



RI-9

– High Performance RTM



The pneumatically operated RI-9 RTM production unit, is equipped with Aplicator's superbly designed **Autoshot®** valve. A short static mixer fitted to the mixer head ensures the thorough blending of resin and catalyst is achieved. The machine is equipped a volume meter to have the correct volume for every injection. Superbly

designed and engineered, the machine is easy to operate using straightforward controls. For optimum efficiency and versatility the machine, mounted on large rubber wheels, can be moved to wherever required in the production area.

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OPERATION

Aplicator's RI-9 RTM machine uses an air driven dual acting piston pumps for both for resin and catalyst. A single air motor drives the pumps for catalyst and resin on Aplicator's RI-9 RTM machine. Constructed from stainless steel, the catalyst pump incorporates a pressure gauge and pressure relief valve and is mechanically synchronised with the resin pump. This provides precise and pulse free delivery of catalyst regardless of variations in air supply or resin 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 can be pumped direct 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. Both catalyst and resin are thoroughly blended together using a static mixer on the front of the mixing unit, which helps minimise waste. The machine is equipped with a unique recirculation system for degassing and functional checks.

SPECIAL FEATURES

- Automatic injection head
- Flushing with a mixture of solvent and air
- Recirculation of resin and catalyst
- Two wheeled trolley for full mobility as standard, other chassis available
- Catalyst pressure gauge
- Easy to operate
- Catalyst slave pump for accurate catalyst dosage
- Gel timer
- Pressure guard

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

INJECTION HEAD WITH APLICATOR'S AUTOSHOT® VALVE

The injection head enables injection and flushing to take place in a fully enclosed system. The head fits permanently into the mould. The injection valve is closed when injection is completed – which keeps the resin in the mould under pressure until cure. After injection the mixer is flushed with a mix of solvent and air via the same valve and is ready for the next injection cycle. It gives a clean production site with no spillage of resin and/or solvent.

INJECTION PRESSURE GUARD®

The injection pressure guard controls the injection pressure to the mould.

TECHNICAL DATA

Air supply:	6 Bar (90 psi)
Air consumption:	60 litres / litre output
Capacity:	Up to 6 litres/min, depending on viscosity, hose length/ diameter and nozzle orifice
Max. working pressure:	35 Bar (450 psi)
Pressure ratio:	9:1
Mixing ratio:	Continuously variable between 0.8 and 4.0 %
Hose length:	Standard length 10 m
Total weight:	Approx. 70 kg