



**MODEL 147**

**UNIVERSAL BEAD  
COVERING MACHINE**

***FOR COVERING A WIDE VARIETY OF  
TRUCK AND PASSENGER TIRE BEADS***



***CORPORATION***  
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## General Description

The Model 147 Universal Bead Covering Machine is designed for applying either gum (without fabric) or rubberized, calendered fabric to an uncured tire bead.

The machine is universal in the sense it is adjustable or adaptable to receive a wide variety of shapes and sizes, and accepts both passenger and truck beads. It is intended to supplement (not replace) the RJS Model 35 High Speed Automatic passenger tire bead covering machine. (For a description of the Model 35 see Bulletin 35-564).

The machine features include automatic gum (or fabric) cut-off and advance, easily changeable rollers, and a universal gum (or fabric) let-off designed to use either non-insulated, polyethylene insulated, or cloth-liner insulated supply stock.

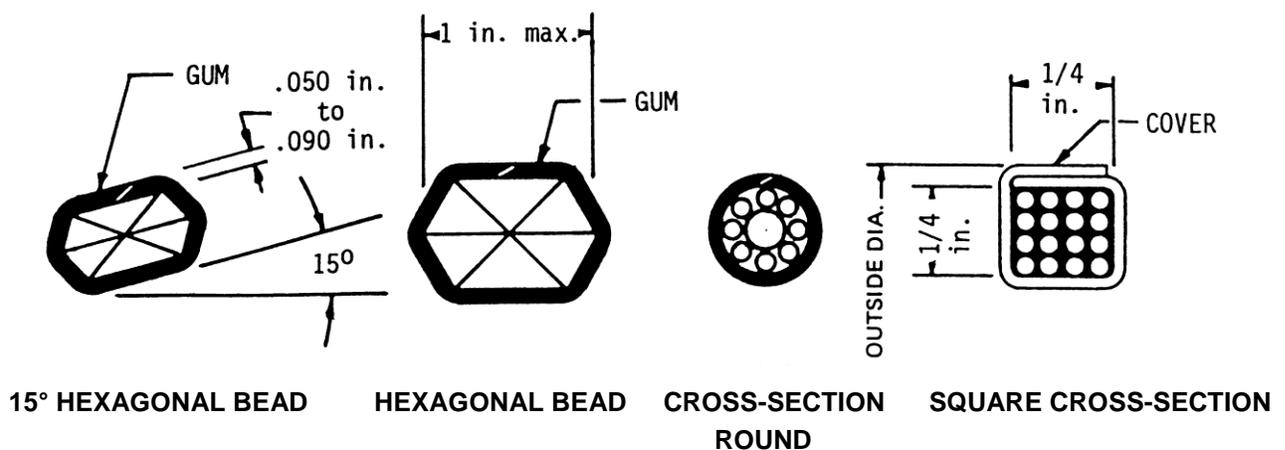
## Size Range

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, and if the bead has been wound with bare wire, as is usually the case with cable beads, it is then necessary to coat the beads with cement before applying the gum or fabric.

The cross-sections mentioned above 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.



TYPICAL CROSS-SECTIONS COVERED BY THE MODEL 147

## **Machine Tested on Customer's Beads**

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.

## **Covering Speed**

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.

## **Mechanical Features**

The machine is complete with let-off, and is completely wired and piped, ready for connection to the electrical mains and 80 psi (5.63 kg/cm<sup>2</sup>) air line. Nothing else to buy. Electrical supply voltage must be stated at the time order is placed.

The entire machine is mobile, and is mounted on casted wheels. Two floor locks are provided. This feature permits the purchaser to position the machine adjacent the bead winding machine. Thus, one operator is able to serve both machines at a considerable labor saving.

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.

## **Adjustments and Controls**

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. Set-screw adjustments have been kept to a minimum.

Controls at the front include "Start", "Stop", "Emergency Stop", "Jog", "Close", "Open", "Shuttle Up and Down", "Knife", and "Clutch, Off and On".

