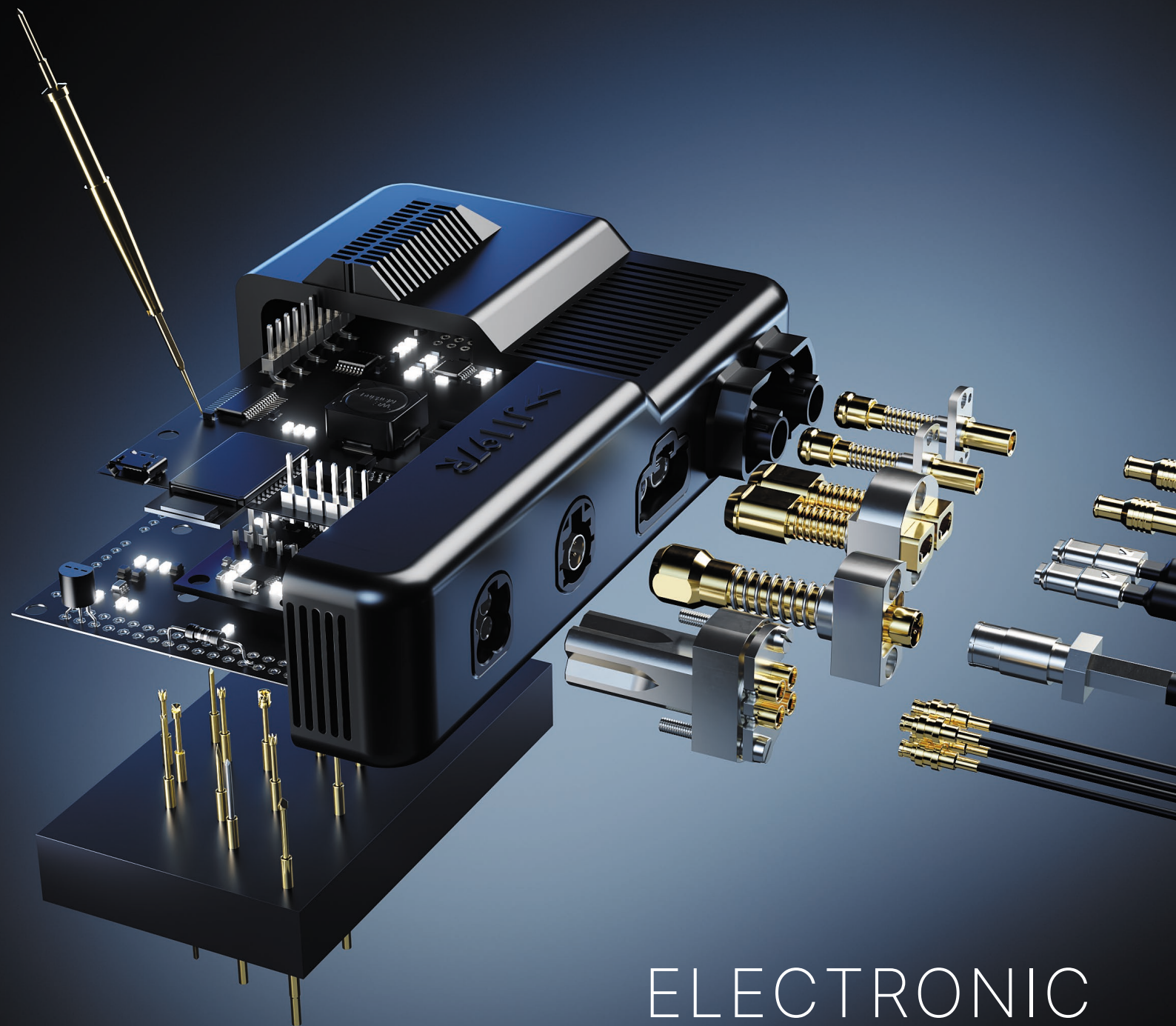




FEINMETALL

Contact Technologies



ELECTRONIC TESTING

Sophisticated probes for every application

> FEINMETALL.COM

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FM Choice

What is FM Choice?

FM Choice is our specially curated selection of the most reliable and frequently used probes in the market. Based on our expertise and experience, we have pre-selected the top-performing probes, so you don't have to choose from hundreds of options. With FM Choice, we make your decision easier by offering the most trusted solutions that meet your needs.

One of the greatest advantages of FM Choice is high availability and fast delivery, as we can often ship directly from our stock. This enables us to meet your demands whenever you need them. Plus, FM Choice offers competitive pricing, even for smaller quantities, making it an attractive solution for all kinds of projects.

Our portfolio includes over 700 contact probes for pitches between 6 and 100 mil, covering a wide range of applications and ensuring we meet most technical requirements quickly and efficiently.

