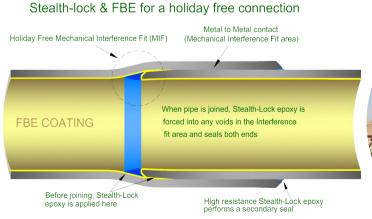
Most Operator Strategies include accelerating extensive integrated drilling programs at the nucleus of production increase objectives. At Stealth-LockTM we get ahead of the drill rigs by constructing pipeline gathering networks with existing contractors, more than 10×10^{-10} x faster than conventional welding.

Our Stealth-Lock™ MIF mechanical connection is in wide use across the world, already yielding production increase and productivity gains for worldwide operators such as ADNOC, PDO, Pan American (BP), Occidental, Promigas and many more.

Based now in Abu Dhabi, AGODCO Group is the owner and OEM of Stealth-Lock™, and also has licenced partners such as Tenaris (the largest global tubular goods manufacturer) who deliver integrated pipeline construction services to its clients in the Western Hemisphere.

Conventional welding of pipelines emits massive volumes of GHGs, it is also slow, hazardous and requires huge resource investments that are slow on Cash Conversion Cycles.

AGODCO's Stealth-Lock™ pledges to add value to any Client's objectives as it is the leading API 5L line pipe connection system in the world, delivering cost reduction, project acceleration – safely.







Key Features of Stealth-Lock™ MIF Connection

- Up to 2 km of constructed flowline per day, per crew
- Cold-formed with no hazardous hot-works
- 98.5% Reduction of GHGs per km installed
- 93% Reduction in Hazard & Risks
- Circa 50% reduction in overall project timeline
- the Client "Product To Market" much faster

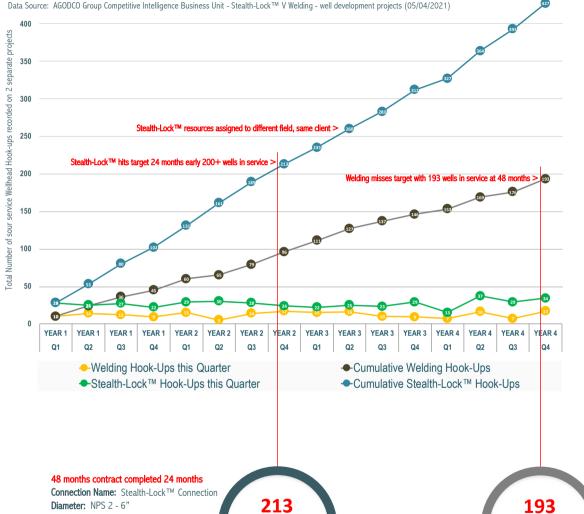
Financial Benefits to the Client

Not only is this a gamechanger substantially reducing GHGs emissions, the Cash Conversion Cycles on invested and operational capital are dramatically reduced for the Client. Production increases earlier whilst spending less capital on stocking handling and management of redundant inventory and contractor interface.





Consolidated Hook-Ups. Stealth-Lock™ v Welding. Completing 4 Year flowline contracts in 2 Years



Client Value Gains

- ✓ 98.5% reduction of GHG emissions per km
- ✓ 93% risk reduction for Lost Time Incidents
- √ 93% reduction in "hot-works"
- ✓ Well Hook-ups at double the usual rate
- ✓ Project completions at 50% timeline
- ✓ Production in service accelerated
- ✓ Cash Conversion Cycle greatly reduced
- ✓ Lower project investment capital employed
- ✓ Supply-chain management reduced
- ✓ Inventory management & cost reduction
- ✓ Vertically Integrated project management

Contractor Value Gains

- Reduce welding assets by 80%
- Reduce welding manpower by 80%
- Reduce food & accommodation costs by 70%
- Reduce transportation costs by 50%
- Complete projects in 50% of timeline
- Accelerate cashflow by 200%
- Increase profit from marginal to circa 25%
- 93% risk reduction for Lost Time Incidents
- 93% risk reduction for Covid virus transmission

Pipe Grade: API 5L Grade B, X42, X52, X60

WT: Various

Coated: Bare CS. OD & ID Coated

Monthly Average: 8.9 wells hooked-up pcm

Average Length: 2.11km Client: Confidential Location: Confidential

Flowline Hook-ups: 213

Wells 2 Years

Stealth-Lock™ MIF Construction

Wells 4 Years

> Welding Construction

48 months contract underperformance

Connection Name: Welded Connection

Diameter: NPS 2 - 6"

Pipe Grade: API 5L Grade B, X42, X52, X60

WT: Various

Coated: Bare CS. OD & ID Coated Flowline Hook-ups: 193

Monthly Average: 4 wells hooked-up pcm

Average Length: 2.02 km Client: Confidential Location: Confidential







98.5% Reduction of GHGS compared to welding

Invironment





GHGs: Stealth-Lock™ is a gamechanger to support all Client's Net Zero Targets:

"Occidental Petroleum laid out its target to reduce greenhouse gas emissions at its operations to net zero by 2040"

Source: Reuters

Welded flowline construction is intensive in manpower, heavy equipment and emissions of GHGs including toxic gases. Scrap and welding electrode disposal also imposes additional flora and fauna harm and risk to human health.

