History

- BRIEF HISTORY FROM 1987

Wireline Equipment

- PRESSURE CONTROL EQUIPMENT
- HANDLING EQUIPMENT
- GREASE INJECTION & HYDRAULIC CONTROLS
- TRAILERS & TRANSPORT EQUIPMENT
- SPARE PARTS & CONSUMABLES
- PERFORATING EQUIPMENT
- GUNSLINGER DEPLOYMENT EQUIPMENT

Core

- EQUIPMENT INTEGRITY & CERTIFICATION

CFC

- CORROSION FREE CONNECTION

RigLock 2.0

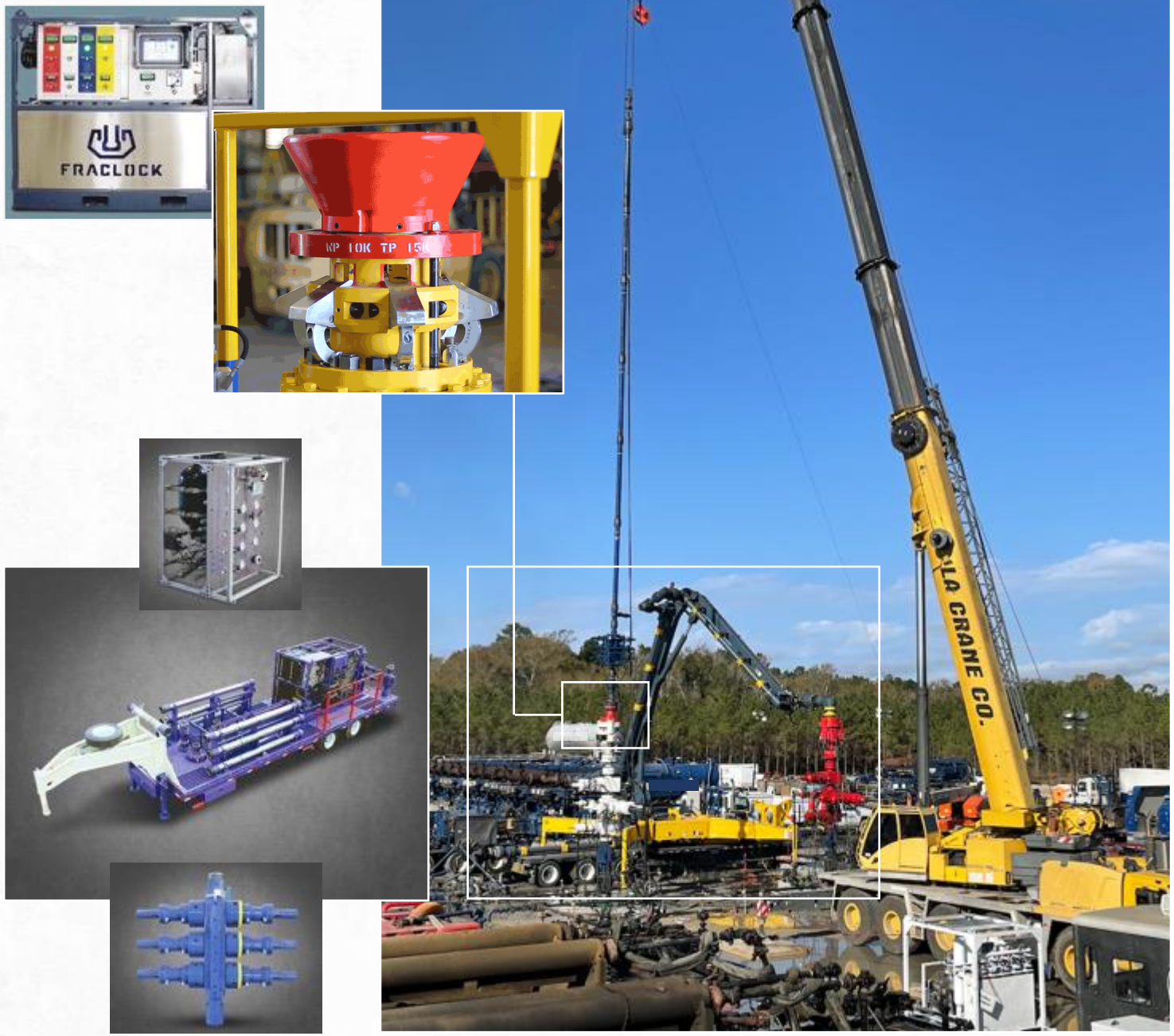
- AUTOMATED WIRELINE WELLHEAD CONNECTION

RigLock 1.0

- WIRELINE WELLHEAD CONNECTION

FracLock

- UNIVERSAL WELLHEAD CONNECTION



Protecting Personnel, Equipment, and Client Relationships

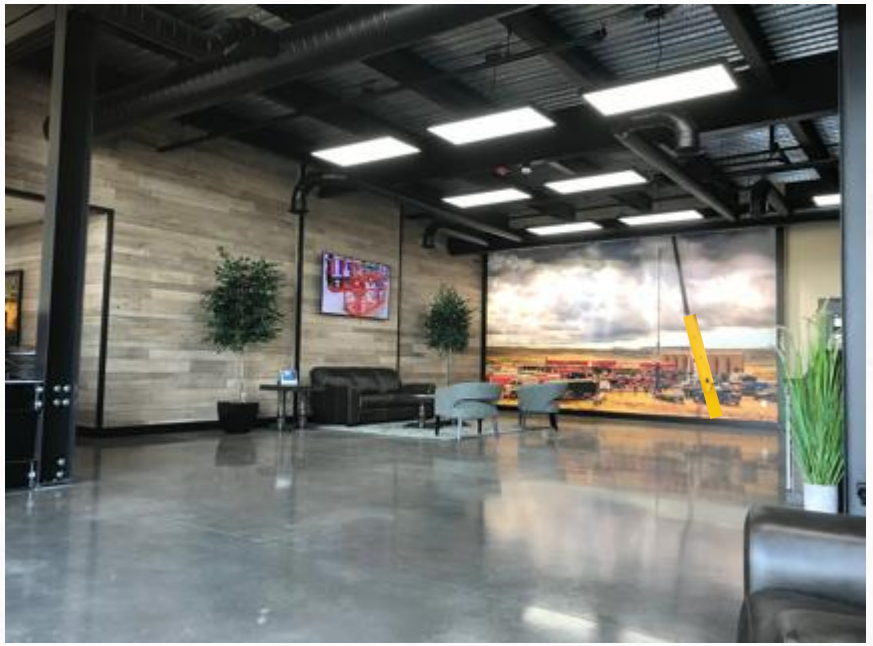
WWW.BUILTBYFHE.COM

History

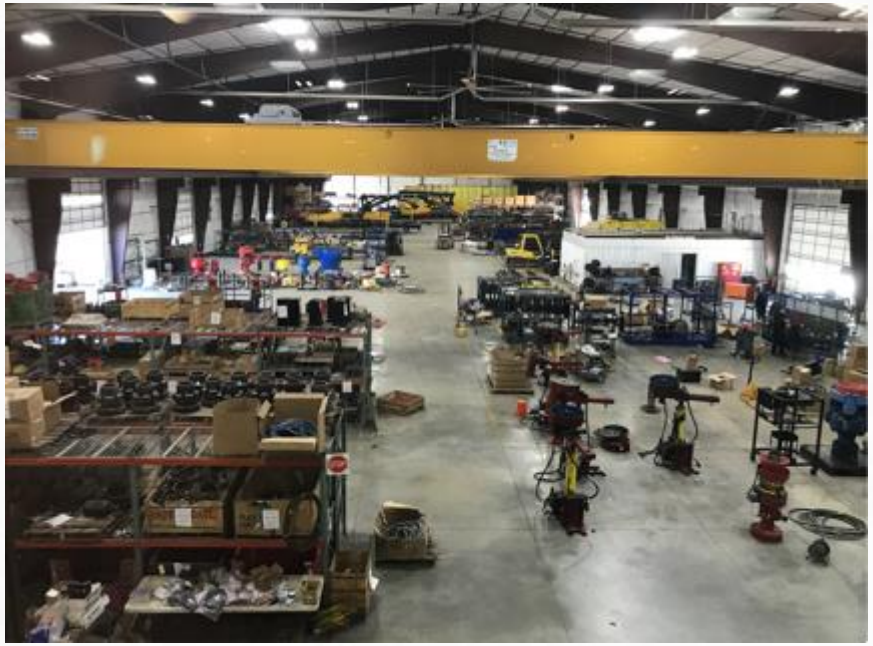
- Founded in Canada in 1987 with U.S. Division Opening in Colorado in 2007
- No Longer Affiliated with FHE Canada and Rebranded as FHE USA 2014
- U.S. Division Opened Just Before the Fracking Revolution in the U.S.
- Selected Key Supplier to Many New Start Plug & Perf Wireline Companies
- Now the Largest Volume Supplier of Quality Turnkey PCE Packages in the U.S.
- Innovator of RigLock and FracLock with Over 30 Patents

Global Headquarters & Manufacturing in the Colorado Rocky Mountains Western Slope in the USA





