

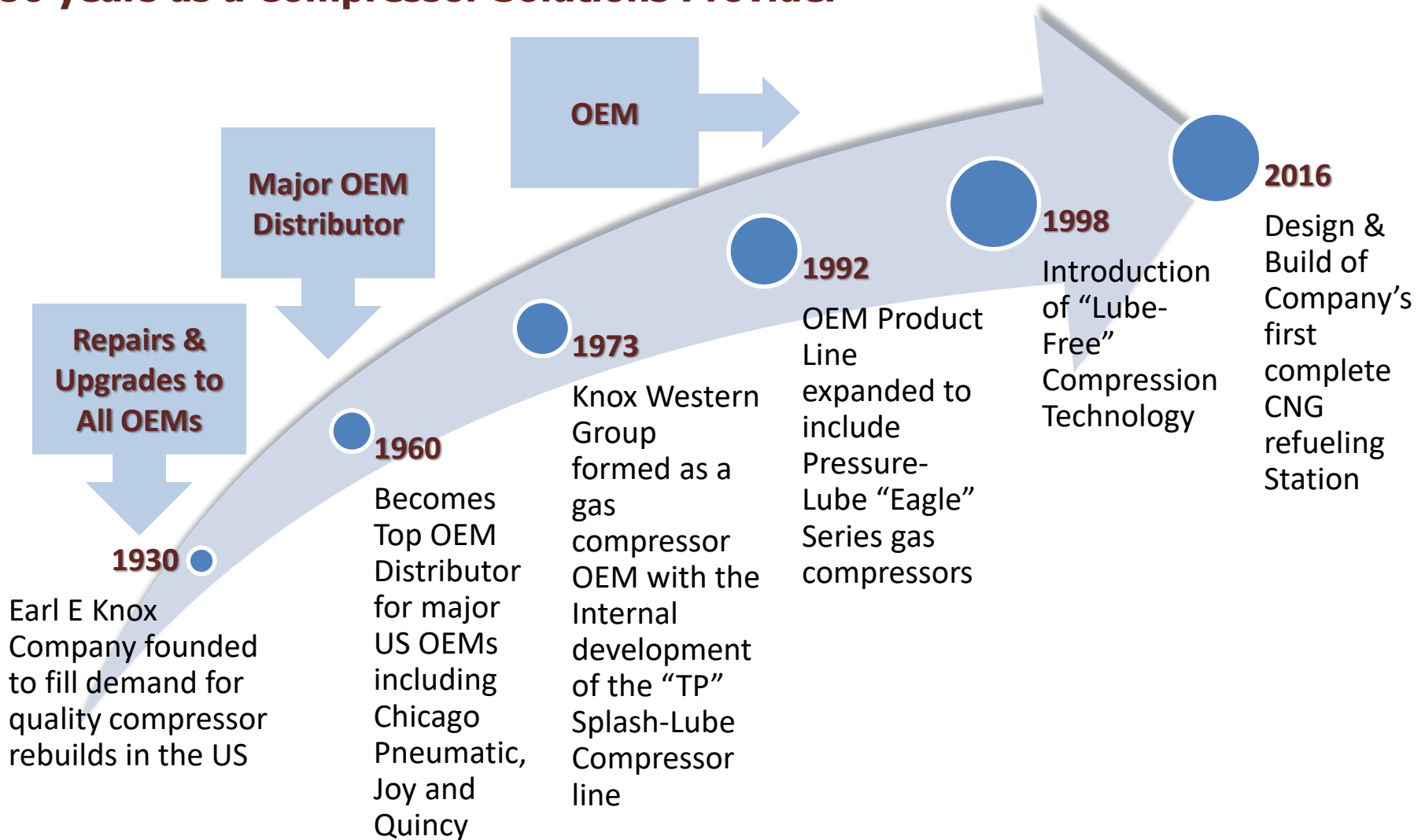


World-Class Reciprocating Gas Compressor Solutions

Introduction to Knox Western



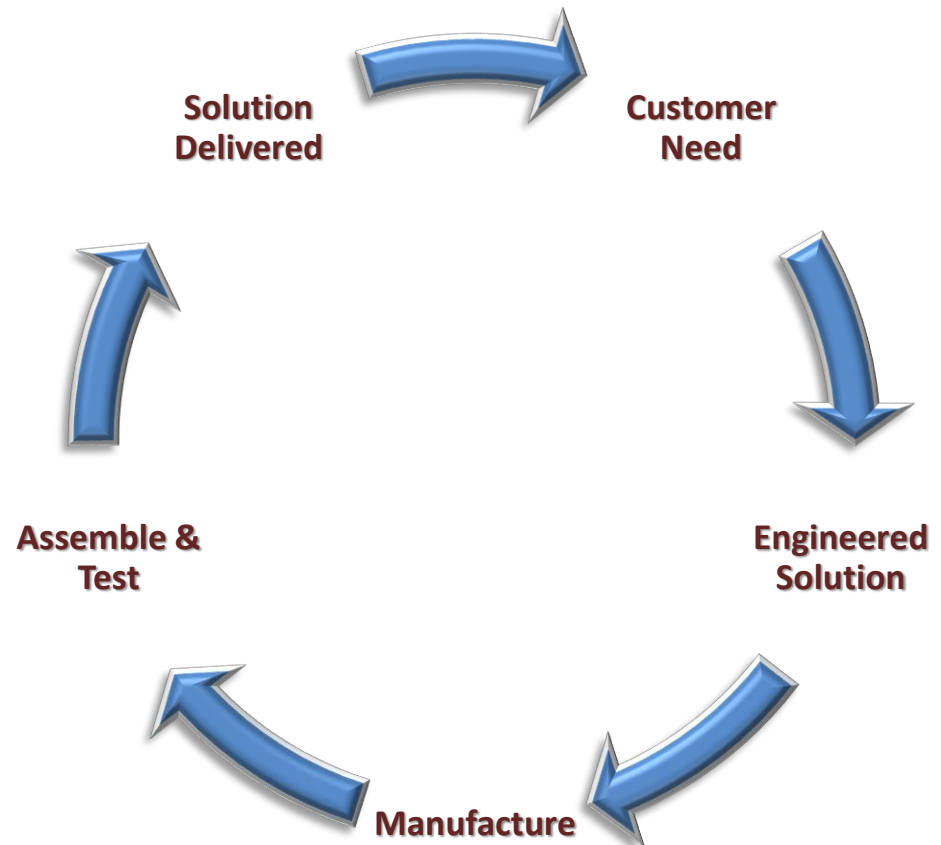
86 years as a Compressor Solutions Provider



Compression Solutions



- Begins with thorough review of Customer's application and needs
- Solution is developed, configured and engineered
- Manufacturing Cycle
- Assemble & Test
- Solution Delivered

