



Extruded Outlet Headers

The innovative leader in the manufacturing of extruded connections for over 60 years.

Our Commitment

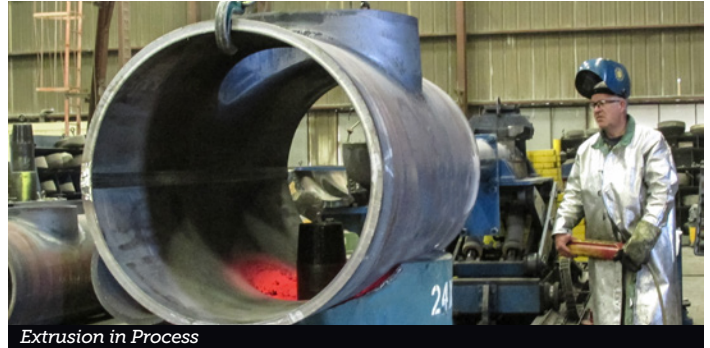
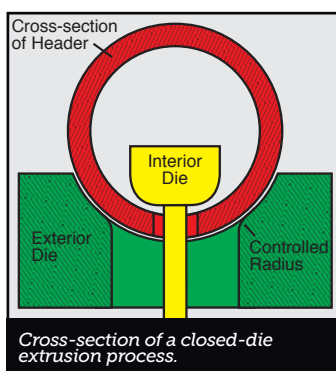
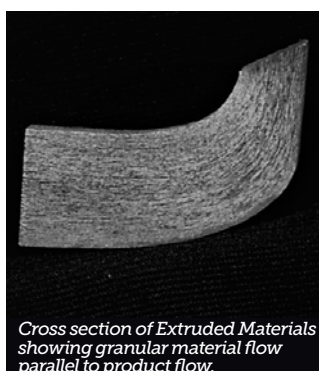
Taylor Forge's commitment to high quality solutions can be summed up in three attributes: integrity, collaboration and creativity. Taylor Forge shows integrity by not cutting corners or compromising practices, we collaborate with our customers by taking a consultative approach, and we apply creative solutions to our customers' needs and challenges. This combination has made us a leader in the manufacturing of extruded outlets and headers. We strive to understand the unique needs of each project in order to deliver the best solution. Extruded Outlets headers shall be designed, manufactured and tested per ASME B16.9 (carbon steel) or MSS SP-75 (high yield) and shall be capable of meeting the burst test requirement of said specification. When ordered to a specified pressure and temperature, design of outlet shall be in accordance with ASME B31.1, B31.3, B31.4, and/or B31.8.

Taylor Forge Quality Assurance

- More years of design and manufacturing experience than any other supplier.
- Careful raw material testing, including in-house destructive and non-destructive testing.
- Closed die extrusion process assures control of interior and exterior wall shape.
- Extruded outlets allow for 100% radiographic examination of all welds.

The Advantages of Closed-Die Formed Extruded Connections

Taylor Forge Engineered Systems has been the innovative leader in the manufacturing of extruded connections since 1959. Gas transmission, petroleum, petrochemical and nuclear are some of the industries that have taken advantage of the superior qualities of extrusions. We can adapt our extensive experience in design, engineering, manufacturing, shipping and installation to meet your specific needs. Quality control



is a fundamental concern due to the demanding environments in which our headers must perform.

Superior Strength

By moving the weld away from the highly stressed crotch area of the outlet, an extrusion offers a more reliable, proven connection than a welded-in or padded outlet. Fatigue cracking from cyclic or thermal loads is eliminated in some environments by extruded outlets. The butt weld of an extruded outlet also simplifies radiographic examination.



Design Flexibility

Extruded headers can offer design advantages unavailable with standard fittings. Outlet configurations can be designed to maximize cost savings or minimize space requirements. Distinct specifications to meet stringent code requirements are easily achieved.

Cost Effectivity

Field labor costs are reduced with extruded headers. Girth welds between outlets are eliminated as are the attachment welds needed with reinforcement pads or welded connections. Because Taylor Forge manufactures both custom headers and a full range of standard fittings, we are able to recommend the most cost-effective solution to meet your system requirements.



