FEINMETALL
Contact Technologies



PRODUCT PORTFOLIO

Specialized in precision



POWERFUL SOLUTIONS

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IMPRESSIVE TECHNOLOGIES

Our wide selection of Contact Probes and Probe Cards

Part of our commitment to providing comprehensive solutions includes being there for you from delivery to commissioning and all the way to training.

Basic Contact Probes



Kelvin Probes



Basic Threaded Probes



Pogo Connectors



Fine Pitch Probes



Radio Frequency Probes



High Current Probes



Flying Probes



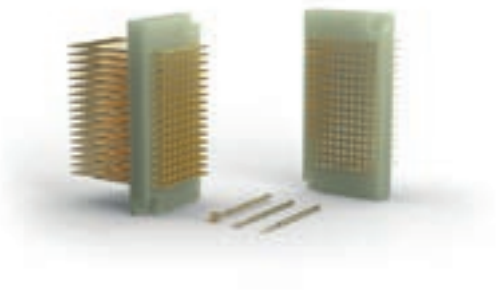
Switch Probes



Twist Proof Probes



Interface Solutions



Push Back Probes



Step Probes



Tools/Equipment



ViProbe®



ViProbe®II



LiProbe®



FeinProbe®



BUSINESS UNITS

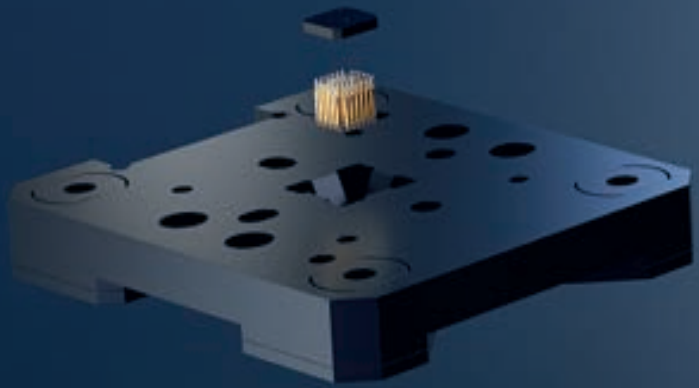
Semiconductor Testing

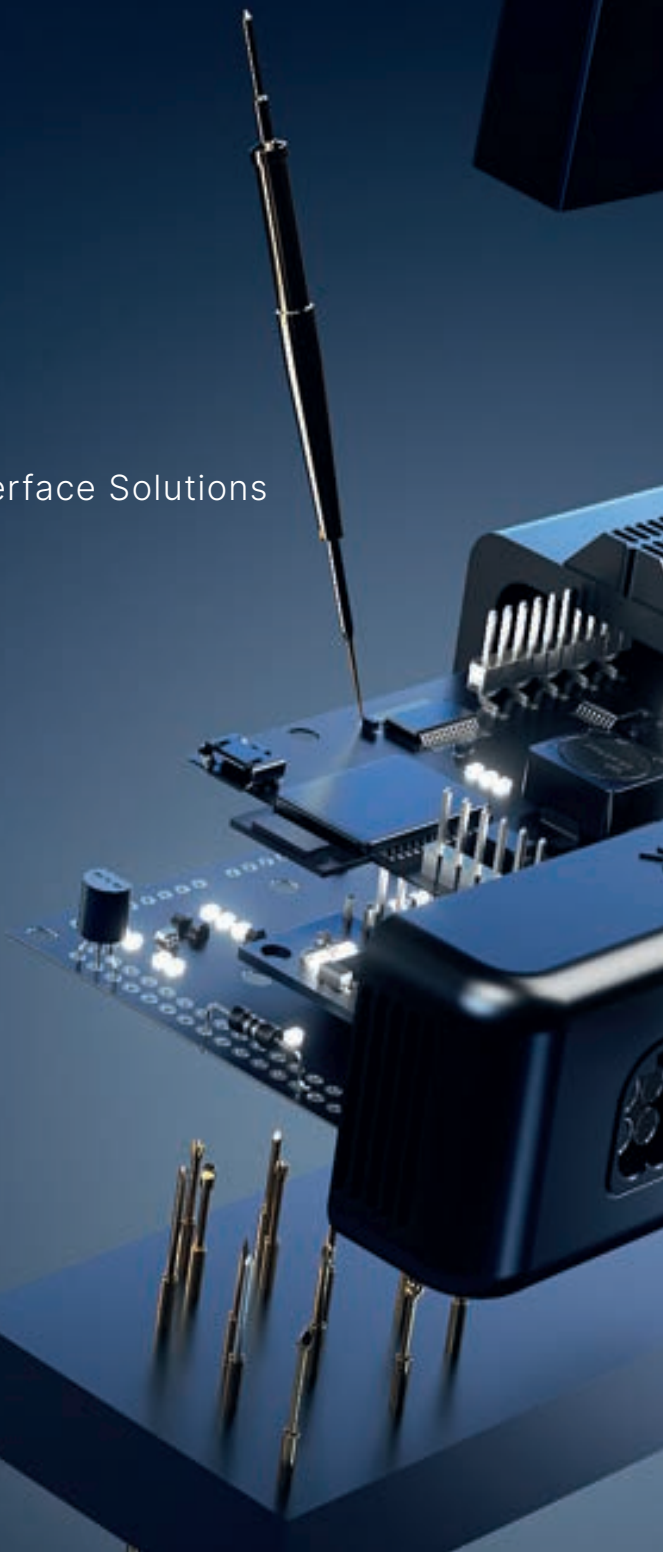


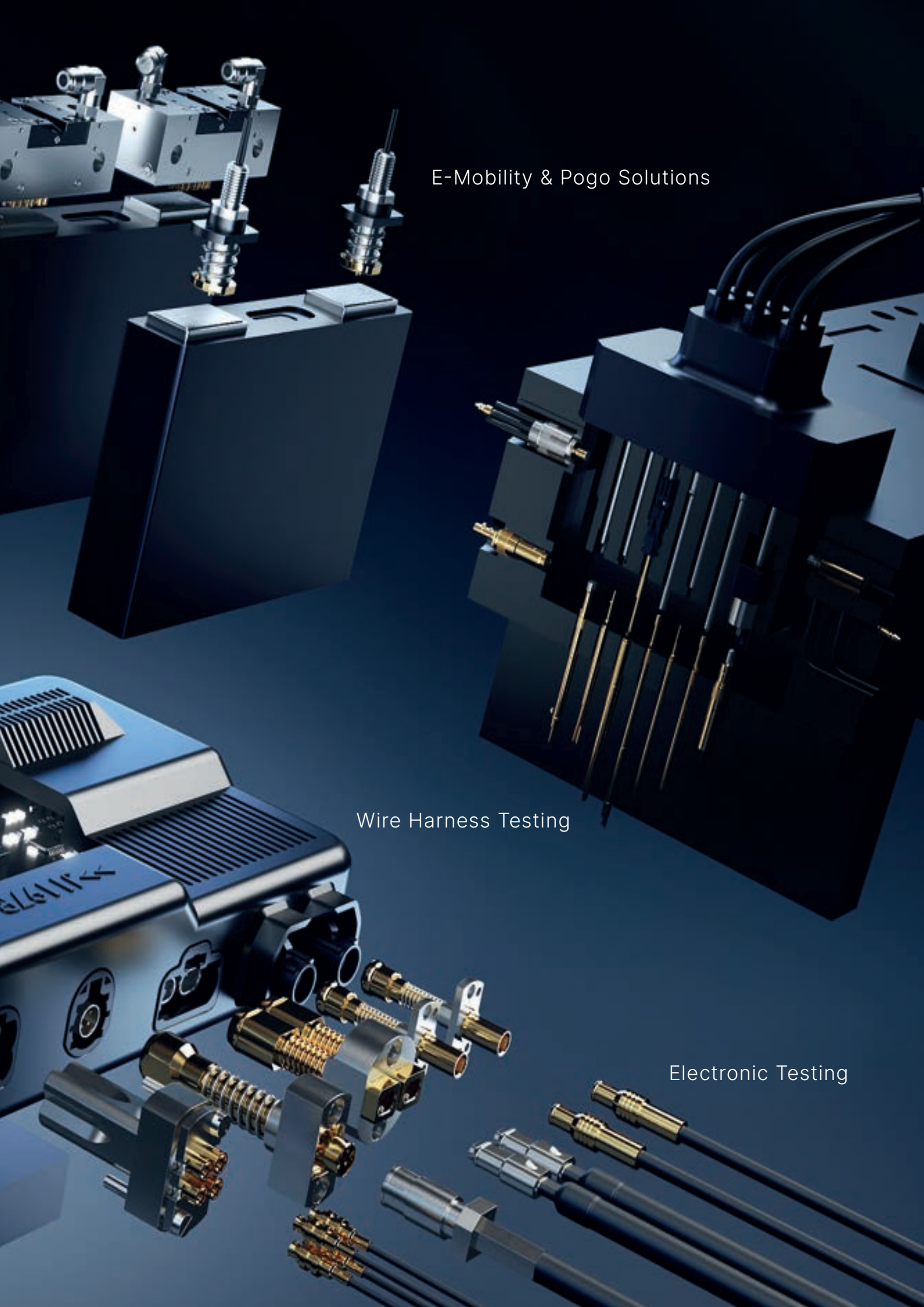
Semiconductor Testing



Fine Pitch & Interface Solutions






E-Mobility & Pogo Solutions
Wire Harness Testing
Electronic Testing

E-MOBILITY & POGO SOLUTIONS

Anywhere high currents are flowing is no place for compromise. We offer an extensive portfolio for a variety of currents and requirements. Our innovative solutions are perfectly coordinated to the market and our customer base to meet the challenges of today and tomorrow.