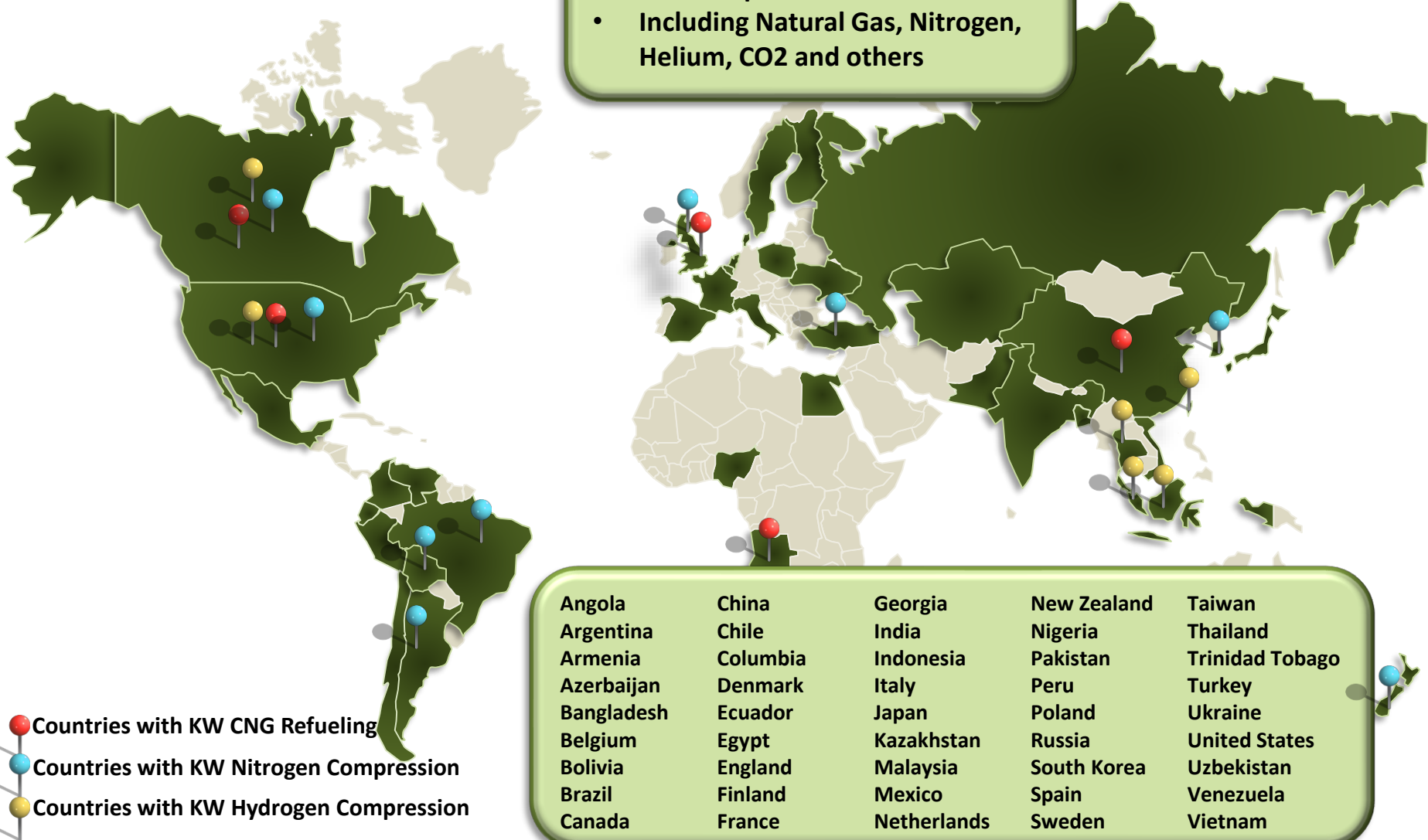


Entire process completed in-house
Solution Cycle typically 2-10 weeks

Global Reach



- Extensive Installed Base of Over 3,000 Operating Reciprocating Gas Compressors in 45 Countries
- Including Natural Gas, Nitrogen, Helium, CO2 and others



Product Capabilities



TP Series

Discharge Pressures up to 7,800
PSIG

3", 3.5" & 4.5" Strokes

550 to 1,800 Continuous RPM

30 to 560 Horsepower

6,000 to 9,000 lb. Combined
Rod Loads

Splash Lube Frame to 60 H.P.