Inventors of the World Renowned RigLock & FracLock Universal Wellhead Connection Technologies





COLORADO
TEXAS
OHIO
US LOCATIONS

ABU DHABI
MIDDLE EAST
LOCATION









ANAB ACCREDITED
ISO/IEC 17021
MANAGEMENT SYSTEMS CERTIFICATION BODY

QMS REGISTERED
ISO-3132

API Spec Q1 Registered
Q1-3186







Colorado
1597 Cipolla Road
Fruita, CO 81521
970-243-0727

Texas
124 Industrial Drive
Cibolo, TX 78108
210-236-5427

Eastern United States
1500 Greene Street #4
Marietta, OH 45750

MENA
Building LT01 B25-32, Al-Dhafra Plot P3
Al Markaz Abu Dhabi, UAE
+971 2-585-2800

Highest Quality Equipment Refined Through Decades of Experience with Cradle to Grave Support

Turnkey One-Stop Service with Engineered Solutions









Wireline Equipment

- 2-1/2”, 3”, 4-1/6”, 5-1/8”, 6-3/8”, 7-1/16” ID & 3K, 5K, 10K, 15K WP Designs
- Can Provide All Lifting and Ancillary Equipment for Single Source Supply
- Full Range of Hydraulic Control and Grease Injection Systems
- All Equipment Can be Trailer or Skid-Packaged
- Spare Parts Readily Available and Supplied from Several FHE Service Centers
- Client Liaisons Result in New Products Including Gunslinger

