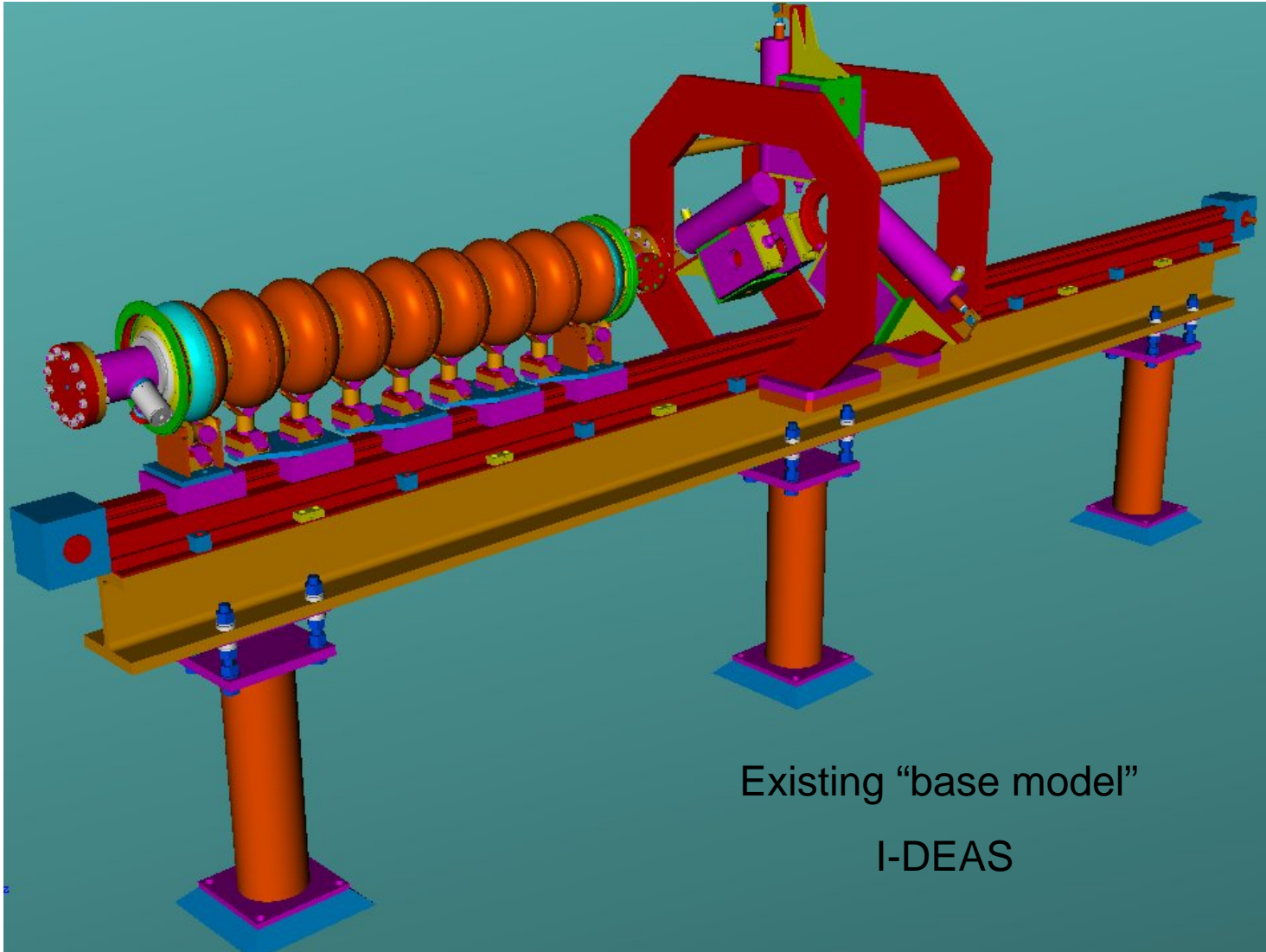




Cavity Tuning Machine

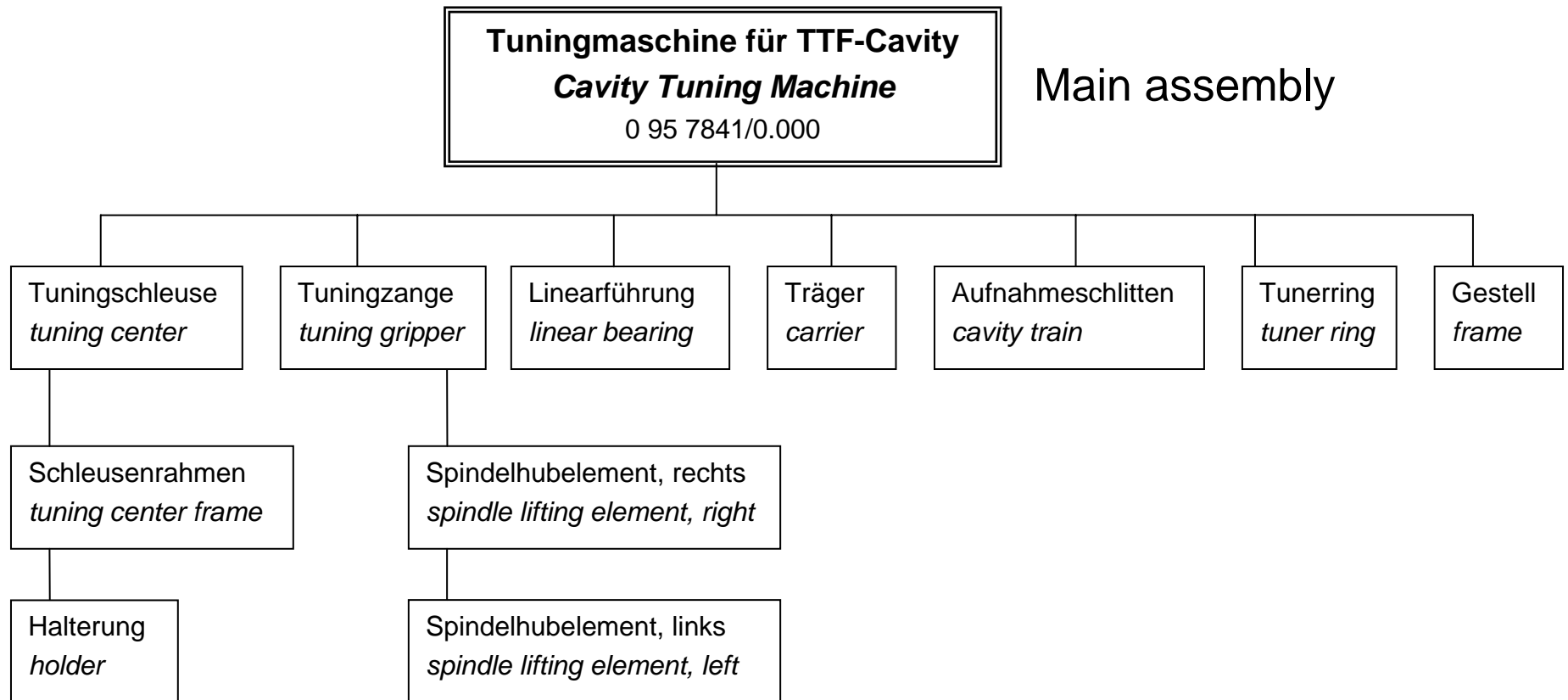


Existing "base model"
I-DEAS



Cavity Tuning Machine

assemblies and structure





Cavity Tuning Machine

Main assembly, documentation

- construction started 1995
- used CAD-System: “*Technovision*”, doesn’t exist anymore
- Drawings are still available from “DESY–IGES–Archive”, file types: IGES and HPGL
- Several layer per drawing, export of each layer necessary
- Import to I-DEAS Drafting possible! Expedient ?