APPLICATIONS

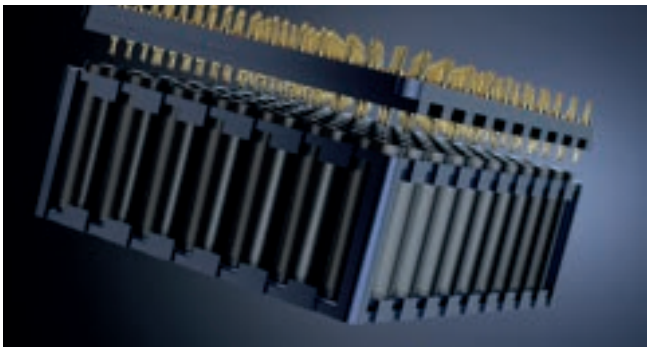
Battery Testing

Testing is a crucial process in the development and production of battery cells to ensure that the battery cells meet the required performance, safety and quality standards. Among other things, voltage, current and resistance tests are carried out for this purpose. In addition, charging and discharging cycles as well as the heat development of the battery cells must be monitored.



Battery Formation

The purpose of the forming process is to stabilize and optimize the chemical and electrical properties of the battery cell. During this process, the battery cell is charged and discharged several times.
A constant and low-resistance contact is crucial for the quality of the cell.



High Current Test

High current contacting refers to the technology and methods used to make electrical connections that can carry particularly high currents. High-current contacting is used in many industries, including the automotive industry, electric vehicles, renewable energy (such as wind turbines), heavy industry, electric welding, high-performance electronics and other applications where high electrical currents flow.



Pogo Connectors

Pogo Connectors are the hidden champions in the world of contacting. They are particularly suitable as charging contacts and as interfaces for data transmission. But pogo connectors are also used in many end products where low-wear electrical contacts are required. Wherever quick-release electrical connections are needed, pogo connectors can be a clever solution. From charging rechargeable batteries to applications in medical technology, all the way to use in the furniture and lighting industry.



FINE PITCH & INTERFACE SOLUTIONS

When it comes to the contacting of test points in very small dimensions, fine pitch probes are needed. Fine pitch probes are essential parts in the electronics industry, ensuring accurate and reliable testing and measurement of electronic components and circuits.

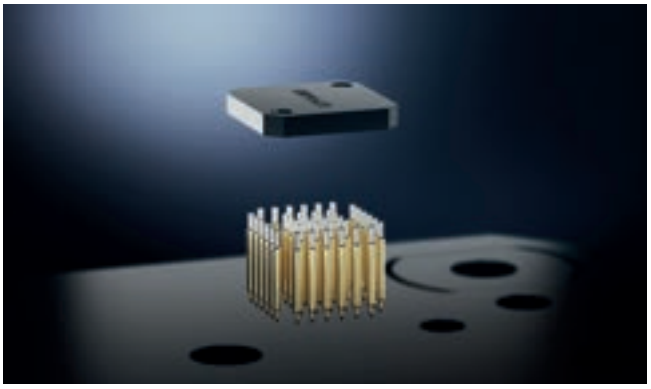
These probes mainly used in applications like semiconductor final testing, WLCSP solutions, MEMS sensor tests or the testing of micro PCBs. Due to the small pitches in these applications, a deep expertise and precision in production is required, to guarantee the best possible contacting. We are able to offer fine pitch probes down to a pitch of 120µm to provide the solution of your needs.



APPLICATIONS

Semiconductor Final Testing

Through rigorous final testing, manufacturers can guarantee that only high quality and fully functional semiconductors reach the market, ensuring the reliability of electronic devices for end-users. To realize these tests, Fine Pitch Probes are necessary. FEINMETALL Fine Pitch Probes are able to contact different package types of these chips such as BGA, QFN, LGA ,QFP etc. with a high quality and repeatability. In our diverse portfolio you will find a suitable probe for all of your applications.



MEMS Sensor Testing

Testing MEMS sensors means checking if they work well and are accurate. Fine Pitch Probes allow engineers to access specific points on the sensor, enabling full testing and analysis. The high level of precision provided by FEINMETALL Fine Pitch Probes is essential for evaluating the performance parameters of MEMS sensors. We provide a wide range of options of these probes with excellent quality standards to secure your best testing results.