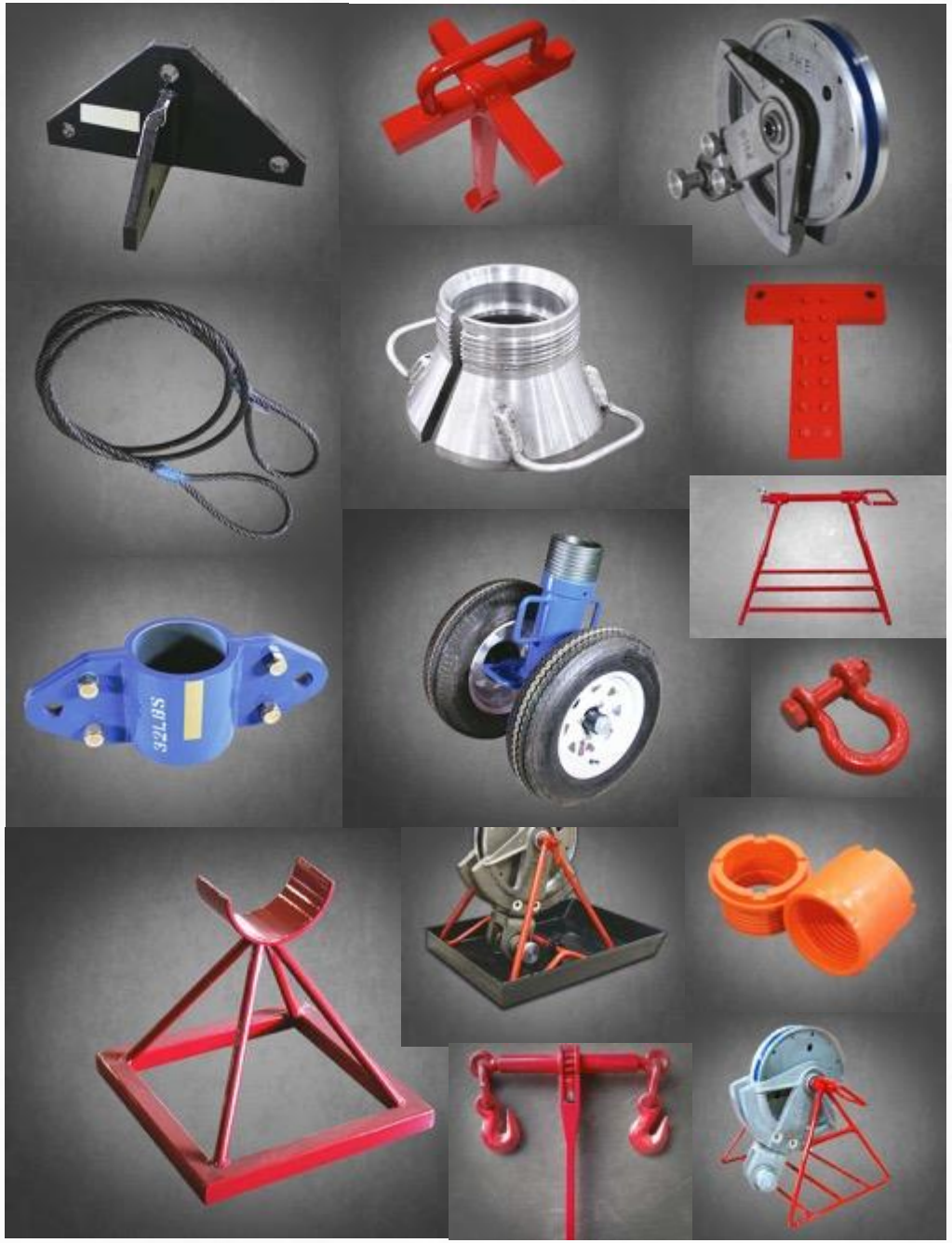
PRESSURE CONTROL EQUIPMENT

- Internal Diameters from 2-1/2” to 7-1/16”
- Pressure Ratings from 3k to 15k WP and 22.5k TP
- Standard or H_2S Service Materials
- Most Connections Including 2 Threads per Inch
- Engineered, Manufactured & Certified to API 6A
- Single, Dual, Triple, or Quad Wireline Valves
- Manual or Hydraulic Controlled Wireline Valves
- Lightweight Sanicro Alloy or Steel Risers
- Industry Leading Dual Flapper Tool Trap
- Cradle to Grave FHE Core Package Certification
- FHE Painting Facility for Client Paint and Identification
- Custom Fabrication of Skids and Trailers



HANDLING EQUIPMENT

- Load-tested and Certified Upper and Lower Sheave Wheels
- Sheave Wheel Hangers, Floor Stands, and Drip Trays
- Load-tested and Certified Spreader Bars
- Load-tested and Certified Lifting Sling and Shackle Sets
- Load-tested and Certified Lubricator Lifting Clamps
- Guides for Easy Entry of Tools into Lower Riser
- Wheeled Dollies to Maneuver PCE String
- Support Stands for Tool, Gun, or PCE Strings
- Wireline Clamps for Safe Support of Wireline in the Well
- Steel, Aluminum, or Plastic Thread Protectors
- Tie Straps and Load Binders for Transport of PCE
- Client Specified Equipment for Turnkey Packages



GREASE INJECTION & HYDRAULIC CONTROLS

- Diesel Powered Hydraulic Driven or Air Driven Units
- 5K, 10K, or 15K WP Hydraulic Driven Grease Pumps
- 5K, 10K, or 15K WP Air Driven Grease Pumps
- Hand Pump or Air Driven Pump Hydraulic Controls
- Loose Hoses or Mounted to Wet Center Reels
- No Reels, Hand Driven, or Hydraulic Driven Reels
- Air-Driven Glycol Injection and Pressure Test Systems
- Air-Driven Hydraulic Controls for Greaseless Cable
- Grease and Hydraulic Systems Separated or Combined
- Reliable FHE Designed 15K Grease Intensifier Pump
- Clear, Concise, and Logical Easy Clean Control Panels
- Supplied With or Without Grease Barrels or Totes



TRAILERS

- Turnkey Single Source Packages
- PCE, Control Units, and Accessories Custom Mounted
- Tandem or Triple Axle Trailers
- Pick-up or 18-wheeler Articulated Trailers
- Open Back or Curtain Enclosed Trailers
- Customer or Fhe Supplied Trailers
- Safety Steps, Handrails, and Tie Down Clamps
- Dot Inspected and Painted to Clients Colors
- Supplied to Most Large Wireline Fleets in the U.S.
- Manufactured in In-house Workshops
- In-house Drive Through Paint Booth
- Custom Designed, Engineered, and Manufactured



SPARE PARTS & CONSUMABLES

- Spare Parts Readily Available from Various Facilities
- Competitive Pricing to Ensure Client Retention
- Large Stocks of Common Consumables
- Large Stocks of Common Machined Parts
- Same Day Dispatch by Courier Shipper
- Elastomers Supplied Individually or Pre-packed Kits
- Wireline Valve Inner and Outer Seals
- Grease Injection Head Flow Tubes
- Pack Off and Line Wiper Brasses and Elastomers
- Greaseless Cable Head Brasses and Elastomers
- API Flange Bolts and Sealing Rings
- Client-Specific Spare Parts Consigned Stock



