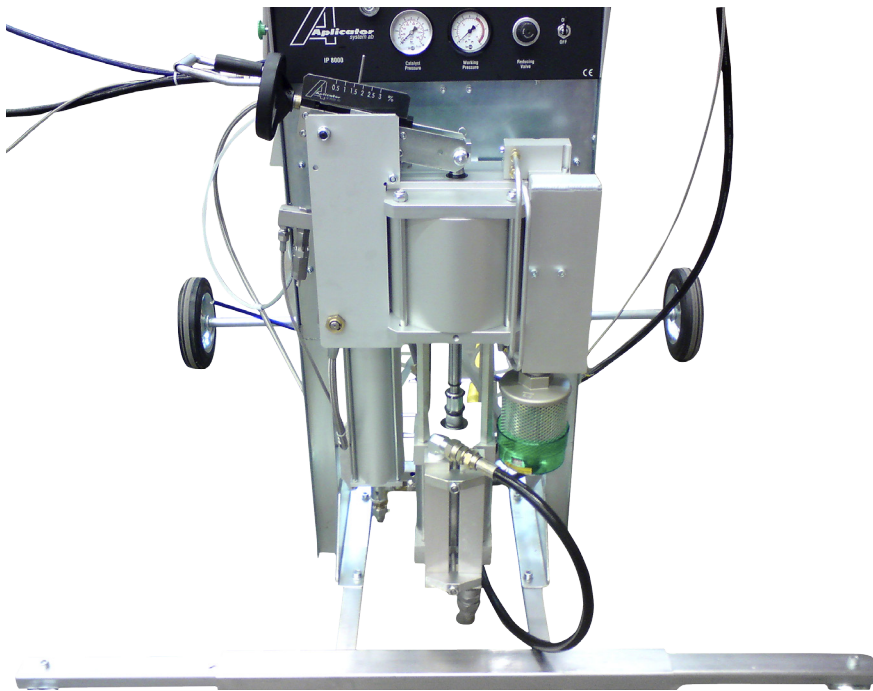




IPI-4000

– High Volume



Aplicator's IPI-4000 is a superbly designed and engineered injection machine for successful Resin Transfer Moulding (RTM). Using advanced and proven techniques, the machine is easy and safe to operate with simple controls for straight forward operation.

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

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OPERATION

Aplicator's IPI-4000 machine works with an air driven dual-acting piston pump, both for the resin and the catalyst. Manufactured from stainless steel, the peroxide pump incorporates a pressure gauge and pressure relief valve and is synchronised with the resin pump shaft for precise delivery of peroxide. Consequently, it is independent of variations in air supply or material viscosity.

Peroxides volumes are easily adjusted with a hand wheel, which changes the stroke length of the peroxide pump. The mixing ratios are continuously variable. Peroxide is pumped directly from the original container. Resin is usually pumped from a 200-litre drum, but can also be pumped from a bulk container or a fixed storage tank.

The components are mixed internally in a static mixer at the injection head for thorough blending of the resin and peroxide. To facilitate degassing and function checks the machine is additionally equipped with a unique recirculation system for the catalyst and resin.

SPECIAL FEATURES

- Catalyst slave pump for precise peroxide – resin ratio
- Continuously variable peroxide ratio
- Recirculation of resin and peroxide
- Pneumatically operated solvent pump
- Static mixer at injection head
- Even flow of catalysed material
- Wheeled chassis for full mobility
- All dynamic seals are self lubricating and of the highest quality for minimum maintenance
- Light-weight dispensing handle

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 easy using the built-in pneumatically operated flush pump. Pressing the flushing button on the pump will automatically flush the static mixer, with no manual handling of hazardous solvents.

TECHNICAL DATA

Air supply:	6 Bar (90 psi)
Air consumption:	120 litres / litre output
Capacity:	Up to 35 litres/min, depending on viscosity, hose length/ diameter and nozzle orifice
Max. working pressure:	33 Bar (478 psi)
Pressure ratio:	1:5,5
Mixing ratio:	Continuously variable between 0.9 and 3.0 %
Hose length:	Standard length 10 m



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