



LAMINATING  
EPOXY

# PROCESS EQUIPMENT

ADHESIVES

## Laminating Epoxy Dispensing Pumps

PROCESS  
EQUIPMENT

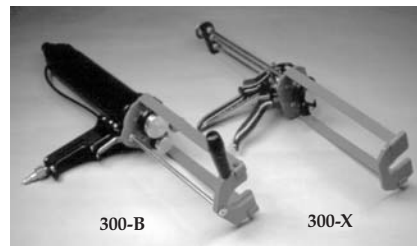
### PRO-SET 300-P MINI PUMPS

These pumps are designed for the convenient and reliable metering of Pro-Set 125 Resin and 226, 229 and 237 Hardeners in smaller containers. Mini Pumps provide convenient and accurate dispensing of PRO-SET Laminating Epoxy for product testing and small projects. Mini Pumps mount directly onto the resin and hardener containers, and are calibrated to deliver the proper 3:1 ratio of resin to hardener with one full stroke of the resin pump for each full pump stroke of hardener.

## Adhesive Dispensing Guns

### 300-B PNEUMATIC DISPENSING GUN

The air-powered, two-component dispenser is used with PRO-SET Adhesive cartridge sets to apply adhesive in larger assembly operations. The trigger controls 484 lb. of thrust for easy and precise adhesive application. Power is supplied by a standard shop air compressor.



### 300-X MANUAL DISPENSING GUN

The manually operated, two-component dispenser is used with PRO-SET Adhesive cartridge sets to apply adhesive quickly, cleanly and accurately. The handle and trigger are die cast aluminum and shaped for comfortable operation. A 26:1 trigger ratio dispenses the high-viscosity adhesive with ease and the gun's heavy-duty construction assures precise adhesive application and long operating life.

### 300-MW MIXING WANDS

Static mixing wands attach to the adhesive set cartridges to thoroughly blend resin and hardener components as they are dispensed. The tip can be trimmed to apply the appropriate sized bead of adhesive mixture. One wand is supplied with each adhesive cartridge set. Additional wands are available in packages of six.

## Impregnators

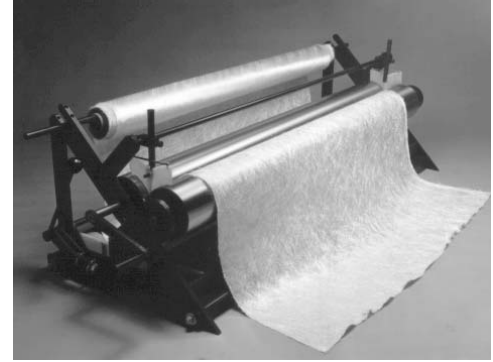
Two models of PRO-SET impregnators are designed with the custom builder or small production shop in mind. Both models are hand crank operated. They can be completely disassembled and are easy to clean. Resin is applied to the fabric as it passes through a resin bath, and adjustable nip rollers control the resin content in the laminate. Resin contents from 35% to 55% by weight are possible. The resin content control available with these impregnators will reduce resin waste, as well as speed up the laminating process. With the resin dams in place, even small tapes can be used with the large impregnators. Each model is designed to handle a range of fabric sizes and weights.

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**Model 892-34**—The 34" wide, model 892-34 impregnator is intended primarily for the custom builder, using unidirectional materials. Generally, unidirectional reinforcements are used in a 24" to 25" width, so this machine is perfect for these materials as well as woven and stitched materials. Fabric weights up to about 30 oz./sq. yd. can be used in this machine. The hand crank drives one of the nip rollers, and a gear linkage drives the other, so both rollers are positively driven. Roller gap is controlled by an adjustment screw on the roller stop. Adjustable dams in the resin bath and on the nip rollers allow for a range of fabric widths and weights. Narrow tapes and very light fabrics can travel down through a resin puddle in the nip rollers rather than using the resin bath (Figure 1). Light and medium fabrics pass through the resin bath and up through the nip rollers (Figure 2). Heavy fabrics can pass through the resin bath and a resin puddle at the nip rollers (Figure 3). The rollers open to make it easy to load and clean.



The weight of the fabric and the viscosity of the resin system determine the throughput of the machine. For example, a 24" wide, 9 oz. unidirectional S glass can be wet out at about 15 feet per minute, with a resin content of 40 to 45% by weight using a medium viscosity resin/hardener combination like PRO-SET 145/229.

*Fabrics can follow several different paths on each model to accommodate a range of fabric weights.*

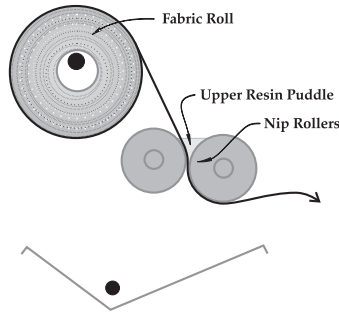


Figure 1. Very light fabrics

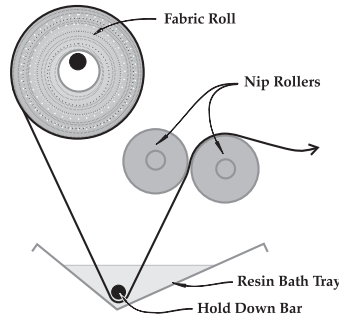


Figure 2. Light and medium fabrics

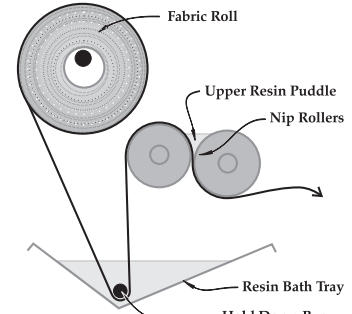


Figure 3. Heavy fabrics

**Model 892-60**—The mechanical and physical characteristics of the model 892-60, 60" wide impregnator are the same as the 34" machine, but the dimensions are enlarged proportionately to handle a wider range of fabrics. This model is intended primarily for the custom or small production builder, particularly those using wide woven and stitched fabrics up to 60" wide and as heavy as 40 oz./sq. yd.

## Quality Control Dye

### 551 Yellow QA Dye for Resins and 552 Blue QA Dye for Hardeners

Dyed resins and hardeners provide an easy, reliable method for quality assurance. Yellow dyed resin and blue dyed hardener, when mixed thoroughly, produce a consistent green tinted epoxy mixture. A streaked mixture indicates insufficient mixing. Available in 16 oz. (473 ml) containers.

### Quantity of QA Dye recommended for Resin and Hardener units

| Dye ratio   | Standard unit package size |         |       |        |          |
|---|----------------------------|---------|-------|--------|----------|
|   | 0                          | 1       | 2     | 3      | 4        |
| 551P Yellow Dye for Resin<br>(5.7 ml per gallon)  | 5.7 ml                     | 24.5 ml | 82 ml | 246 ml | 1,340 ml |
| 552P Blue Dye for Hardener<br>(7.5 ml per gallon) | 2.5 ml                     | 10.5 ml | 35 ml | 107 ml | 375 ml   |