

COIL WINDING

MODEL 48 Series **PNEUMATIC TENSION DEVICE**

The Model 48 Tension Device is designed particularly for handling multiple round, square, rectangular or flat wires used in group, loop or transformer winding operations. Controlled pressure is applied to the wire as it passes between pressure plates. These plates will not tear or damage the insulation on the wires.

The heavy duty housing holding the pressure plates pivots on the base.

Longer life may be gained from worn pressure plates by turning them 90°. This is easily accomplished by merely removing the rear guide rollers.

The Tension Device- Air Operated Model 48, offering remote tension control via regulated air pressure. The model 48 operator may vary the tension applied to the conductors. The regulator may be several feet to the rear of the winder.

The Model 48 housing holds the plates and pivots on a base. An air chamber is mounted in the tension device, providing pressure necessary to develop required tension during the winding. After the operation is complete, the chamber pressure is relieved, tension on conductors is relieved and conductors are easily pulled out by hand.

The housing is designed with an opening in the back to permit easy removal of the plates. Eleven high density plastic plates are supplied between two steel plates.

Two steel guide rollers in front and two steel rollers in the back guide the wires into and out of the tension device. Spacing between rollers may be adjusted by loosening one nut per roller and sliding the rollers along slots in the housing. Additional rollers may be installed by the customer. Dimensions between rollers are infinitely adjustable from 0 to 4 inches.

The base, which holds the housing, may be mounted so that the pressure plates are in a vertical position to allow flat wire to be wound on edge.

DIMENSIONS	11 $\frac{1}{2}$ " W x 9 $\frac{1}{4}$ " L x 9 $\frac{1}{4}$ " H
NET WEIGHT	65 Lbs.
GROSS WEIGHT	85 Lbs.



Model 48 (Standard)



A foot control valve applies or releases pressure on the tension device. The operator can easily pull the wires through by hand, when the tension is released.

The Air Operated Tension Device is supplied with pressure regulator, gauge, floor pedal control valve and connecting air hoses with fittings.

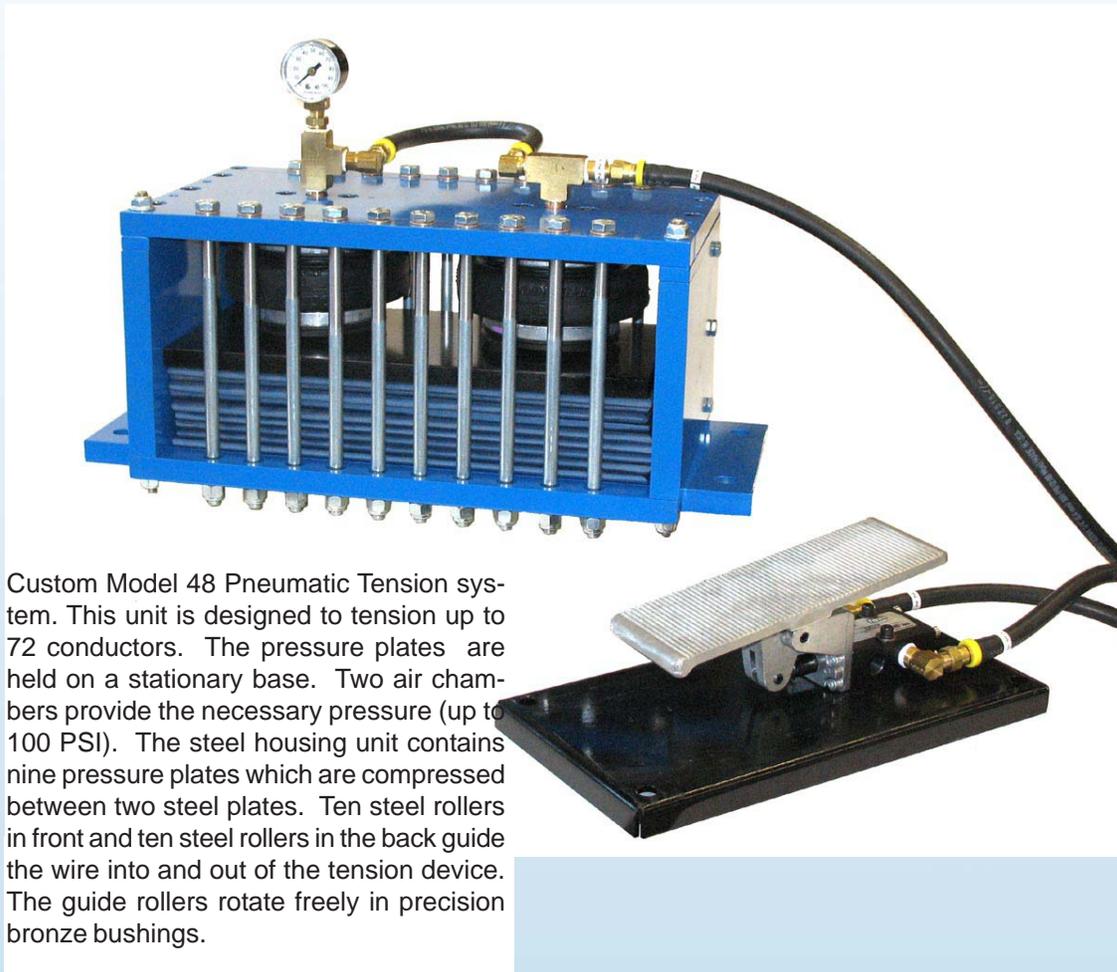
Longer life may be gained from worn pressure plates by turning them 90°, by removing the two rear rollers. The housing is designed with an opening in the rear to permit easy removal of the pressure plates. Eleven pressure plates are supplied between two steel plates.

Complete Winding Systems available



COIL WINDING

The Model 48 Tension Device can be customized to specific requirements. Customers can contact ACE equipment with details of application. Please see custom application below:



Custom Model 48 Pneumatic Tension system. This unit is designed to tension up to 72 conductors. The pressure plates are held on a stationary base. Two air chambers provide the necessary pressure (up to 100 PSI). The steel housing unit contains nine pressure plates which are compressed between two steel plates. Ten steel rollers in front and ten steel rollers in the back guide the wire into and out of the tension device. The guide rollers rotate freely in precision bronze bushings.