



TWO COMPANIES. ONE GOAL. WORLDWIDE.

Inspection. Testing. Consulting. Surface Technology from a Single Source



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
Security /
Defence 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.

Consulting
Planning
Laboratory Services
Certification
Inspection

CONTENTS

Facts	2
Philosophy	3
IFO Expertise	4–13
QUBUS Expertise	14–21
Industries	22–23
Services	24–25
Business Units	26–27
Employees	28–29
About us	30
Worldwide	31



EXTENSIVE
EXPERTISE
IN SURFACE TREATMENT

Engineering service provider and institute
form a unique network for almost all of your
requests and problems.

WORLDWIDE MORE THAN

4000 CUSTOMERS

from more than 75 countries on four continents
trust in our expertise.

OVER **100** EMPLOYEES

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

FACTS

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

Laboratory services, damage reports, industrial
research, NACE and FROSIO inspection, quality
inspection, certification, plant and factory design,
environmental and occupational safety, fire protection,
management systems, seminars and training.

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 IFO, which has also inspected the coating facilities.

... for long-term use at

130.000 m²



Neutral and independent.

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



Take advantage of our cumulative knowledge

In our laboratories in Germany, the Netherlands, Poland 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.



CERTIFICATION AUTHORITY

We are an ISO/IEC 17065 accredited and notified certification body in accordance with the EU Construction Products Regulation. Among other things, we monitor the factory production control of metal construction companies and carry out certifications in accordance with EN 1090. In the field of corrosion protection for aluminum and steel structures, we monitor surface finishers and issue the necessary certificates. We certify companies in the field of liquid paint in accordance with ISO 12944, powder coating in accordance with DIN 55633 / 55634 and galvanizing in accordance with ISO 1461 through our voluntary certification programs.



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 chemical pretreatment plant 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.



BUILDING INSPECTION AUTHORITY

IFO is recognized by the DIBt as a PÜZ body. This means we can assess companies in the context of testing corrosion-protected building products and, within the scope of the certificate of conformity, allow them to be labeled with the Ü mark. We monitor galvanizing companies in accordance with DAST guideline 022 and certify them in accordance with ISO 1461.