The Stealth-Lock™ MIF connection is a cold-forming process that is more than 10 x faster than welding whilst substantially reducing heavy equipment, manpower, GHG emissions and eliminating spent welding electrodes.

Typical calculations lower GHG emissions by up to 98.5% per km constructed.



Stealth-Lock™ Construction



Factors to lower GHGs emissions with Stealth-Lock™

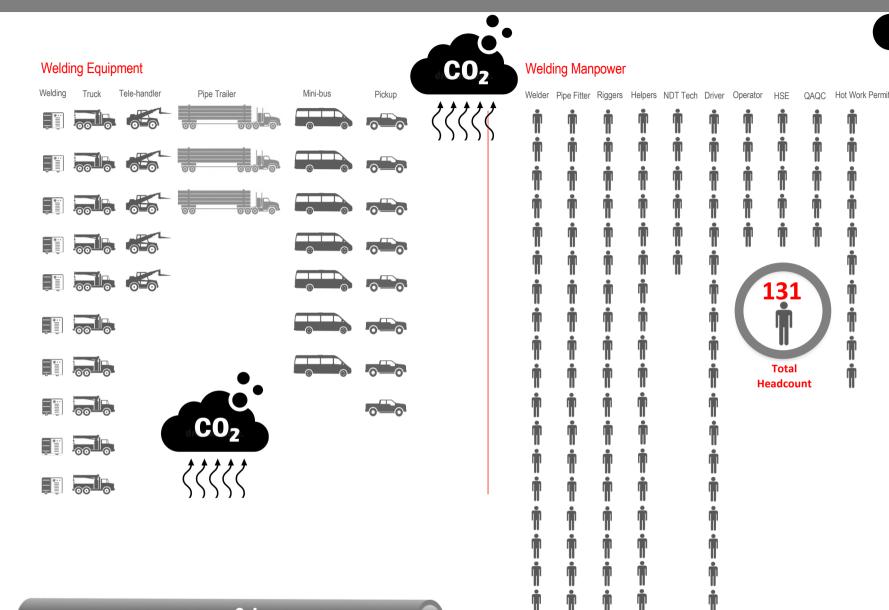
- One SL crew performs the work of 10-12 welding crews
- Where possible SL preps pipe with electric HPU
- 900 manhours per km for welding versus 60 for SL
- Average "km driven" are a fraction with Stealth-Lock™
- Unlike welding, no CO₂ or other GHGs for joining pipes
- Fraction of CO₂ emitting heavy equipment with SL

98.5% GHGs Reduction





GHG Emissions: Resources required for 2 km of welding per day -10 welding crews



Full Welding Resources = 2 km pipeline per day





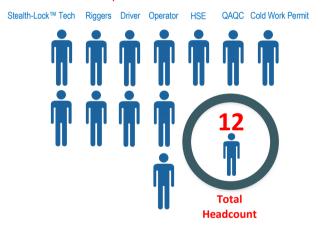
CO₂

Stealth-Lock™ vs Welding

Stealth-Lock™ Equipment



Stealth-Lock™ Manpower

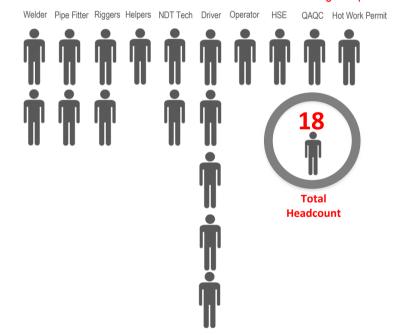


1 x Stealth-LockTM $c_{rew} = 2 \text{ km}$ pipeline per day

Welding Equipment



Welding Manpower





 $1 \times Welding Crew = 0.2 \text{ km}$ pipeline per day





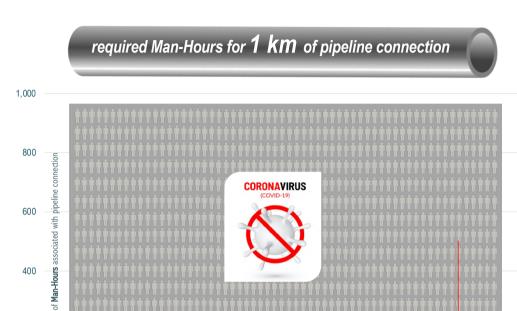


93% Reduction of Hazards & Risk

compared to welding







100m 400m 200m 300m 700m 800m Meters Constructed Constructed Constructed ■ Total Man-Hours Stealth-Lock Activities Total Man-Hours Welding Activities

