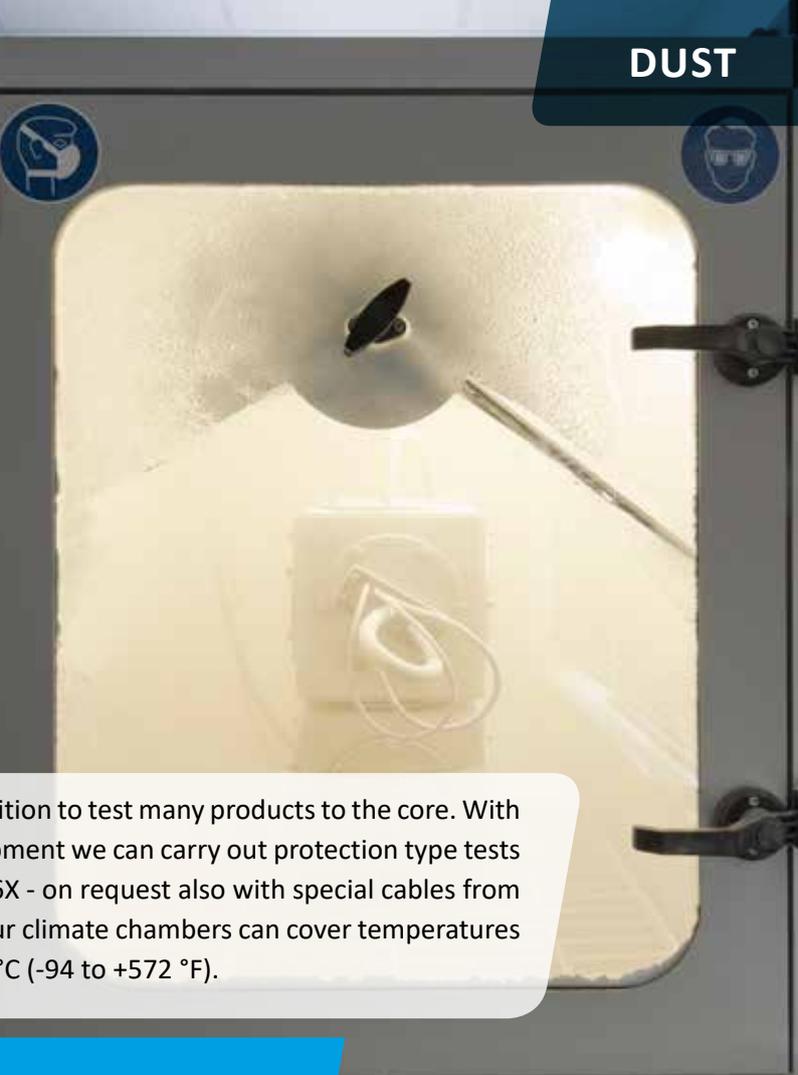
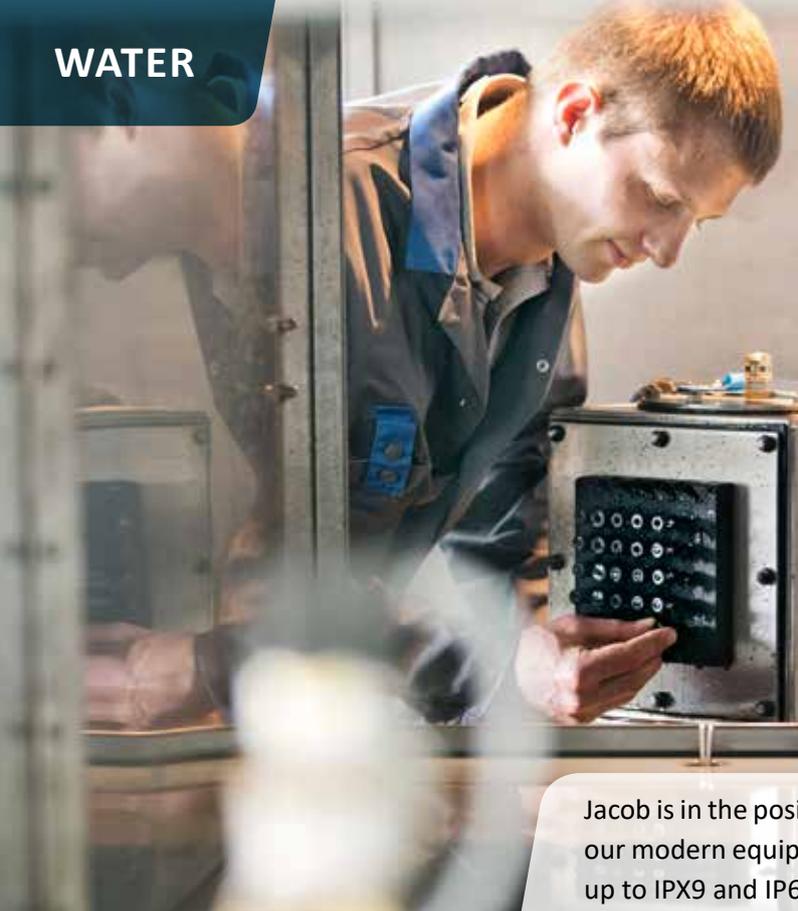