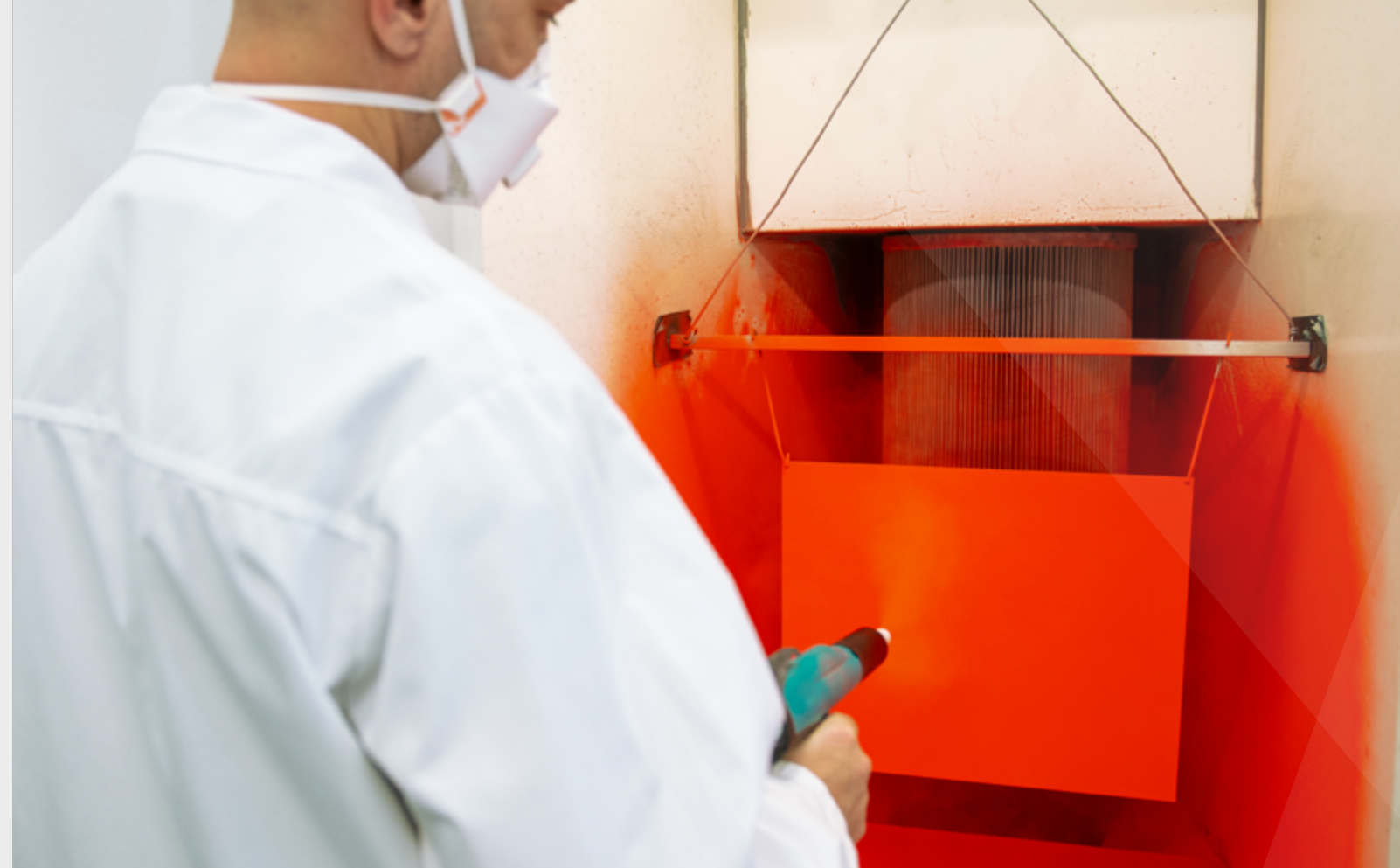
IFO ACADEMY

The IFO Academy imparts practical, scientifically sound expert knowledge in the fields of surface technology, testing methods, fire protection, and environmental and occupational safety. We constantly adapt our course offerings to current developments in order to provide optimal training for skilled workers.

We offer our international program both in-house and online to meet individual needs precisely.



IFO Institut für
Oberflächentechnik
GmbH
By the German Accreditation Body
according to DIN EN ISO/IEC 17065
accredited Certification Authority.



„The monitoring of coating and anodizing operations by IFO ensures the high standard of our requirements. For us, this is a guarantee of tested and traceable coating quality.“

Andreas Arning, Head of Quality Assurance Schüco International KG

„In addition to the audit services, we are particularly impressed by the expert advice. The collaboration with IFO is characterized by a high level of professional competence and a clear understanding of the requirements of the end customers. The experts at IFO deliver solutions, not just results.

Andree Franke, Managing Director IBF Ingenieurbüro Franke GmbH & Co. KG

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 **infinite** many procedures
and tasks



Plant and Factory Planning,
Environmental Law, Occupational
Safety, Fire Protection, Manage-
ment Systems, Expert Reports
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.

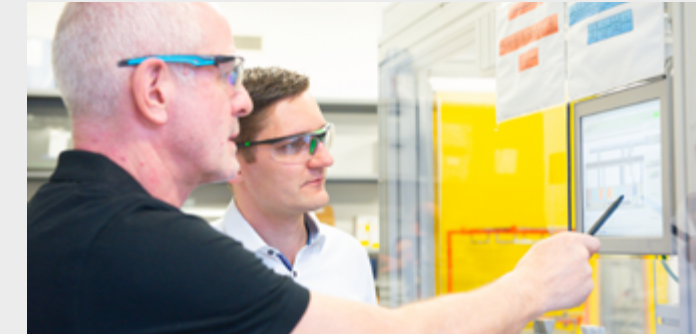
We advise companies in a long-term capacity in the areas of environment, safety and management systems, offering them streamlined and pragmatic solutions.

