

Invention
Imagine

Envision

Innovation

 **J.L. CLARK**
a CLARCOR company
**Powerful
Packaging**

YOUR FAST TRACK TO POWERFUL PACKAGING

Ready to leave your competitors in the dust? You can spend months and search the world over for a breakthrough new packaging concept. Or start here, at J.L. Clark. No one can take your great new container from concept to consumer faster. After all, our legacy of innovation dates back over 100 years, almost to the dawn of brand packaging. Today, more exciting new *Powerful Packaging* designs in metal, plastic and combinations of both are emerging than ever from the J.L. Clark R & D pipeline, for everything from candy to cosmetics, popcorn to promotions, spices to smokeless tobacco.

Take the first step. Of course, the hardest part of any project is just getting started. But at J.L. Clark, taking that first step has never been easier. Depending on your needs and the scope of the project, we'll schedule an INNOVATION DAY right at your facility.

You get an up-close, hands-on look at all the packaging possibilities. We get to ask questions, and gain valuable insight about your packaging objectives, products and customers. But that's just for starters...





You'll get an up-close, hands-on look at what's possible today in packaging...everything from highly decorative lithography techniques to catch a consumer's eye, to breakthrough new designs and materials for sustainability, to new manufacturing capabilities that can save you money downstream.

***Innovation
DAY!***

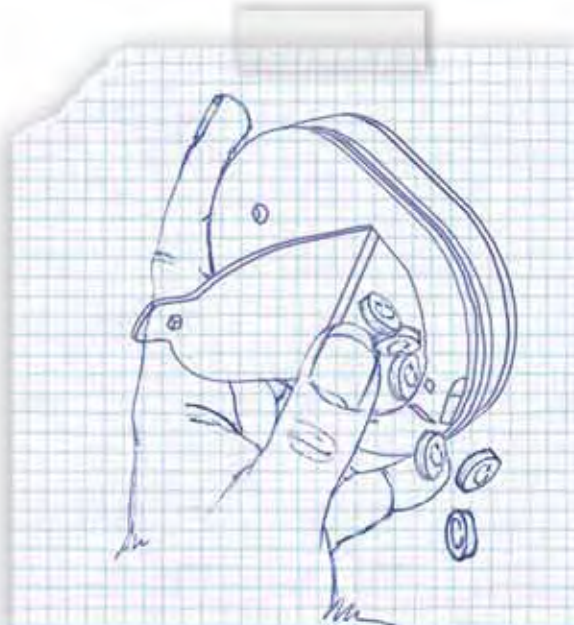
WE THINK BIG... AND DESIGN BETTER

Now we're rolling. Our in-house cross-functional team of experts in engineering, graphic design, manufacturing and project management begin collaborating with your team in the search for the totally new. Brainstorming sessions produce simple sketches...and simple sketches quickly evolve into more detailed 3-D drawings done using our powerful ProEngineer and AutoCad modeling software. Soon 'virtual' packaging begins to emerge that enables the team

to easily, and economically, refine concepts. Functionality and appearance can be modified practically at the touch of a button.

Packaging also can be quickly evaluated for its manufacturability, and then optimized to strike the perfect balance between economy, form and function – whether metal, plastic or a combination of both.

