Your Optimized Rig

Selecting the Right Equipment to Make YOUR Rig Safe and Profitable

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Rig Purchasing Considerations

• No “One Size Fits All Solution”

• Rig Supplier Should Be a Business Consultant

• Difficult Equipment Upgradeability

• Product Support/Warranty
What Size Rig?
Materials & Application

- Foam
  - Open Cell
  - Closed Cell
  - Roofing

- Polyurea
  - Specifications
    - Temperature
    - Pressure
Components Selection

- Proportioner
- Hose/Spray Gun
- Material Supply Package
- Genset
- Compressor
- PPE
Proportioners

- Drive
  - Electric
  - Hydraulic
  - Air
- Power
  - 1 Ø vs 3 Ø
- Pressure
  - Low (2000 psi)
  - High (3500 psi)
- Heat
  - Delta “T” Requirements
- Hose Length
  - 200’ vs 300’
Spray Hose / Spray Gun

Spray Hose
- Size
  - ½” vs 3/8” vs ¼”
  - Combination
- Pressure
  - Low Pressure (2000 psi)
  - High Pressure (3500 psi)
  - Mate to Proportioner
- FTS (Thermocouple)
  - Location

Spray Gun
- Spray Gun
  - AP vs MP
Material Supply System

- **Stick Pumps**
  - Drum Mounted
  - Wall Mounted

- **Diaphragm Pumps**
  - Drum Mounted
  - Wall Mounted

- **Totes**
  - Stick Pump
  - Diaphragm Pump
  - Gravity Feed
Proper Power

- Calculating Requirements (1 Ø vs 3 Ø)

  • Main (220v)
    - Proportioner
    - Primary Heater Size
    - Air Compressor
    - Heater

  • Minor (110v)
    - Air Dryer
    - Heater / Air Conditioner
    - Lights, Outlets, Tools, Etc.
Power Source

Generator
- Power requirements
  - Generator Size
    - Reactor(s), Air Compressor, Heater/Air Conditioner, Air Dryer, Lights, Etc.
- Shore Power vs. Generator
  - 1 Ø vs 3 Ø

Shore Power
- Licensed Electrician
- On-Site Power
  - Volts / Amps / 1 Ø
  - Brown Power
- Shore Cable
Proper Air

- Calculating CFM Requirements
  - Spray Gun
  - Transfer Pumps
  - Respiratory Protection
  - Cool Tubes
  - (Pneumatic Proportioner)
  - Pneumatic Tools
Air Compressor

- Compressor Types
  - Piston
  - Screw/Rotatory Screw
  - Hydrovane

- Continuous Run

- Air Filtration (for use w/ breathing systems)
  - Stage 1: Water Separator (10 Micron)
  - Stage 2: Refrigerated Air Dryer (3-5 Micron)
  - Stage 3: Coalescing (0.01 Micron)
Personal Protective Equipment

• Respirators
  – SAR Supplied Air Respirator
    • High Pressure (filtration panel)
      – Full Face Respirator
      – Hood
    • Ambient Air Systems
  – Half and Full Face Respirators
    • Organic Vapor cartridge
    • N95 Particulate Filter  (3M recommendation for MDI)
Layout

• Separate compartments
  – Work Area/Gen Room
• Weight Distributed
  – Balanced Full/Empty
• GVWR
  – Tow Vehicle
  – CDL Requirements
Recap

• No “One Size Fits All” Solution

• Rig Supplier Should Be a Business Consultant

• Little “trade-in” Value

• Very hard to Upgrade Individual Pieces of Equipment
• VISIT US IN BOOTH 521