Eagle Series

3", 3.5" & 4.5" Strokes

Discharge Pressures up to 7,200
PSIG

1,200 to 1,800 Continuous RPM

200 to 1,400 Horsepower

24,000 to 60,000 lb. Combined
Rod Loads

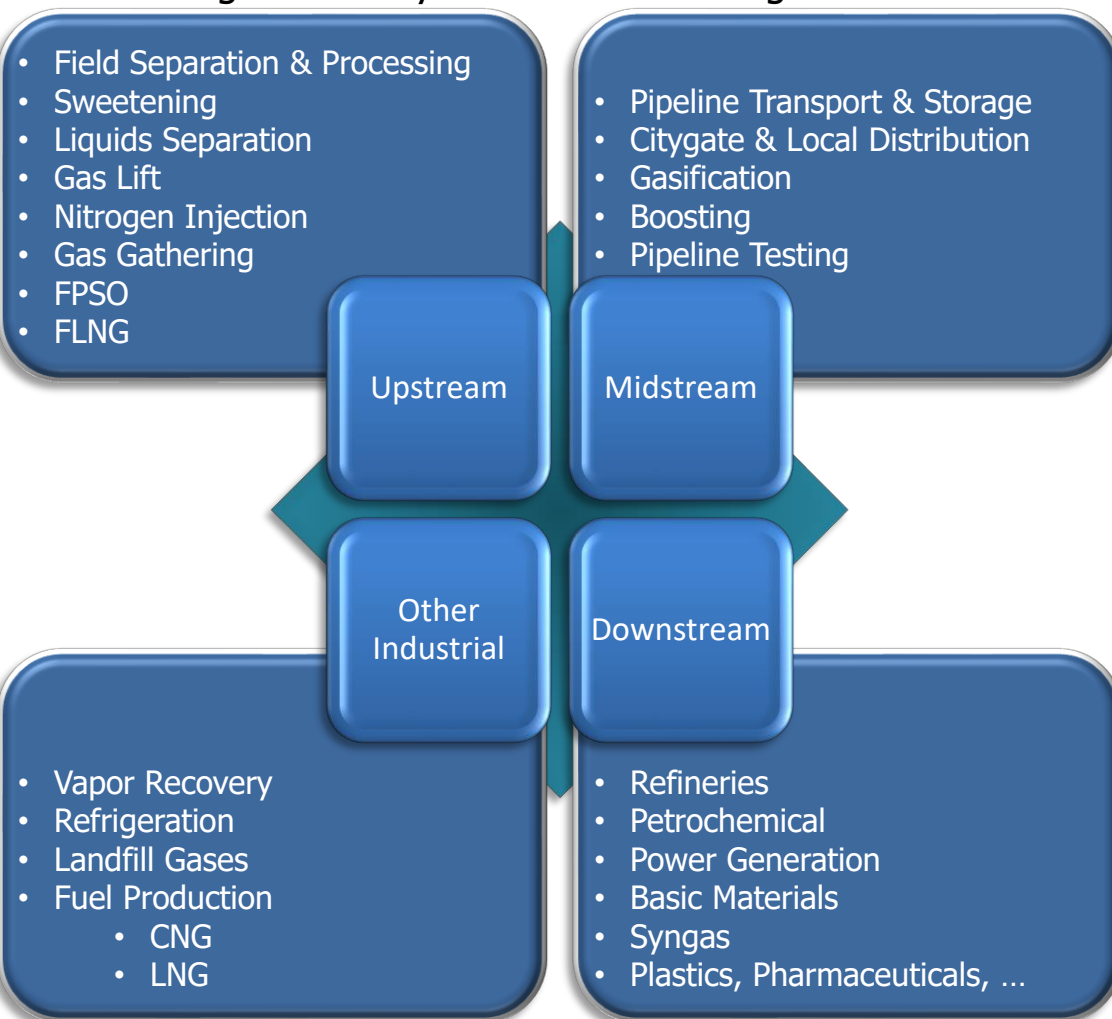
Pump-to-Point, Progressive Lube
or Non-Lube

Single to Eight Stage
1-3/4" to 18-1/2" Cylinders

Applications



- Compressor Applications are principally derived for the Oil & Gas industry
- Along with many other industrial segments



- Knox Western has a long & successful history of compressing a wide variety of gases including:

- 
- The background of the slide features a faint, light gray molecular structure. It consists of numerous spheres of varying sizes connected by thin lines, representing atoms and their bonds in a complex, branching arrangement.
- **Natural Gas**
 - **Methane**
 - **Butanes**
 - **Ethane**
 - **Propane**
 - **CO**
 - **CO2**
 - **Argon**
 - **Associated Gases**
 - **Nitrogen**
 - **Helium**
 - **Hydrogen**
 - **Syngas**
 - **Landfill Gas**