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



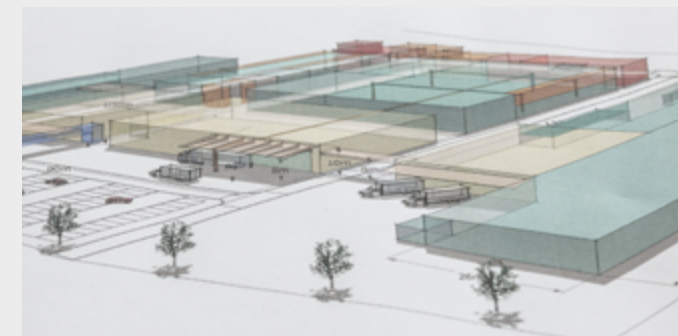
MANAGEMENT SYSTEMS

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

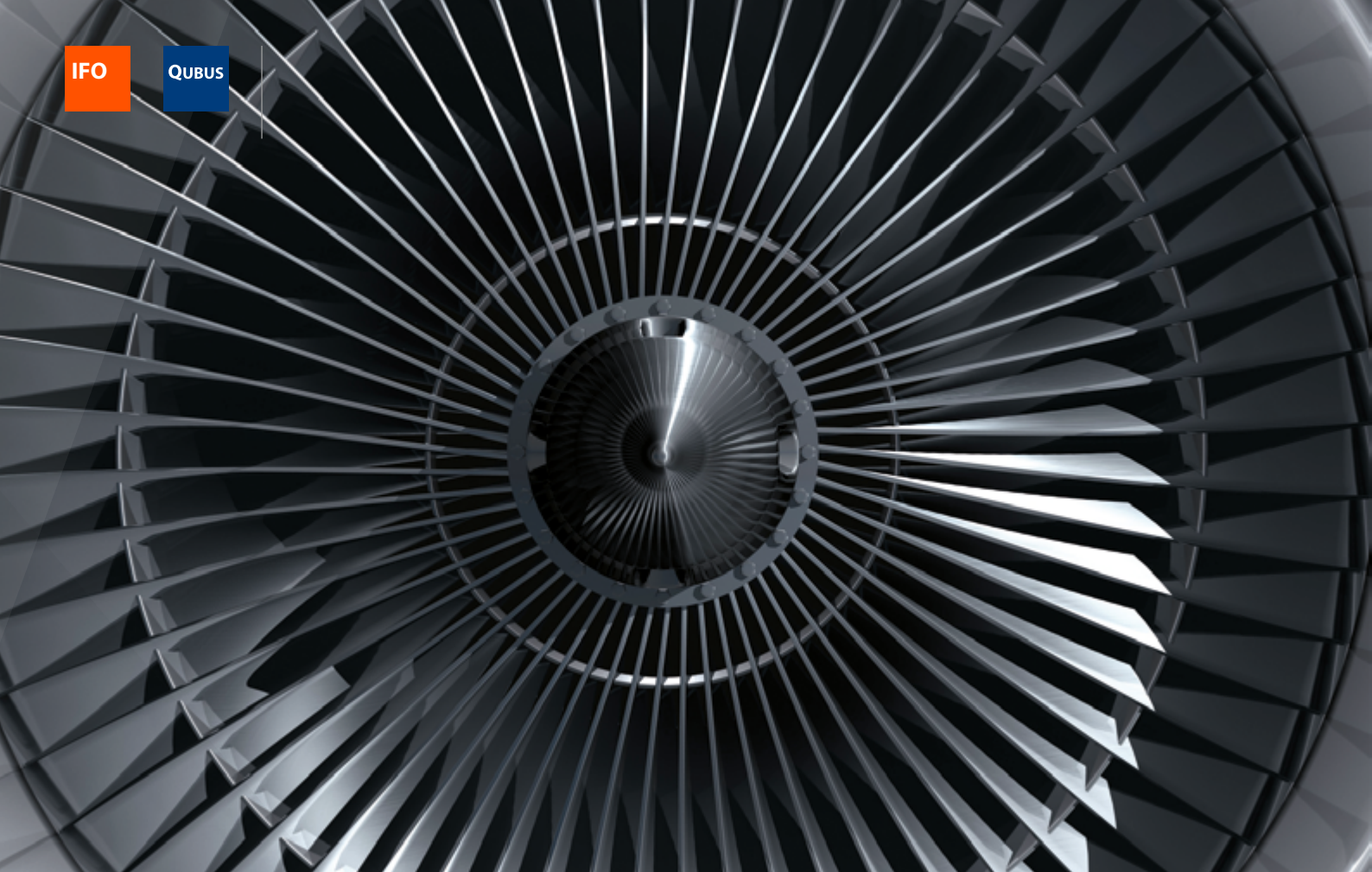
From chemical storage facilities to the complex factory – our plant designers create customized solutions for surface and ancillary facilities. Our services range from layout planning to complete support with construction supervision and approval.

