



Mechanical Department

Tasks: Development of Instruments for the experimental Astrophysics

Mechanical Development

Personal:

7 mechanical engineers
1 CAD designer

Tasks:

- mechanical design
- stress analysis
- product assurance
- test definition and preparation

Design Tools:

- 2D / 3D CAD
- FE software

Machine Shops

Personal:

14 mechanics
2 locksmith
2 joiners

Tasks:

- mechanical manufacturing
- assembly

Machinery:

- 5 NC milling machines
- 4 milling machines
- 1 NC turning machine
- 4 turning machines
- diverse machines

CAD / CAM



Education Workshop

Personal:

2 instructor
8 apprentices

Tasks:

- precision mechanics trainee
- practical training for students

Test Facility

Personal:

2 engineers

Tasks:

- vibration tests
- TV tests

Equipment:

- Shaker with slip table
force vector 80kN
- 1 TV chamber
1450×500×590 mm
Temp.: -50°C – 80°C
- 1 TV chamber
800×1000 mm
Temp.: -40°C – 80°C
- Climatic Chamber
770×1020×745 mm
Climate Area: 10 - 95% r.H.
-75°C – 180°C

Plastic Laboratory

Personal:

2 assistants

Tasks:

- development of bonding techniques and bonding of plastics and metallic materials
- optical couplings
- fabrication of:
 - composites
 - MLI blankets