



Model 147 Bead Covering Machine



The Model 147 Universal Bead Covering Machine is designed for applying either gum (without fabric) or rubberized, calendared fabric to an uncured tire bead. It is adjustable or adaptable to receive a wide variety of shapes and sizes, and accepts both passenger and truck beads. The machine's features include automatic gum (or fabric) cut-off and advance, easily changeable rollers, and universal gum (or fabric) let-offs designed to use either non-insulated, polyethylene insulated, or cloth-liner insulated supply stock.

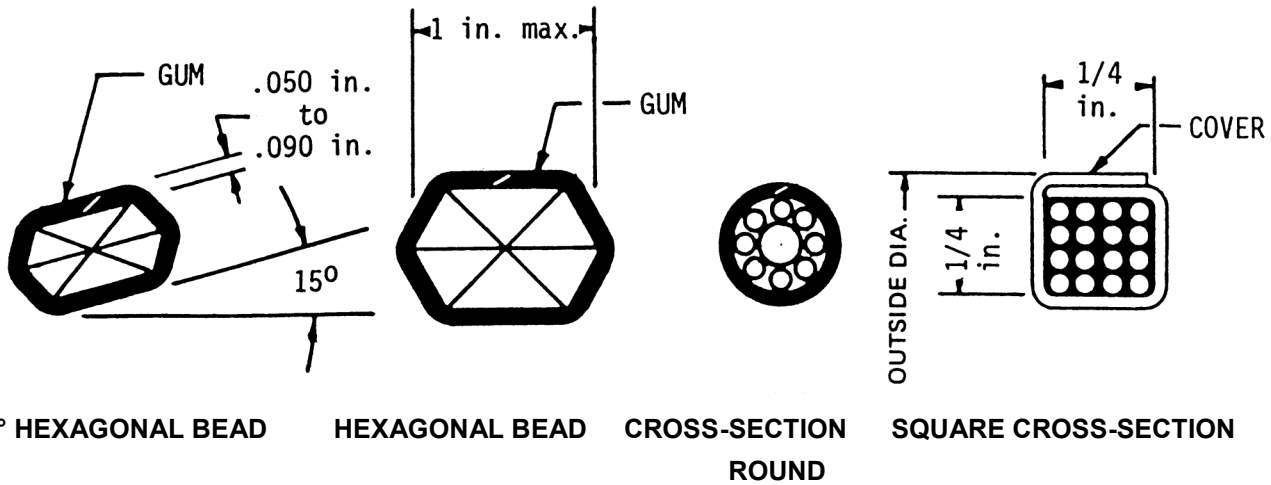
The Model 147 is adjustable to accept beads of 0.25 inch (6.3mm) through 1.0 inch (25mm) wide, and diameters of 14 inch (356mm) through 26 inch (660mm) diameter. The cross-section may be square, rectangular, hexagonal, 15° tapered hexagonal, or round.

Proper operation depends upon the existence of sufficient tack for the cover stock to adhere to the bead. If the bead has been wound with bare wire, as is usually the case with cable beads, it may be necessary to coat the beads with cement before applying the gum or fabric.

These cross-sections may be covered with gum without changing roller shape, although for optimum operation on some shapes, it may be preferred to use a roller conforming to the cross-section.

Most cross-sections may be covered with fabric without changing roller shape. However, because fabric is typically less compliant than gum, certain cross sections may require special adjustments as well as rollers conforming to the bead shape.

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TYPICAL CROSS-SECTIONS COVERED BY THE MODEL 147

To insure proper operation on the customer's beads, we ask that samples of beads and cover stock be furnished so that the machine can be checked-out on these materials.

The Model 147 will cover a 20-inch bead and automatically cut-off the cover stock in approximately 4 seconds or less. The cover stock is automatically advanced for application on the next bead.

The standard let-off can accommodate a cover stock roll diameter of 17.5 inches (445 mm). An optional auxiliary let-off is available to permit use of up to 36 inch (915 mm) rolls of cover stock. The machine is completely wired and plumbed, ready for connection to the electrical mains and 80 psi (5.63 kg/cm²) air line. The entire machine is mobile, mounted on casters, with two floor locks.

All the covering rollers are hardened steel. These

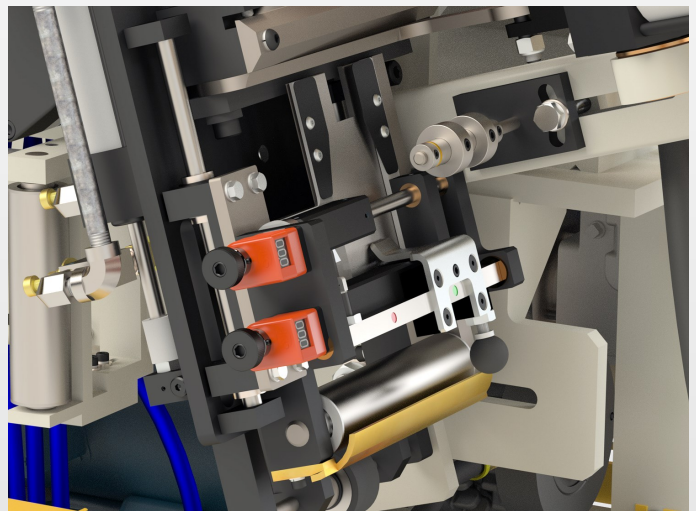
rollers rotate in tapered roller bearings. Ball bearings are used throughout the gear power transmission box, and at other locations. The drive gears are enclosed, and are oversize for long life.

The adjustments for bead width, roller spring pressure, and carriage air pressure are made by turning knobs at the front or top of the machine. The adjustment for bead diameter (stock length) is made by setting the length counter at the rear of the machine. A new adjustable tape guide design allows individual adjustment of inner and outer guide fingers and provides position display output of each finger.

Updated electronics utilizing an HMI panel controls all major machine control functions.

An optional auxiliary let-off permits the use of 3 FT (915mm) diameter rolls of bead covering material.

With the optional auxiliary let-off, the bead covering machine occupies a floor area of approximately 101 x 42 x 68 IN (257 x 107 x 173 CM) L x W x H
 Net weight: 2025 LB (920 KG)



ADJUSTABLE TAPE GUIDE

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