We plan all types of systems: electroplating plants, anodizing plants, pickling and passivation plants, painting plants, powder coating systems, fresh water and wastewater technology and supply and exhaust air systems.



ENVIRONMENTAL LAW, FIRE PROTECTION AND OCCUPATIONAL SAFETY

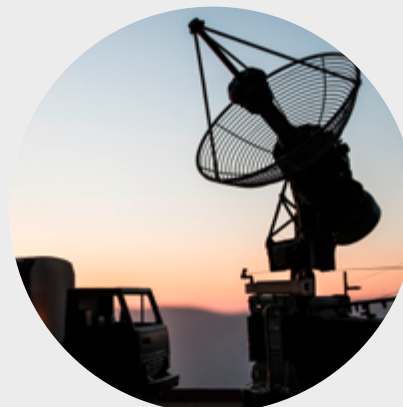
Our experts make your day-to-day work easier. Experienced in dealing with the authorities, we advise our clients on all aspects of environmental law, fire protection, and occupational safety, and we are available to help them with official approval processes. Our pragmatic and solution-oriented approach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



At home in many industries – including yours!

Over 4000 clients in more than 75 countries on four continents trust in our expertise. We would be happy to send you a list of references from our customers.

Scan the QR code and see our references



Our services related to Production

Sales, Marketing, Administration

- > Accredited third-party product certification in accordance with customer requirements (MIL, NATO, Mercedes, Volkswagen, AAMA, QUALICOAT, Caterpillar, etc.)

Goods Delivery / Warehouse

- > Material testing
- > Supplier qualifications
- > Logistical concepts

Laboratory / QA

- > Durability testing (corrosion, chemical resistance, climate change)
- > Chemical, physical, and mechanical testing
- > Damage analysis and expert reports
- > Metallography

Cooling Towers / Cooling Systems

- > Operator obligations 42.BImSchV

Paint Shop / Coating System

- > Evaluation of coating quality
- > Adhesion testing
- > Corrosion and climate testing
- > Process optimization
- > Planning and retrofitting of painting plants
- > Approval procedures under the Federal Immission Control BImSchG
- > Fire extinguishing agent balance according to 31. BImSchV
- > Explosion protection

Chemical Storage

- > Planning hazardous goods and chemical storage
- > Planning AwSV – tank farm/delivery areas
- > Planning tank storage

Fresh Water and Wastewater System

- > Planning fresh water and wastewater system
- > Water law approval procedures

Electroplating Plant

- > Process optimization
- > Planning and retrofitting of electroplating plants
- > Approval procedures under the Federal Immission Control BImSchG
- > CE declaration of conformity

