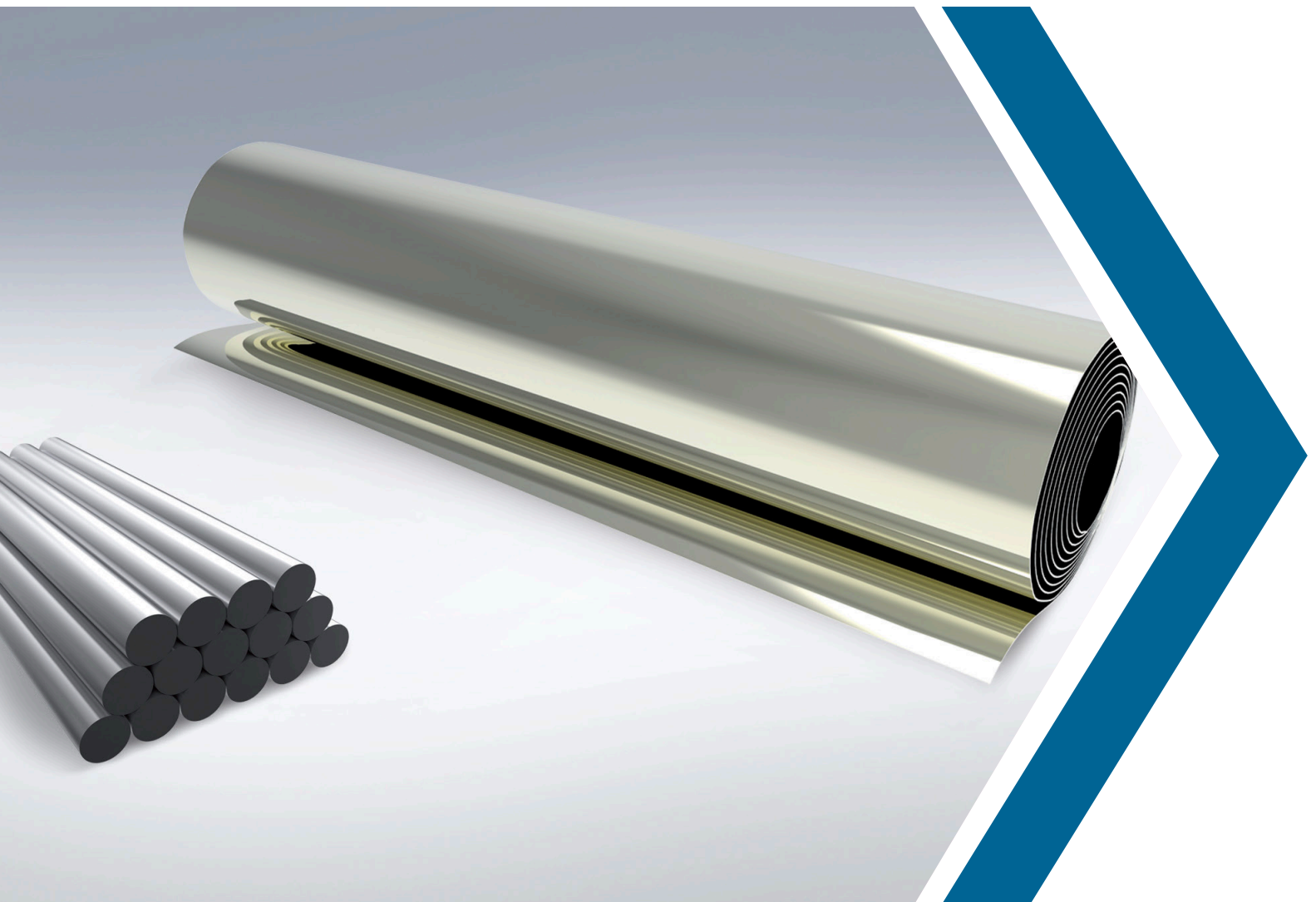


# HIGH PERFORMANCE SOLUTIONS FOR LT SUPERCONDUCTING WIRE



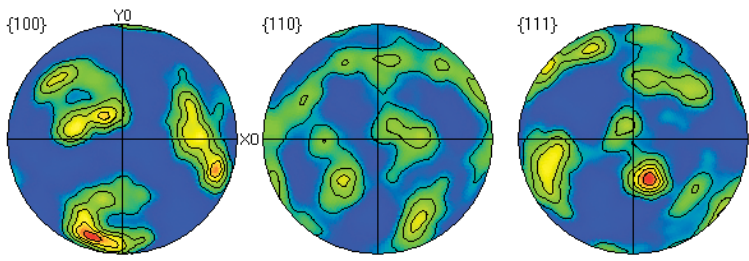
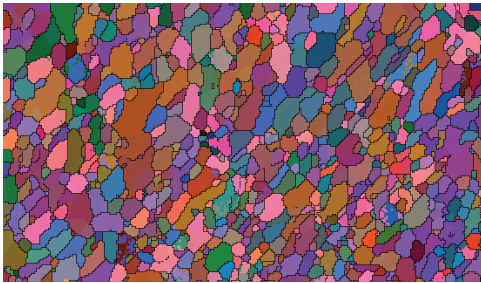
Elmet Technologies offers billet extrusion services for tantalum and niobium for high performance superconducting wire

**Applications**

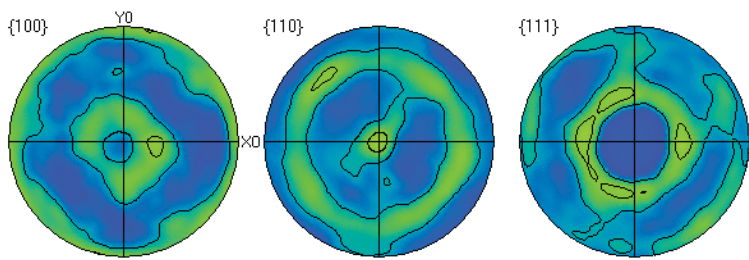
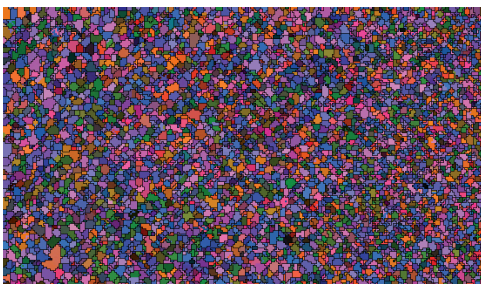
Nb<sub>3</sub>Sn superconducting wire for high magnetic field applications: NMR, mass spectroscopy (FTMS), particle accelerators, nuclear fusion research equipment

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

