



SERVICES

PARTNERING WITH YOU TO MAKE YOUR PRODUCT INTO ITS BEST POSSIBLE VERSION, QUICKLY AND ON BUDGET, IS OUR GOAL, EACH AND EVERY TIME.

There are -- quite literally -- hundreds of moving parts on every project. At Dinsmore & Associates we'll never drop the ball, and we will stand by your side until your finished product is everything you imagined.

PROJECTS FALL INTO **THREE STAGES**, AND WE CAN JOIN YOUR TEAM AT ANY POINT:

1 Design for Prototyping -- Maybe you're starting with a concept and a dream, or maybe you've been working on drawings but they just aren't capturing your vision -- regardless of the stage you're in, it's not too early to get us involved. Our engineers and designers can help create your product right from the beginning, getting a prototype in your hands once everything looks right on paper.

2 3D Printing -- You need a sample of your early-stage product to show at a board meeting. Or maybe you're fairly confident you've got the right design on paper, and it's time to make your first prototype. Or perhaps, before manufacturing your product you want to try a couple minor variances on the design. 3D printing is the solution for all these scenarios. You don't want to manufacture your product until you've seen a prototype and are absolutely sure everything is right. Trust us. At Dinsmore & Associates our selection of technologies is second to none. After considering quantity, budget, intricacy, material and turn-around time, we'll recommend one of the following:

SLA is our most frequently used process. Its hallmarks include precision, speed and afford ability; the technique uses a liquid building process to create very fine details when the product hardens. It's a truly customizable technology offering many choices for material, color and finish.

FRSLA is a version of SLA specifically for products that are very small in size, or that feature extremely fine detail and need exceptionally high resolution.

SLS can create complex shapes in plastic, metal, ceramic or glass, and, based on the material used, can produce a very high-density product.

DMLS is used strictly for metal products -- including steel, chromium and titanium -- and creates very complex shapes using a fiber optic laser.

PolyJet also accommodates very complex shapes, but with a material that mimics rubber, with high flexibility. It offers some of the softest edges and smoothest finishes available.

FDM creates prototypes that can endure extreme climates, exposure to chemicals, and mechanical stress -- this is for products that need exceptional durability and strength. It's best for wax or plastic products that feature fairly solid structures.

Plastic Casting uses a concept that's thousands of years old (liquid sets in a hollow mold, then is removed) -- but we've put technology to work to make this process highly detailed and more durable than ever.

3D printing



Rapid Manufacturing -- When every angle of your product has been scrutinized, tested, debated and approved, it's go time. Rapid manufacturing creates products that are ready for your customers. Whether it's a complete product or a replacement part, whether you need a single piece or millions, whether it's plastic or metal... We'll get it made. Our technologies include:

CNC machining creates complex parts, accommodating a variety of materials. Complete products are manufactured in one operation, eliminating the need for a multi-staged production and making this an economical choice.

Injection molding involves injecting plastics into a metal mold, very quickly creating products of virtually any size, and ensuring large quantities of identical items. This technology can support any product, from simple configurations to complex geometries, and offers a wide selection of surface finishes.

MC2 plating is a process we're helping to pioneer, using the SLA technology that's behind many of the prototypes we develop, and applying metal cladding to those finished products. The result are pieces that offer similar performance and ruggedness to metal, but at a fraction of the cost and time.

Rapid manufacturing