Exhaust Air Treatment System

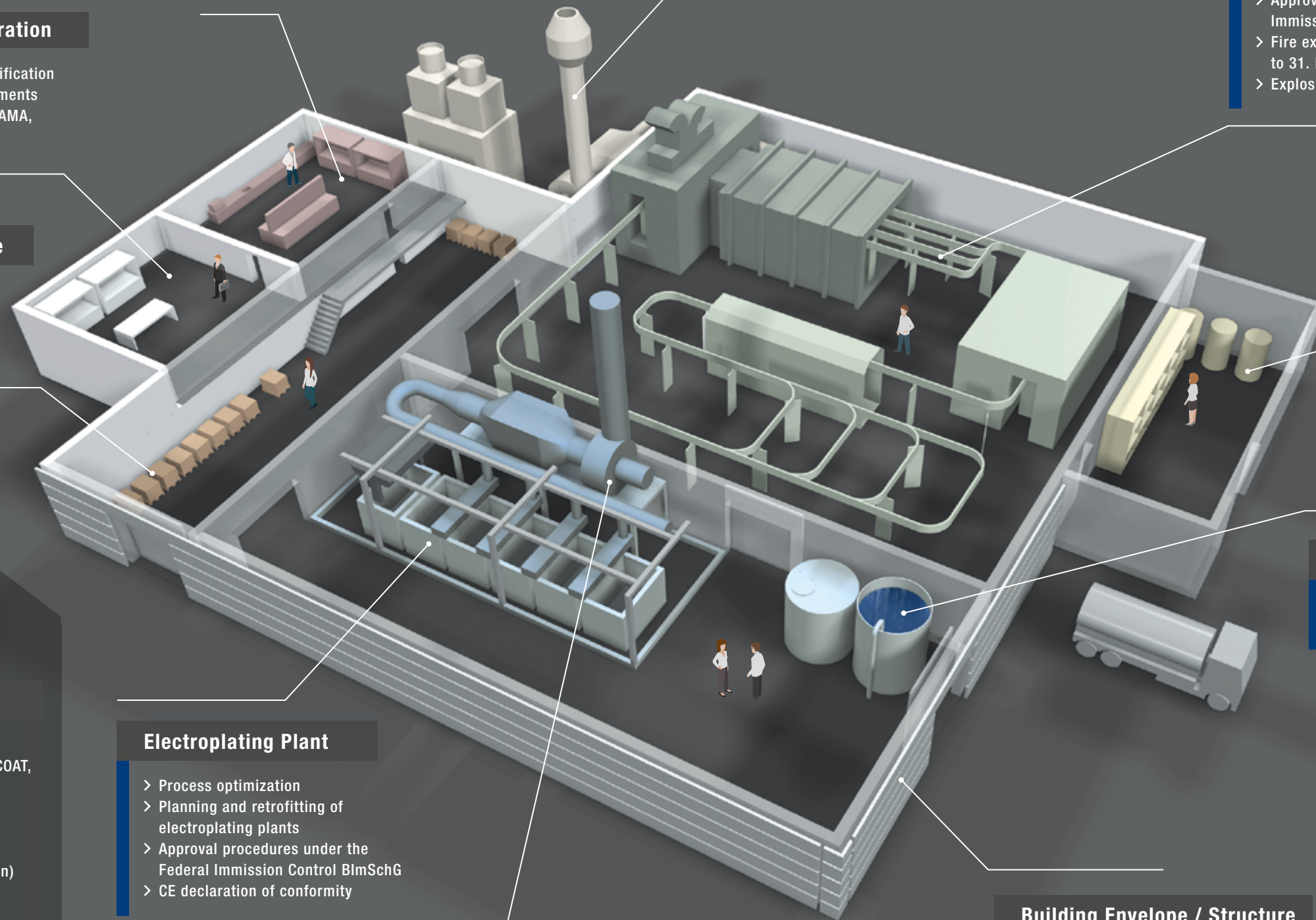
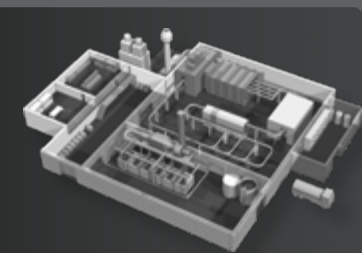
- > Operator obligation 42. BImSchV

Building Envelope / Structure

- > Coating inspection
- > Maintenance of steel and aluminum structures
- > Construction supervision
- > Corrosion protection for new buildings

Entire Production

- > Certification of coating companies
- > Quality checks (QUALANOD, QUALISTEELCOAT, QUALICOAT, GSK, GSB, QIB)
- > Environmental and occupational safety (External officer for occupational safety, environment, AwSV facility documentation)
- > Management systems (Energy, Quality, Environment)
- > Fire protection (Fire protection concept, fire water retention, training of fire protection assistants)
- > Energy efficiency (energy check, energy optimization, waste heat register, coordination of funding projects)



