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# Domestic 'Fourslide' Parts Fabrication Slashes Inventory Costs

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If you're sourcing stamped metal parts from overseas, you may be required to order far more than you really need. Using fourslide fabrication can eliminate that requirement.

If you're sourcing metal stampings from overseas locations such as China, you're most likely buying in large volumes, perhaps container-loads. Chances are, you're also buying into some potential drawbacks, including prolonged lead times, sketchy communications, expensive tooling, and the inability to stamp individual parts with complex shapes.



One of the most troublesome drawbacks of those large volume overseas purchases is an excessive inventory requirement, which not only affects your cash outlay for parts, but also means you may have those parts on hand far longer than necessary; perhaps exceeding the lifecycle of the product they support. In such cases, leftover

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parts are often scrapped and the economies-of-scale benefit of stamping parts overseas is thwarted.

Increasingly, U.S. manufacturers are becoming less prone to making large-volume parts commitments, particularly in segments where products go through more frequent upgrades resulting in shorter life cycles. Many are finding that "fourslide" metal forming is a less expensive, more timely, and flexible solution that can reduce their inventory investments with JIT deliveries from a domestic supplier, instead of taking months to receive from an overseas stamping operation.

Outsourcing parts from overseas often results in large volumes and expensive tooling. Conversely, fourslide production uses a series of relatively inexpensive tools that make component parts in volumes of even a few thousand at an affordable cost, which is much more in line with many of today's manufacturers' requirements.

"Below the million [parts] mark, where many of us manufacturers reside, fourslide holds the advantage because of the very low cost of the tooling," says Anthony Viggiano, co-owner of Autotether, Inc. (Rocky Hill, CT); which makes a unique, multi-functional wireless alarm switch for boating safety applications. "With the fourslide process, the cost of the tool isn't that great, so your capital investment isn't high."

Although the term "fourslide" is generic, Autotether has chosen **Fourslide Spring and Stamping Inc.** (Bristol, CT) as its supplier. Fourslide offers customers the material of choice; such as, metal wire and flat strips of stainless steel, beryllium copper, phosphor bronze, brass, high-carbon steel and other materials; as well as finishes of electroless nickel, gold, silver, zinc and other metals. Assembly and secondary operations, such as drilling and tapping, are also available.

The fourslide process uses a sequence of stamping and forming operations on a single workstation and can execute multiple bends, radii, angles greater than 90°, dimples, and other features before the part is ejected. This capability yields precision metal stampings, flat springs, wire forms, contacts, and other complex forms for a wide range of medical, electrical, automotive, aerospace and military, consumer, and industrial applications.

The simplicity in producing fourslide tools versus the time-consuming complexity of power press tools, translates into a significant reduction of lead times approaching 50 percent or more. Compared with overseas suppliers, the lead-time savings could be even greater.

Jim Richards, Director of Sales & Marketing at Fourslide Spring and Stamping, points out that a U.S.-based fourslide fabricator has the

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ability to support the manufacturer-customer all the way through the process, from design through finishing. "The communication that occurs at various stages, in early design, prototype, or production requires a high-level of involvement with the parts manufacturer. The possibility of miscommunications is usually far less with a domestic supplier, and that can be vital to achieving the desired end result."

### Savings-Plus-Plus

The fourslide process benefits companies that want to limit their purchasing volumes without paying a premium. Those who are launching new products, customizing products for a special market, or anticipating future product modifications can place smaller orders from a fourslide house and still get quick turnaround.

ThermOweld (Tulsa, OK), a leading manufacturer of exothermic welding devices and materials used for welding heavy-duty grounding cables, went to Fourslide to manufacture the contacts used in its patent-pending EZ Lite Remote electric ignition system.

This battery-powered unit allows personnel who weld cables for grounding installations such as office buildings, utilities, and telecom installations, to ignite pre-packaged weld metals remotely from up to six feet away from the exothermic reaction that briefly reaches 3,000°F.

Although the EZ Lite Remote system is becoming increasingly popular, thermOweld (a division of Continental Industries Inc.) used the fourslide process because it could produce an initially limited number of contacts in the material of choice very quickly and affordably for first production phases.

"The tooling was affordable, and appropriate for our volumes," explains Troy Geren, thermOweld Product Development Manager. "The product was introduced to the market recently, so it will be some time before we reach higher volumes. But economies of scale are not a factor in this situation, because this is not the type of product that will be sold in high volumes where progressive stamping dies would be necessary."

"It is astounding that Fourslide can hold tolerances the way they have," Geren adds. "They tinplate the products before they ship to us. The fact that we can literally pull the products right out of the box and install them is important to us. We certainly don't want to get a part that we have to perform some operation on it before we can use it. So, making this component was a pure turnkey deal."

Not only is communication more convenient with domestic fourslide suppliers, but tooling changes are quicker and response time is normally much faster for design alterations, prototypes, and first

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In another electronic application, Visionary Lighting (Annapolis, MD) used Fourslide Spring and Stamping to supply phosphor-bronze contacts for a custom, LED-illuminated display tray that mounts to vertical shelf brackets used in retail outlets such as drugstores.

Visionary Lighting is a designer and contractor for providing LED and Edgewood edgelit acrylic illumination to cosmetics and point-of-purchase firms.

"I chose Fourslide for a number of reasons," explains Bob Krohn, president. "They were very knowledgeable about the parts I needed and how to fabricate them efficiently. We have worked with overseas vendors in the past, and it has not been easy. Having a local vendor proved to be very assuring and our comfort level with Fourslide has been much higher. Typically, when you run into a problem working with an overseas vendor, not only does communication become a challenge but the time and transit involved can be a huge barrier. Fourslide on the other hand provided us with quick turnaround. Samples took only about two weeks, and the first article about five weeks. Also, there was no secondary finishing or other operations required . . . the products I got were extraordinarily clean. The pricing of the tooling was better than those of (high-volume) shops that used power press stamping."

For more information, visit [www.fourslide.com](http://www.fourslide.com).

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