> 60 Man-Hours Per km

200

Stealth-Lock™ MIF
Construction

900 Man-Hours Per km

Construction

the Client Value Gains

- ✓ 93% Reduced risk of suspension of projects due to contagion
- ✓ 93% Reduced risk of Lost Time Incidents affecting the project
- ✓ 93% conversion of "hot-works" to "cold-form" connection
- ✓ 93% Reduced "kilometers driven" by average manpower
- ✓ 93% Reduced risk to existing "live" assets

Contractor Value Gains

- ✓ 93% Reduced risk of suspension of projects due to contagion
- ✓ 93% Reduced risk of Lost Time Incidents affecting the project
- ✓ 93% conversion of "hot-works" to "cold-form" connection
- ✓ 93% Reduced "kilometers driven" by average manpower
- ✓ Reduce food & accommodation costs by more than 70%
- ✓ Reduce transportation costs by more than 50%
- ✓ Accelerate cashflow by 200%
- ✓ Contractual deliverables achieved in less than 50% of timeline

Virus Mitigation: Stealth-Lock™ versus Welded Connections

Man-Hours Per Km: Human Exposure reduced by 93% compared to welding activities

Task Risk Analysis of human exposure during pipeline construction. "Man-Hours" per Km

Pipe Connection Method

Total # of Men day

Per Day

Total Melers Constructed Per day

Welding

Total Men-Hours Per Man-Hours Per Day

Melers Constructed Per day

Welding

Total Man-Hours Per Meler Per Meler Per Meler Per Men day

Melers Constructed Per day

Men-Hours Per Km of HR exposure

Man-Hours Per Km of HR exposure

Man-Hours of HR exposure

Total Man-Hours Per Km of HR exposure

Man-Hours of HR exposure

Men-Hours Day of HR exposure

Men-Hours Per Km of HR exposure

Men-Hours Per Man-Hours Per Man-Hours Per Man-Hours Per Man-Hours of HR exposure

Men-Hours Day of HR exposure

Men-Hours Per Man-Hours Per

Stealth-LockTM 12 x 10 = 120 / 2000 = 0.06 or

construct 1 km of Stealth-Lock™

Analytic Inputs (Assuming average performance on installation of NPS 2-inch to 8-inch API St. CS or coated pipe): Welding: Crew of 6 men; 1 permit holder; 2 heavy equipment operator; 2 NDT technicians; 2 QAHSE; 5 drivers.

Stealth-Lock**: Crew of 2 men; 3 heavy equipment operators; 2 riggers; 1 hiab driver; 1 permit holder; 2 QAHSE; 1 driver.







94% Increased ROI for contractors

without increasing rates to the client





Low Profit: 10 Welding crews versus 1 Stealth-Lock™ crew - stats per annum (USD 1,000s)

Data Source: AGODCO Group Competitive Intelligence Business Unit (05/04/2021) \$450 \$400 \$350 \$300 \$250 \$200 \$150 \$100 \$50 \$0 February March April May July September October December January June August November 31/01/20 29/02/20 31/03/20 30/04/20 31/08/20 30/09/20 31/10/20 31/12/20 31/05/20 30/06/20 31/07/20 30/11/20 ■ Direct OPEX cost including consumables ■ Heavy Support Equipment including Transport ■ Camp Food & Accommodation ■ Gross Profit Return on 10 Welding Crews in USD

Welded: 10 Crews
Crew Headcount: 131
Diameter: NPS 4"
Pipe Grade: API 5L X42
WT: 8.56 mm
Coated: No
Client: Typical Data
Location: Typical Data



Welding Performance & Financial Results

Crew Name: 10 Welding Crews

Completed: 365 km Active: 207 days Daily Average: 1.77 km

Sales Revenue: USD 4.691million Cost of Sale: USD 4.541 million

Gross Profit Contribution: USD 0.150 million

Gross Margin: 3%









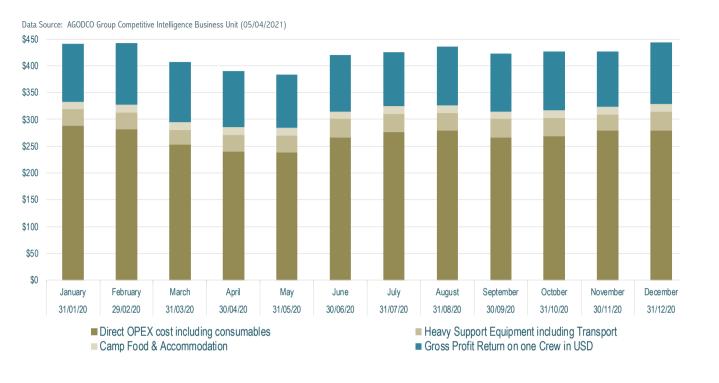


Numbers based on 10 standard welding crews with supporting assets and a sales rate of \$12,825 per km constructed. All data is for pipeline mechanical construction only and excludes, civil and trenching works, fittings, hydrotest and commissioning for hook up.





