





Airmo Inc.® is a manufacturer of pressure technologies with working pressures up to 60,000 psi (4,137 bar).

For over 75 years, we have developed innovative ideas for safe, reliable products used in tube and pipe manufacturing, fabrication, and research.

We listen to our customers concerns for tighter tolerances to meet production and industry quality standards. We then use this criteria to create a unique system, or tool solution to meet the project requirements.

Our exclusive, patented tool design provides unparalleled performance and safety under pressure. Standard product or customized design – our tools work hard under the most extreme pressures and operating conditions.

Our products are sold and shipped globally to serve the needs of many different manufacturing industries mainly focused in Aerospace, Defense, Energy, HVAC, Metal Fabrication, Refrigeration, Subsea, Transportation, Tubes and Pipes.

We recognize your desire to drive the production process towards lower costs and higher quality output. The superior craftsmanship of Airmo systems and tools will give you years of trouble-free service and help lower production costs over the life of your equipment.

## **Our Brands:**









## **Our Founder:**



George A. Smida



#### **Model HPS**

#### **Hydrostatic Pressure System**

The TestMaster® Model HPS Hydrostatic Pressure System is a high-performance source of hydrostatic water pressure used for leak tests, tube expansion, and swaging. At its core is an air-driven water pump, providing up to 30,000 psi (2,068 bar) water pressure when driven by only 100 psi (7 bar) air.

The HPS System when combined with TestMaster® Hydrostatic Test Tools provides a safe, efficient means of leak testing for tube and hose assemblies, valves, and air-conditioning coils. When combined with ExpanTek® Hydro-Expansion Tools, it can perform tube expansion for heat exchangers or tube-to-tube sheet swaging.



#### **Model 30096**

#### **Burst Test Chamber**

Manufactured to your specifications, our Burst Test Chambers provide a safe, efficient means of destructive and non-destructive pressure testing for tubes, valves, air-conditioning coils, and hose assemblies. The Burst Test Chamber can be controlled manually or equipped with PLC. Burst Test Chambers are portable and easily installed using standard plumbing systems and can accommodate oil or water services. System pressures range up to 60,000 psi (4,137 bar).



#### **TestMaster®**

#### **Hydrostatic Test Tools**

The TestMaster®Tool Series offers, fast, snap-on coupling and positive sealing of tubes, tube assemblies and systems. Tools are designed and manufactured for a dedicated tube diameter. Working pressure ranges from 5,000 psi (345 bar) to 40,000 psi (2,758 bar).

Quality, durability, performance, and safety built into every system and tool.



**LPH & LPHE Series**Pressures up to 5,000 psi (345 bar)







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# We can also customize to your exact specifications



Pressures up to 30,000 psi (2,068 bar)



#### **Model 310 Series**

#### Hydrostatic Hose Test Tool

The Model 310 Tool tests hoses and fittings with NPT or standard thread configurations with working pressures up to 30,000 psi (2,068 bar).

# Model 350 Series

#### Hydrostatic Bottle and Cylinder Test Tool

The Model 350 Tool is used for production testing of bottles, cylinders, tanks, and other components with working pressures up to 15,000 psi (1,034 bar).





**End Forming Tools** and Systems















**Model 400 Series** 

#### **End Forming Tools**

The SelectForm® Model 400 Series End Forming Tool is a dedicated hand-held tool that accurately expands, reduces, beads, or flares a single shape on the end of tube diameters from 0.19 in. to 1.38 in. (4.7 mm to 35.0 mm). Tools utilize two quick disconnects for easy connection to the Hydraulic Power Unit. Working pressures up to 3,000 psi (207 bar).



### **Model 450 Series**

**Swagging Tools** 

The patented SelectForm® Model 450 Series Swaging Tool is designed to swage a tube into a tube header by forming two beads, one on each side of the header, thus expanding and locking the tube into place. The Model 450 Series Tool handles standard and metric tube, pipe, and fitting sizes from 0.62 in. to 3.50 in. OD (15.7 mm to 88.9 mm OD) in diameter. For each specific tube outside diameter, the tool can accommodate a range of wall thicknesses.

#### **Model M Series**

#### **Modular End Forming Tools**

The SelectForm® Model M Series End Forming Tool is designed as an easily interchangeable module that precisely expands, reduces, beads, or flares a single shape on the end of tube diameters from 0.13 in. to 3.00 in. OD (3.2 mm to 76.2 mm OD). Tools can be mounted as a singlestation or multi-station configuration on top of the power source. Working pressures up to 3,000 psi (207 bar).





## **Model 400 End Forming System**

#### Hydraulic Power Unit

The SelectForm® Model 400 Hydraulic Power Unit is designed specifically to meet the power source needs for Airmo end forming tools. The standard Model 400 Hydraulic Power Unit is supplied with an integral oil to air heat exchanger for cooling the hydraulic fluid to provide a continuous duty cycle. Simply insert a tube into the tool and actuate the electronic foot switch. A cycle automatically completes a finished form in 2 to 5 seconds. System pressures up to 3,000 psi (207 bar).