Current status

- Several changes are poorly or not documented
- Some components no more available (motor, gearing, sensors, etc.)
- min 45 of 93 drawings and BOM must be updated
- Additional parts: documentation and integration in sub-assemblies must be done

Recommendation

New documentation with I-DEAS (3D-modelling)



Cavity Tuning Machine

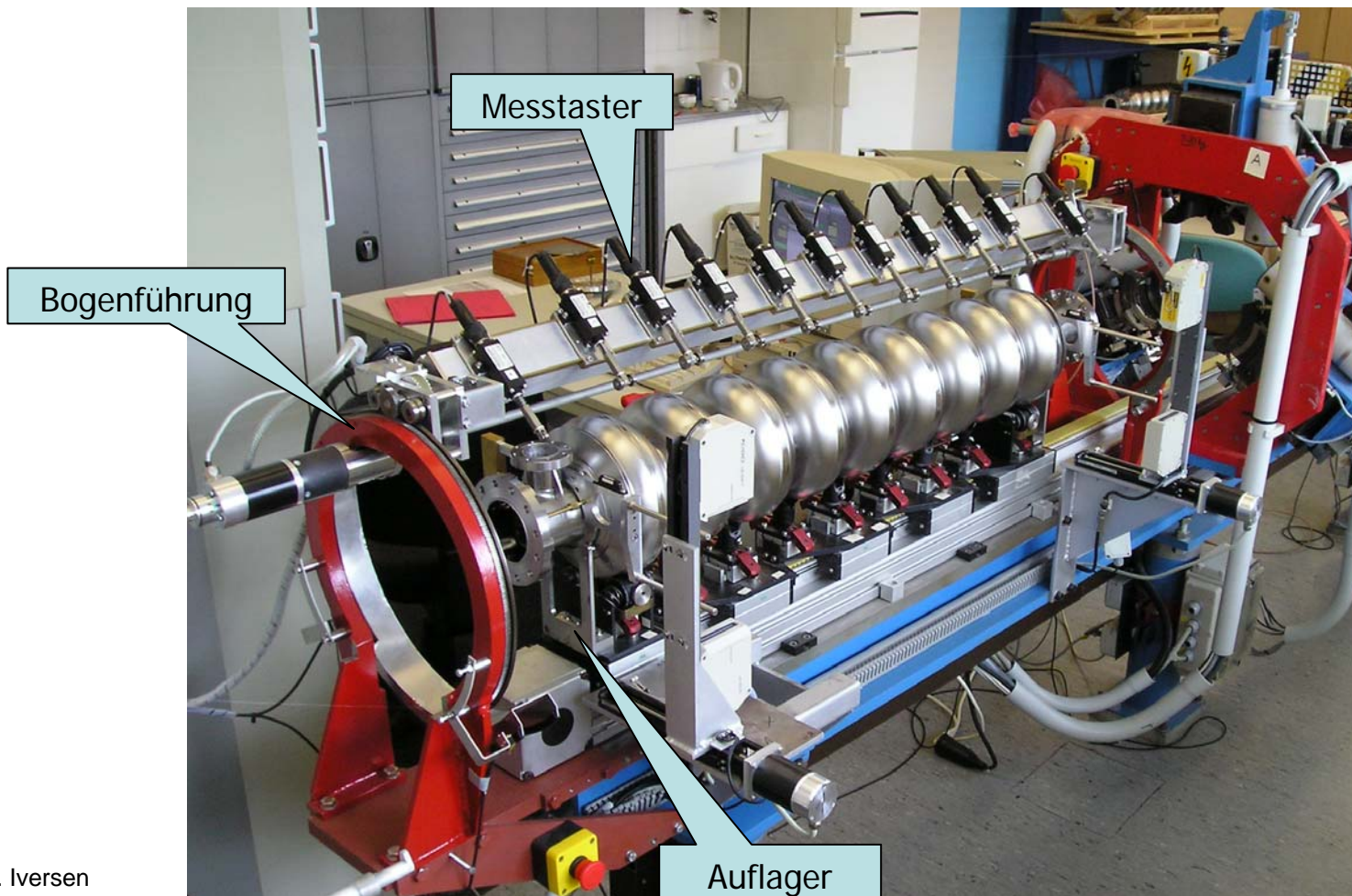
retrofitted devices

- Measuring device: **eccentricity**
 - Drawings are ok, 3D-modell are ok, I-DEAS documentation
- Measuring device: - **main length**
 - **perpendicularity from conical disc to cavity centerline**
