

Advanced Ceramics Manufacturing specializes in the development and production of water soluble mandrels, composite parts, and ceramic components for worldwide distribution. Our products and services are designed for applications such as Aerospace Defense, Aerospace Commercial, Defense, Manufacturing, Racing, Research and University uses.

Our services include, but are not limited to:

Precision Manufacturing

Technical Ceramics

Research

DIY Mandrel Materials

SOLUABLE TOOLING SYSTEMS

DIY Materials

AquaPour

- Dry powder just add water to activate,
 then you can immediately cast
- Low viscosity mixture poured into female mold

AquaCore

- Moist sand that is pressure compacted into female mold
- Dehydration set to develop strength

ClaveCore

 Dry powder that is used to fill female mold and then heated to pre-expand the powder into a mandrel

FastPour

- Dry powder, just add water to activate, cast
- Sets fast & 800 F capable

Pre-Formed Mandrels

FastCore

 Molded at our in-house facility using a dedicated female mold

RapidCore

Rapid prototyped at our in-house facility

ClaveCore

- Molded at our in-house facility
- OOA/Self-pressurizing for OML driven specifications

RTMcore

Strong, non-porous and self-releasing

HT3

Ultra high temporature system (>800 F)

PRODUCT SELECTION GUIDE

AutoClave / Vacuum Bag

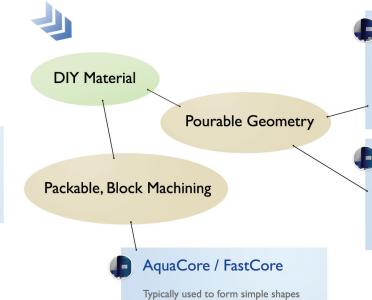


Net Shape Mandrel



FastCore

Delivered to your facility as a ready to use shop supply. FastCore technology is suitable for rapid prototyping and production quantities.



FastPour

Temp. Limit <800 F (425 C)

Utilized in applications where the mold is filled in the liquid state and requires fast set & high green strength. Requires preheat to >450F to activate washout behavior.

AquaPour

Temp. Limit <400 F (200 C)

Most commonly utilized in applications where a mold is filled with the material in the liquid state, and upon setting in the green state.

Bladder / Silicone





ClaveCore

ClaveCore is a patented self-pressurizing tooling material. It is rigid at room temperature, but becomes an expanding semi-liquid at high temperature. It is designed for out of autoclave applications that are OML driven.

Resin Infusion





via pressure packing into molds or through CNC machining simple blocks.

RTMcore

RTMcore technology is the 1st soluble tooling system designed for resin infusion processes. Its unique properties allow it to be formed with heat and pressure and requires no drying. Its surface is impermeable to high pressure resin.





To learn more inforamation about our products, services and capabilities, please contact us.

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