



safe.inspiring.green.

**SOLUTIONS + COMPETENCE**



## **BRAND-NAME QUALITY + SERVICE** **AVAILABILITY GUARANTEED**

Individuals who are in charge of processes are fully aware of the costs that may be incurred as a result of failures, maintenance work and downtime. Help is on hand in the form of **solutions that are made to last, robust and low-maintenance**, and are reflected in terms of price. For more than 112 years, Spelsberg has been renowned in many industries for boxes, distribution units and enclosures that combine excellent **brand-name quality** with outstanding value for money.



Till Fastabend and Holger Spelsberg  
(Managing directors)



Low-maintenance solutions



More than 5,000 widely available items



Fast reaction to special requirements

The innovative nature of this family-run business means that it is always striving to find new solutions with **improved functionality and more straightforward installation**. At present, the range offered by this German company steeped in tradition includes more than 5,000 widely available items, including junction boxes, small distribution units, terminal block enclosures, meter enclosures and industrial enclosures.

The company trades all over the world via its own subsidiaries and distribution partners, manufacturing its products in a consistent manner in **Germany** and employing a total of approximately **450 employees** at its various sites and in its subsidiaries. This medium-size enterprise places great importance on quality and service, offering the right range of products and systems that are specifically tailored for industrial applications.

Even if you cannot find what you are looking for here: virtually all of the enclosures can be customised in line with the **customer's requirements**, and can be completely redeveloped by Spelsberg if required too. Thanks to this personalised offering, Spelsberg has managed to make a name for itself within the industry in the field of **customising**.



**The average length of service of a Spelsberg employee is 12.5 years**

From a statistical point of view, this is 2 years longer than the average in Germany



## OUR ASSETS REAL SPELSBERG PEOPLE

**Our employees are our most valuable asset.** Close, trusting co-operation, flat hierarchies and open communication are important pillars of our success.

This is how we obtain an **innovative** environment, keep expertise in the company and provide our customers with **comprehensive service** for our products.

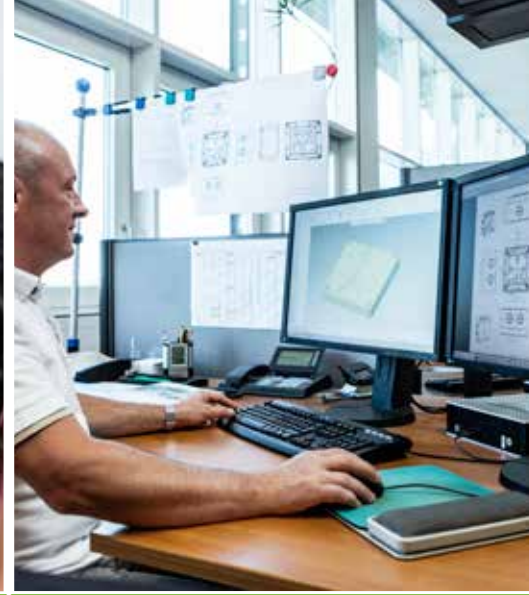
The satisfaction of our **Spelsberg employees** is shown by the low level of fluctuation and how well they identify with the company.



1) Consultation / support



2) Project management



3) Development / construction



7) Testing / certification



**WE'LL ADVISE YOU WELL**



4) Prototyping



5) Tool design



6) Tool production



8) Manufacturing



9) Enclosure production



10) Delivery



SERVICE RIGHT FROM THE START

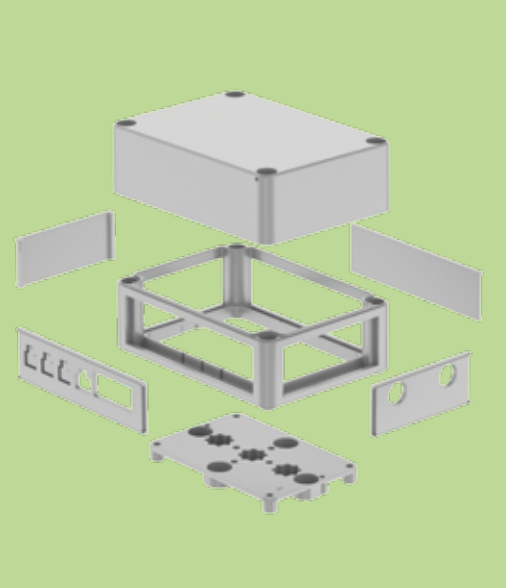




CNC-controlled milling centres



EMC coatings



Modular tools:



Pad printing



Wiring / testing



Special assembly

## TAILOR MADE SOLUTIONS EVEN FOR EXTREME CONDITIONS

### Machining service

- Openings
- Threads
- Engravings
- Individual fastening points  
(Ultrasonic welding)
- EMC coatings

### Modular tools:

- Openings
- Pre-embossing
- Fastening points
- Embossing

### Print service

- Design films
- Membrane keyboards
- Screen printing, pad, digital, laser printing
- Hot embossing

### Assembly service

- Equipping
- Wiring
- Testing

### Packing service

- Production-orientated
  - Loose and separate
- Ready for sending
  - Tailored goods
  - Shrink-wrapped and labelled individually for the customer





Design films



Hot embossing



Laser printing



Special accessories, e.g. mast clamp brackets



Special colours



Latches

**Special accessories**

- Terminal bracket
- Mast clamps
- Latches
- Circuit board holders

**Special colours**

- Finishing: dyed or coated
- RAL, HKS and pantone colours are possible

**Materials**

- The same enclosure sizes are available in different qualities / materials so they are always suitable for the demands on-site

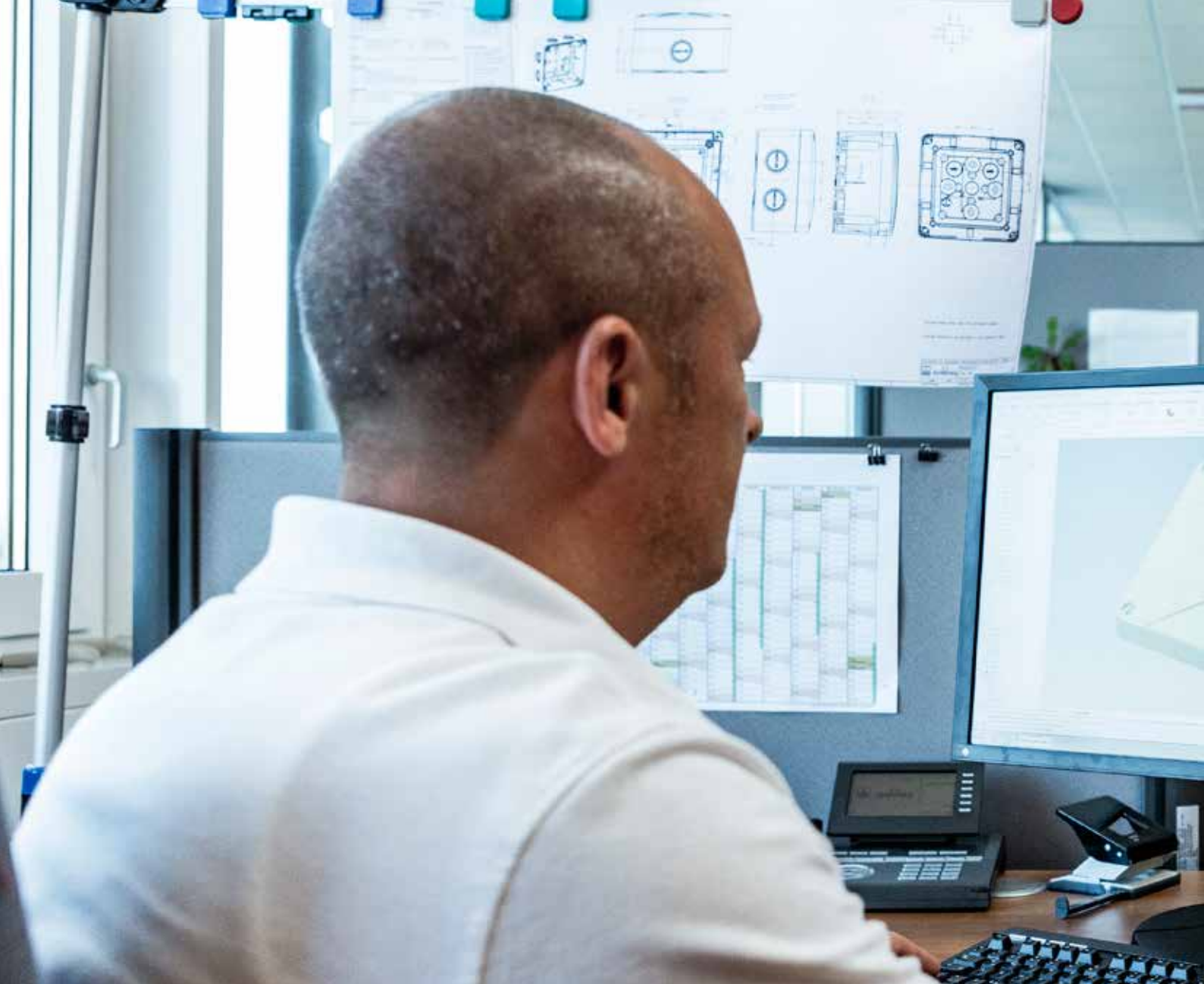
**Standard quality**

- Polystyrene, plastic
- ABS, plastic
- Thermoset, plastic

**Industrial quality:**

For high material requirements

- Polycarbonate, glass fibre reinforced, c UL us approval (American and Canadian approval)
- Aluminium (with American and Canadian approval upon request)



Preliminary discussions

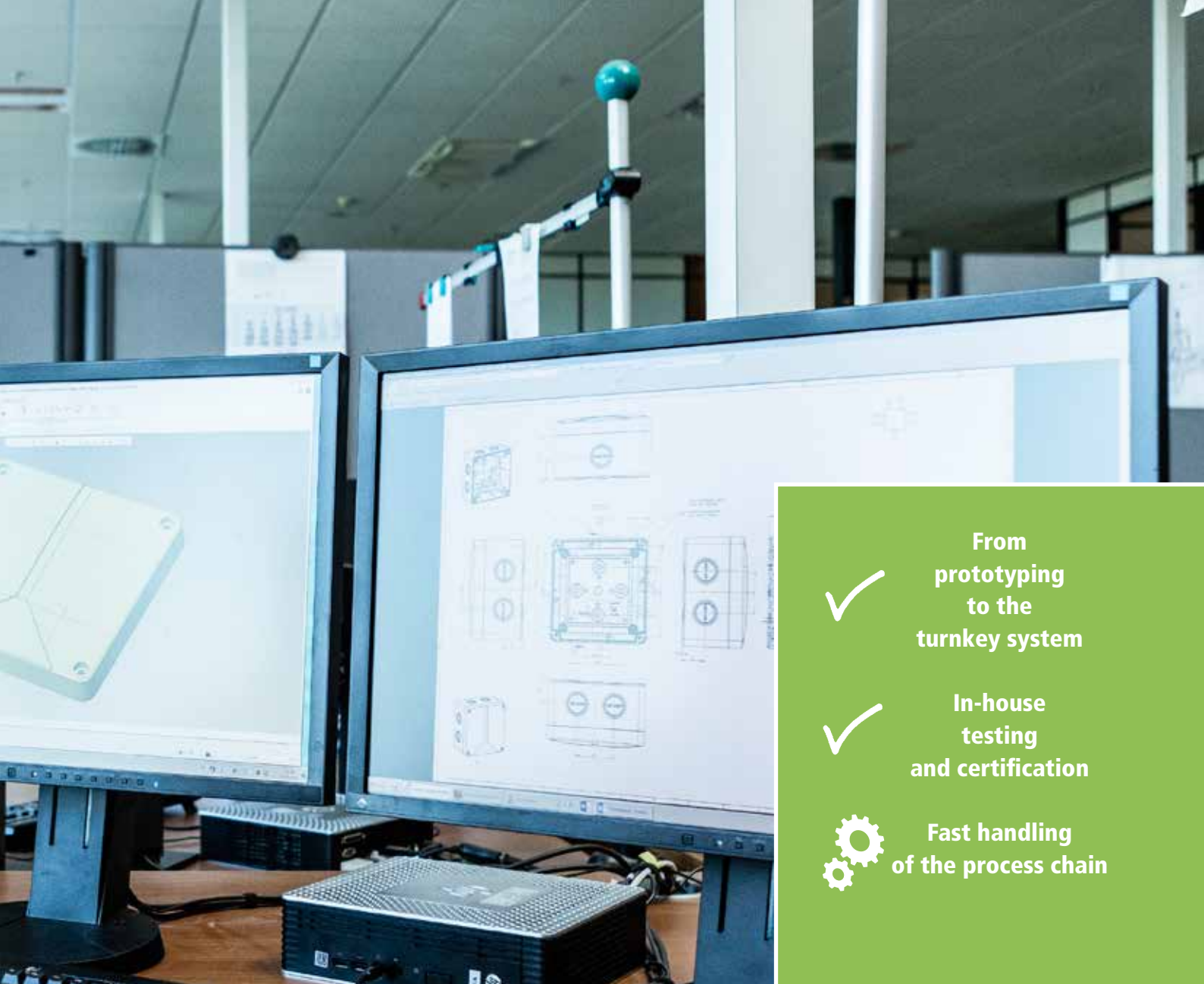


3D prototyping

**Time to market** is an important success factor nowadays. If you have to outsource development orders, do not have your own tool production facilities or have to contract external test laboratories, you often lose valuable time. Spelsberg operates on the philosophy of combining all steps in the **process chain** in-house. This helps when developing our own series products but also really benefits our customers when they require individual solutions.