#### **Model M-M6 End Forming System**

#### **Custom Modular End Forming Systems**

Airmo offers custom designed hydraulic tube end forming machines in singlestation units or multi-station configurations to be used with our Modular Ending Forming Tools. Tooling is permanently mounted on semi-enclosed or enclosed stands simplifying tube insertion for the operator during the forming cycle. Smaller units have casters for easy portability and large units are skidded for transfer with a forklift.





#### **Tube Expansion Systems and Tools**



#### **Model HPS**

#### **Hydro-Expansion Pressure System**

The ExpanTek® Model HPS Hydro-Expansion System uses a expansion method that pre fills a tube with water and pressurizes the tube past its elastic yield point, thus expanding the tube. This technique is used extensively for baseboard heater assemblies and air-conditioning coil production when bonding tubes to a fin assembly. Customized systems can be engineered and built to meet customer specifications for exterior dimensions, pressure capabilities, or expansion requirements. System pressures up to 20,000 psi (1,379 bar).



#### **Model TH**

"Unparalleled Performance and Safety Under Pressure!" ®

#### **Triplex Ball Expansion System**

The ExpanTek® Triplex-Hydro Ball Expansion System is designed specifically for mechanical tube expansion applications. The ball expander process uses water pressure to force a ball through the inside of the tube, thus expanding tube to the desired diameter. The amount of expansion that takes place is related to the ball diameter and thickness of the tube wall. This method is used for straight length tubes where one operator performs the expansion. System pressures up to 10,000 psi (689 bar).





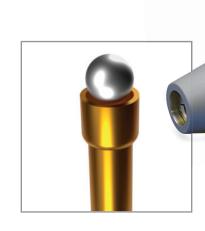
## **ExpanTek**®

#### **Tube Expansion Tools**

The ExpanTek® Tool Series offers fast, snap-on coupling and positive sealing for high-pressure expansion of tubes and pipes. This tool can quickly expand tubing for HVAC applications and tubular assemblies. Non-lever and lever-actuated models available. Working pressures from 10,000 psi to 30,000 psi (689 bar to 2,068 bar).



The ExpanTek® Model 22 Series Ball Expansion Tool is designed for high-pressure expansion of tubes using a chrome steel ball or bullet with a high-pressure water source. Working pressures up to !0,000 psi (689 bar).



# **Model 450 Series**

## **Swaging Tools**

The ExpanTek® Model 450 Swaging Tool is a hydraulically-actuated tube-to-tube sheet swaging device suitable for a variety of applications including: tube-to-header, ferrule attachment, fitting attachment, tube-to-baffle plates, and piece-to-piece attachment. Working pressures up to 15,000 psi (1,034 bar).





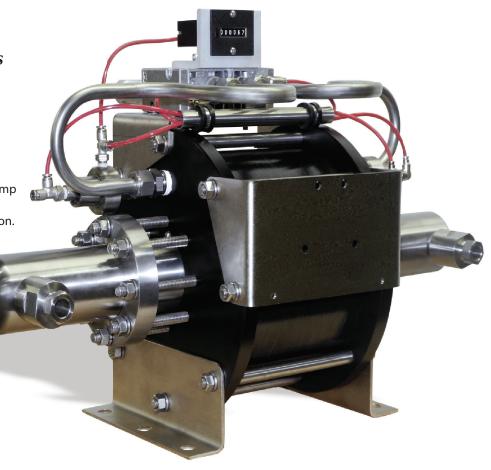
High-Pressure Accessories and Components

#### **Model 121375 Series**

#### Air-Driven Pumps

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The ExpanTek® Model 121375 Series Air-Driven Pump is compact, portable, and a safe pressure source when used for hydrostatic testing or tube expansion. Working pressures up to 30,000 psi (2,068 bar).



#### A-Series Accumulators

- Pressures to 20,000 psi (1,379 bar)
- Stores energy and improves system performance

# Model QD Series Quick Disconnects

- Pressures to 60,000 psi (4,137 bar)
- Self-locking design
- -300° F to 500° F (-212° C to 260° C)





#### High-Pressure Hoses and Fittings

- Pressures to 40,600 psi (2,799 bar)
- Durable construction with superior flexibility



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#### Model DV Series Dump Valves

- Pressures to 10,000 psi (689 bar)
- Releases hydraulic pressure and dumps fluid into a reservoir

#### Model LS Series Live Swivels

- Pressures to 40,000 psi (2,758 bar)
- Free-rotation in any direction while pressurized



#### Model RV Series Relief Valves

- Pressures to 60,000 psi (4,137 bar)
- Controls and limits system pressure build up



#### Model PR Series Pressure Regulators



- Pressures to 20,000 psi (1,379 bar)
  High flow
- High flow capacity

# Control Valves

**Model HCV Series** 

- Pressures to 20,000 psi (1,379 bar)
- Two-position, 2-way, and 3-way functionality



#### **Air Bleed Valves**

- Pressures to 40,000 psi (2,758 bar)
- Valves automatically remove entrapped air in test or expansion assemblies



# Model VCV Series Control Valves

- Pressures to 20,000 psi (1,379 bar)
- Two position, 2-way functionality



#### Model CV Series Check Valves

- Pressures to 60,000 psi (4,137 bar)
- Zero leak design with low crack pressure



