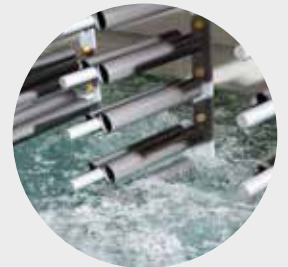




COMPANY

Comprehensive services in surface engineering



IFO

Institut für
Oberflächentechnik
GmbH

QUBUS

Planung und Beratung
Oberflächentechnik
GmbH

**TWO COMPANIES.
ONE GOAL. WORLDWIDE.**

A unique network
of services for surface
engineering.

FACTS

Architecture
Automotive industry
Bridge Construction
Aerospace Industry
Machine building
Metal industry
Offshore
Petrochemical industry
Pipeline
Ship Building Industry
Steel construction
Insurances
Yachting

Improve your Quality

COMPREHENSIVE. CONNECTED. FROM ONE SOURCE.

IFO and QUBUS: two companies – one goal.
As a joint network, we have established ourselves as a leading global service provider for surface engineering and metalworking.

Our corporate philosophy is to provide practical, solution-oriented economic advice. Because we view our customers as partners, and work jointly with them to develop solutions.

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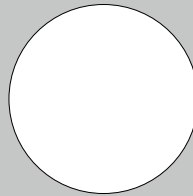
WORLDWIDE MORE THAN

2000 CUSTOMERS

from more than 50 countries on four continents trust in our expertise.

EXTENSIVE EXPERTISE IN SURFACE TREATMENT

The engineering services and the Institute form a unique network for almost all of your requests and problems.



SINCE **1995**

we have been a national and international partner for clients in the trades, small and medium sized businesses and groups.

EXPERTISE FROM A **SINGLE** SOURCE

Plant and factory design, occupational safety, environmental protection, environmental assessment procedures, QM and UM management systems, technical appraisals, laboratory services, damage assessments, industrial research, NACE and FROSIO inspection, quality testing, certification.

OVER **90** EMPLOYEES

Chemists, Surface Engineers,
Electroplaters, Materials Engineers,
Paint Engineers, Environmental Engineers,
Safety Engineers, Lawyers and
Business Management Experts.

FACTS

∞ COMPREHENSIVE

SERVICE

The customer is our focus. Trust and
partnership are our guiding principles.
Efficiency and quick decisions are
our strength.

60 μm

Laboratory tested surface ...



Even for the biggest the smallest detail matters.

The external façade of Dubai's Burj Khalifa, the world's tallest building, is coated in accordance with QUALICOAT specifications. The powder coatings used have been tested by the IFO, which has also inspected the coating facilities.



