

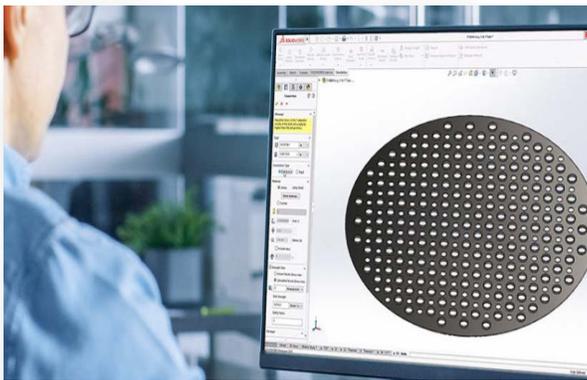
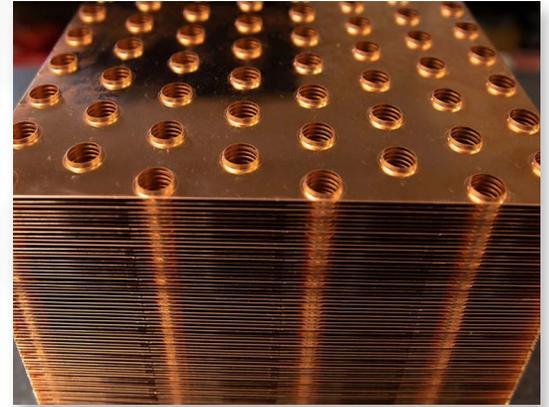


## Custom Fin Plate Case Study

### The Challenge

Heat exchangers perform best when fin plate material is thin, extrusions are high, and the plate shape is customized for the application. Those three specs can yield the thermal transfer properties, optimum airflow, and overall performance that heat exchanger designers seek.

But that thin/high/custom-shape combo is difficult to produce. Thin material can crumple on the press, creating a costly mess. It's very challenging to punch high extrusions from thin stock because there's so little material to work with. And, custom shapes can't be produced on a standard fin press. Only a CNC turret press offers that versatility.



### Challenge Accepted

An original equipment manufacturer assigned Ajax to produce custom fin plates for their commercial heat exchangers out of super-thin, 30-gauge (.0127"-.0187") copper. To achieve the desired fins-per-inch stack specification, extrusion height would need to be extreme. The plate shape was customized to fit the OEM's innovative, industry-leading design.

As always, only perfect parts could leave the plant. And project costs needed to be competitive.

### The Ajax Proprietary Solution

Ajax has this problem figured out. The Ajax engineering team designed a proprietary one-hit process that formed the custom shape, pierced and formed the extrusions to the perfect height, and kept the plates perfectly flat. All without requiring the elaborate and expensive tooling required by a standard fin press.

The end result was a perfectly flat fin plate with high extrusions that conformed to every customer specification. The one-hit process sped production, shortened the delivery time frame, and kept costs



With decades of experience forming custom fin plates, header plates, and casings for HVACR units, Ajax delivers virtually any size and shape using any material. Visit [Ajaxmfs.com](http://Ajaxmfs.com) for videos and service team information.