The Phoenix exhibits zero shrinkage throughout the expansion process, resulting in significantly reduced material costs. Additionally, the innovative Phoenix expansion method leaves delicate tube enhancements undamaged, creating more opportunity for experimentation with radical new enhancement designs for improved heat transfer quality.

**PRODUCTION**
1m Coil Length: 30 seconds
*Includes Table Operations, Loading, and Unloading

**FOOTPRINT**
12’ (3.66 m) wide
6.5’ (1.98 m) deep
8’ (2.44 m) tall
*excluding compressor and storage tanks

**WEIGHT**
≈ 3,500 lb (1,600 kg)

**AIR**
1 ft³/min at 80-100 psi
(0.03 m³/min at 5.6 bar)
*Excluding specs for the high pressure air

**POWER**
8 kW @ .80/.82 PF
24 VDC Controls
*Compressor power based on coil volume
**Foundation information supplied upon request
**Economic Advantages**

- Elimination of mechanical bullets and rods.
- Substantial reduction in scrap rate.
- Expansion speed of 30 seconds per coil on a 4-station rotary system.
- Significant reduction in tube material costs due to zero shrink technology.
- Considerable reduction in overall machine floor space and overhead space.
- Identification of substandard coils earlier in the production process, saves downstream material and labor costs.

**Technical Advantages**

- Substandard tube detection during expansion process.
- Pneumatic expansion reduces compression forces on coil.
- Innovative bell and flare reduces downstream production challenges with solutions for hairpin peg-leg.
- Leaves flare region un-workhardened for optimal flare.
- Improved flare diameter control.
- Zero deformation of inner-tube enhancements.

**User Advantages**

- Ergonomic load and unload station, reduces strain on employees.
- Light curtains for safety allow for optimal efficiency, movement and protection.
- Touchscreen setup allows for rapid expansion diameter adjustments.
- Tooling changeover pulley system makes for fast tooling changeover.
- Operator touch screen controls can be configured for different languages.