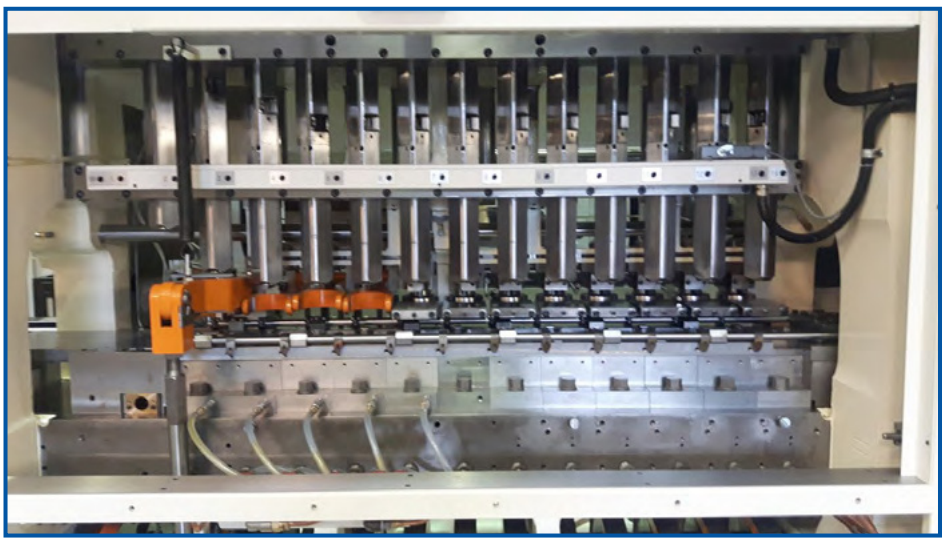
Our New Platarg Transfer Press

Hudson Technologies continues to invest in new technologies to meet the ever increasing demands of their customers. Recent purchases included a five axis cutting laser and eight robotic arms to improve productivity. Hudson's most recent purchase is a **Platarg Transfer Press**.

It takes several forming operations to form a deep-drawn part in a press. Unlike flat stamping, deep-drawn parts cannot go from a flat piece of metal to their final shape in one operation. In some cases the parts need to be annealed (heated and quenched) to make the parts malleable (softer) as the deep-draw process work hardens the metal. Sometimes anneals can be eliminated if the parts are manufactured in a multi-operation, automated type of press.

Hudson currently has three options for deep-drawing metal parts. The first option is single stage press forming. This means one part being made in a press and the part is moved to another press for additional operations. Several anneals might be necessary during the multiple press processing of the parts. The second option is a progressive die press. A progressive die has multiple operations that can form the part from a flat strip of metal through to a finished part. In this type of press the part stays attached to the strip of metal as it "progresses" through the press. The third option is called a transfer press. Very much like a progressive die, the transfer method allows the part to go from flat metal to a finished part in the same press. The biggest difference between progressive and transfer is that in a transfer press the part if freed from the metal strip in the first operation and mechanically "transferred" to each subsequent operation. Each of these three options have their benefits, but higher volumes benefit more from the two automated processes.

The Platarg press that Hudson purchased will be the largest transfer press at Hudson. It is a 10 Ton (per station) mechanical press with 13 stations capable of making parts up to 4.125" deep with a diameter up to 1.625". A transfer press is used to make high volume parts in a very efficient manner.



Transfer Press Advantages

Reliability

Repeatability

Quality

Cost

Difficult Metals

Titanium

Stainless Steel

Difficult Shapes

Rectangles—Prismatic, Square, Round