

12. Cavity Dressing

12.1 Helium Vessel Assembly at KEK

12.2 Cavity Dressing

Flow of the Cavity Assembly to Cryomodule

TTF

Electropolishing



ITRP Visit to DESY, 5th April 2004

TESLA

The LC cold option

Module Assembly



The module assembly is a well defined and standard procedure.

- experience of 10 modules exists
- the latest generation (type III) will be used for series production (XFEL requires 120 modules)
- several cryogenic cycles as well as long time operation were studied
- the assembly problems occurred are well understood and cured

String Assembly



The assembly of an 8 cavity string

- is a standard procedure
- is done by technicians from the TESLA Collaboration
- is well documented using the cavity database as well as an Engineering Data Management System
- was the basis for two industrial studies.

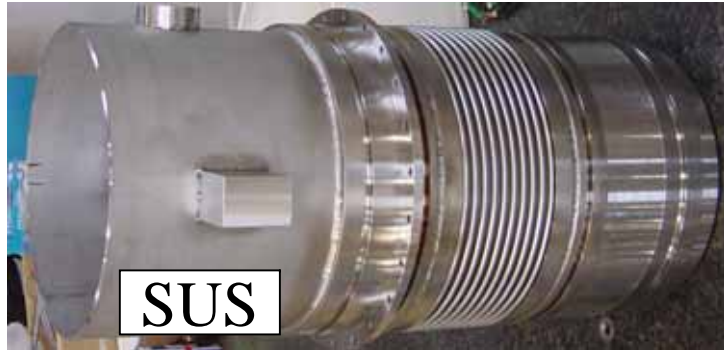
We are ready to transfer this well known and complete procedure to industry.

The inter-cavity connection is done in class 10 cleanrooms

Cryomodule test



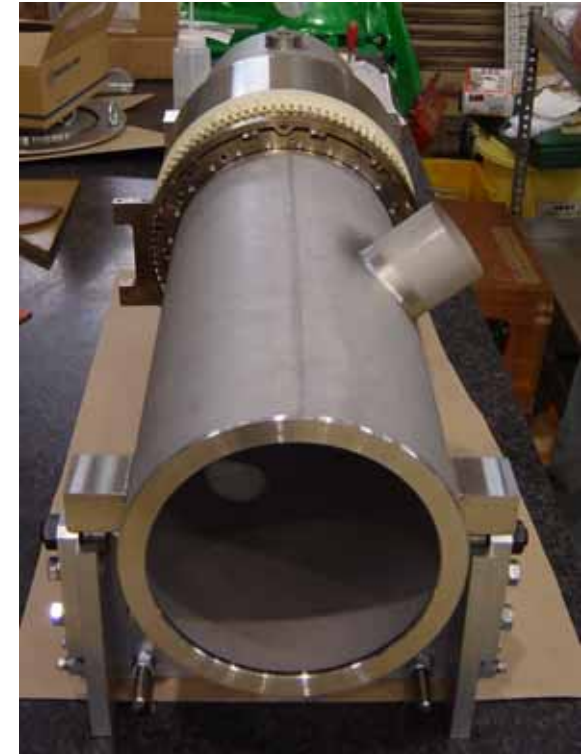
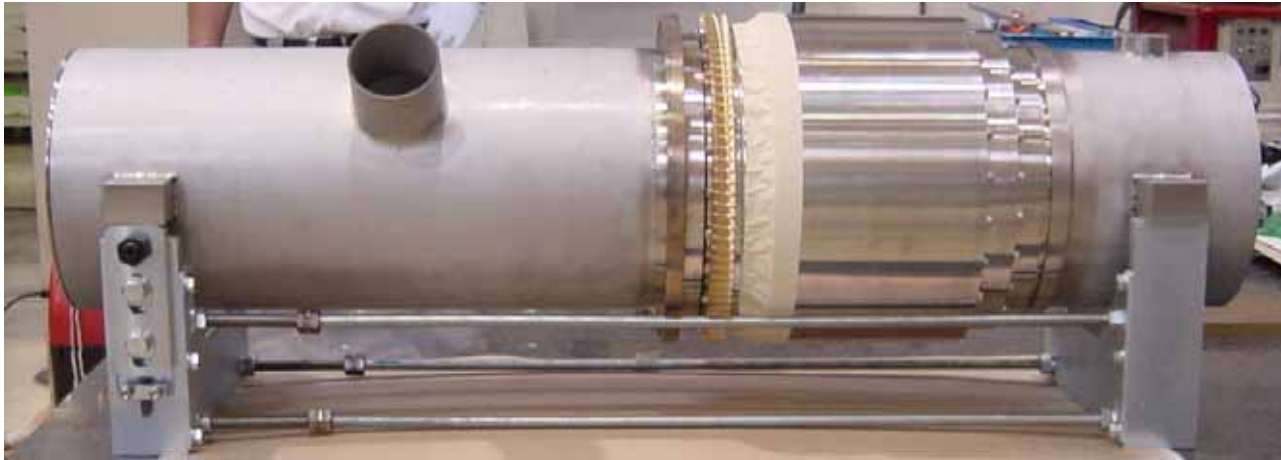
Helium Vessel Parts @ KEK



TIG Welding of the Vessel @ KEK



Completed Helium Vessel



Tuner Dressed Cavity @ KEK

Ichiro Cavity



Cavity String Assembly at DESY



The inter-cavity connection is done in class 10 cleanrooms



Coupler Mounting @ KEK



A Fully Dressed Cavity Holed under He Gas Return Pipe

