

xlaFORM Rapid Casting Technology

Rapid Casting Technology Saves Rotary Engine Company 14 Weeks

RotaMax's versatile engines are the most efficient, reliable, and affordable rotary engines on the market today. "We are known for our expertise in rotary engine manufacturing technology. When we had to get the first 20 of our new aluminum throttle body castings as quickly as possible, we selected Piqua Emery Foundry because they used the ZCorp/xlaFORM process for making the casting pattern and the core box. This technology allowed for the sand cast molds and cores to be made just hours after the printing process was complete. The effect of this synergy between ZCorp's 3D printer and xlaFORM's resin technology cut our typical foundry lead time from 16 weeks to about 10 days." Eric Barger, President RotoMax Inc.

Using xlaFORM's rapid tooling technology leads to exceptional cost and time savings; both in short run and high production castings. The xlaFORM process utilizes proven and ultra fast ZCorporation printer technology to create the composite powder based patterns and core boxes. xlaFORM's patented automatic infusion system, vacuum impregnates the geometry with xlaFORM's chemically engineered polyester resin. The result is a strong reusable composite foundry tool.

RotaMax's throttle body tooling took less than 24 hours to create and at a cost less than \$700 dollars*. This new rapid technology tooling yields hundreds of ready to pour sand molds, in hours not weeks.

"Typically, the very first casting represents the break even point on tooling costs."
Dave Martin,
Piqua Emery Foundry



RotaMax Engines
 Changing the way people power things!

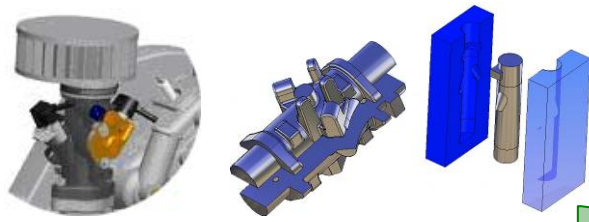
* Prices based on ownership of printer and infusion system.

xlaFORM

"Your Automated Infiltration Solution"

www.xlaFORM.com P 704.756.9678

DESIGN ► PRINT ► INFUSE ► TOOL



3D CAD DATA



xlaFORM INFUSER ZCORP 3D PRINTER



FOUNDRY TOOLING



SAND MOLD & CORE SET



METAL POURING

FINISHED CASTINGS

48 HOURS FROM CAD TO FINISHED CASTINGS