



Ik4-Tekniker Presentation



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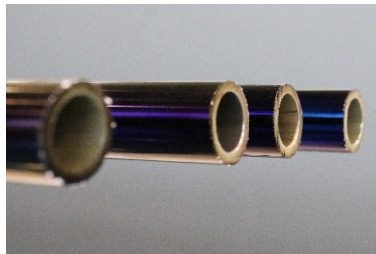
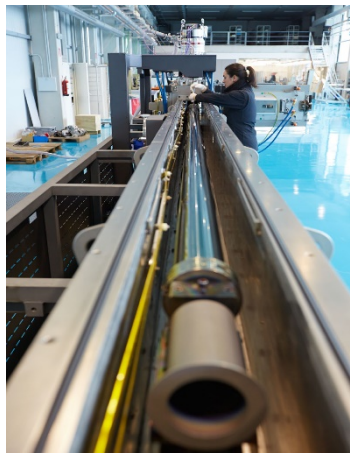
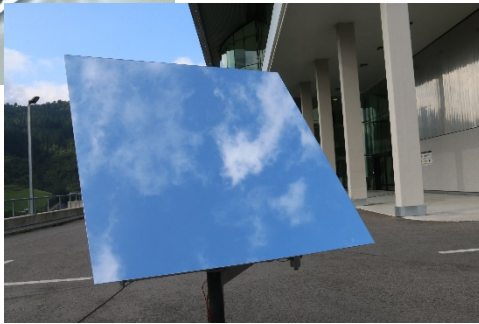
Mission Statement:

The mission of IK4-TEKNIKER in SHIP field is based on cross knowlege, (Coatings, industrial fluids, inspection systems....). IK4-TEKNIKER has been applying these technologies to Concentrated Solar Power systems (CSP) for the last 12 years and in recent years also to medium temperature applications.

SHIP Competences:

- New receiver concepts including new configurations, new materials and/or new coatings (selective and antireflective).
- Reflectors development
- Advance heat transfer fluids (HTF) and storage materials
- Systems for plants inspection and cleaning (maintenance)
- Modelling on thermal simulation
- Tracking systems
- Solar concentrators design





SHIP Research Infrastructure:

- Laboratory of heat transfer fluids and storage materials.
 - Physical and chemical properties
 - Thermal analysis
 - Corrosion risk assesment
 - Reactors for materials ageing
- Coatings characterization equipments
- Ad-hoc test bench for mirror durability and cleaning proses evaluation.
- HITECO facility for 4m length tube coating
- Autonomous navigation vehicle for solar field inspection MAINBOAT

Participation in INSHIP:

Work package involvement:

Person months (national + EC):

WP6, WP8,

(6 tbc + 2.5)

Objectives:

The main motivation as a research center is to build a transnational critical mass, and participate in the consolidation of European SHIP structure