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Prof. Dr. Ing. Chr. Seiler
(numerical analysis)
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(FE- calculation and analysis)
Prof. Dr. Ing. J. Ansorge
(bolted connections)
Prof. Dr. Ing. T. Ummenhofer
(TU-Braunschweig)

Testing Equipment (extract)

<table>
<thead>
<tr>
<th>Force</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12000 kN</td>
<td>Tensile Testing</td>
</tr>
<tr>
<td>8000 kN</td>
<td>Compressing Testing</td>
</tr>
<tr>
<td>3 x 1000 kN</td>
<td>Universal testing machine (tension, compression, bending)</td>
</tr>
<tr>
<td>600 kN</td>
<td>Schenck – Fatigue testing (up to 40 Hz)</td>
</tr>
<tr>
<td>400 kN</td>
<td>Universal testing machine (statically and fatigue)</td>
</tr>
<tr>
<td>250 kN</td>
<td>Universal testing machine (statically)</td>
</tr>
<tr>
<td>150 kN</td>
<td>Amsler high frequency testing machine</td>
</tr>
<tr>
<td>2 x 100 kN</td>
<td>Universal testing machine (statically and fatigue)</td>
</tr>
<tr>
<td>63 kN</td>
<td>Universal testing machine (statically and fatigue)</td>
</tr>
<tr>
<td>2 x 40 kN</td>
<td>Universal testing machine (statically and fatigue)</td>
</tr>
<tr>
<td>40 kN</td>
<td>Explosion testing machine</td>
</tr>
</tbody>
</table>

• We are an independent institute for material testing and research
• We test, control and examine materials, components, constructions, productions, and we consult companies
• We work for the industry, public utilities, court of laws and private persons
• We are acknowledged by the DIBt as a supervision and certifying institute

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Testing of components

Load bearing capacity testing of cast aluminium components

General approval testing of sandwich elements

Full scale testing of traffic sign bridges

Testing of steel and light metal components

Studies on reinforced steel frames

Fatigue testing of high strength steel notches (S 690, S 960, S 1100)

Testing of welded joints made of high strength steel (S 690)

Load bearing capacity testing on welded joints

Load bearing capacity test on Σ - Profiles
Testing of glass components

- Testing of walkable glass
- Testing of accessible glass according to GS Bau 18
- Impact testing according to EN 12600
- Post breakage behaviour of horizontal glazing systems
- Dynamic post breakage behaviour of vertical glazing systems

Supervision of glass products

- Accreditation of producers of heat strengthened glass
- Certification of fully tempered glass with heat soak test
- Certification and monitoring of structural sealant glazing systems
- Initial type testing of fully tempered glass
- Supervision of air and driving rain leakage testing of curtain wall systems
Accreditation certificates (selection)

Load bearing tests

Steel and aluminium trapezoidal profiles

Tests on welded joints (steel S690)

Steel and aluminium corrugated profiles

Ultimate load test on mechanical connections

Screw testing for Hilti AG
Load bearing tests and results

Brittle fracture by -20°C
Makrosection of a butt welded connection

Fatigue testing on full scale components

Fatigue test on welded H-Profiles made of high strength steel
Fatigue test on roller coaster rails

Different Silicon bonded joints
Fatigue test on welded steel - steel casting

FE calculation of bonded specimens
Fatigue test on silicon bonded panels

Fatigue test on bonded plates
Fatigue test on thick walled hollow sections “scale effect”
Friction welded concrete bars feritic steel- austenitic steel

1000 kN testing machine with inductive heating oven (T_{max} = 900°C)

testing machine with acclimating chamber (-20 to 90°C)

Fully bonded stairway in glass – steel design

Fully bonded stairway (detail)

Test serial of connecting detail of glass stairway
Controlling of Construction

German Pavilion
EXPO 2000

Olympic Stadium
Berlin
Roof construction

Glass facade library Cottbus

Structural glazing facades

Durability of old railway bridges

New trade fair Stuttgart

Welding monitoring on a pedestrian bridge (S 690)

Pedestrian bridge near Ingolstadt

Pedestrian bridge in Munich