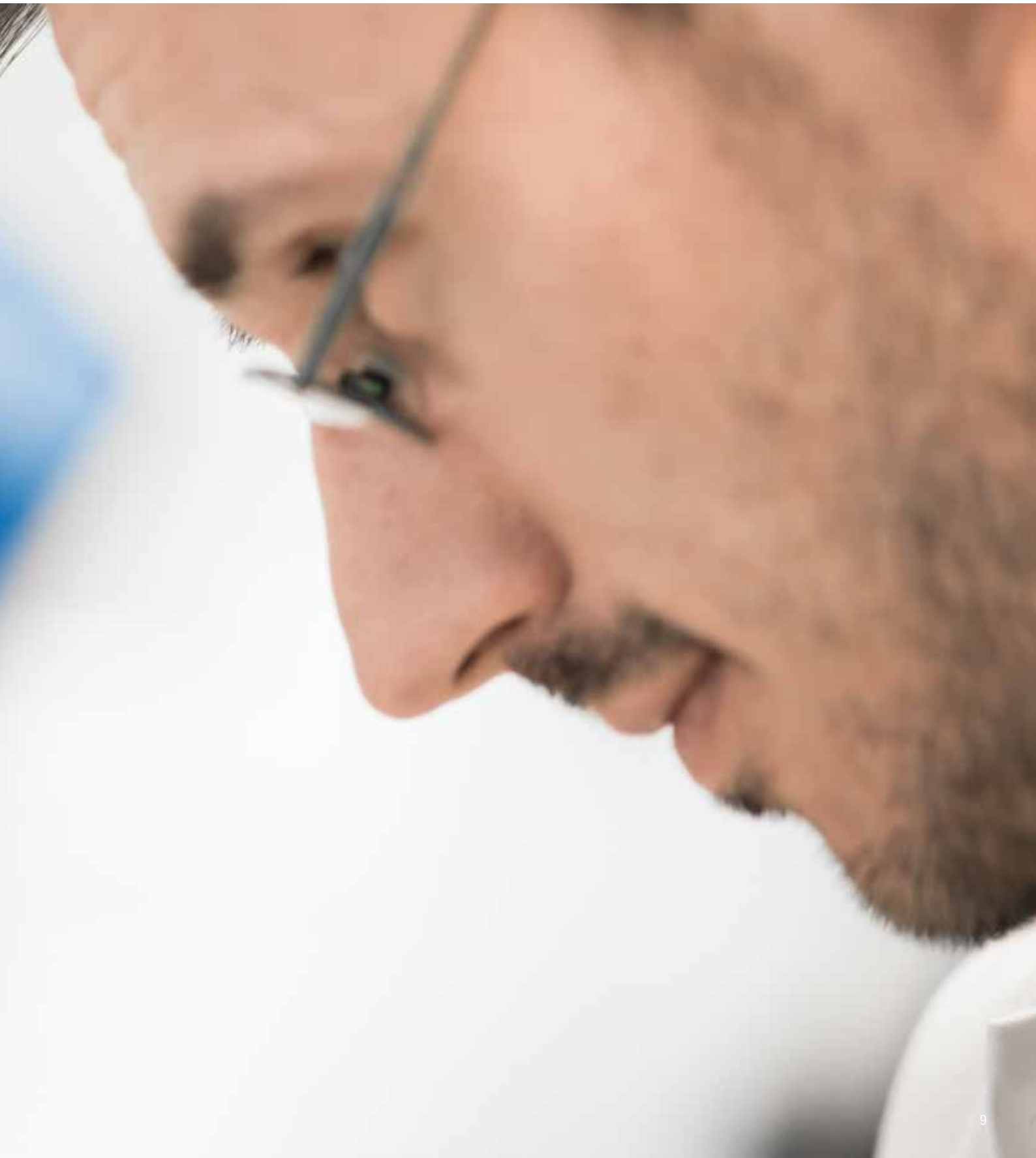
... for long-term use at

130.000m²



Neutral and independent.

Examinations and expert reports for all organic and metallic coating systems by the accredited IFO Institute.





Take advantage of our cumulative knowledge

In our laboratories in Germany, the Netherlands and China, all industries can access qualified staff, modern facilities, and equipment for surface engineering issues and testing.

Our in-depth understanding of production facilities and process engineering is an important pillar of our work.

This background knowledge fuels our practical expertise and customer interactions.

Accredited testing methods guarantee objective results.



LABORATORY SERVICES

At our institute, all coatings and coating systems can be tested: Technological, chemical and physical investigations are as much a part of our service portfolio as our variety of corrosion tests.

Our work focuses on component testing during production and the assessment of damage claims and causes of defects. Our customers appreciate our flexible processing and quick response times, and our highly-qualified laboratory team.



CLAIMS ADVICE

Claims for components can result in high costs and liability issues.

Our institute prepares reports for private persons and courts by certified and approved experts in the fields of surface engineering and electrochemistry.

Here, flexible and quick response times are our strength.



QUALITY TESTING

Numerous quality standard associations, with over 800 companies worldwide, trust in our expertise as an international neutral testing institute. Our engineers work in accordance with recognised testing and quality regulations, and make records on-site of procedures and the quality of components produced. This neutral monitoring enables businesses to maintain consistently high standards, which are confirmed by quality certification.



COATING INSPECTION

The quality of coating is a key factor in the durability of steel and aluminium structures. Our NACE and FROSIO inspectors monitor coating work and inspect buildings worldwide. Our services range from one-off surveys to regular on-site inspections – for bridges, oil rigs, offshore installations and pipelines.



BUILDING INSPECTION AUTHORITY

The IFO Institute is a DIBt recognised inspection centre. Therefore, we can confer the recognised Ü mark and issue General Building Inspection Certificates concerning the application of corrosion-resistant construction products.



COATING RESEARCH

In our laboratory, we conduct research in the field of surface engineering and applied coating systems. State of the art technology, our own electroplating equipment and a technical laboratory for organic coatings facilitate production-related research and the development of new products and processes. Together with our customers we develop approaches, evaluate potential solutions and offer support to small and mid-sized businesses with regard to funding by project sponsors.



