

# BI-COMPONENT INJECTION MACHINE



Composite Alliance Corp. (CAC) offers a complete range of production and laboratory injection machines for thermoset resin processing applications developed thanks to its deep knowledge and expertise of different manufacturing processes (RTM, VaRTM, C-RTM, Infusion).

This bi-component injection machine has been specifically designed to allow the use of 2 component resins. Available in two tank capacity 10 or 30L (2.6 or 7.9 USGAL), it offers many standard features and options such as: pressure/flow regulation up to 25 bars (368 psi), weighing scales, resin preheating, automatic cleaning module, etc...





For a mono-component machine, please contact our sales team

BASIC EQUIPMENT	TME/IM-BI
PROCESS	RTM, VARTM, C-RTM, INFUSION
RESIN TYPE	EPOXY
FLOW	300 CC/MIN   10 FL OZ/MIN MAX
VISCOSITY	10-20 000 MM <sup>2</sup> /S   0-31 IN <sup>2</sup> /S
USEFUL STAINLESS STEEL TANKS CAPACITY	10L-30L / 2.6-7.9 USGAL   10L-30L / 2.6-7.9 USGAL
TEMPERATURE	20-120°C / 68-248°F
POWER SUPPLY	SINGLE-PHASE 240V 60HZ / SINGLE-PHASE 120V 60HZ
INJECTION PRESSURE	10-25 BARS / 147-368 PSI
MONITORING	9,7" COLOUR HMI TOUCH SCREEN



**STANDARD FEATURES**

- Tanks 10L/10L (2.6 USGAL)
- Heating 120°C (248°F)
- Injection pressure 10 bars (147 psi)
- Steering
- HMI
- 2m (6.5 ft) long 120°C (248°F) heating pipe
- Pressure and flow regulation



**SOFTWARE**

- Customizable settings: Recipes (number, volume, designation, tank temperature, injection flow/pressure, injection steps), Renewal purge, Weight scale, Cleaning cycle
- Alarms and reports
- Injection reports generation and exportation (.csv)
- 3 different modes available: User, Programming and Maintenance



**OPTIONS**

- Automatic cleaning
- 3m (9.8 ft) long heating pipe (basic equipment includes 2m (6.5 ft) long heating pipe)
- Useful stainless steel tank capacity of 30L (7.9 USGAL)
- Injection pressure up to 25 bars (368 psi)
- Weighing scales

**CAC AT A GLANCE**

Composite Alliance Corp (CAC) is a global tooling, machinery and service supplier offering a wide selection of standard and custom solutions in support of composite part design and fabrication. Our goal is to advise, equip and assist our customers in using cost effective advanced manufacturing processes to maximize performance and to widen the applications of composites.



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