High Performance Solutions for Large Extrusion Applications
Maximize Material Yields through Extrusion Technology

H.C. Starck is one of the largest producers of refractory materials with world class extrusion capabilities and services. We help customers solve material processing and fabrication challenges with extrusion technology and an extensive knowledge in the processing and metallurgy of a wide spectrum of metals and alloys.

Our extrusion services offer the ability to convert material to meet the size and shape requirements of customers. With a highly qualified staff of Engineers and Production Developers, we can assist with specifications for your material process and design needs. H.C. Starck focuses on extrusion process development to optimize extrusion quality and material yields. By producing near-net-shapes and pipes, extrusion reduces machining costs and improves material yields.

H.C. Starck can also provide extruded products, such as pipe and shapes, in many ferrous and nonferrous metals. We have one of the only extrusion operations in the world that can produce extruded pipe with a flange. As a fully-integrated supplier, we can manage the entire process from material procurement, extraction billet preparation to a wide range of finishing processes, including heat treatment, cleaning, straightening, and cutting.

Our extrusion expertise comprises specialty metals and alloy based systems including titanium, molybdenum, tantalum, niobium and other metals for large extrusion applications.

Extrusion Services and Product Offerings for a Wide Variety of Markets

Aerospace & Defense  Chemical Processing  Electronics

Medical  Automotive  Energy
H.C. Starck is a World Class Leader in Extrusion Technology

Technology & Capabilities

Premiere High Temperature Extrusion Source
Forward extruded shapes and pipe
Back extruded heavy wall pipe

Force
5,000 metric tons (5,500 tons)

Extrusion Ram Speed
1.27 – 203 mm/sec (0.05 – 8.0 inch/sec)

H.C. Starck is unique in its ability to extrude almost any metal in any size range. From concept to production, from small 6 inch diameter to large scale 17 inch diameter billet, we provide extrusion services to deliver specified material, size and shape to your specific needs. H.C. Starck’s extensive extrusion capabilities allow us to provide extrusion services with as little as two weeks lead-time.

At H.C. Starck we utilize our 5,000 metric ton (5,500 ton) extrusion press to extrude rods, tubes and shapes from difficult to extrude materials, including:

Copper and Copper Alloys
C10100 | C15000 | C16200 | C17200 | C17500 | C18200
C63000 | C70600 | C71500 | Copper and Niobium

Stainless Steels
300 series | 400 series | 15-5 PH | 17-4 PH | Duplex

Nickel Base Alloys
C276 | 400 | 625 | 718 | 800H | 925

Titanium and Titanium Alloys
CP2 | 6AI | 4V

Refractory Metals
Molybdenum and Molybdenum Alloys
Tantalum and Tantalum Alloys
Niobium | Chrome

Aluminum Metal Matrix Composites

Composite Billets
Superconductor Materials
Clad Materials

PIPE MATRIX

Pipe capability at 20 feet (6 m) minimum extruded lengths.
Please inquire for other sizes and metals.
The conditions of your use and application of our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis at least must include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by H.C. Starck. All information is given without warranty or guarantee. It is expressly understood and agreed that the customer assumes and hereby expressly releases H.C. Starck from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance and information. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under any patent. Properties of the products referred to herein shall, as a general rule, not be classed as information on the properties of the item for sale. In case of order please refer to issue number of the respective product data sheet. All sales and deliveries are based on the latest issue of the product data sheet and the latest version of our General Conditions of Sale and Delivery.

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