CERTIFICATIONS FOR METAL CONSTRUCTION COMPANIES

We are an ISO 17025 accredited testing laboratory and an ISO 17065 accredited and notified certification body in accordance with the EU Construction Products Regulation. Amongst other things, we check the factory production control systems of metal construction companies, and issue EN 1090 certification. With regard to the corrosion protection of aluminium and steel structures, we survey surface finishers and provide the necessary certificates.





Employees of the IFO speak the language of production. Through this practice-oriented working method, we consistently devise quick, competent and scientifically sound solutions to our problems.

Matthias Bader, Managing Director, Bader Pulverbeschichtung GmbH and Chairman of the Technical Committee QIB

Advice from **1** one source



Advice on all matters concerning the production is the responsibility of QUBUS. Our experts make your day-to-day work easier. Because as experienced practitioners we understand the requirements and procedures of production and we speak your language.



... for  many procedures
and tasks





A large industrial facility, possibly a water treatment plant, featuring several tall, black cylindrical storage tanks on the left. The tanks have yellow triangular warning symbols and labels. In the background, two men in light-colored shirts and dark trousers are walking away from the camera on a concrete walkway. The ceiling is high with exposed pipes and lighting fixtures. The overall scene is brightly lit and organized.

Factory and plant design,
environmental law, occupational
safety, management systems,
expert opinions and seminars.

Worldwide, collaborative,
solution-oriented and creative.

Our references will convince you.



Streamlined and perfect solutions. For every industry. For all company sizes.

Craft enterprises, mid-sized companies or international corporations – they all have faith in our knowledge and experience. Together, we develop individually tailored solutions for your projects.

We advise companies in a long-term capacity in the areas of environment, safety and management systems, offering them streamlined and pragmatic solutions.

Our participation in numerous national and international bodies ensures that we are always up to date with the latest technological advancements.



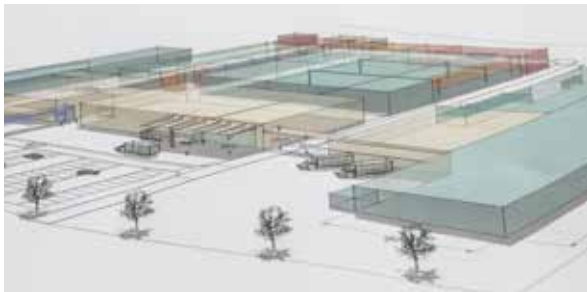
MANAGEMENT SYSTEMS

Quality, environmental and energy management systems are an inherent part of customer and market requirements. Our experts will advise and assist you with the implementation and auditing of systems, as well as their maintenance and updating in everyday operations.



EXPERT OPINIONS

We provide neutral technical and economic expertise regarding investment decisions, insurance, banking, buying or selling a business.



PLANT AND FACTORY PLANNING

From chemical storage facilities to the complex factory – our plant designers create customised solutions for surface and ancillary facilities. Our services range from layout planning to complete support with construction supervision and approval.



ENVIRONMENTAL PROTECTION AND OCCUPATIONAL SAFETY

Our experts make your day-to-day work easier. Experienced in dealing with the authorities, we advise our clients on all aspects of environmental law and occupational safety, and we are available to help them with official approval processes. Our pragmatic and solution-oriented approach results in practical action guidelines and suggestions for operational implementation.



At home in many industries – including yours!

Over 1400 clients in more than 40 countries on four continents trust in our expertise. We would be happy to send you a reference list of our clients.

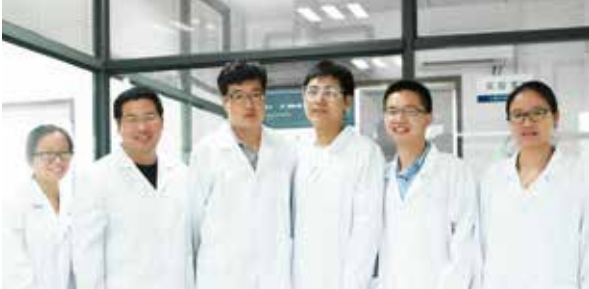
by email:
referenzen@ifo-gmbh.de
referenzen@qubus.de

or scan the QR code
and see our references





Our employees – our greatest asset



We know that dedicated and reliable employees are the cornerstone of great service. In our modern offices you will find more than 90 highly qualified experts. They are the guarantors of long-term success for our owner-operated company.