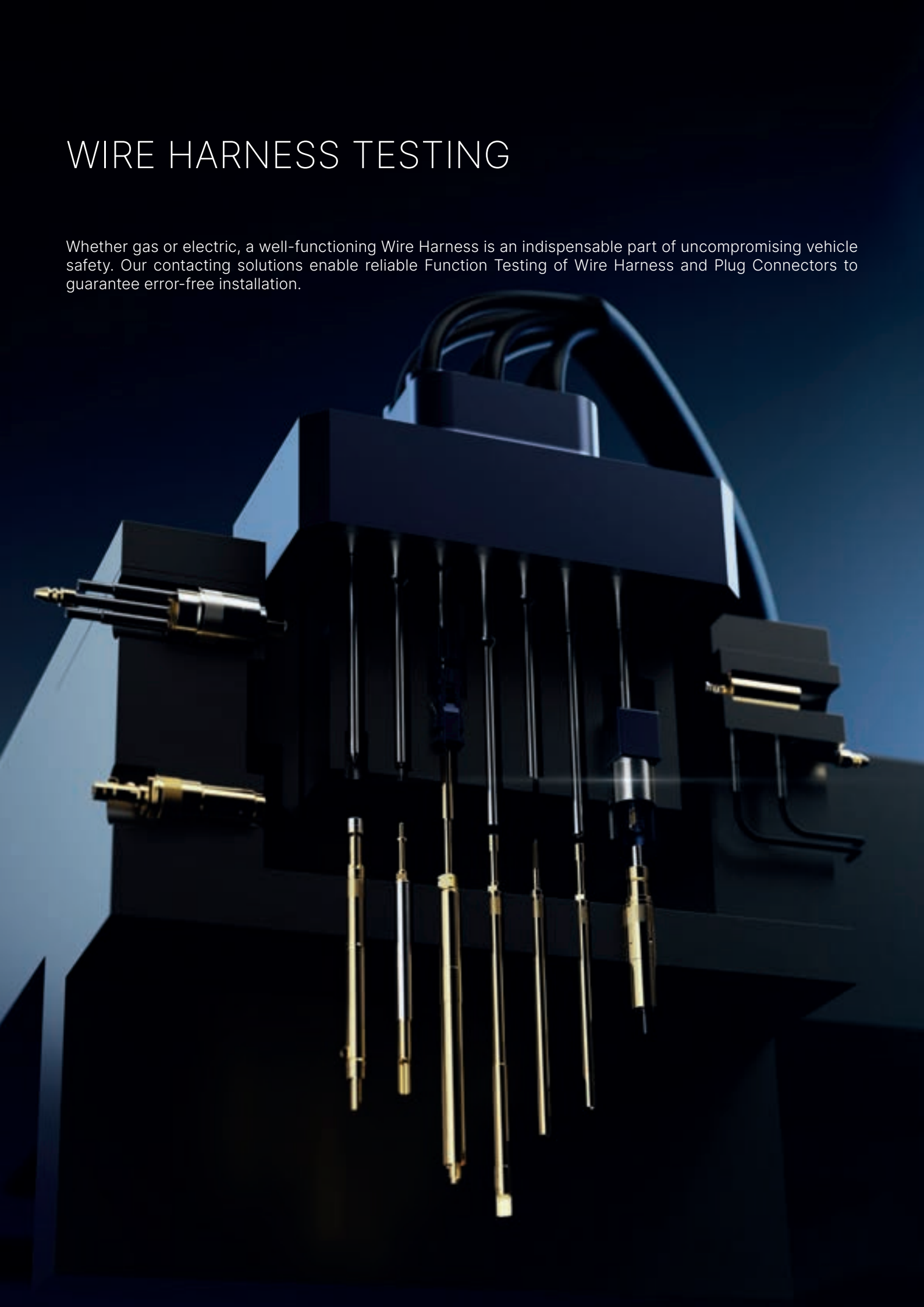
Micro PCB Testing

Testing micro PCBs is essential for ensuring the functionality of compact electronic devices like smartphones and wearables. PCB Testing means making safe electrical connections with these tiny boards. These processes guarantee the reliability and functionality of modern electronic gadgets. FEINMETALL Fine Pitch Probes are designed by our engineers, to provide you the best possible solution with a longe lifetime.



WIRE HARNESS TESTING

Whether gas or electric, a well-functioning Wire Harness is an indispensable part of uncompromising vehicle safety. Our contacting solutions enable reliable Function Testing of Wire Harness and Plug Connectors to guarantee error-free installation.



APPLICATIONS

Presence Testing

The Presence Test is necessary to check if all needed parts were mounted on the wire harness. For example, the clips to fix the harness on the chassis or secondary locks, which are locking the connector. For these tests FEINMETALL offers a wide range of ball Switch Probes, NO or NC Switch Probes, pneumatic Switch Probes or Off-On-Off Switch Probes, depending on the requirement.



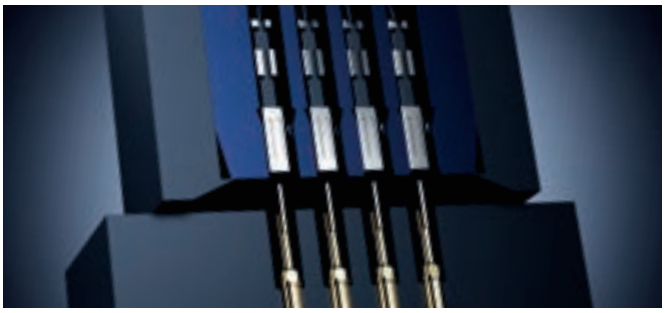
Position Testing

For the Position Test Step Probes are used. They allow the testing of the correct terminal position inside of the connector housing. If a terminal is not mounted correctly, the plate of the step probe blocks at the housing. As a result, the probe does not create an electrical contact.