Spelsberg conducts all of the various stages itself, from **prototyping** and individual customisation, right through to electronic development and assembly of customer-specific **turnkey systems**. Throughout all steps of the process, the enclosure experts have a set of VDE and UL specifications before them. Consequently, there are no unwelcome surprises when the time comes for the finished product to be tested.

As the **tests** that accompany development are performed in-house, test and adjustments can already be made in the design phase so that all attributes conform with the standards. **It couldn't be faster or safer!**



✓ From  
prototyping  
to the  
turnkey system

✓ In-house  
testing  
and certification

⚙️ Fast handling  
of the process chain



Testing the prototype



Installing assemblies



Electrotechnical testing

## DEVELOPMENT | CONSTRUCTION | PROTOTYPING

### TESTS THAT ACCOMPANY DEVELOPMENT



Machinery  
with 90  
casting machines



Around 700 active  
tools each with  
an individual  
weight of up to 8.9 t



Two-component  
injection mould  
  
Foamed thermoplastic  
moulding



## OUTSTANDING QUALITY THANKS TO GREAT EMPLOYEES

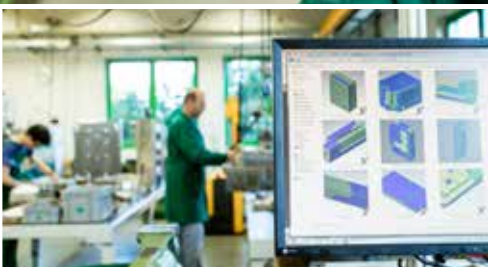
If you want to supply **outstanding quality**, you can't skimp on the ingredients. Spelsberg therefore leaves nothing to chance. We use qualified employees in all steps of the process chain. Whether it's **tool design** or **tool production**, we still develop and implement everything ourselves.



Tool design



Mould flow simulation (flow pattern simulation)



Data consistency



Tool adjustment



Die sinking

This saves time and guarantees the usual high quality. At the production locations in **Schalksmühle** and **Buttstädt**, we only use the most modern, capable machining centres and machines. New processed such as the **two-component injection mould** are also used here in addition to **foamed thermoplastic moulding**.



Tool maintenance



Five-axis milling machine



Paint shop



Seal foam



Granulate / raw materials



Granulate drying and dosing



Tool warehouse

## **RAW MATERIALS | PRODUCTION | SEMI-FINISHED PARTS WAREHOUSE** **FLEXIBILITY WITHIN AUTOMATION**



Use of around  
2,500 tonnes  
of material per year

More than  
100 million finished  
items per year



Plastic pressing plant



Paint shop



Semi-finished parts warehouse

**Automation** ensures competitive prices wherever it makes sense. Furthermore, a large team of qualified employees provides maximum **flexibility** and the required **expertise**, to master even complicated

tasks quickly and competently. Therefore, Spelsberg does not just manufacture large series; **individual solutions** with small quantities can also be provided.

One-piece flow conveyor belts enable several assembly tasks to be completed one after the other.



TK standard assembly conveyor



Special assembly



Accessory machine

## OUR ASSEMBLY SPECIAL AND LARGE ORDERS

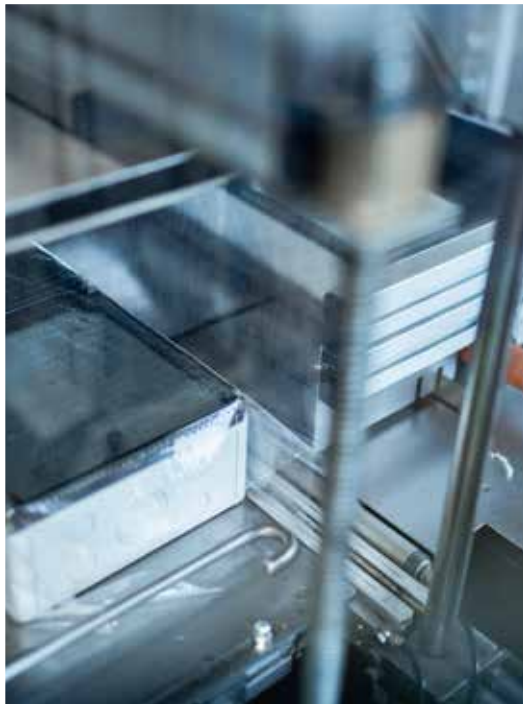
**Flexible** assembly and manufacturing automation with more than 1,000 production orders and almost **50,000 material movements** per week enables large quantities and also one-piece lot sizes to be produced. One-piece flow assembly conveyors enable up to 6 different assembly tasks to be completed one after the other without an intermediate buffer.



