

# Qualtek

## MANUFACTURING

### Amazing Deep-Draw Parts

By Jason Kroening



"Wow – you can DO that?" is a comment I hear frequently when someone sees the deep-drawn cans we produce. People are amazed that we take a flat piece of steel and reverse double draw it in one operation to 10" deep and then re-draw it in another die to make a part that is 4" in diameter and 12" deep.

According to typical die-making principles, if someone needed a three-dimensional cylinder or can-shaped part that was 12" tall, they would need to use four or five dies or die stations so the material could be gradually shaped to the desired dimensions.

Of course, building all those dies increases tooling costs and using them adds time to the production cycle. At Qualtek, we use a hydraulic press with programmable cylinders that can produce a deep drawn part in just two stations instead of possibly five or six.

When is deep draw stamping right for your project? It depends on a few things:

- What are the dimensions you need?
- What type of material are you using? (Deep draw works for stainless steel, aluminum, brass, and cold-rolled steel but is not limited to those materials.)
- How thick is the material?

When we work with a client at the design phase of a part we offer suggestions about the best processes that deliver the dimensions and quality but still save money and time. Deep draw stamping is not right for every project but we can tell you when it is a great option to consider. We've been building metal parts for over 50 years and love to share what we've learned to help our clients.