Before optimization



After optimization



## Billet Extrusion

### > Press Force

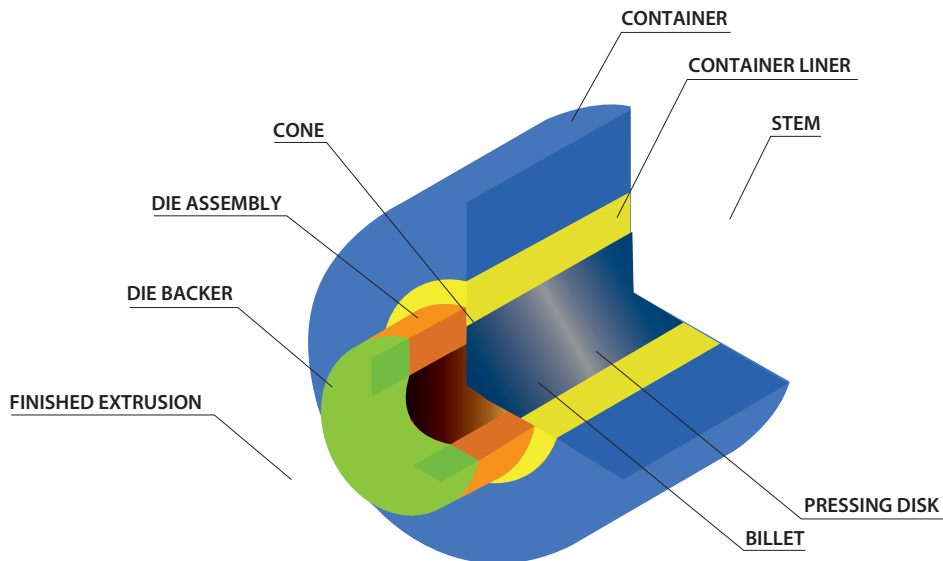
- 5500 tons

### > Extrusion Temperature

- Wide range
- Controlled atmosphere

### > Input Billet Diameter

- 152 – 432 mm (6 – 17 inch) diameters



Elmet Technologies 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.

Elmet Technologies operates globally in accordance with stringent purchasing guidelines and processes only raw materials acquired from conflict-free sources.

**ELMET**  
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