

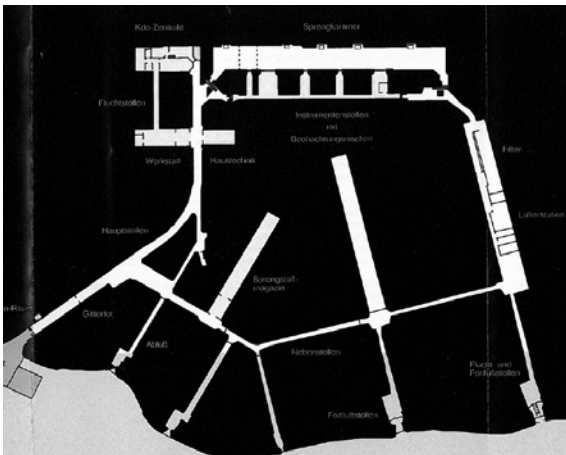


Hondrich Detonics Laboratory

The Hondrich Detonics Laboratory is a modern underground test facility designed for fully instrumented detonics experiments. This laboratory was created by reusing a former artillery fortress from World War II. Its location under extensive rock formations reduces noise, dust and smoke emissions to a minimum.



Demolition chamber



Floor plan Hondrich Detonics Laboratory



Typical arrangement of 300 kV X-ray flash unit

Technical data

- Dimensions of demolition chamber
l x w x h: 76 m x 8 m x 6 m
- Five measuring bays equipped with state-of-the-art diagnostic systems
- Typical instrumentation:
 - high-speed camera
 - X-ray flash units
 - stereographic X-ray flash units
 - laser reflectrometry
 - pressure, position, speed and acceleration measurement
- Static and dynamic experiments with explosives up to 15 kg TNT equivalent

Characteristics / description

- Research assignments, tests and investigations both in military and civilian detonics applications
- Analysis of function and effect of shaped charges, hollow charges and shaped explosive projectiles as well as development of respective protective measures
- Evaluation of warheads
- Assessment of penetrating and perforating power
- Characterisation of fragmentation charges
- Assessment of explosive-reactive and non explosive-reactive armours
- Protective applications
 - security of civilian buildings and facilities
 - protection against attacks with explosives
 - protection against explosions
 - protection against shock waves and projectiles