

RAPIDPOLYSHAPE

Hybrid Composite Mold Technology

ENGINEERING BRIEF / 2026

THE SYSTEM

Additively manufactured composite cavity

Reusable rigid metal support frame

Air-pressure-assisted demolding

Compatible with existing RIM machines

THE VALUE CASE

Up to 80% lower tooling cost

Up to 5x faster tooling preparation

Lower capital risk and material intensity

Designed for medium-volume production

VALIDATION STATUS

Functional prototype developed

Multiple successful production cycles

Initial industrial validation

APPLICATIONS

EV battery enclosures / large composite structures

Industrial housings / lightweight structural components

PARTNER PROGRAM

RPS is seeking industrial validation partners, customers and investors.

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