## **Floor Area, Height and Weight**

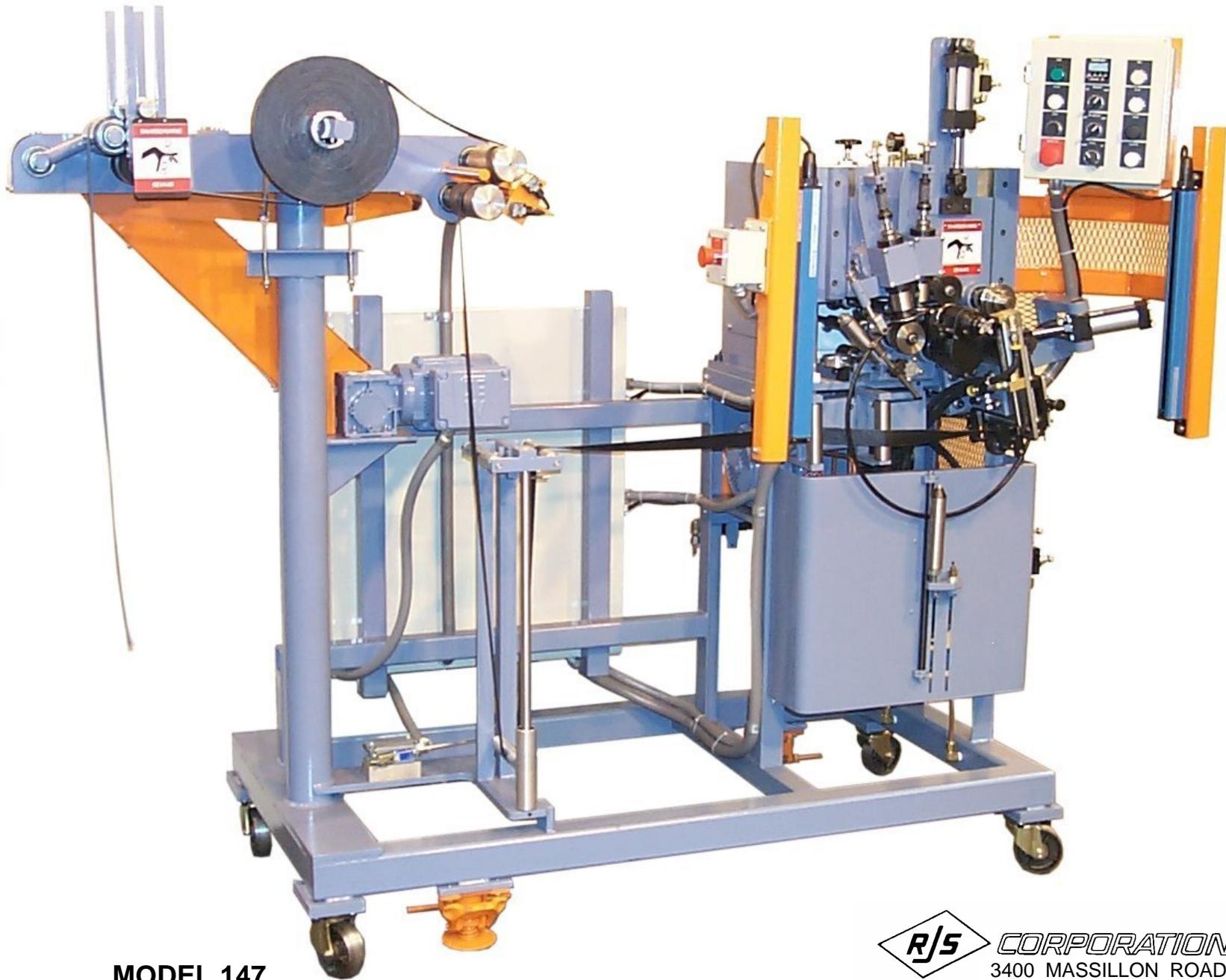
The machine occupies a floor area and height of approximately 45 in. (114 cm) wide x 84 in. (213 cm) long x 71 in. (180 cm) high. Net weight: 1450 lb. (660 kg.).

## **Export Packing**

Approximate Gross Weight:	2200 lb. (1000 kg.)
Approximate Package Size:	97 in. (246 cm) length x 54 in. (137 cm) width x 80 in. (203 cm) height.