WATER

DUST



Jacob is in the position to test many products to the core. With our modern equipment we can carry out protection type tests up to IPX9 and IP6X - on request also with special cables from our customers. Our climate chambers can cover temperatures from -70 to +300 °C (-94 to +572 °F).

# THE JACOB LABORATORY



TEMPERATURE

PRESSURE

## SERVICE PROVIDER AT JACOB: THE LABORATORY

- ▶ Protection grade tests
- ▶ Impact tests
- ▶ Pull tests
- ▶ Climate tests
- ▶ Customized product tests

### Our checklist: Your testing requirements.

- Protection against ingress of dust IP5X and IP6X
- Protection against ingress of water IPX5 and IPX6
- Protection against continuous immersion in water IPX8 up to 16,0 bar
- Protection against water with high pressure IPX9
- Static and dynamic pull test
- Testing of impact category acc. to EN 62444
- Testing of impact category acc. to Ex-test standard EN IEC 60079-0
- Twist test acc. to EN 62444
- Temperature test from -70 to +300 °C (-94 to +572 °F)
- Climate test with variable temperatures and relative air humidity of 10 - 98 % RH
- Other requirements: .....

DEVELOPMENT

MOLD MAKING



Jacob is the specialist for cable entry systems. But we can go beyond. For tricky challenges we have implemented a team of specialists entirely dedicated to non-standard applications and requirements. With all departments under one roof, good ideas never have to go far to become reality.

# EVERY- THING UNDER ONE ROOF

PLASTIC TECHNOLOGY

TURNING TECHNOLOGY

# SERVICE PROVIDER AT JACOB: THE TECHNICAL DEPARTMENTS

- ▶ R&D
- ▶ Mold making
- ▶ Injection molding / Plastic technology
- ▶ Turning technology
- ▶ Tool making

## PLASTIC TECHNOLOGY

- Materials:** PA6 to PA66  
PE / PS / PVC / POM / PC / ...  
many other materials upon request
- Technology:**
- ▶ Maximal closing force 1100 kN
  - ▶ 470 mm holm distance
  - ▶ Shot weight max. 168 g/PS
  - ▶ Daylight of die from min. 250 mm to max. 750 mm
- Other:**
- ▶ Circuit points for tempering unit
  - ▶ Hot runner systems
  - ▶ Masterbatch  
-> almost all colors possible
  - ▶ Injection fluid possible
  - ▶ Inhouse mold making

## TURNING TECHNOLOGY

- Materials:** Brass  
Lead-free brass  
Stainless  
Aluminum
- Technology:**
- ▶ Maximum spindle aperture
    1. Multi spindle automatic lathe up to 55 mm diameter
    2. Single spindle automatic lathe up to 102,5 mm diameter
  - ▶ Number of spindles: max. 8
- Tool making - grinding machine**
- ▶ Max. torque: 88 Nm
  - ▶ Swiveling range: 225°
  - ▶ Receptacle: HSK-50 and SK 50

## RESEARCH & DEVELOPMENT

### Performance areas:

- ▶ Development of concepts
- ▶ FEM-simulations
- ▶ Filling studies
- ▶ Rapid Prototyping
- ▶ CAD-CAM and Rapid Manufacturing
- ▶ Process development up to serial production