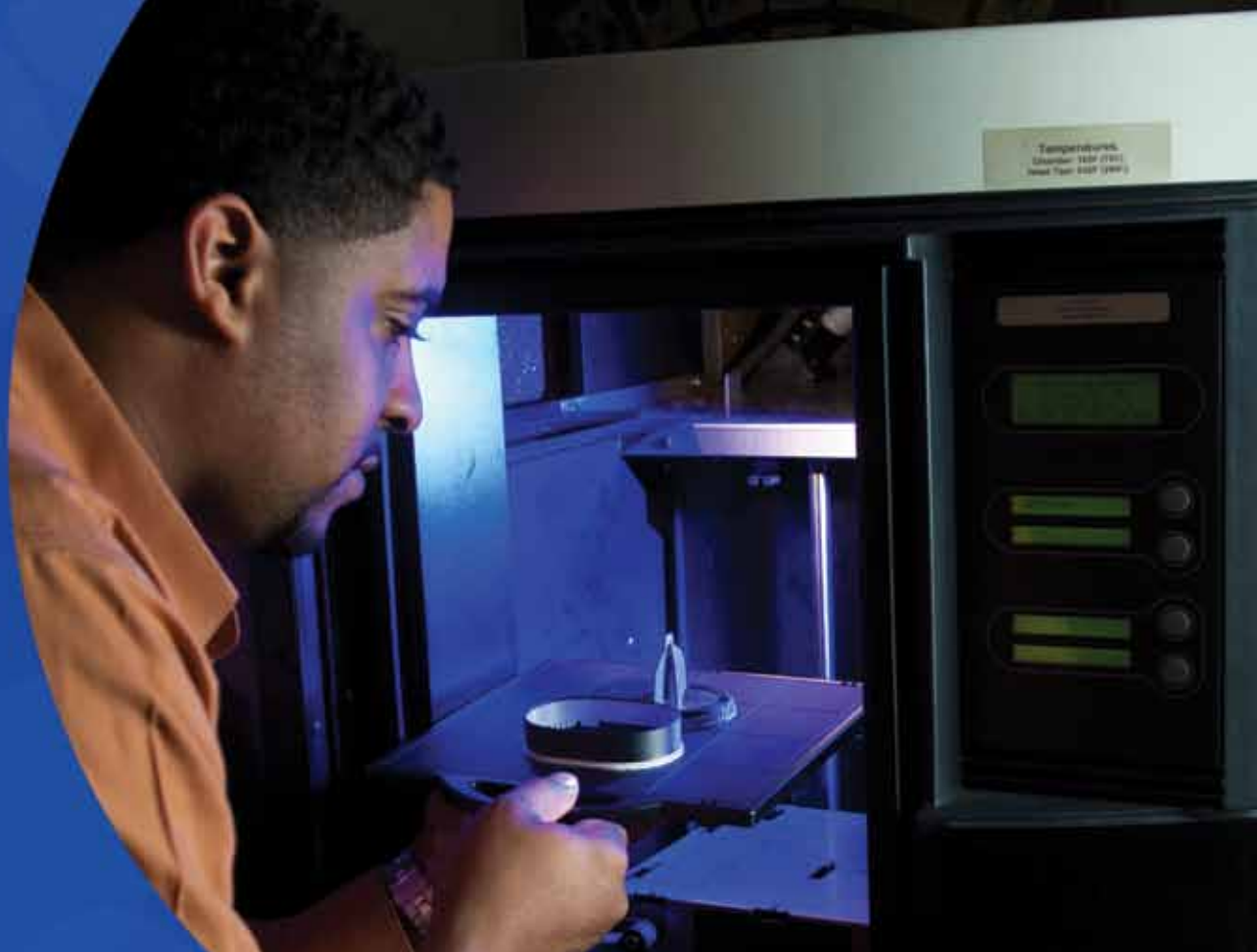
Ready to take the next step?





No stone left unturned...

Materials are evaluated in the search for optimum performance characteristics such as flexibility; and animation files can be created to replicate functions such as lid opening/closing.



Make the mold.

Precision prototype mold-making is done in-house on our own CNC machining center, cutting turn-around from days or even weeks to just hours.



WE START FAST... AND FINISH STRONG!

But there's nothing quite like seeing, touching and 'tweaking' the actual package, is there? That's why we've put into place advanced fused deposition modeling technology that enables us to produce physical, functional samples in a matter of hours. These samples closely approximate the end product, and are ideal for allowing everyone a chance to truly experience the package at the earliest possible stage.



perform a short pilot run to closely analyze every aspect of the production process, and all critical product characteristics. We can perform a similar process for *metal packaging* as well, using our new digital printing capability to produce high quality, highly decorated metal containers in quantities as few as one, and with turn-around time measured in hours rather than days.

Now we're ready for fullscale production.

But we don't stop there. Once *plastic packaging* is in the final stages of development, for example, we can build a prototype mold in-house and

Put product to the test.

We thoroughly test and analyze product performance using force and lifecycle testing of all critical features to further refine the design in advance of fullscale production.