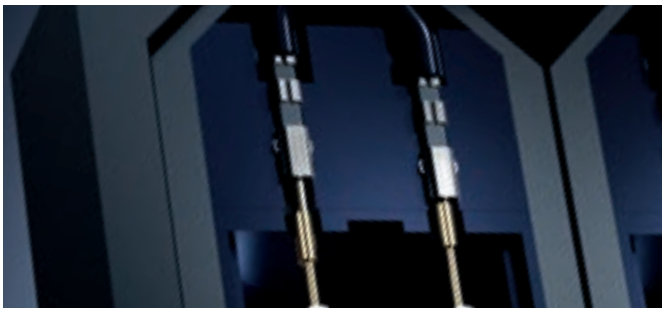
Continuity Testing

For a standard Continuity Test mainly Threaded and Twist Proof Probes are used to ensure a secure seat in the receptacle even if vibrations or unintentional side forces occur. In addition, their function is to check three basic errors: open wires, shorts between wires or miswires.



Push Back Testing

Push Back Probes have a very high spring force to test if the connector terminals are mounted correctly. If so, they will withstand the pressure and compress the probe. Through this, a switch function will get activated and the correct mounting is confirmed. Push Back Probes combine mechanical and electrical tests within one probe.



Connector Testing

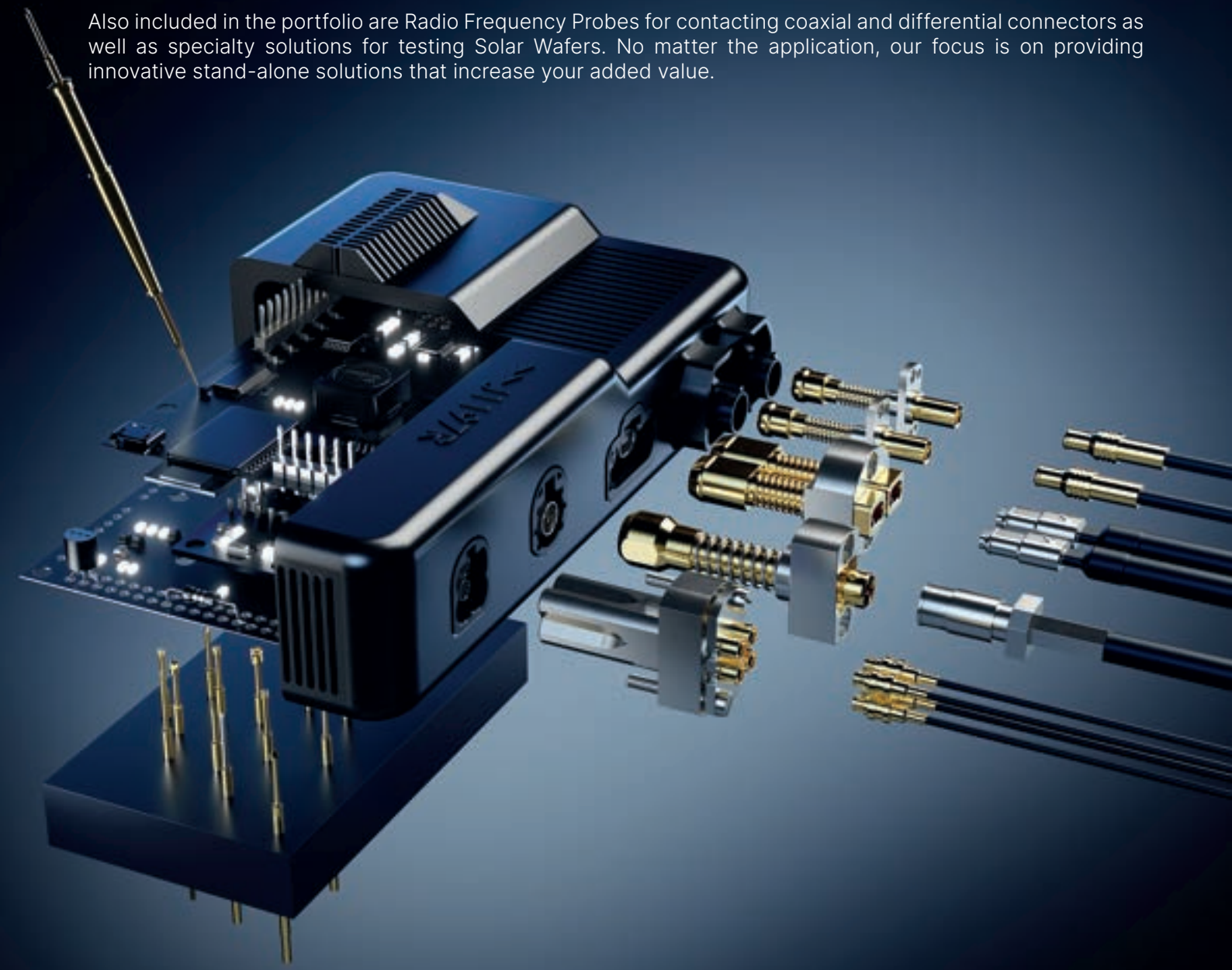
The connector market is changing rapidly as it is adapting to the technology progress in new sectors such as autonomous driving or electric vehicles. Because of the wide range of possible applications there are different connectors available. For standard and customized connectors FEINMETALL has various solutions available to cover the specific test requirements (for example high voltage, radio frequency, high current, kelvin test).