*Specifications subject to change without notice.*

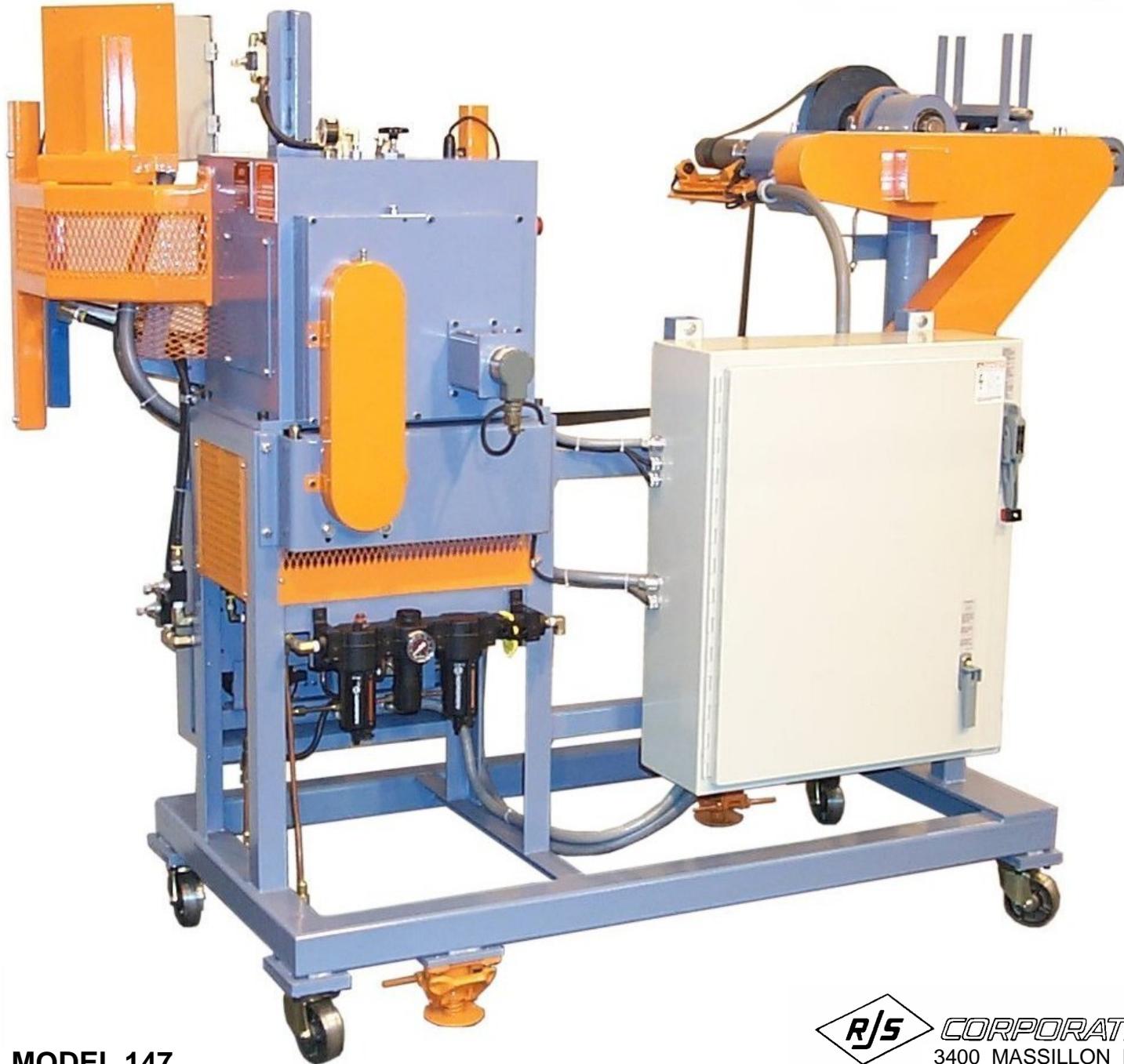




**MODEL 147**  
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**(FRONT VIEW)**

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RJS-147-1-01



**MODEL 147  
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(REAR VIEW)**

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