FASTER! FROM CONCEPT TO CONSUMER

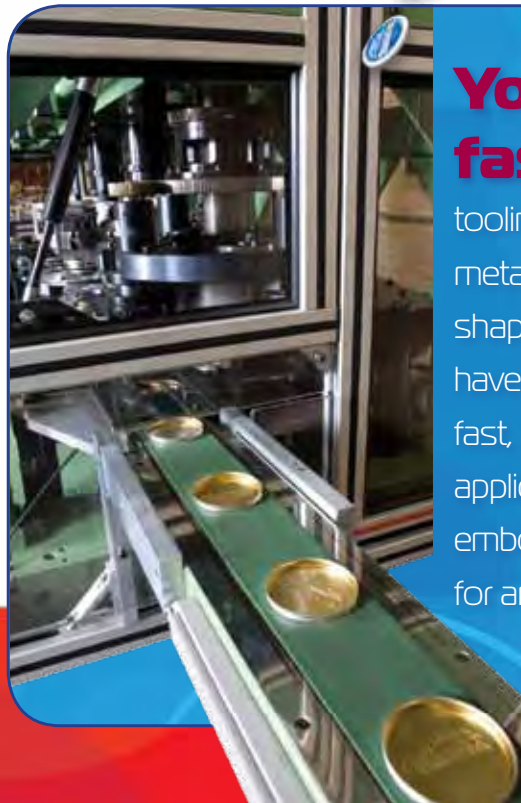
By now you're breathing a sigh of relief. After all, you've got a breakthrough new package design developed in record time. At J.L. Clark, the process of getting this great new concept into fullscale production and into the hands of your customers by your product launch date is remarkably painless. First, a J.L. Clark Project Manager is dedicated to the project from Day One. The Project Manager will use "Stage Gate" project management



techniques to track, measure and maintain artwork, production tooling and dozens of other key scheduling benchmarks in realtime. Even better, J.L. Clark is vertically integrated, putting all of the state-of-the-art manufacturing resources under one roof, including:

- A 100% digital pre-press, proofing, and plate manufacturing dept. for precise graphic reproduction and award-winning metal lithography – the best in our industry.
- Metal lithography using UV inks rather than with conventional solvent-based inks, for throughput times up to four times greater, and elimination of Volatile Organic Compounds (VOC).
- Highly automated metal fabrication resources.
- State-of-the-art injection molding with secondary operations such as labeling, door closing, even filling.
- A host of emerging new technologies, including digital printing, thin-wall molding, in-mold labeling, ‘bio-plastics,’ polypropylene clarifiers, and much more.

By now, your product’s on the shelf – and we’re helping you keep up with unprecedented new demand. That’s ***Powerful Packaging*** from J.L. Clark.



Your fabrication fast track. We have tooling on hand for over 80 stock metal products, in a wide variety of shapes and sizes. Better yet, we have all of the capabilities needed for fast, automated production, and the application of custom decoration, embossing textures and varnishes for any and all of these structures.

WE'RE GROWING GREEN



Green packaging, green practices. We're leading the way with new metal and plastic packaging designs, materials, and processes that are good for the environment – and all designed to entice the fast-growing number of consumers hungry for 'green' products.

Our steel containers are 100% recyclable – and made from up to 100% recycled steel. We're working to 'down-weight' our metal structures wherever possible too, to take weight and cost out of each container, and reduce their environmental impact.

A new generation of injection-molded plastic containers is being developed, with much thinner walls that take material and cost out of the container. Development of one of the fastest growing segments of green packaging is also underway at J.L. Clark: bioplastics that are easily recyclable and compostable.

Green practices...

Our company-wide environmental initiatives have been recognized with awards on a local and national level – including winning the First Annual Greener Package Award for Clean Manufacturing.

In addition, our plants, and processes, have undergone a 'green' transformation that has made them among the most energy efficient, with the least environmental impact, of any in our industry.



A LEGACY OF TRUST AND INNOVATION

For over 100 years, major brands have trusted in J.L. Clark for packaging innovation. It's a legacy unmatched in our industry. Now we're poised for another century of success, with a proud and experienced workforce, advanced and highly productive plant resources, and a legacy of innovation. Let us show you how...



Information is power!

eINNOVATIONS puts valuable information about **Powerful Packaging** at your fingertips to help you stay one step ahead of the competition. Visit jlclark.com and register today.



Plastic:

ISO	9001: 2000
Certified	

Plastic & Metal:

ISO	14001: 2004
Certified	



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