 - DESY used available parts and laser systems
 - must be simplified for future production **COSTS!!**
- Handling: **wire input system**
 - Drawings are ok, 3D-modell are ok, I-DEAS documentation
- Handling: **transport and lifting system**
 - Drawings are ok, 3D-modell are ok, I-DEAS documentation
- A new **wire guiding system** is under construction



Cavity Tuning Machine

Measuring device: **eccentricity**

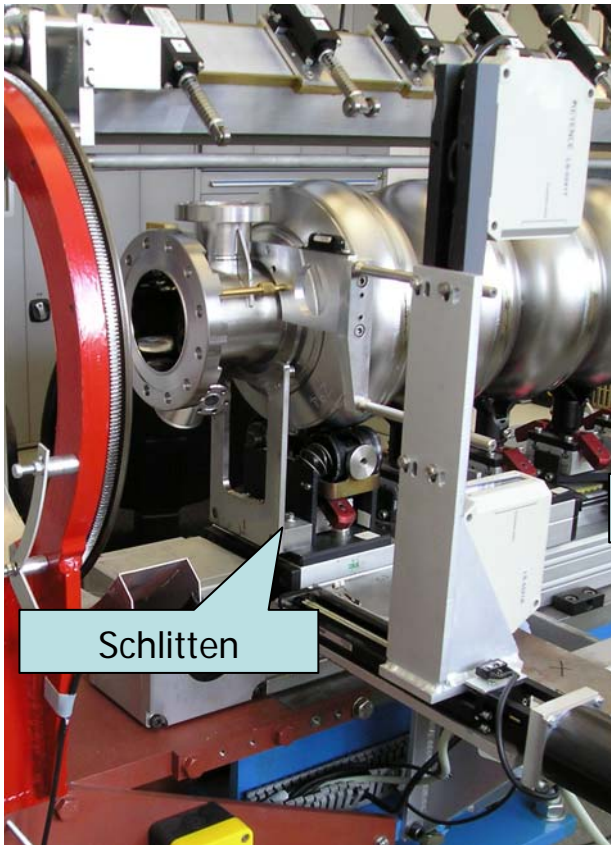




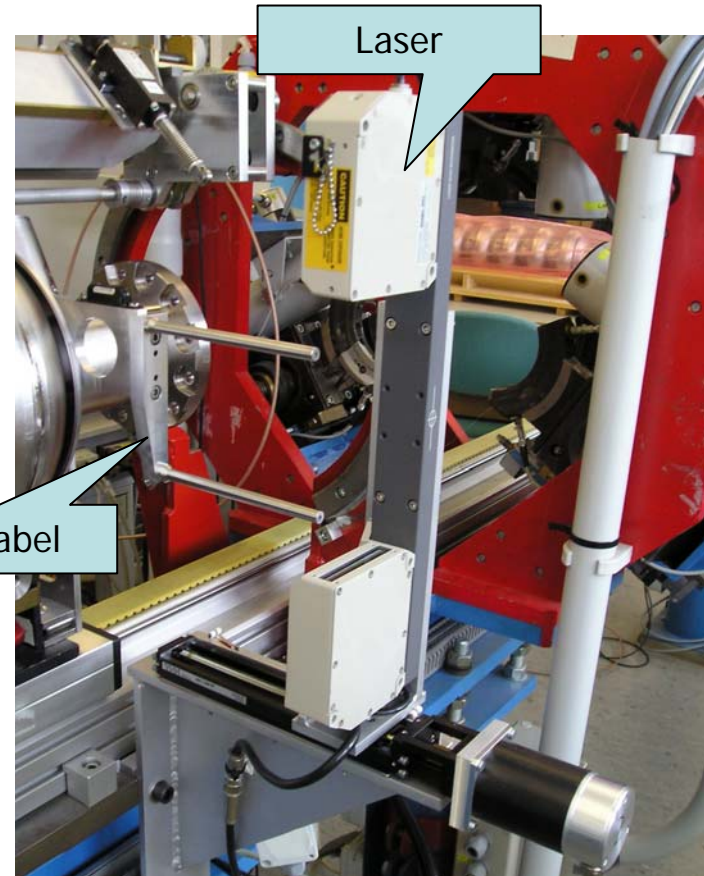
Cavity Tuning Machine

Measuring device :