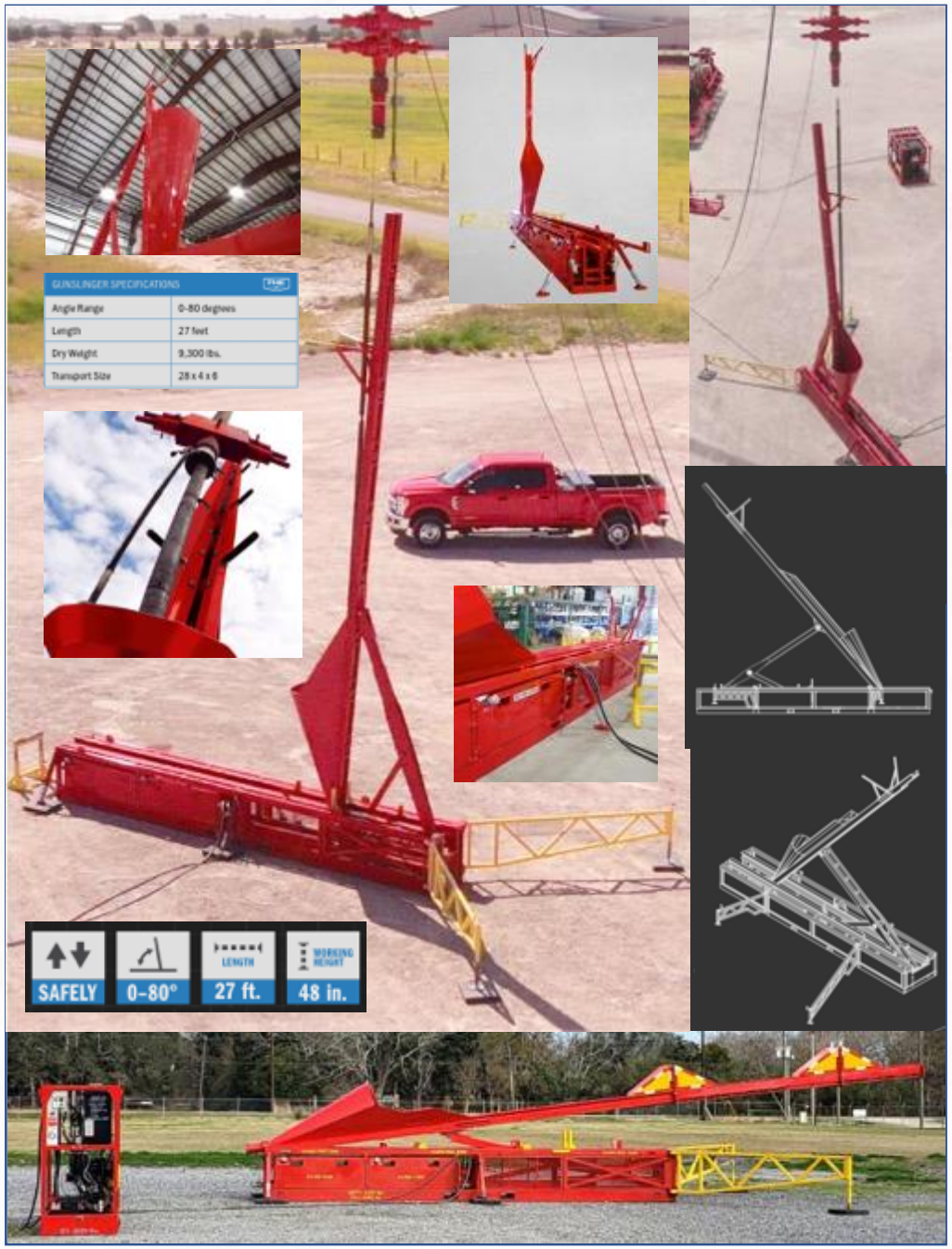
PERFORATING EQUIPMENT

- Competitively Priced
- Switches
- Detonators
- Primer Cord
- Setting Tool Power Charges
- Setting Tools
- Perforating Gun Carriers and Loading Tubes
- Perforating Charges
- Release Tools
- Explosives Magazines and Bunkers
- Perforating Workshop Trailers
- Other Wireline Related Equipment as Requested



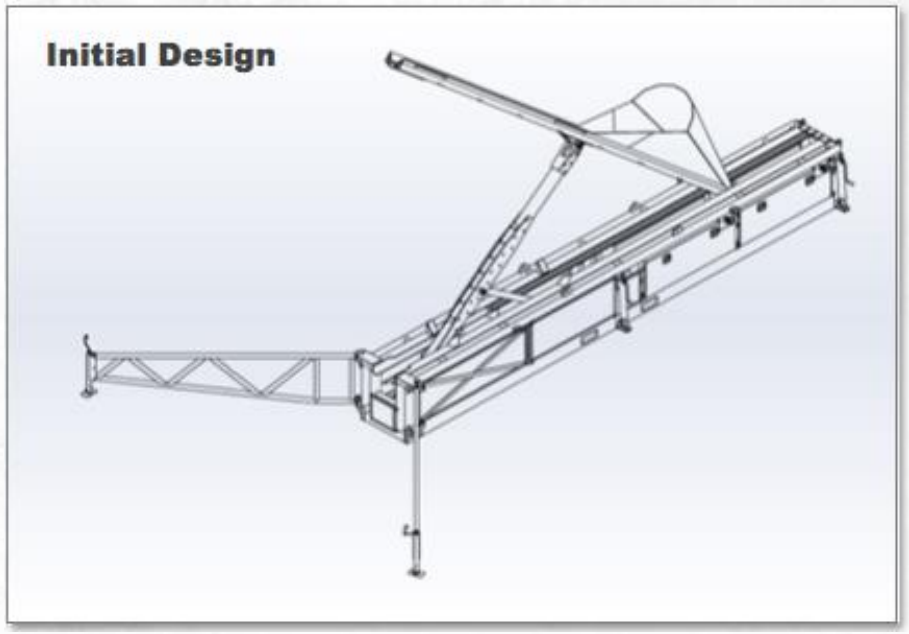
LAY DOWN ASSEMBLY DEPLOYMENT SYSTEM

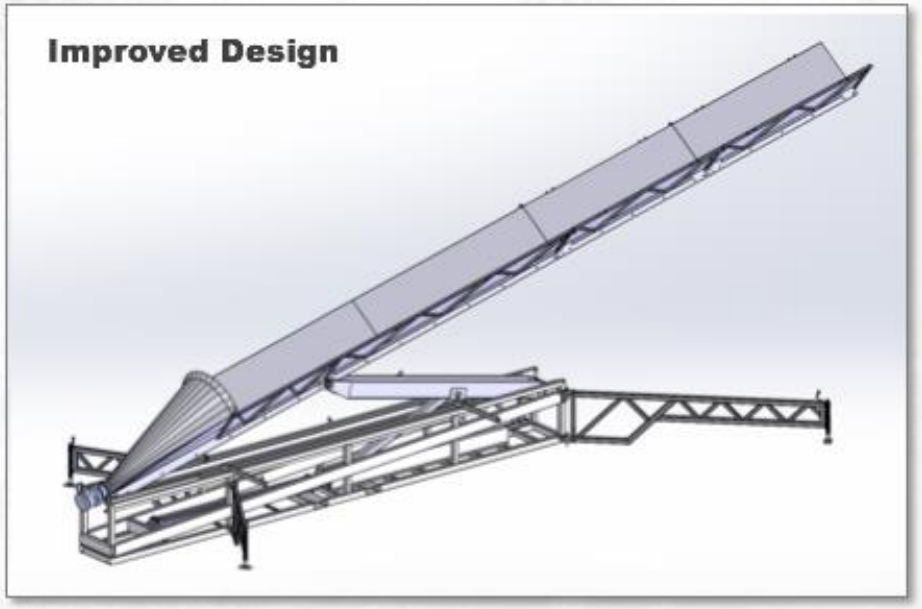
- E&P Company Mandated Wellsite Equipment
- Mandate Resulting from Q4 2020 Permian Death
- No Personnel Below Suspended Guns or Tools
- Increases Productivity, Profitability, and Safety
- Allows Ergonomic Horizontal Gun String Assembly
- 27’ Long X 48” High Workbench Bed with Rollers
- Funnel with Pivot Base Slides Horizontally
- As the Funnel Moves Horizontally the Bed Raises Vertically
- Wireline Winch Pulls Gun Assembly into PCE String
- Single-Man Operation from Up To 100’ Distance
- Funnel Allows Safe Tool Lowering from PCE String
- Available for Purchase or Rental