CNG Compressors



- Pure CNG Compression Technology
 - Knox Western's first complete turnkey refueling station
 - With our time-tested OIL-Free
 - TP145 compressors at the heart
 - Providing high-quality Pure CNG Fuel



Engineering



- Over 100 years of design experience
- Including a myriad of applications and processes
- Sophisticated, Proprietary Design Software
 - Uses experiential data base with thousands of applications to ensure an optimum solution including compressor and skid designs
- Rapid Engineer-To-Order capabilities for non-standard or emerging applications
- Sophisticated Engineering tools
 - Solid Works®
 - AutoCAD®
 - FEA

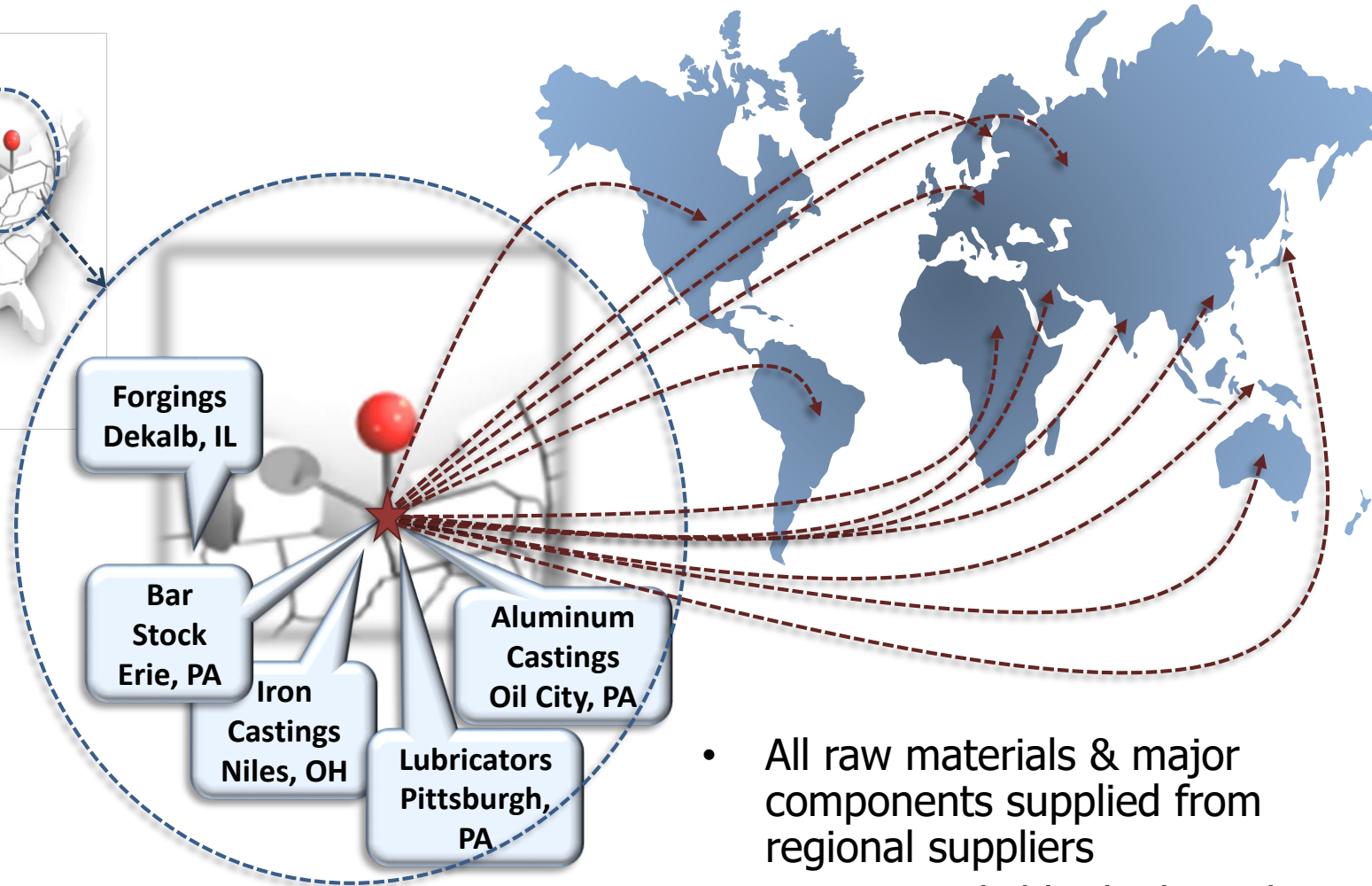
The image displays three overlapping screenshots of the Knox Western Performance Software interface, illustrating its capabilities in compressor design and analysis.