Our Business Units



Laboratory Services

- Accelerated weathering test with xenon and UV fluorescent lamps
- Adhesive strength test
- Admittance measurement
- Alkali resistance
- Alternating Climate Test (ACT)
- Colour Fastness
- Colour measurement
- Corrosion testing
- Cupping test
- Cyclic Corrosion Test (CCT) VDA 621-415
- Dye spot test
- Falling sand abrasion test
- Gloss measurement
- Impact test
- Indentation test (Buchholz hardness)
- Layer thickness measurement
- Liquid coating application
- Machu test
- Mandrel bending test
- Mortar test
- Materialography
- Mass loss test
- Metallography
- Microstructure analysis
- Pencil hardness
- Powder coating application
- Pull-off testing
- Pressure water-jetting test
- Scanning Electron Microscopy (SEM) / Scratch resistance test
- Stone chip testing
- Raman spectroscopy
- Resistance tests
- Test installation for coating and pretreatments

Claims and Experts

- Corrosion protection and coating consultancy services
- Existing facades: assessing and evaluating the condition of facade surface finishes
- Investigation of damage claims
- Cleaning work or site measurements
- Experts opinions for courts
- Experts opinion on corrosion resistance of materials and material combinations with and without coating

Quality Supervisions

- QUALANOD – Quality check
- QUALISTEELCOAT – Quality check
- QUALICOAT – Quality check
- QUALIDECO – Quality check
- Quality Association for coating of individual components (GSB International)
- Quality Association for Industrial Coating (QIB)

Coating Inspections

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

Coating Research

- Material investigations
- Coating Research
- Expert reports

Certification Authority

- Certification of hot-dip galvanisation companies in acc. with DAST Guideline 022
- Certification for metal construction companies in acc. with DIN EN 1090
- Monitoring of factory production control systems in acc. with DIN EN 1090
- Certification of coating companies using liquid coating in acc. with DIN EN ISO 12944
- Certification of powder coating companies in acc. with DIN 55633
- Certification of powder coating and liquid coating companies in acc. with DIN 55634
- Certification of galvanisation companies in acc. with ISO 1461
- Monitoring of coating companies in acc. with DBS 918340
- Monitoring of national technical approvals (AbZ)



Plant and Factory Design

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

Environmental Law

- External Environmental Officer
- External dangerous goods safety advisor
- BImSchG approval procedures and water legislation
- AZB initial condition report for AwSV
- Safety officer, incident reporting and concepts
- Government contacts
- Plant-related water protection, plant regulations, AwSV
- Storage of hazardous substances
- Experts opinion, plant assessment according to BVT and state of the art
- REACH-/RoHS-consulting, requirements for businesses, CP, EMRT, CMRT etc.
- Environmental check
- Compliance check

Occupational Safety

- DGUV 2: Support of external specialists in occupational safety
- Risk assessment, ArbSchG
- operating instructions and training
- CE: Declaration of Conformity, risk assessments, machine check, inspections
- Testing of shelves, lift trucks, forklift attachments
- Load securement
- Ex-protection: documents and inspections acc. to BetrSchV / ATEX

Fire Protection

- Fire prevention officer
- Preventive fire protection, consulting, implementation
- Fire protection concepts, proof, expert's opinion, inspections
- Preparation of evacuation and rescue plans
- Preparation of fire-fighting plan acc. to DIN 14095
- Training of fire protection assistants acc. to ArbSchG & ASR
- Fire safety check
- Assistance with fire prevention inspection (LBO), VdS/insurance
- firewater retention concepts (AwSV)
- Consulting on technical fire protection systems

Management Systems

- Energy management ISO 50001
- Energy audits acc. to DIN 16247
- Energy efficiency consulting
- Quality management ISO 9001 & IATF 16949
- Environmental management ISO 14001
- Occupational safety management ISO 45001
- Delta audits and support in implementing standard revisions
- Online legal cadastral register