LAY DOWN ASSEMBLY LATEST IMPROVEMENTS

- Increased Lift Capacity of 1,000 lbs.
- Reduced 9,500 lbs. Lift Weight
- 26’ X 4’ X 6’ Enables Two to Be Transported on a Trailer
- Base Travel Length Increased to 26’
- Dual Outriggers for Increased Stability
- Total Gun Length Now 45’ with Extension Modules
- Chute Rollers Now Modular and Rubber Coated
- Rollers Now Modular and Quick Change
- Butt Stock with Quick Removal Rubber Covered End
- Hydraulic Cylinders Allow Variable Speeds
- Operating Angle Now 80 Degrees
- Added Fixtures for Breaker Bar Support






POWERHALT
EMERGENCY
SHUT-OFF VALVE

CUSTOMIZATIONS AND SPECIAL PROJECTS









Core

- Central to Client Support is the FHE Core Equipment Certification System
- Developed to Ensure Easy Online Client Access to Critical Certification
- Client Updates CORE with Self Planned Testing or FHE Tracks Major Work
- Designed In-House in 2014 by FHE to Certify PCE from Cradle to Grave
- Documented Photos and Records Plus Real-Time Certification Status
- Non-FHE Wireline, Coiled Tubing and Fracking PCE Also Certified

CORE CERTIFICATION

- All Equipment Photographed During the Process
- Client Can View Progression and Status Online
- Assemblies Pressure Washed then Logged into Core
- Each Assembly is Dismantled and Parts Logged into Core
- Visual Inspection of Each Machined Component
- Dimensional Inspection for Major Recertification
- Machined Parts Replaced When Applicable
- All Elastomers and Consumables Replaced
- NDT and Load Testing Carried Out When Applicable
- Equipment Re-Assembled and Pressure Tested
- Equipment Painted and Identified to Suit Clients Needs
- 5-Year Major Recertification of Non-FHE PCE as Well



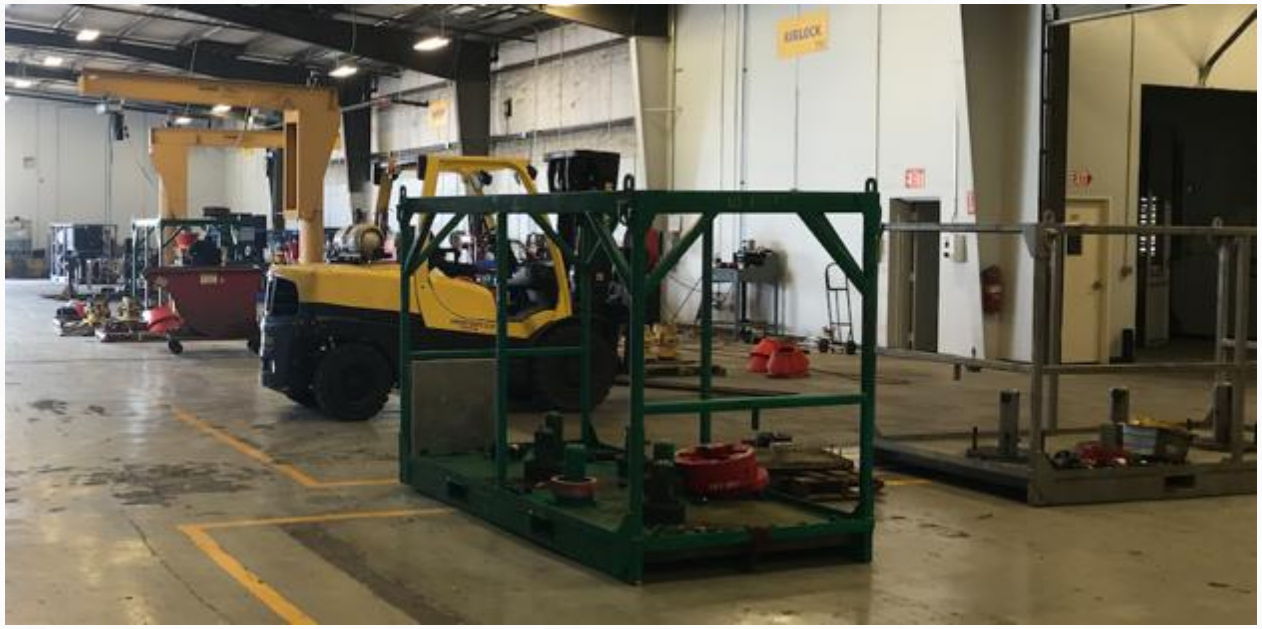
1-Year Recertification,
5-Year Major Recertification,
and Basic Pressure Tests

Any Manufacturer PCE
Equipment Handled

New FHE Core Birth
Certificate Created for
Non-FHE PCE

For a Single Assembly or
Complete Packages





Mobile, Cell, or Online Access to CORE Certification

Reminders When Certification Nears Revalidation Date

Equipment Painted to Client Specific Standards

Enhances Client Perception with Like New Appearance







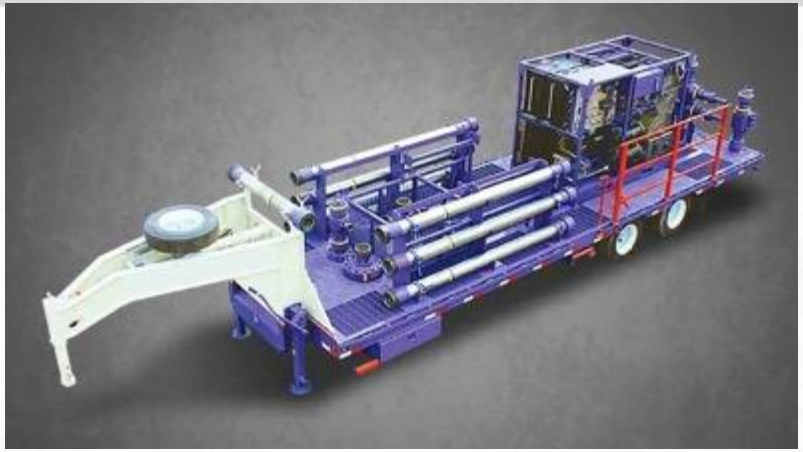
Spare Parts Stocked for
Fast Turnaround of PCE