Low-maintenance  
solutions

High voltage  
test up to 5,000 V

Fast reaction  
to special requirements



Installing electrotechnical assemblies



Printing, e.g. hot film embossing



Enclosure production

Spelsberg supplies many **components** optionally **pre-assembled, partially wired** or already **complete**. Depending on the requirements in question, they are then fitted with electronic modules, optical components, control elements or communication modules.

This enables us to offer a wide **range** of enclosures and enclosure systems for different industrial sectors. The Spelsberg products are used in the **measurement, control, regulation** and **telecommunications technology** sectors among others.

Furthermore, we supply renowned customers in the mechanical and plant engineering, light and electrical engineering, sanitary and infrastructure sectors.



**UL impact testing**



**IK level impact testing**



**Air conditioning cabinets**

Spelsberg operates an **in-house test laboratory** at its headquarters in Schalksmühle for certification purposes. The laboratory and devices are not just **VDE-** certified, they are also **UL-certified**, thus enabling all of the necessary inspections for the international use of series products and special solutions to be conducted in-house.

This possibility is especially important when developing **tailor-made solutions** together with our partners. The aim here is to help our customers get their products to market readiness as rapidly as possible.

The test laboratory is equipped to **state-of-the-art** standards and is subject to ongoing further development. UL and VDE conduct an annual audit as part of the Client Test Data Program to assure that work continues to be carried out at a consistently high standard.



**In-house  
test laboratory**

**The most modern  
technology**

**VDE + UL audited**



**Dust protection**



**Water jet water protection**



**Cover tensile testing**

# **TEST AND CERTIFICATION CENTRE** **ON SITE**

# BEGA



# ERCO

# ELREHA

BERNDT|CONTEC  
Messen - Regeln - Überwachen



*Cena*  
Innovation in Kunststoff

**EATON**  
*Powering Business Worldwide*

# GIRA

**ELDAT**



**CONTA CLIP**

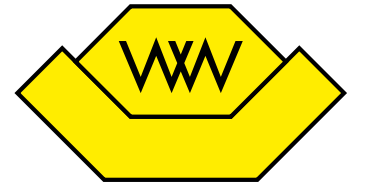
**ELEKTRA**  
SCHALTGERÄTE TAILFINGEN

## REFERENCES | OBJECTS (EXCERPT)

RWE Tower Dortmund  
Central station (Hauptbahnhof) Berlin  
Airport Düsseldorf  
Airport Frankfurt  
Allianz Arena Munich  
Signal Iduna Park Dortmund  
Limbecker Platz Essen  
Bonifatienmuseum Maastricht



**HOFFMEISTER**



**Gubristunnel** Switzerland  
**Hotel Radisson** Cologne  
**Fraunhofer Institut** Aachen  
**Schiphol airport** Amsterdam  
**Henninger tower** Frankfurt  
**Gotthard Tunnel** Switzerland  
**Tunnel Blonden** Belgium  
**Tunnel Liefkeshoek** Belgium

**Globe Arena Hotel** Stockholm  
**Ford plant** Cologne  
**Hospitaal AZ Zeno** Knokke-Heist  
**Kiev Metro** Ukraine  
**Dechenhöhle** Iserlohn  
**Vodafone** Düsseldorf  
**Film and television university**  
 Potsdam-Babelsberg

**Humboldt-Forum Berliner Schloss** Berlin  
**Lidl supermarkets** Fellbach  
**Hotel Ibis Bialystok** Poland  
**Turow power plant** Poland  
**Gallerian shopping centre** Stockholm



## AREAS OF APPLICATION

### SPECIAL SOLUTIONS

**Individual solutions** in the enclosures sector are more in demand than ever before. Increasingly, "off the shelf" products do not meet customers' special **requirement profiles**. Spelsberg has the knowledge and the engineering to develop and produce tailor made enclosures. **Get in touch with us we would be delighted to assist you further.**



RWE Tower



Limbecker Platz



Henninger tower



Bonnefantenmuseum



Frankfurt airport

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[www.youtube.com/spelsberg](http://www.youtube.com/spelsberg)

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