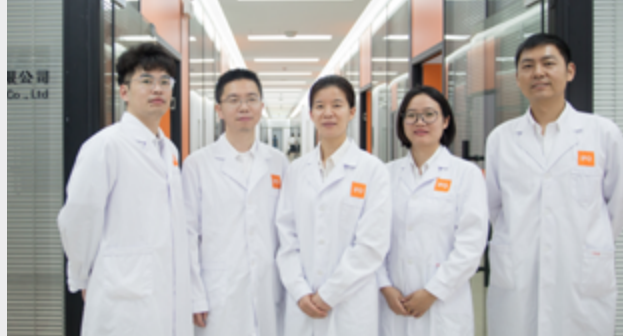
Expert Opinions

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

Seminars

- Occupational safety, fire protection, environment and surface engineering
- Company and in-house seminars
- Personnel management
- Fundamentals of electroplating in collaboration with ZVO e.V.
- In-house training galvanic processes and their testing
- In-house training environmental





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 100 highly qualified experts. They are the guarantors of long-term success for our owner-operated company.



Your success. Our drive – for any question related to surface technology



Management: Christian Deyhle, Ulrich Mäule, Michael Müller, Marc Holz

For over 30 years, we have been supporting surface engineering companies worldwide – with technical expertise, practical advice and tailor-made support that works directly in the everyday business of our business partners.

„We take a holistic approach to surface technology: with experience, innovative strength and vision, we develop solutions that strengthen our customers today and in the future.“

Michael Müller, Managing director

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

IFO and QUBUS

Networked action – operate globally

At our locations in Germany, Poland, the Netherlands, China, and the United Arab Emirates, qualified staff, modern facilities, and equipment are available to address all surface technology challenges.

We operate in a neutral and independent manner. IFO holds national and international accreditations, ensuring you receive objective results worldwide. You can find our accreditations for laboratory and certification body here:



POLAND
NETHERLANDS
GERMANY
CHINA
UNITED
ARAB
EMIRATES

We look forward
to your inquiry and will
be happy to advise you.



**IFO****QUBUS****DEUTSCHLAND**

IFO
Institut für
Oberflächentechnik GmbH
Alexander-von-Humboldt-Str. 19
73529 Schwaebisch Gmuend
Tel. +49 7171 10407-0
Fax +49 7171 10407-50
info@ifo-gmbh.de
www.ifo-gmbh.de

IFO
Gutachterlabor Dr. Herrmann
Gruene Str. 17
01067 Dresden
Tel. +49 351 4961103
info@ifo-gmbh.de
www.ifo-gmbh.de

POLAND

IFO Inspection and Testing Sp. z o.o.
Janówek 39,
21-007 Janówek
Poland
Tel. +48 663 128400
info@ifo-poland.pl
www.ifo-poland.pl

QUBUS
Planung und Beratung
Oberflächentechnik GmbH
Alexander-von-Humboldt-Str. 19
73529 Schwaebisch Gmuend
Tel. +49 7171 10408-0
Fax +49 7171 10408-50
info@qubus.de
www.qubus.de

QUBUS
Planung und Beratung
Oberflächentechnik Nord GmbH
Rigaer Str. 8
59557 Lippstadt
Tel. +49 2941 728869-0
info-nord@qubus.de
www.qubus.de

NETHERLANDS

IFO Inspection and Testing BV
Tel. +31 345 745090
info@ifo-netherlands.nl
www.ifo-netherlands.nl

CHINA

Hangzhou IFO Quality Testing Co. Ltd.
Room 502, Building 25,
No. 189 Hongcan Road
Xiaoshan Economic & Technological
Development Zone,
Hangzhou, Zhejiang, 311232, China
Tel. +86 571 8378 7037
Fax +86 571 8286 5822
info@ifo-china.com
www.ifo-china.com

Hangzhou Qubus Surface Treatment
Technology Co. Ltd
Room 502, Building 25,
No. 189 Hongcan Road
Xiaoshan Economic & Technological
Development Zone,
Hangzhou, Zhejiang, 311200, China
Tel. +86 571 8286 5811
Fax +86 571 8286 5822
info@qubus-china.com
www.qubus-china.com

MIDDLE EAST

IFO Laboratories LLC
Al Mullah Warehouse No 18
Street 64, Industrial Area 1
Jabel Ali
Dubai, UAE
Tel. +971 4 491 9819
info@ifo-middle-east.ae
www.ifo-middle-east.ae