Large Premises with Fully
Equipped Pressure Test Bay

Drive Through Paint Booth
for Complete Rebranding

Collect and Return Delivery
Handled by FHE











Corrosion-Free Connection (CFC)

- Significant increase in the operational life of pressure control equipment.
- Substantial decrease in maintenance requirements and associated expenses.
- Minimization of corrosion-related downtime, leading to improved production continuity.
- Reduction in equipment failure risks, contributing to enhanced workplace safety.





Accelerated Corrosion From Produced Water on Low Alloy Steel

Low alloy steel, despite its advantages with mechanical properties, can be susceptible to corrosion in extreme conditions. Produced water, high pressure, and high temperatures may present challenges and accelerate corrosion.

According to API and ISO, low alloy steel is a type of steel that contains small amounts of alloying elements to enhance its properties.

Corrosion on Various Manufactured Pressure Control Equipment



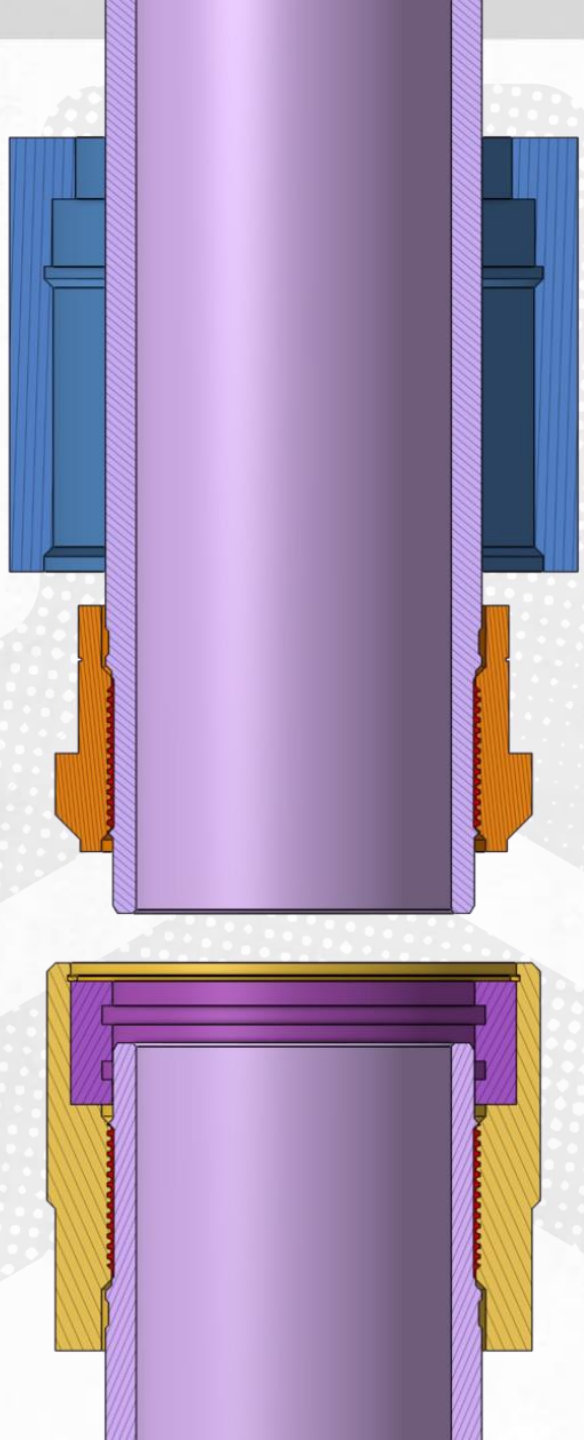






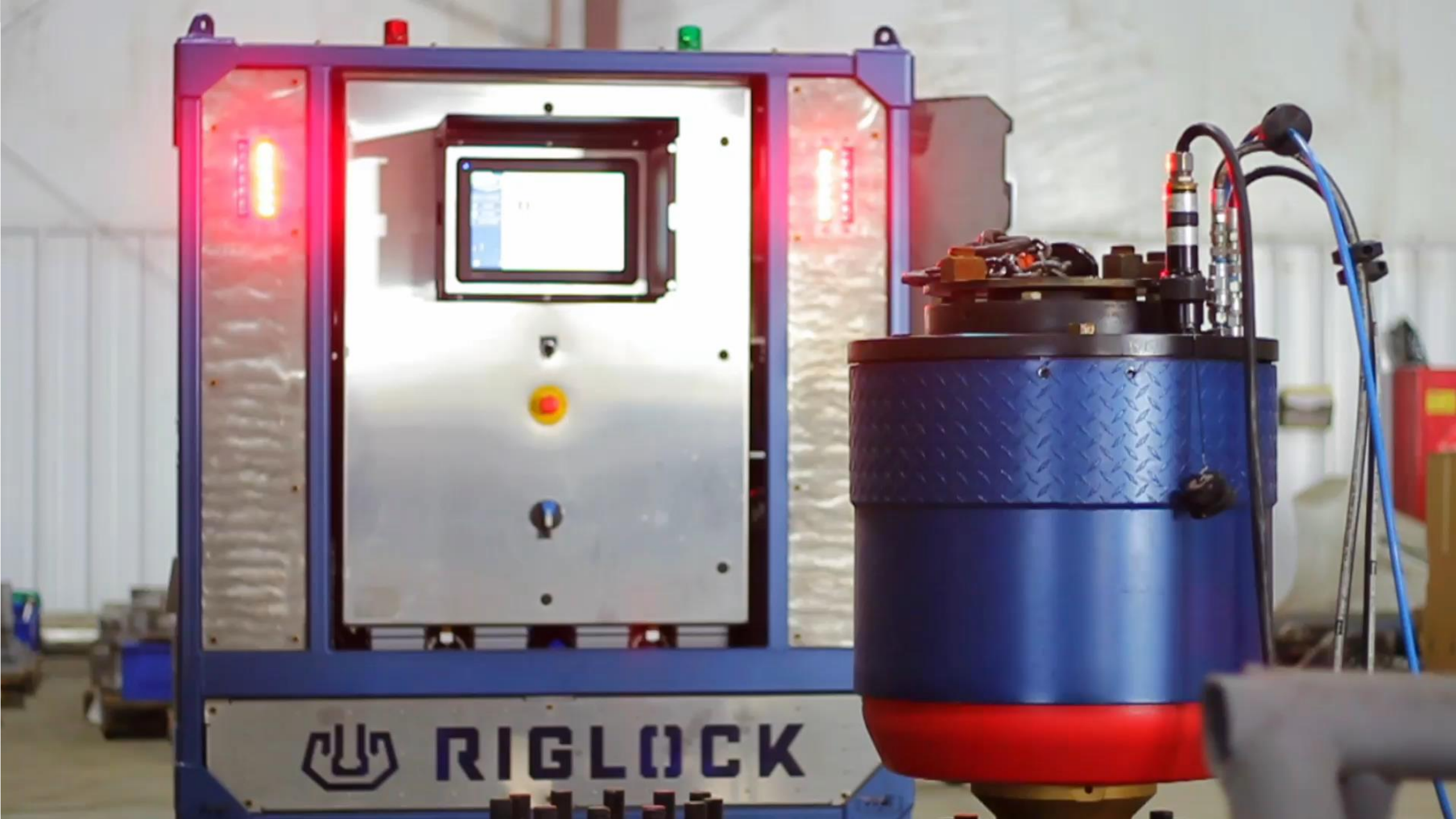
The Most Advanced Corrosion Protection Ever Available for Pressure Control Equipment

