



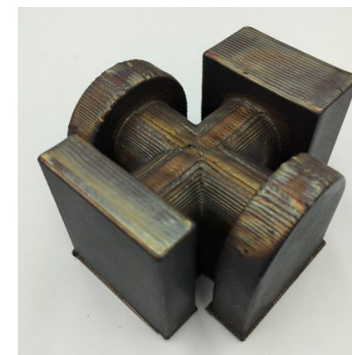
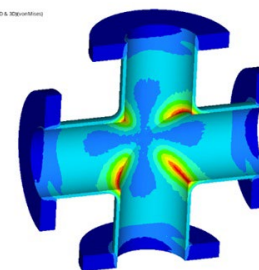
DEFENSE

CONNECTION CROSS FOR STRONTIUM CLOCK IN UHV

Courtesy of:



- **Design and manufacturer:** NAVY - Spain / Novaindef
- **AM Technology:** DED-L/w
- **Manufactured on:** Meltio Engine Blue 1KW
- **Manufacturing Time:** 18 hours
- **Material:** Stainless Steel 316L



Outstanding advantage:

Ultra High Vacuum (UHV) is used in a Strontium clock in order to minimize the interactions between particles. That represents an advantage when limiting the atoms quantic coherence degradation and therefore the long term stability and precision of the clock. Such part has to be acquire through a long lead time chain of supply due to the extremely rare application. Under this premises been fast and capable of manufacturing on demand and with high precision and part density is a key parameter, that allows the construction time to dramatically be reduced.