ELECTRONIC TESTING

FEINMETALL provides the perfect solutions for all the electronics industry's testing needs. Our portfolio encompasses a variety of contacting solutions for circuit board testing as well as the necessary interfaces.

Also included in the portfolio are Radio Frequency Probes for contacting coaxial and differential connectors as well as specialty solutions for testing Solar Wafers. No matter the application, our focus is on providing innovative stand-alone solutions that increase your added value.



APPLICATIONS

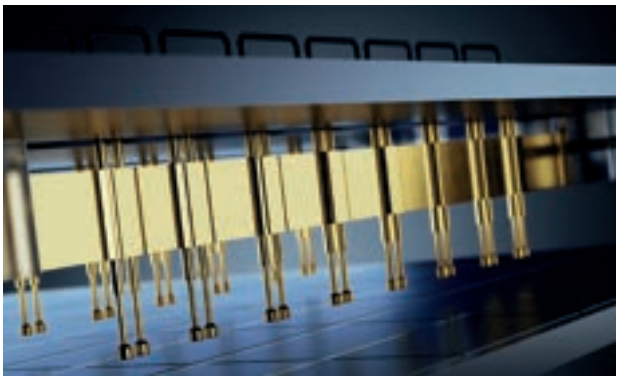
Circuit Board Testing

We offer all commercially available ICT/FCT probes for Circuit Board Testing. We also provide an innovative solution for challenging test conditions with our Progressive series.



Solar Wafer Testing

We offer special probes with an extended service life and particularly low resistances for contacting busbars on Solar Wafers.



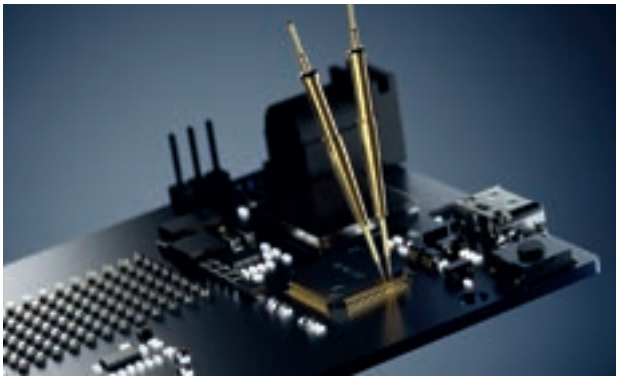
Interface Solutions

FEINMETALL offers all Interface Solutions needed for secure test signal transmission, including blocks, probes, and rigid pins.



