

VERNON

TUBE TOOLS, LLC

HYDRAULIC EXPANSION SYSTEM



www.vernontubetools.com

Hydraulic Tube Expanding Means Production Rolling...
with controlled tube joints, longer tool life and easy operation.

Increased Production + Greater Precision + Consistent Quality

VERNON TUBE TOOLS

MODEL H TUBE EXPANDING SYSTEM

The Vernon Tube Tool Tube Expanding System is an electrically 5 hp driven hydraulic unit that includes electric motor, two hydraulic pumps, hydraulic controls, and electrical controls in a powder coated cabinet on casters.



HYDRAULIC CONTROL PANEL

- Roll torque
- Mandrel advance rate
- Mandrel advance force



ELECTRICAL CONTROL PANEL

- E stop button
- Motor start button
- Lube on button
- Advance cycle indicator
- Cycle complete indicator



ELECTRONIC PAPERLESS RECORDER

- Sets torque roll pressure
- Records pressure & time at completion (At completion of cycle)
- Easy to program



DURABLE TOOLING

- Parallel Pin expanders
- Inventory for 1/2"OD to 2"OD
- Longer reach expanders available

The Vernon Tube Tool Tube Expanding System uses a PLC to control all operations. A force transducer transmits pressure for roll torque, and signals cycle completion to retract the mandrel. Consistent RPM throughout the expanding cycle increases production, and the hydraulic system eliminates the need to reverse the expander mandrel.

Parallel Pin expanders minimize axial flow of tube material, resulting in a better expanded joint. The Parallel Pin expander is specified by some companies to be used when tube to tube sheet welds are required. This can help reduce the stress on the weld.

BUILD BETTER PRODUCTS WITH LOWER COSTS

MACHINE FEATURES

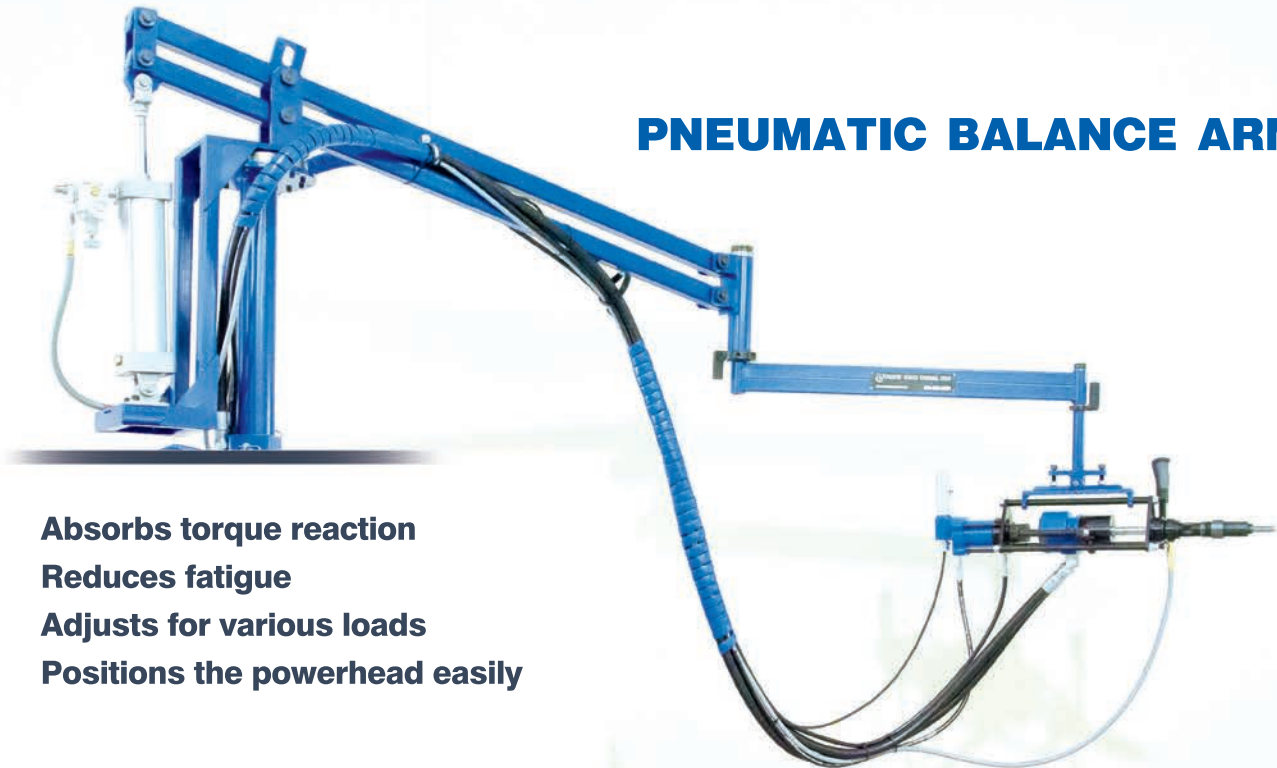
PRECISION POWERHEAD

A single switch starts the cycle and resets for the next cycle. A pause switch allows the operator to stop the cycle at any point and release to continue the cycle. The pneumatic balance arm makes it easy to position the powerhead precisely, ensuring optimal production and quality.



PNEUMATIC BALANCE ARM

- Absorbs torque reaction**
- Reduces fatigue**
- Adjusts for various loads**
- Positions the powerhead easily**



Vernon Model TXM-HPC-2-P



SPECIFICATIONS

Power Requirement	230/460 VAC 3-phase*
Electric Motor	5 hp
Reservoir Capacity	25 gallons
Tube Range	1/2" to 2" (12-50mm) O.D.
Mandrel RPM	800
Weight	1040 lbs
Height	90"
Base	32"X32" (.8mX.8m)

*Other power requirement quoted on request.



MADE IN



U. S. A.



[youtube.com/vt](https://www.youtube.com/vt)

11133 I-45 South Building J • Conroe, TX 77302
<http://www.vernontubetools.com> • 936.494.3501

1-800-528-8222