

# IPR2-8000

– Resin Injection Machine



*Machine equipped with volume meter (option)*



*Volume meter*

Aplicator's IPR2-8000 is a superbly designed and engineered low-pressure injection machine for successful Resin Transfer Moulding (RTM). Using advanced and proven techniques, the machine is easy and safe to handle with simple controls for straight-

forward operation. An exact resin to catalyst ratio is provided by Aplicator's unique steplessly adjustable catalyst slave pump. Internal mixing of resin and catalyst in a static mixer at the injection head, minimises waste during flushing.

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### OPERATION

**Aplicator's IPR2-8000** machine works with an air driven dual-acting piston pump, both for the resin and the catalyst. Manufactured from stainless steel, the catalyst pump incorporates a pressure gauge and pressure relief valve and is synchronised with the resin pump shaft for precise delivery of catalyst.

Consequently, it is independent of variations in air supply or material viscosity.

Catalyst volumes are easily adjusted with a hand wheel, which changes the stroke length of the catalyst pump. The mixing ratios are continuously variable. Catalyst is pumped directly from the original container. Resin is usually pumped from a 200-litre drum but can also be pumped from a 25-litre pail, a bulk container or a fixed storage tank. Components are mixed internally in a static mixer at the injection head for thorough blending of the product. Aplicator have used this method of internal mixing of resin and catalyst for many years. This system has proved to be the optimum method of obviating problems that can occur with incomplete mixing.

To facilitate degassing and functional checks the machine is additionally equipped with a unique recirculation system for the catalyst and resin.

### SPECIAL FEATURES

- Catalyst slave pump for exact catalyst-resin ratio
- Continuously variable catalyst ratio
- Recirculation of resin and catalyst
- Pneumatically operated solvent pump
- Static mixer in the head
- Wheeled chassis for full mobility
- Extremely low material wastage as only the mixer need to be flushed
- Light weight injection head

*The machine showed on the overleaf might have extra equipment, modifications might have been made since the brochures were printed.*

### FLUSHING

Cleaning the injection head after use is easily achieved using the built-in pneumatically operated flushing pump. With no manual handling of potentially hazardous solvents, simply pressing the flush button on the pump, automatically flushes the static mixer on the gun.

### TECHNICAL DATA

<b>Air supply:</b>	6 bar (90 psi)
<b>Air consumption:</b>	120 litres / litre output
<b>Capacity:</b>	Up to 12 litres/min, depending on viscosity, hose length/ diameter and nozzle orifice
<b>Max. working pressure:</b>	108 Bar (1620 psi)
<b>Pressure ratio:</b>	18:1
<b>Mixing ratio:</b>	Continuously variable between 0.8 and 4.0 %
<b>Hose length:</b>	Standard length 10 m
<b>Weight of spray gun:</b>	1.8 kg
<b>Total weight:</b>	Approx. 85 kg