

High Performance Metal Solutions

High Performance Solutions for LT Superconducting Wire

H.C. Starck Solutions offers billet extrusion services for tantalum and niobium for high performance superconducting wire.

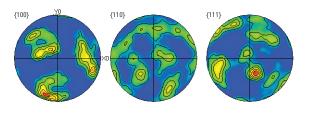
Applications

Nb₃Sn superconducting wire for high magnetic field applications: NMR, mass spectroscopy (FTMS), particle accelerators, nuclear fusion research equipment.

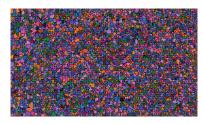
EBSD Map and Pole Figure of Nb rods in cross-section

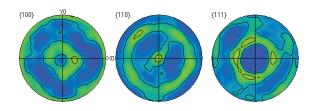
Before optimization





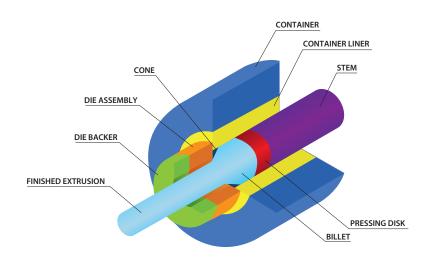
After optimization





Billet Extrusion

- > Press Force
 - > 5500 tons
- > Extrusion Temperature
 - > Wide range
 - > Controlled atmosphere
- > Input Billet Diameter
 - > 152 432 mm (6 17 inch) diameters



H.C. Starck offers billet extrusion services for superconducting wire. The 5500 mt press is uniquely equipped with state of art controls for accurate dimensional control and optimum reductions. The high tonnage results in improved superconducting wire yields and superior wire properties.

H.C. Starck Solutions operates globally in accordance with stringent purchasing guidelines and processes only raw materials acquired from conflict-free sources.



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