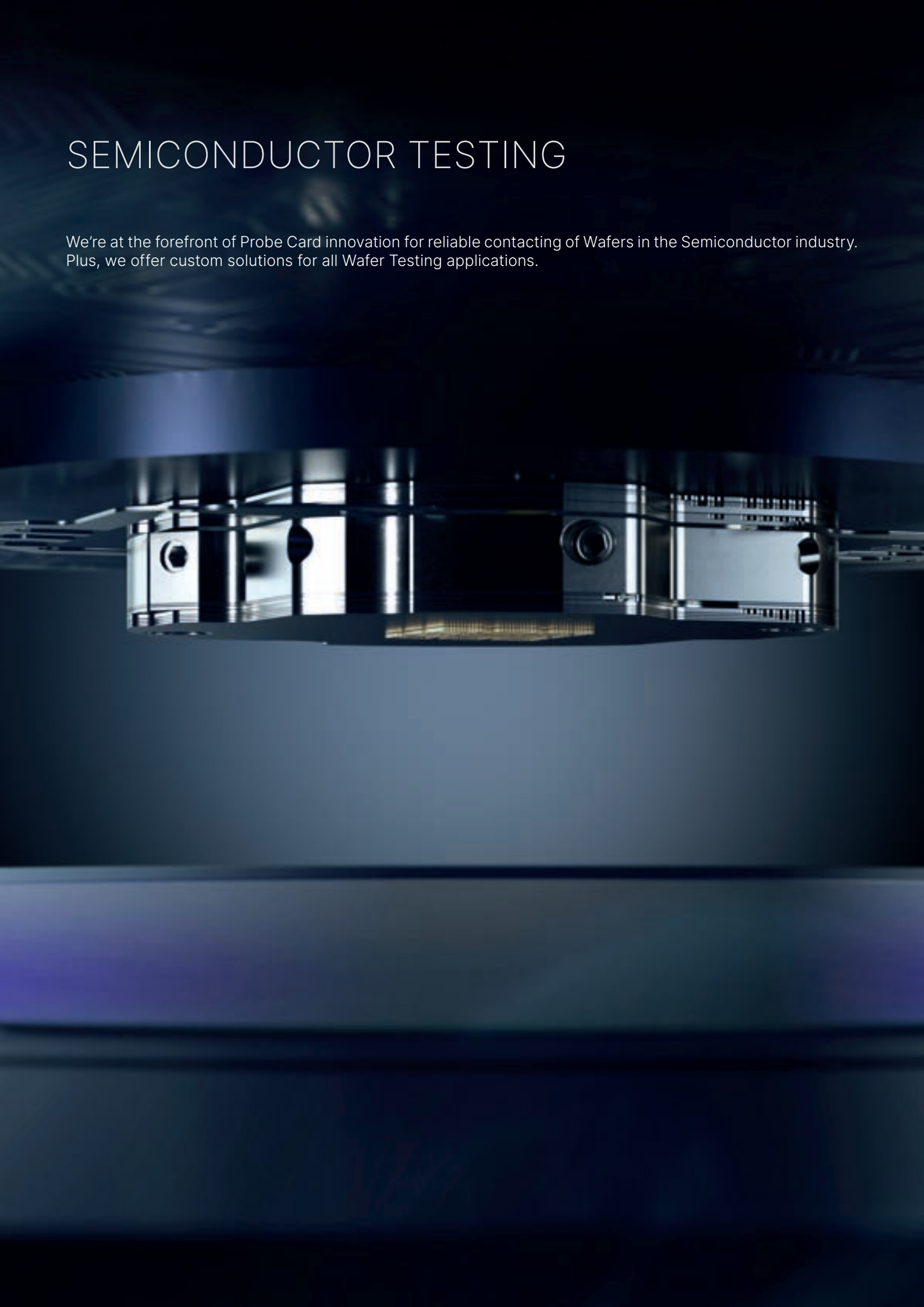
Flying Probes

Our portfolio's probes, hallmarked by high precision and low resistance, are compatible with the market's common test systems.



SEMICONDUCTOR TESTING

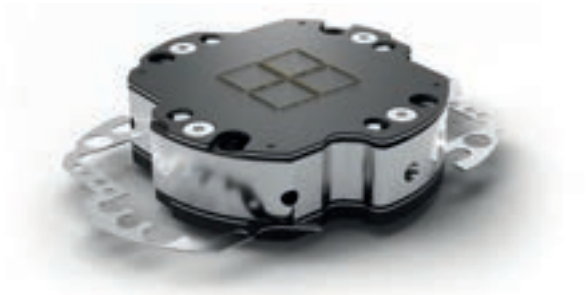
We’re at the forefront of Probe Card innovation for reliable contacting of Wafers in the Semiconductor industry. Plus, we offer custom solutions for all Wafer Testing applications.



APPLICATIONS & PRODUCTS

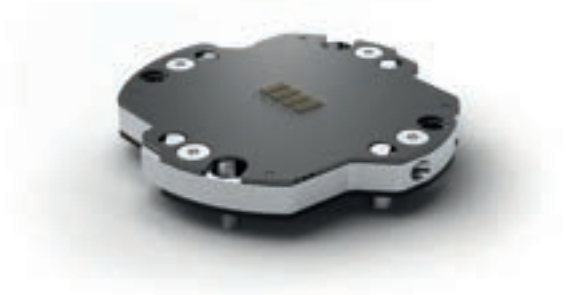
Wafer Testing

Thanks to our Vertical Buckling Beam technology, stable contact on all pad materials can be guaranteed.



WLCSP

With our comprehensive portfolio of Spring Contact Probes, we ensure exceptional contact quality on bumps.



Radio Frequency Testing

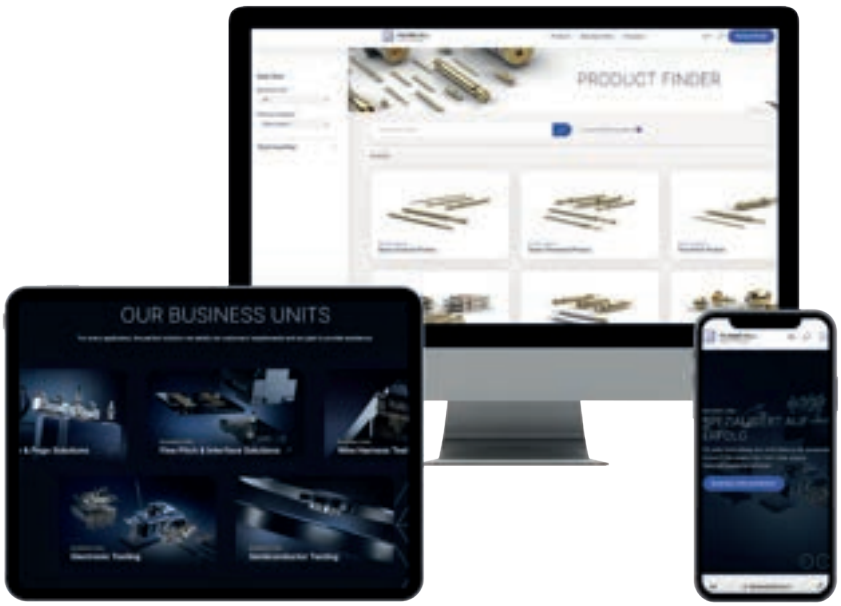
Our high-performance Probe Cards address 5G frequency bands with flying colors.



