



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

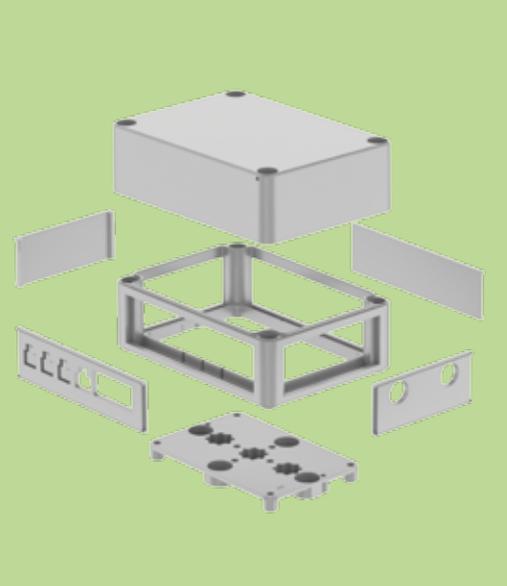




CNC-controlled milling centres



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



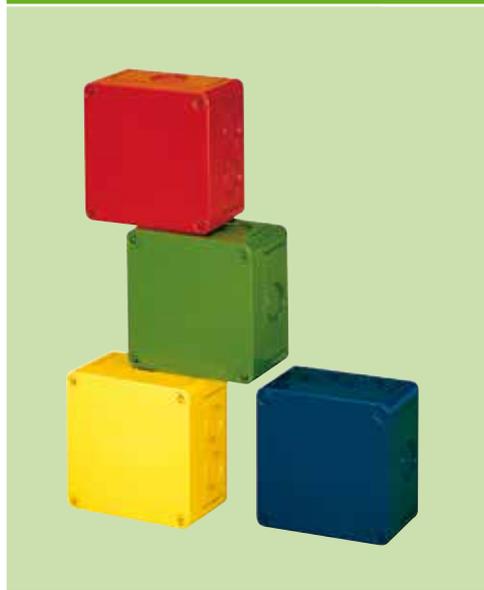
Hot embossing



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

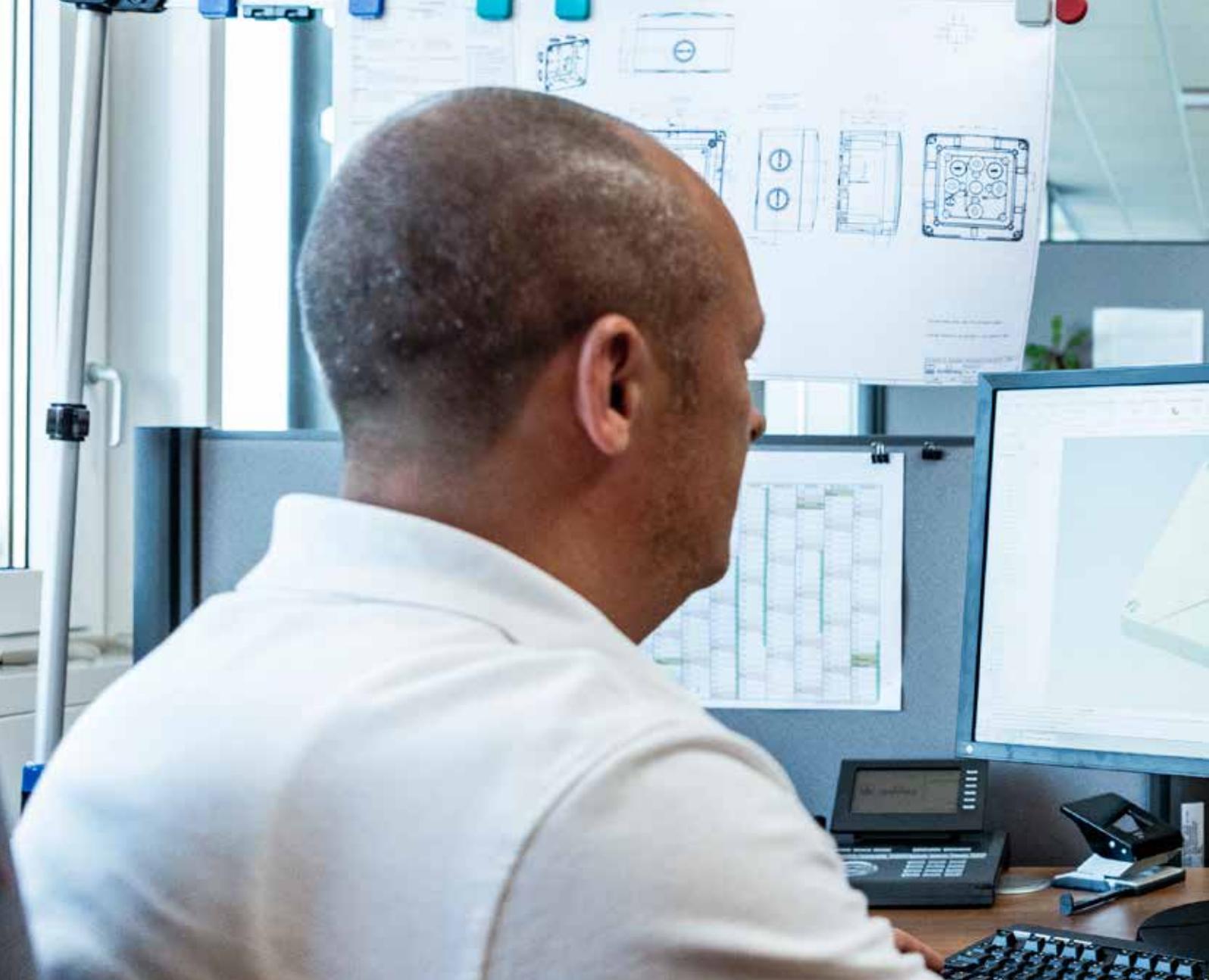
Standard quality

- 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

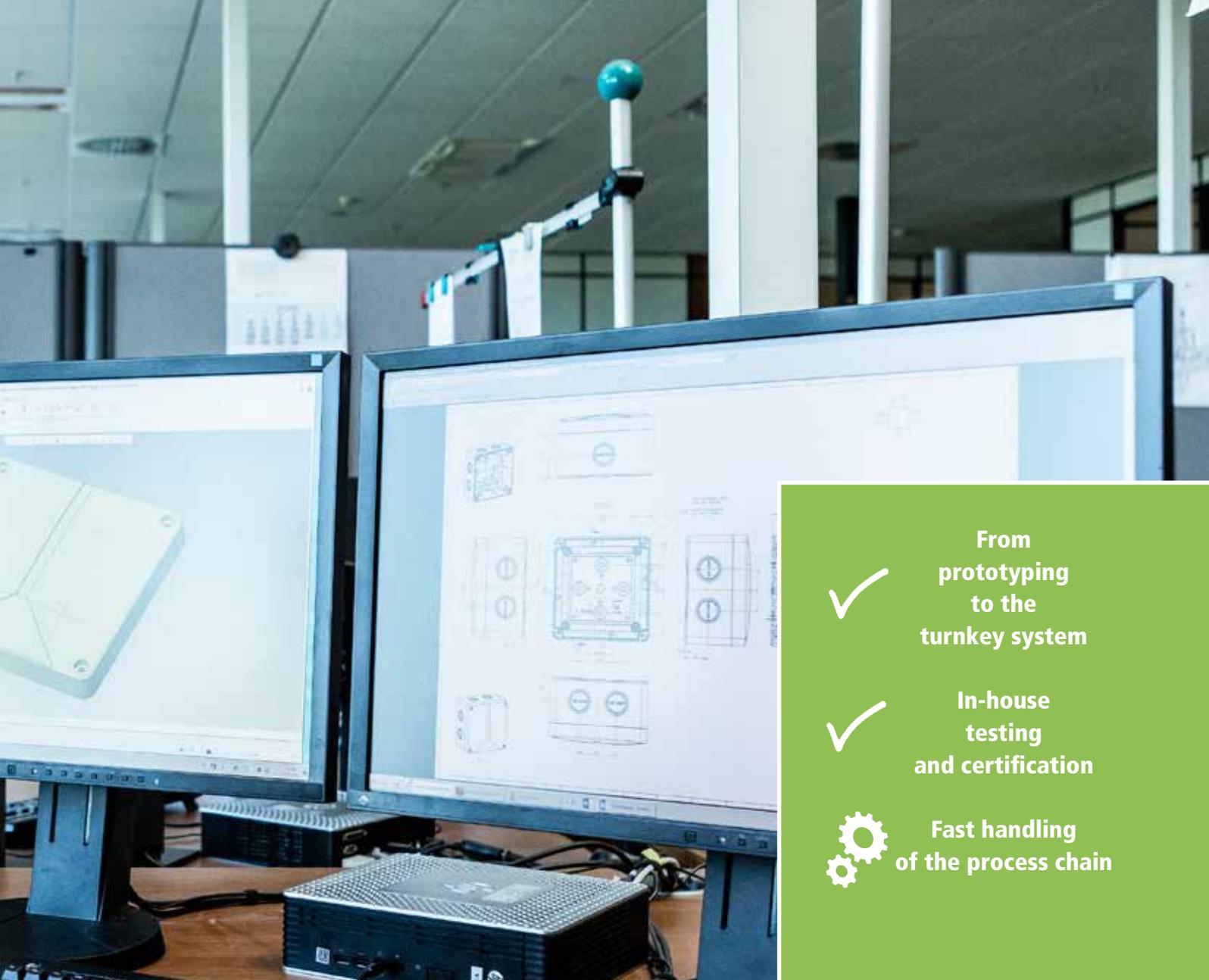


3D prototyping

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

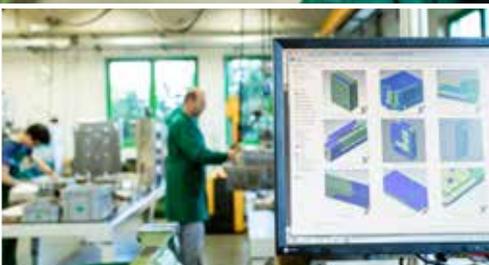
If you want to supply **outstanding quality**, you can't skimp on the ingredients. Spelsberg therefore leaves nothing to chance. We use qualified employees in all steps of the process chain. Whether it's **tool design** or **tool production**, we still develop and implement everything ourselves.



Tool design



Mould flow simulation (flow pattern simulation)



Data consistency



Tool adjustment



Die sinking



Tool maintenance



Five-axis milling machine

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**.



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
Bonnenfantenumuseum 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



Bonnefontenmuseum



Frankfurt airport

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