# SMART INJECTION

To optimize the injection process, Composite Alliance Corp. (CAC) has designed an automated and ecofriendly solution for small parts injection: SMART Injection. This innovative compact system has a capacity 0 - 30cl (10.1 fl.oz.), heating  $120^{\circ}C$  (248 °F) and pressure up to 8 bars (116 psi).

Our aim is a continuous innovation. With this spirit, we make the world of composite parts manufacturing more efficient and more eco-friendly. Our primary objective is that our knowledge feeds the future.

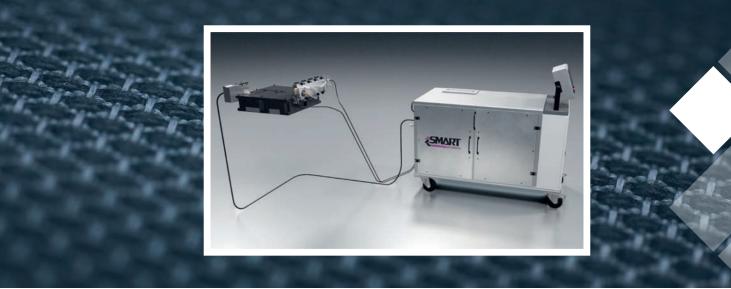
SMART Injection is a solution to inject resin on dry perform with RTM process without any injection machine. Thanks to this technology, the resin is injected directly to the mold. The quantity used is adapted to the volume of resin required for the part.















#### CONCLUSION

LABOR TIME
CONSUMABLES
RESIN WASTES

30 MIN \$62 00 G (7 OZ)

15 MIN \$7 40G (1.4 OZ) 50% LABOR REDUCTION

89% CONSUMABLE REDUCTION

80% RESIN WASTE REDUCTION



SMART Injection is compatible with our presses. Standard Presses engineered for maximum performance in a wide variety of configurations for thermoset process.



SMART Injection is also adaptable to our standard mold for sample plate to complete your lab equipments.





### **BENEFITS**

- Reliability: automated cycle
- Save time: easy cleaning and maintenance of the SMART Injection block
- Ecological: no resin waste in the injection machine and in the injection tubing
- Decrease consumables costs: no injection tubing



### **OPTIONS**

- Injection capacity 0 60 cl (20.3 fl.oz.)
- Pressure up to 20 bars (290 psi)
- 1 day remote training
- 100 sets of membranes Inlet/Outlet

## **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.



