

# Fusion Core Molding (FCM) Technology for 3D Hollow parts

## What is FCM?

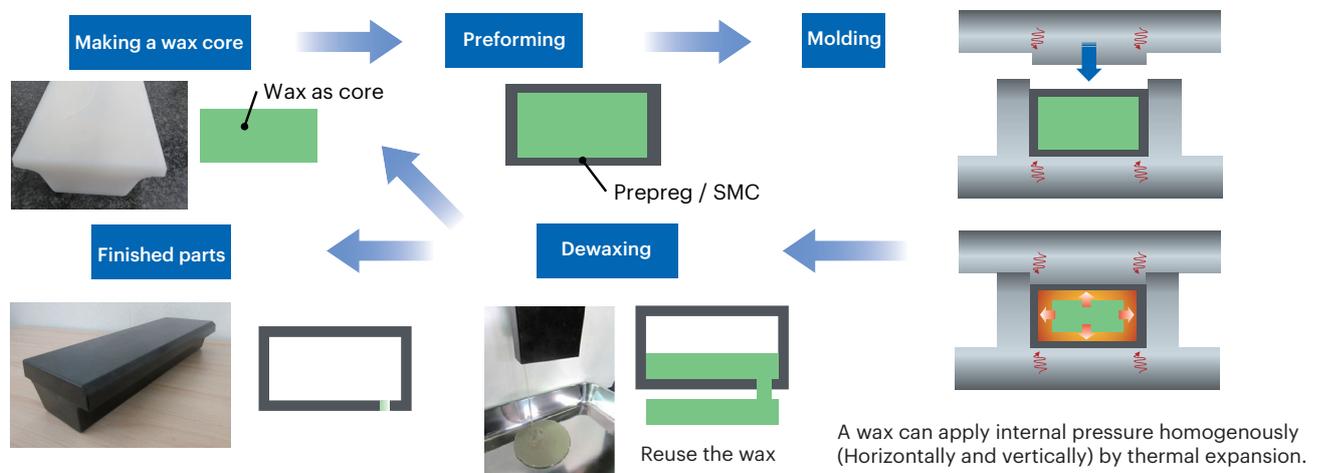
- Hollow structures offer significant weight reduction benefits and are widely used in structural components. This technology utilizes the thermal expansion of wax for internal pressure molding, enabling the molding of hollow monolithic structures.
- The following features:

- ✓ Applies to complex shapes (hollow, deep drawn, sharp edge)
- ✓ Applicable to various materials such as SMC, prepreg, and metal inserts
- ✓ Wax can be discharged and reused

	Bonding	Foam core	FCM
Structural stability / Continuous fibers	—	—	✓
Weight	—	—	✓
Cost	—	—	✓
Technology readiness	✓	✓	—

Process comparison to produce hollow structure parts

## Process flow of FCM



## Application examples

