



| Type IV

COMPOSITE PRESSURE VESSELS

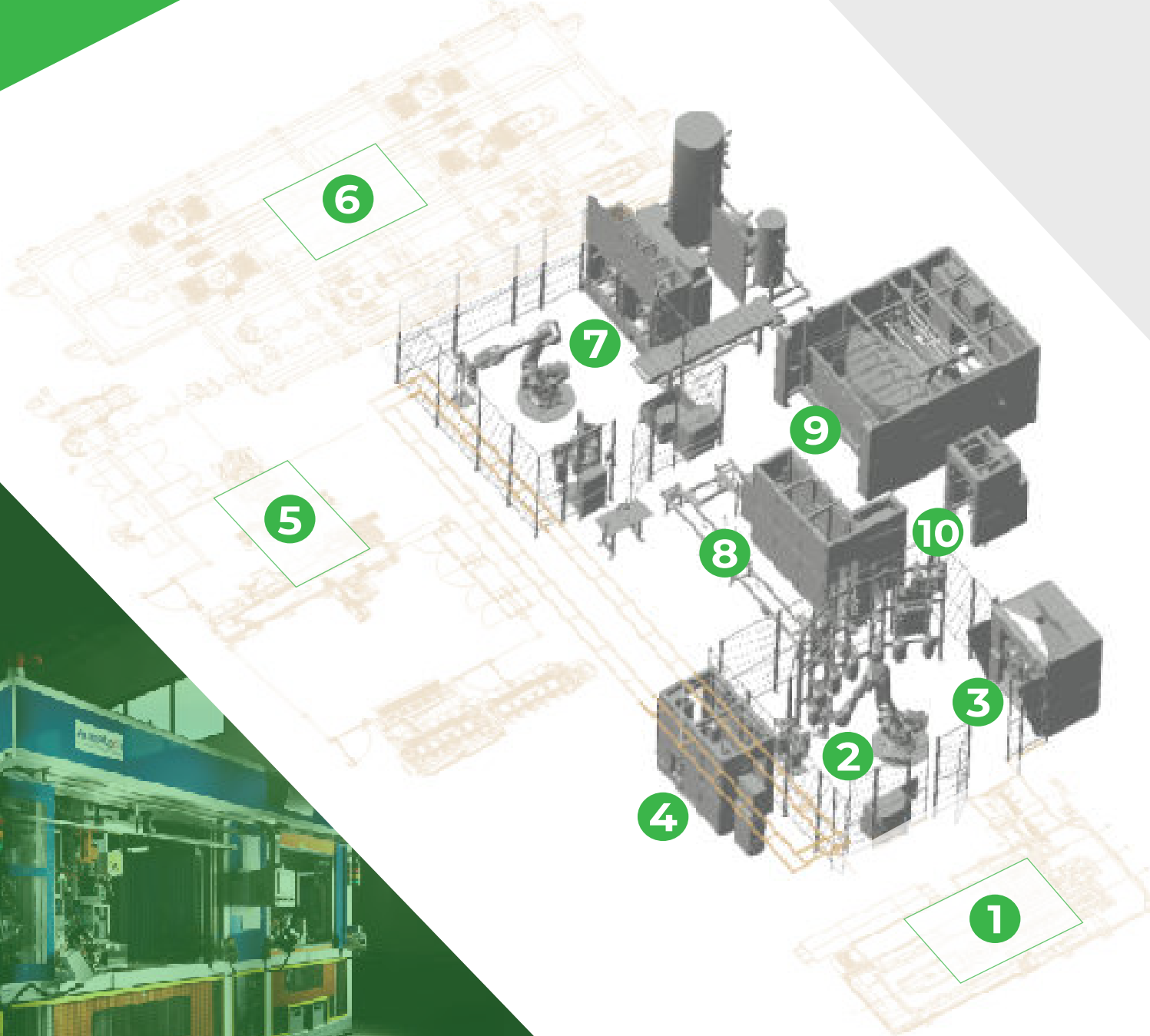
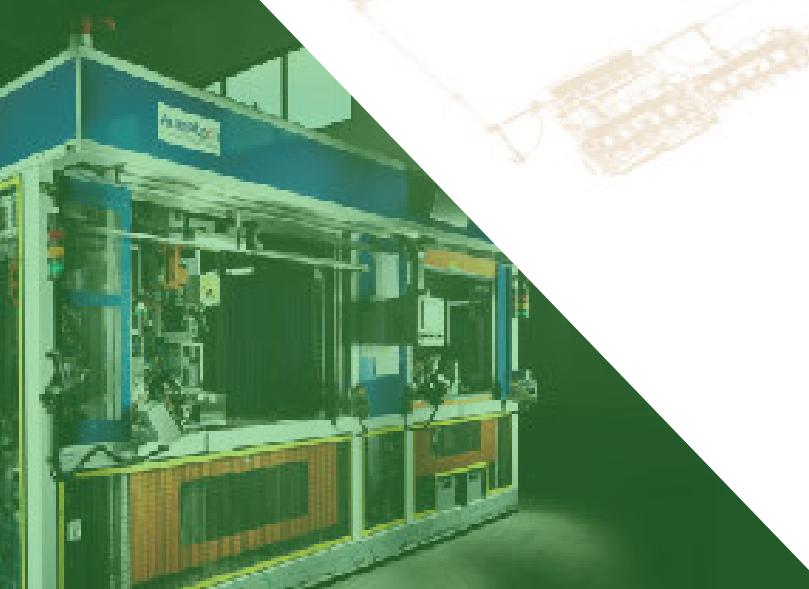
manufacturing
equipment & services

PRODUCT DEVELOPMENT SERVICES

- Concept development
- Feasibility studies
- FEM - Finish Elements Method
- Tooling construction
- Prototyping
- Plant setup
- Training

CPV TYPE IV PRODUCTION CYCLE

- 1 BLOW MOULDING
- 2 COOLING/STABILIZATION
- 3 BOSS PART WELDING
- 4 SURFACE TREATMENT
- 5 FILAMENT WINDING
- 6 CURING OVEN
- 7 HYDRO TESTING
- 8 FINAL OPERATIONS
- 9 LEAK TEST - ULTRASONIC/HELIUM
- 10 PACKING AND SHIPPING



LATEST GENERATION OF COMPOSITE VESSELS

Cylinders Type IV main features



Lightness



No explosive



Durability



Eco-friendly

Lightweight

High-pressure cylinders weigh up to 70% less than steel cylinders. This is the most important thing for vehicle's stability.

Corrosion and fatigue resistant

The cylinders do not rust and do not become obsolete - something that is crucial to its service life cycle and safety.

Fuel range improvement

Lower combined weight and greater storage capacity give better fuel range.

Advanced manufacturing

Made of inner plastic liner wrapped with structural filament winding and protective outer layer of resin: composite materials for high performance product.

Sustainable energy storage

These cylinders are suited to store renewable gases such as RNG and Hydrogen.



WE RAISE YOUR BUSINESS

- Over 30 years experience in plastic and composite materials technologies.
- Expertise in product designing and production concepts development
- Technical consulting and start-up support available worldwide
- Applications ranging from pressurized water, LPG, CNG, biogas, hydrogen

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