Pre Heating



End Vessel Shell In-Process



Overlay Welding

Standard manufacturing sequence for high-yield extruded headers and assemblies (per MSS-SP-75)

High-yield materials are used, cut to size, beveled for longitudinal weld, and serialized for tracking throughout the entire manufacturing process.

Hot or cold rolling of up to 7" thick plate is done in-house using one of four rolling mills, while ASME Section IX qualified welders handle all TFES procedures.

During the extrusion process, elliptical holes are torch-cut and conditioned as required using dies inside and out to control the outlet shape. Exact plate chemistry and specs will determine multiple factors including hot or cold extrusion, annealing, hot or cold pulling, and the number of process stages. After extrusion, headers are either normalized, normalized and tempered, quench and tempered, and

destructive or non-destructive tests are performed.

All weld seams are completely radiographed to verify weld integrity.

Headers may be stress relieved. Outlets are machined/beveled and scraper bars (if required) are installed prior to stress relief.

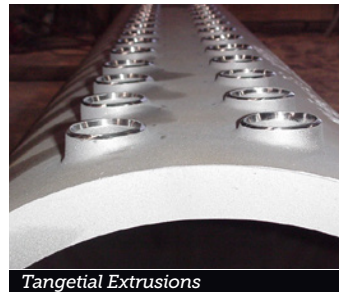
Headers are permanently marked using low-stress, interrupted dot-type stamps, unless otherwise specified. Header assemblies can be furnished with flanges, pipes, and other fittings welded in position.

Upon final-inspection, the end product is blasted and coated per specification requirements, and beveled ends are covered for their protection in preparation for shipping.

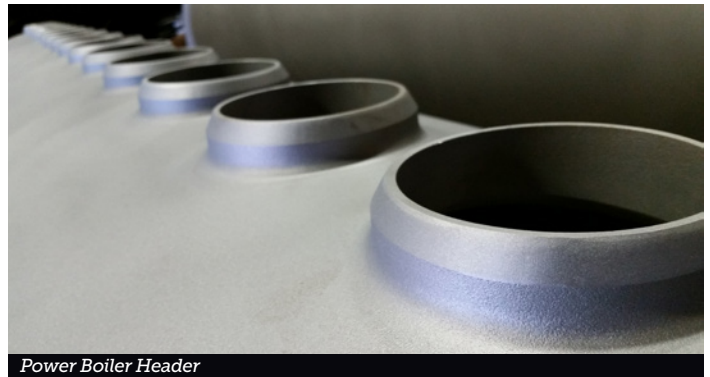
Some Common Uses for Extrusions



Extrusions for Air Grid



Tangential Extrusions



Power Boiler Header



Extruded Pulsation Bottle



Extrusions for an After Cooler Manifold



Extrusions for a Harp Slug Catcher

T/F TAYLOR FORGE

ENGINEERED SYSTEMS

Engineered Products Line



Slug Catchers



Scraper Traps



Pressure Vessels



*Shell & Tube
Heat Exchangers*



Cooler Header



*Vortex Technology
Separation*



*High Pressure Gas
Storage Vessels
for the Aerospace Industry*



*Extruded Outlets
& Headers*

About Taylor Forge

Taylor Forge is a global pressure equipment fabricator, headquartered in Eastern Kansas, providing high quality engineered products to a variety of industries including oil and gas, chemical, power, nuclear, aerospace and defense. In business for over 115 years, Taylor Forge takes pride in its specialized process design, thorough mechanical design and unique fabrication capabilities.

Certifications

ASME U, U2, S and National Board R



Commitment to Quality

In addition to our ASME & National Board Certifications, Taylor Forge – Paola, KS is ISO 9001 Certified.

World Headquarters:

208 N. Iron Street
Paola, KS 66071
(913) 294-5331
www.tfes.com

Please contact us for quotations at: engineered@tfes.com