

# deep draw technology

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## why is buckeye shapeform's **deep draw technology** better for mission-critical performance?

If you've been using other, more traditional processes – impact, spinning, etc.- here's why you should make the change to Buckeye Shapeform's Deep Draw Technology:

### **our customers demand quality.**

Their products need to work every time in mission-critical applications. Quality needs to be first-rate and manufacturing processes must be virtually flawless. That's why Buckeye Shapeform continually refines our technology to deliver optimal results.

**run a reverse**—The Buckeye Deep Draw process is really a “reverse draw.” That is, with our process, on the primary draw we combine two draws in one operation, thus saving steps and time.

Plus, the Buckeye Shapeform Deep Draw process works with the following materials:

- Aluminum
- Mild (Cold Rolled) Steel
- Copper
- Precious Metals
- Brass
- Any Ductile Metal



Compared to other processes, Buckeye Shapeform's Deep Draw Technology inherently provides more advantages and benefits, including:

**improved accuracy**—Buckeye Shapeform's Deep Draw Technology uses a controlled movement process delivering a refined, highly calibrated product with tolerances in the thousandths. For example, Buckeye supplies the military with a missile casing which features a 7-inch interior diameter, with a tolerance of just +/- .003 inches. This kind of accuracy is attainable even on larger parts up to 84" in length and 12" in diameter.

**“flexible” hardness**—For some applications, steel may make sense. But Buckeye Shapeform's use of aluminum in the deep draw process provides a uniform grain structure and a product that is strong, yet ductile. This means Buckeye Shapeform Deep Draw products will absorb vibration better, and that's critical and sensitive electronics and other technology. By contrast, impact produced parts are often less uniform in quality and more brittle.

**better finish**—Buckeye Shapeform's Deep Draw Process provides a sealable finish on products of 63 micro-inches or less. This allows for a more complete product and the direct application of sealing gaskets during final assembly, thus eliminating secondary operations.

**more from less**—While steel has historically been less expensive than aluminum, fluctuating prices and tariffs for steel are making the use of that raw material less and less attractive compared to aluminum. Moreover, a pound of aluminum delivers three times the effective material yield of a pound of steel. The experts at Buckeye Shapeform stay abreast of material prices and customize solutions based on customers' requests and budgets.



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products that **perform** from a company that **delivers.**

What sets Buckeye Shapeform apart from its competitors is the level of technical support, customization and value-added services that we provide in-house. Whether you're up against an impossible deadline, or you're simply stretched for resources, you'll find that Buckeye goes the extra mile in ways that our competitors simply can't...or won't. We welcome the small order, and we take pride in our production excellence and on-time delivery statistics, which are the envy of companies everywhere.