Top Screenshot (General/Operating Conditions): Shows project information including Project Notes, Quote #/ID (Q#12345), Customer (Jon Doe), Inquiry Notes (Major Packager), Project Notes (CNG Units), Order Status Notes, Project Engineer (Open), Inquiry Dates (Not Yet Specified), and Application Type (Not Yet Specified). It also includes input and output unit selections for Power (HP).

Middle Screenshot (Unit Performance [F10]): Displays the current unit configuration and performance parameters. Key values include Suction Pressure (225.0000 psig), Discharge Pressure (1450.0000 psig), Rotation Speed (1800 rpm), Torque Setpoint (100.00 %), Ambient Temperature (109.9999 °F), 1st Stg Suct Temp (65.0000 °F), and 2nd Stg Suct Temp (120.0000 °F). It also shows a flow diagram with stages and a table of stage results.

Bottom Screenshot (Unit Design/Unit Performance [F10]): Shows the unit design and performance results. It includes a table of stage results (Stage #1, Stage #2) with parameters like Ps @ Gage, Pd @ Gage, Adiabatic Td, Zs, Gaspk, Pressure Ratio, Ps @ Flange, Pd @ Flange, Load per Stage, and Flow per Stage. It also displays a table of cylinder end results (Cylinder #1-CE, #2-CE, #3-CE, #4-CE, #5-CE) with parameters like Ps, Pd, Td, Est.Td, Zs, Vd, Vd%, and Vd%.

Logistics

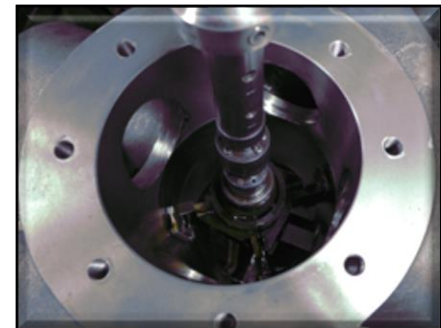


- All raw materials & major components supplied from regional suppliers
- Ensuring reliable, high quality and efficient material supply

Manufacturing Facility



- All manufacturing is completed in our dedicated factory using locally sourced materials assuring:
 - High Quality
 - Dependable Deliveries
- 36,000 sq' manufacturing space
 - 14 CNC machining centers
 - 23 Manual work centers
- Lean Manufacturing Enterprise



Spare Parts & Service



- Millions of dollars invested in inventory to ensure rapid availability of high-quality OEM replacement parts
- Short-Run Machining capability for rapid response to special orders



Key Customers



• Chevron	Worldwide
• CNPC (China National Petroleum)	China
• Sinopec	China
• PTT	Thailand
• KPO	Kazakhstan
• Exxon Mobil	USA
• Praxair	Worldwide
• Caltex	Indonesia
• PDVSA	Venezuela
• Petrobras	Brazil
• Shell America	USA
• UGV	Ukraine

Thank You



- Time-Tested Gas Compressor Designs
- Experience in Virtually Every Application With Every Gas
- Extensive Breadth of Reciprocating Compressors
- Rapid Engineer-To-Order Capabilities
- Vertically Integrated Production With Full US Materials and Manufacture