- Isolates bore fluids to only be in contact with corrosion-proof materials.
- Resistant to ALL dominant corrosive mechanisms.
- Reduces the cost of operations with less maintenance and downtime.
- Developed through years of research, analysis, and technological breakthroughs.
- Easily added to existing equipment.
- Patent pending technology



RigLock 2.0

- Advanced automation that significantly reduces the risk of human error during operations.
- The system can secure equipment to the wellhead in as little as 60 seconds, greatly minimizing downtime.
- RigLock has an industry-leading safety record, ensuring high operational integrity and safety for personnel.
- Field technicians operate the system with a simple touch screen, eliminating the need for complex valves and levers manipulation.


RIGLOCK


ESTD
2007
RIGLOCK
AUTOMATED INTELLIGENCE
2.0
FEARLESS INNOVATION


RIGLOCK

Built-in safety and reliability through automated intelligence and advanced technology that delivers secure, real-time data for operational excellence.

- Automates repetitive high-risk tasks minimizes human error, and proactively identifies potential safety hazards before they become dangerous.
- Minimizes human error and ensures consistent and reliable performance.
- Provides real-time data for informed decision-making and optimizes well performance on or off location.
- Automates repetitive tasks reduces downtime and streamlines wellhead operations.
- Ensures consistent and error-free wellhead connections.
- Intuitive interface and simple operations eliminate the need for advanced training requirements.





RigLock 1.0

- The Original Patented Wireline Wellhead Connection System Since 2016
- Automates Connection of Wireline PCE String to Wellhead
- Removes Personnel from Dangerous Red Zone
- PCE String Drops into the RigLock Connection and Hydraulically Locks
- Failsafe System with Proven Safety Track Record
- Major Time-Saving Efficiencies During Wireline PCE Wellhead Moves

RIGLOCK WIRELINE WELLHEAD CONNECTION

- Created a Revolution in the Plug and Perf Industry
- No Longer a Threaded Wellhead Connection
- Removes Need for Man to Screw Union to Wellhead
- Personnel No Longer 25’ in Air on Man Lift Crane
- No Trapped Fingers, Falling, or Pressure Leak Risks
- PCE String Lowers and Hydraulically Connects
- PCE String Moves and Connects Quickly to Wellheads
- Safely Automates Wireline Operations to Save Time
- Specified by E&P Companies to Improve Efficiencies
- Patented with Competitors Unable to Supply
- 10,000 PSI, 12,500 PSI, and 15,000 PSI WP Versions





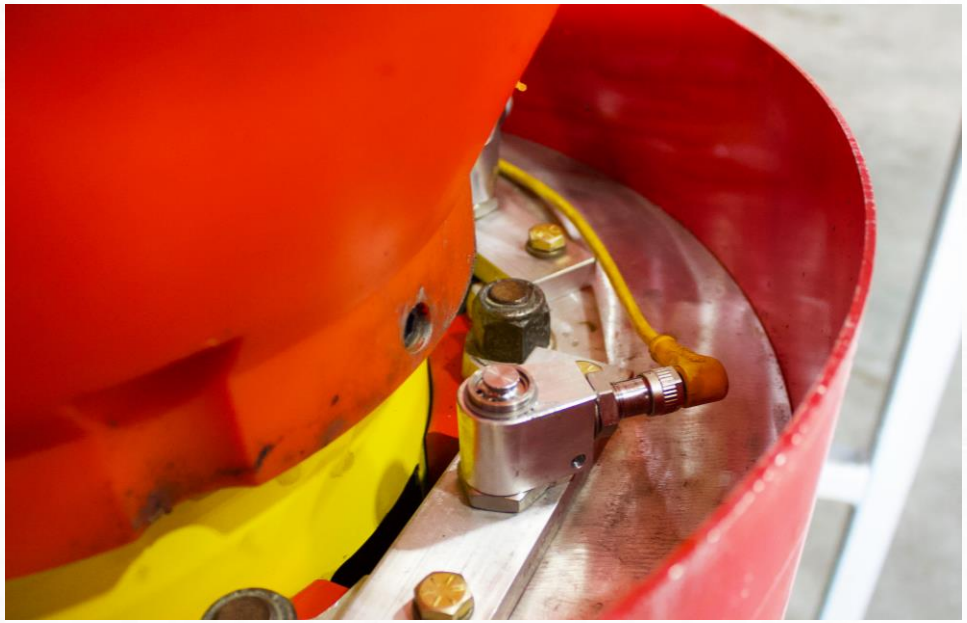
$4M to $5M Estimated Additional Annual EBITDA & 3 to 4 Additional Stages Per Day

Inbuilt Safety Features to Ensure Integrity of Connection & Prevent Accidental Disconnection



RIGLOCK LOCK RING SENSOR UPDATE

- Improved Reliability with Updated Sensor Construction, Placement, and Sensitivity.
- Sealed Connections and Components Protect Against Produced Water and Other Corrosive Contaminants.
- New, Rugged Design Eliminates Indication Errors While Setting the RigLock Lock Ring.
- Made with Corrosive Resistant Materials.
- Bolt-In Design Expedites Field Service and Equipment Inspections.