- Main length
- Perpendicularity from conical disc to cavity centerline



Schlitten



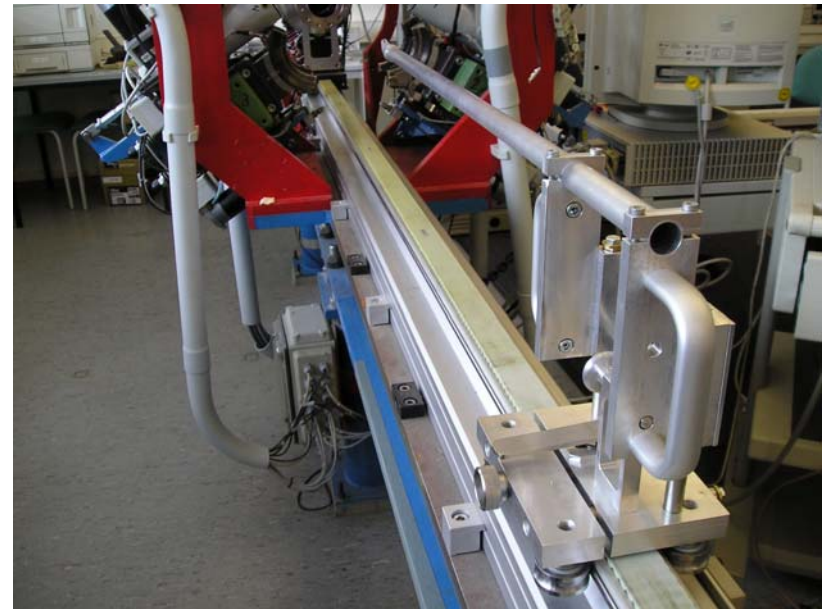
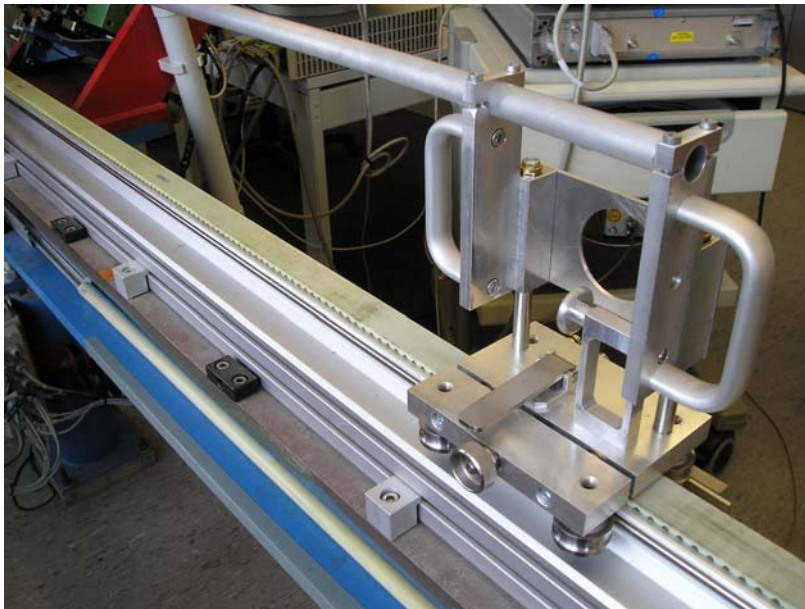
Laser

Messgabel



Cavity Tuning Machine

Handling:
wire input system





Cavity Tuning Machine

Handling:

transport and lifting system