Typical Performance & Financial Results if Contractor adopts Stealth-Lock™ crew 53% utilization per annum

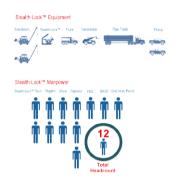


Stealth-Lock™ Model: SL26 HPUD

Crew Headcount: 12 (excluding back-office)

Diameter: NPS 4" **Pipe Grade:** API 5L X42

WT: 8.56 mm
Coated: No
Client: Typical Data
Location: Typical Data



Contractor Value Gains

- ✓ 93% Risk to Project reduced
- ✓ Faster project completion
- ✓ Greatly increased Return On Investment
- ✓ Accelerated cash-flow

Crew Performance & Financial Results

Crew Name: Lion Completed: 395 km Active: 193 days Daily Average: 2.05 km

Contractor Revenue: USD 5,066 million Cost of Sale: USD 3.774 million

Contractor Gross Profit: USD 1.292 million

Gross Margin: 26%









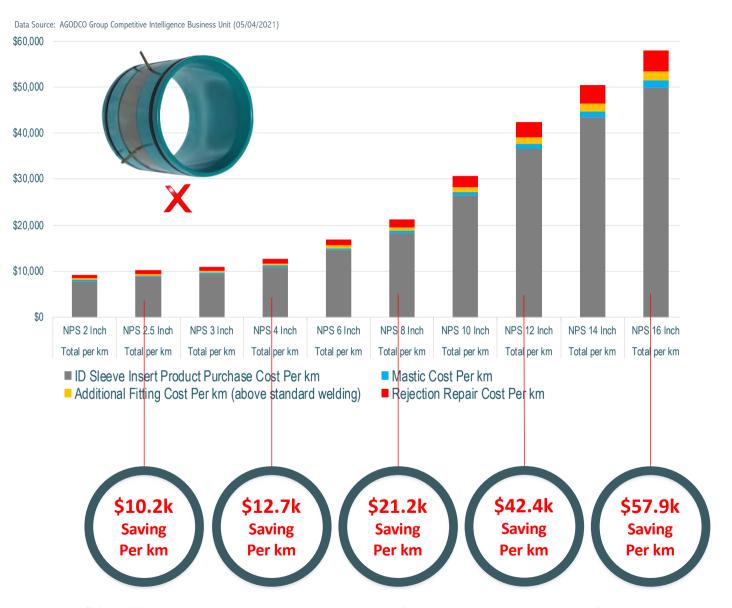


Numbers based on 53% average utilization of manpower and assets each month with a sales rate of \$12,825 per km constructed. All data is for pipeline mechanical construction only and excludes, civil and trenching works, fittings, hydrotest and commissioning for hook up.





With Stealth-Lock™ Internal Welding Insert Sleeves not required for FBE coated pipe



Disclaimer: AGODCO Group offers the above data that is based on its own competitive intelligence. The data is not specific to any system, company or product. The data is indicative of the typical savings that could be achieved when opting to switch from FBE coated welded connections to the Stealth-Lock™ Connection system. There are many welding insert sleeve products available on the global market all with varying degrees of reliability. Sleeve reliability is often dependent upon the contractor's compliant installation according to manufacturers specifications.

The cost and problems with Internal Welding Insert Sleeves

Fusion Bonded Epthe Client (FBE) internal coatings for line pipes are commonly used in Sour Service conditions as a defense against accelerated corrosion and to provide integrity longevity to the pipeline system. When welding FBE coated pipes, the typical method to protect the FBE from "burn-back" damage and to result in a "holiday-free" connection, is to procure and install expensive welding insert sleeves as pictured alongside. Such insert sleeves add time, materials and cost to the welded joint. Insert sleeves are often problematic if not installed and welded correctly. Each rejected connection requires two new sleeves to weld in the repair as a pup-joint.

The Stealth-Lock™ Connection is designed to interlock the FBE coating immediately upon pressing the friction fitting together. This provides an immediate holiday-free connection without the need for additional materials, time and cost.

Client Value Gains

- ✓ Eliminated cost of expensive materials
- ✓ Faster project completion
- ✓ High integrity for sour service production
- ✓ Pipeline service longevity in oil, gas & water

Contractor Value Gains

- ✓ Eliminated cost of rejected welded sleeves
- ✓ Faster project completion
- ✓ Greatly reduced OPEX cost
- ✓ Accelerated cash-flow













the AGODCO Group of Companies

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