IFO and QUBUS

Networked action – operate globally



Management: Christian Deyhle, Michael Müller, Hans Pfeifer, Ulrich Mäule

From our offices in Germany, the Netherlands, China and Dubai, our experts travel the world and so they are always close by.

We look forward to your inquiries.



IFO and QUBUS.
Solution-oriented. Practical. Flexible.
Your partner for surface engineering.





IFO

Institut für
Oberflächentechnik
GmbH

Neutral accredited institute
for the testing and inspection
of coatings and coating systems

Laboratory services

- Wet chemical analysis and methods
- Electrochemical measurements
- Photometric determinations
- UV/VIS and fluorescence spectroscopy
- Atom absorption spectroscopy (AAS) and optical emission spectroscopy (ICP-OES)
- FT-IR Spectroscopy
- Chromatographic procedures
- DSC analysis
- Gravimetry
- Residual dirt analysis
- Scanning electron microscopy (SEM) in combination with energy dispersive microanalysis (EDX)
- Hardness testing
- Layer thickness measurement
- Gloss level
- Colorimetry
- Cross-cut adhesion testing
- Surface roughness measurement
- Erosion testing
- Dye spot testing
- Friction testing
- Metallography
- Stereo microscope examination
- Quantitative and qualitative microstructure analysis
- Tensile strength testing
- Lightfastness testing
- Accelerated weathering and xenon testing
- Environmental testing DIN EN 60068
- Resistance testing (standards as indicated)
- Corrosion testing (standards as indicated)
- Climate change testing as per VDA 621-415 and VDA 233-102 (new)
- RoHS Certificate of Compliance
- Testing facility for coatings and pre-treatments
- Powder application
- Liquid paint application

Claims and experts

- Expert opinions on components with organic and inorganic coatings

Quality Supervision

- QUALANOD – International Quality Label for Anodised Aluminium used in architectural applications
- QUALISTEELCOAT – International Quality Label for Coated Steel
- Quality Association for industrial coating (QIB)
- Quality Association for building cleaning (GGGR)
- Quality Association for façade cleaning (GRM)
- Quality Association for metal façade renovation (JRC)
- Quality Association for coating of individual components (GSB International)
- QUALICOAT – International Quality Control Association for the coating of aluminium building components
- QUALISTRIP – European Quality Control Association for the industrial paint stripping of components made from metal and plastic
- QUALIDECO – Quality Label for decoration of coated Aluminium used in architectural applications

Coating inspections by FROSIO and NACE inspectors

- Corrosion protection for new projects
- Maintenance of aluminium and steel structures
- Implementation monitoring

Industry research

- User-oriented industrial research
- Process and procedure optimisation
- Research & Development for new processes
- Assistance with applications for SME funding programmes

Certifications

- QM and UM certification for management systems (Quality and Environmental management)
- Certification for metal workshops in accordance with EN 1090
- Factory production control in accordance with EN 1090 Corrosion protection certificates in accordance with EN 1090 for galvanizing, coating and anodising facilities
- Certification in accordance with DAST 022 for galvanizing facilities



Planung und Beratung
Oberflächentechnik
GmbH

Management Systems

- Implementation of management systems (QM, UM and Energy)
- Maintenance and supervision of management systems
- Data protection officer

Expert opinions

- Technical and economic evaluations of systems and equipment
- Buying or selling a business
- Banking and insurance

Plant and factory design

- Concept and layout planning
- General planning
- Project management and budget monitoring
- Construction supervision and final approval
- Electroplating plants
- Paint and powder coating systems
- Waste water and exhaust ventilation systems
- Chemical storage plants and tank farms

Environmental law

- External environmental officer
- BImSchG approval procedures and water legislation
- AZB Initial condition report
- Accidents officer, incident reporting and concepts
- Government contacts
- Plant-related water protection
- Storage of hazardous substances

Occupational safety

- Support of external specialists in occupational safety
- Risk assessment
- Operating instructions and training
- CE Declaration of Conformity
- Fire Prevention Officer
- Shelf testing
- Load securement

Seminars

- Occupational safety, environment and surface engineering
- Company and in-house seminars
- Personnel management



IFO



QUBUS

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