

Tension Devices

MODEL 46 Mechanical Tension Control



Specifications

DIMENSIONS	11 1/2"W x 9 1/4"L x 9 1/2"H
NET WEIGHT	37 Lbs.
GROSS WEIGHT	60 Lbs.

Design

The ACE Model 46 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. Tension on the wire is adjusted by a T-Handle screw in the top plate of the housing.

Longer life may be gained from worn pressure plates by turning them 90°. This is easily accomplished by merely loosening the T-Handle screw and removing the two rear rollers.

The housing is designed with an opening in the back to permit easy removal of the pressure plates. Thirteen square plates are supplied between two steel plates.

Two steel rollers in front and two steel rollers in the back guide the wires into and out of the tension device. Spacing between the 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 the 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.

Accessories



Illustrates Model 46 mounted on Model 42 Wire Rack

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Tension Devices

MODEL 46-T.I.T TENSION-INDEXING-TRAVERSING SYSTEM

Design

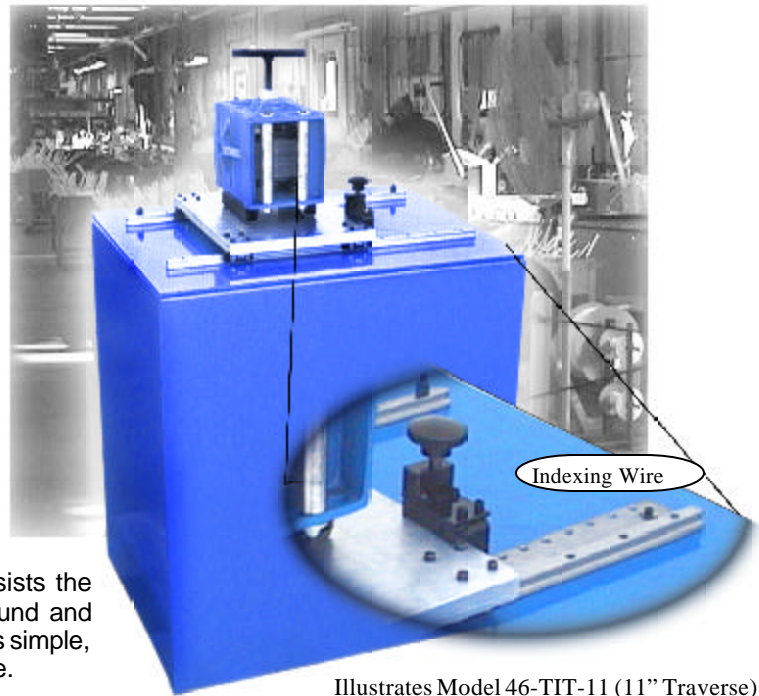
ACE Model 46-TIT is an assembly consisting of a Model 46 Tension Device and an Indexing Wire Guide mounted on a stand with Linear Slides to assist in manual operator control.

It is designed to reduce coil insertion time in each slot of your winding fixtures. It also can layer wind single or multiple strands of round wire, and/or multiple wires of square or rectangular wire, parallel or stacked. Set the tension by merely turning the T-handle on top of the housing.

Speed up and simplify layer winding and field winding coils using your present winding forms and winding machine.

The operator can manually move the Tension Device housing to a standard maximum travel distance of 11" (up to 96" optional).

This versatile tension and wire guiding system assists the operator in producing AC and DC quality layer wound and field coils under tension at high speeds. By design, it's simple, easy to understand in a few minutes, and fun to use.



Illustrates Model 46-TIT-11 (11" Traverse)

Field Coil Winding

An Indexing plate is supplied with 1/4" Dia. holes 1" apart (standard). Customer may easily install other indexing plates designed with holes for their winding fixtures. Merely press the **Indexing Wire Guide** button to move the device from hole to hole (slot to slot on your winding fixture).

Layer Winding

The slightest linear movement of the wire, as it passes through the tension housing, results in an equal linear movement of the tension housing. Linear movement of the tension housing assists the operator in positioning the wire on the coil of your rotating winding fixture for layer winding with no crossovers. Operator's hands are merely guiding the wire along the TITS. The low coefficient of friction between the tension housing and linear slides permits the almost freely floating tension housing to precisely track the smallest linear motion of the wire for layer winding a coil.

Complete Winding Systems

The Model 46-TIT can be configured with other ACE winding components to create a complete coil winding and tension system.....



Specifications

MATERIAL CAPACITY	AWG Size 20-00 Round,
DIMENSIONS	30"W x 24"D x 46"H
NET WEIGHT	400Lbs.
GROSS WEIGHT	450 Lbs.

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