FracLock

- Introduced in 2019 and Evolved from Proven RigLock Technology
- Trailer Mounted Articulated Arm with 5-Axis of Mobility and Gyro Sensors
- 7-Inch 15K Dynamic Flow Iron for Maximum Material Flow
- Dynamic Flow Iron Engineered for Quick & Safe Wellhead Connection
- Less than 5 Minute Transition from One FracLock Connection to Another
- 62 Million Pounds of Sand Pumped at 12.5K Completing 92 Stages in 15 Days

FRACKLOCK UNIVERSAL WELLHEAD CONNECTION

- Eliminates 85% of Pumping Iron from the Wellsite
- Increases Stage Production and Personnel Safety
- Accepts Pumping, Wireline, and Coiled Tubing
- Removes Leaks and Hammer Unions from the System
- Swivel Joints on Scorpion Arm Minimize Friction
- Full 7” Through Bore from Missile to Wellhead
- Can Accommodate 10 Wellheads within 40’ Radius
- Remote Panel Operation with Auto Fold Rig Down
- Trailer Mounted Diesel-Driven Hydraulic Power Unit
- Diesel-Driven Control Unit for Connection Functions
- Iron Integrated with Articulated Arm
- Available for Purchase or Rental





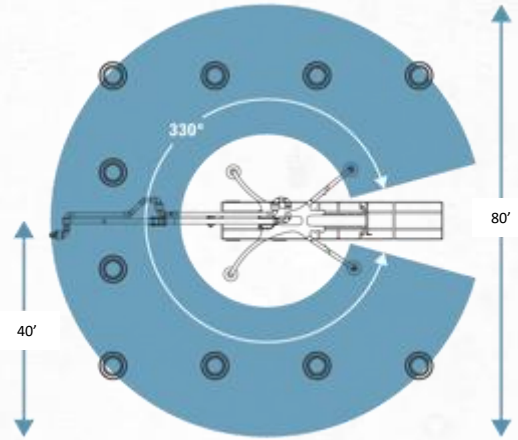
4 Hour Rig-up Time Compared to 2 Days Plus Cleaner, Safer Wellsite Using Rear Mounted Missile System



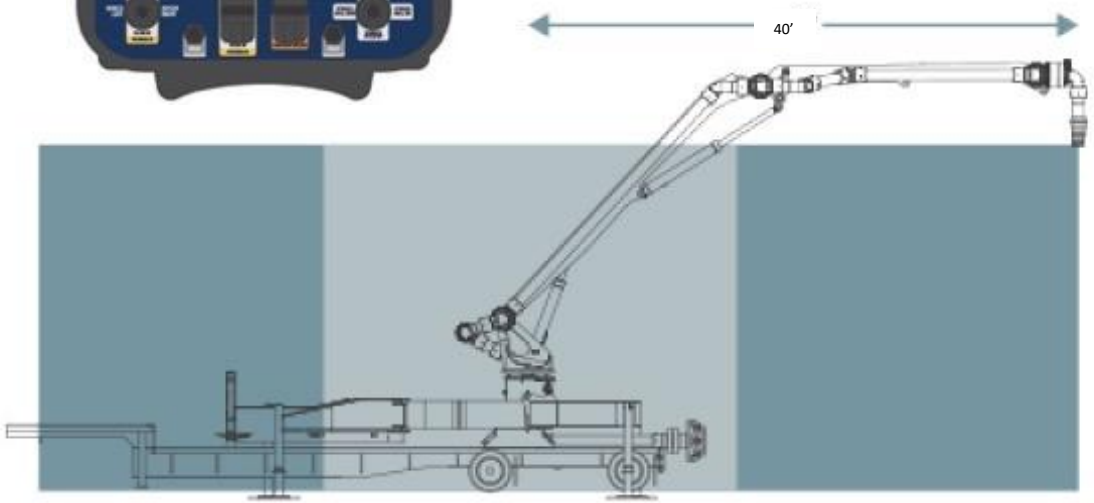










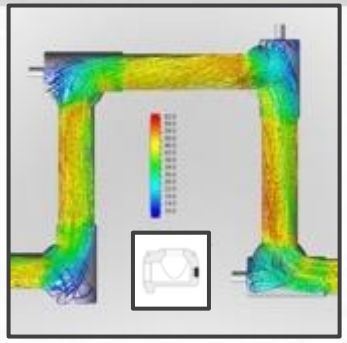


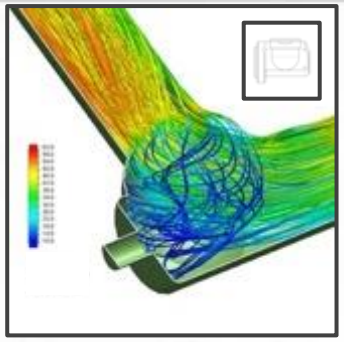


<5 Minute Swap Time of Articulated Arm with Stinger Between Wellhead Connectors Maximizes Pressure Pumping Trailers Utilization

5 Axis of Rotation with Modular Engineered Swivels Constructed for High-Pressure Abrasive Fluids

Capable of Pumping up to 130 BPM of Fluid at 15,000 PSI Working Pressure with Dynamic Flow Iron, Stinger, FracLock System



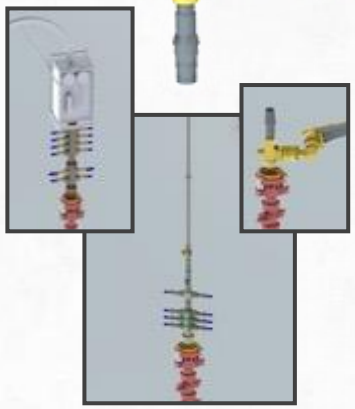












1,550 Sand Box Containers Holding 40,000 Pounds Each is 62 Million Pounds of Sand


Genie S-80 XC



Well 1
Pressure
Pumping

Well 2
Coiled
Tubing

Well 3
Wireline
Perforating

Well 4
Next
Process



QUESTIONS ?

sales@builtbyfhe.com



www.builtbyfhe.com