High Current Testing

The versatility of our contact solutions even enables testing of high currents.





FIND US ONLINE

Our website

Welcome to the digital world of FEINMETALL. We offer you innovative contacting solutions that exceed your expectations. Visit our website at FEINMETALL.com and be inspired by the wide range of services customized to industry-specific needs. By using innovative technologies and advanced manufacturing methods, we deliver products of the highest quality and precision that can be used in various industries such as automotive, electronics, aerospace and medical. Our dedicated team is on hand to understand your requirements and help you to find the best solutions to your challenges.

> FEINMETALL.COM

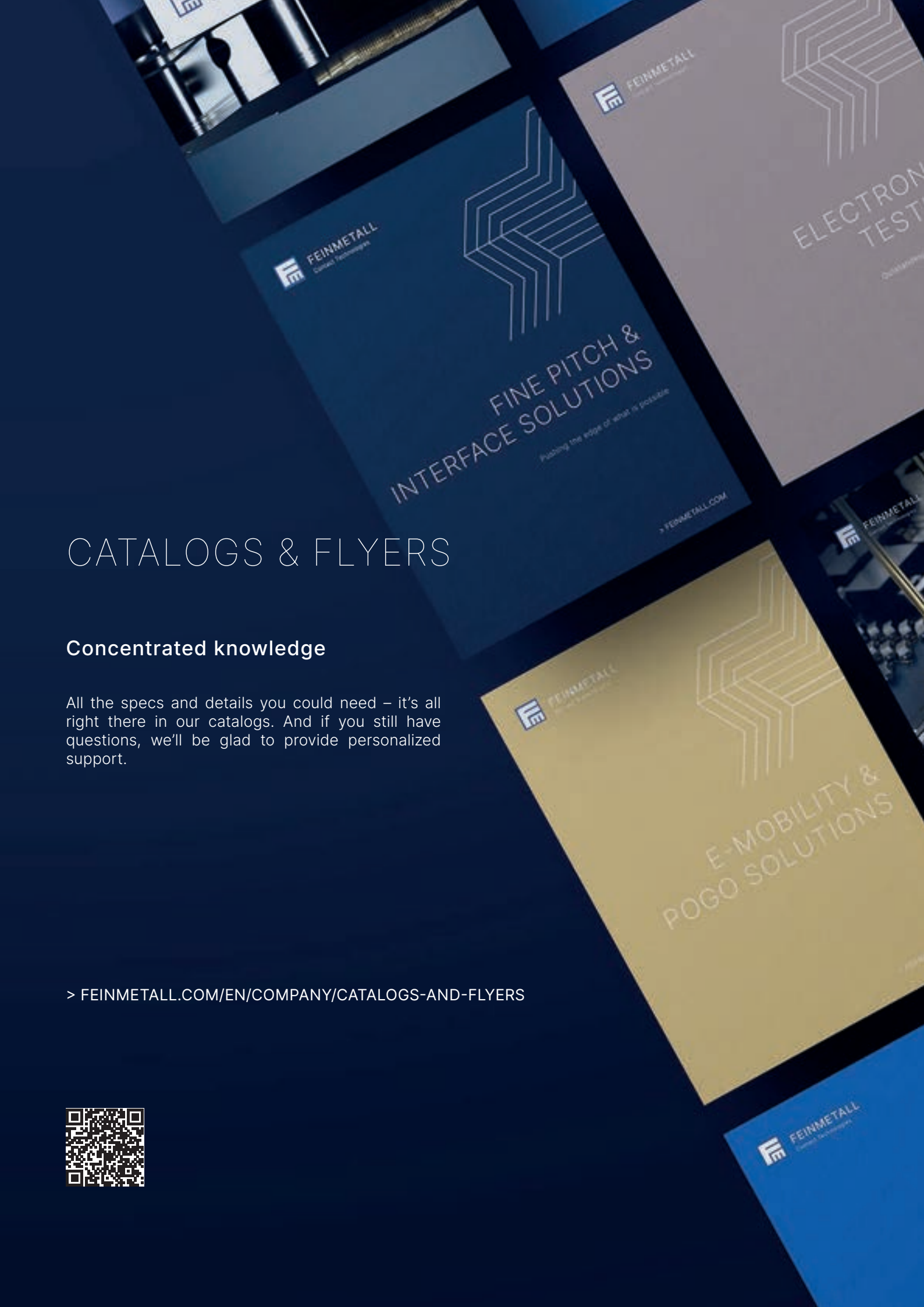
Join the community

Connect with us on LinkedIn, Instagram and YouTube. We take you behind the scenes at FEINMETALL and offer exciting insights into the various areas of the company. With exciting content, we stay true to our passion for precision and technology. Receive regular updates about our company, including new product launches and developments, reports on events and trade fairs, company news and more. We'll also keep you up to date on new career opportunities and job openings. Connect with us now and become a part of our community. Stay up to date and don't miss out on more about FEINMETALL.

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CATALOGS & FLYERS

Concentrated knowledge

All the specs and details you could need – it's all right there in our catalogs. And if you still have questions, we'll be glad to provide personalized support.

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