Benefits at a glance



Most trusted solutions



Competitive prices



Fast delivery & high availability

Discover FM Choice products online

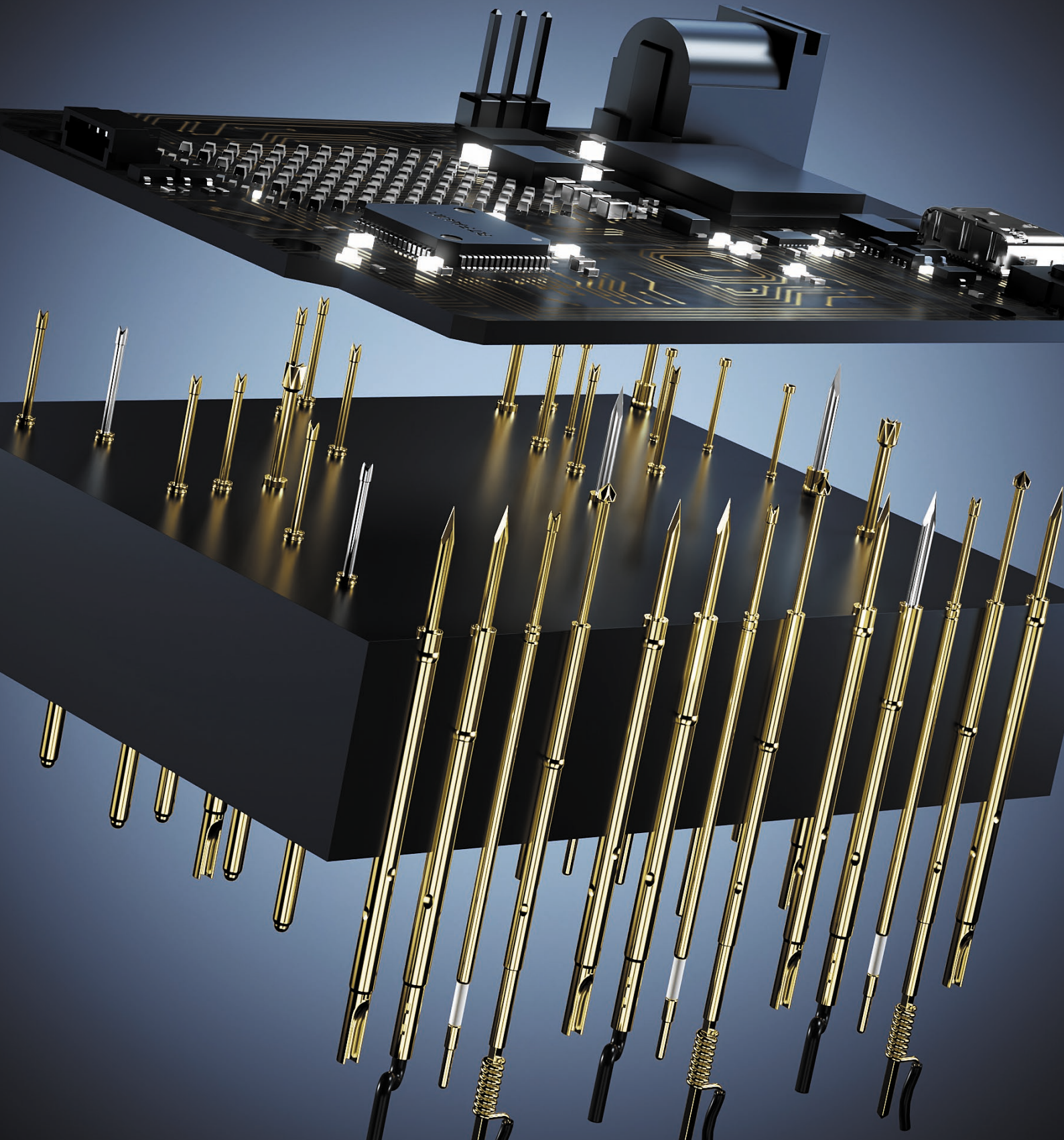
With our new Product Finder, we offer you a complete overview of all FM Choice products that you can easily search through. This high-performance tool allows you to search for specific products and compare them based on their technical features.

In addition to the FM Choice products, we invite you to explore the other categories to discover our complete product portfolio. Start your selection now and experience the variety and quality of our products.

> FEINMETALL.COM/product-finder



CIRCUIT BOARD TESTING



CIRCUIT BOARD TESTING

PROBES FOR ICT/FCT

Reliable Solutions for In-Circuit and Functional PCB Testing

FEINMETALL offers a complete range of market-standard ICT/FCT probes for reliable testing of printed circuit boards. With a 360° portfolio of varying spring forces, coatings, probe lengths, and over 20 different tip styles, we provide the right solution for every application – from 30 mil to 125 mil. Our innovative Progressive Series is specifically designed for demanding testing conditions. Custom solutions and a wide range of assembly and maintenance tools complete our offering.

Basic probes for ICT/FCT

For in-circuit and functional testing of PCBs, basic probes with a pitch of 50 mil, 75 mil, and 100 mil are most commonly used. These applications require long service life, reliable contact, and a wide variety of tip styles and spring forces. FEINMETALL offers compatible receptacles for all its basic probes, including airtight versions and supporting all common connection types such as wire-wrap, solder, crimp, and wireless.



Metric probes

Metric Metric test probes (according to the metric standard) complement the classic ICT/FCT test probes manufactured to MIL standards. They are characterized by high stability, robustness, and a distinct collar design.



Probe with insulation cap

Test probes with insulation caps are used for fault detection on component legs. They help identify defects such as missing components or pins that are too short or bent.



PROGRESSIVE SERIES

Tough Conditions, Smart Solutions

The innovative Progressive Series is designed to ensure a reliable and safe contact even during challenging test conditions like contaminations or OSP-coatings. This success is based on three unique characteristics of the Progressive Series. The optimal combination of coating, tip style, and spring force is selected according to our customer's specific test requirements. A detailed overview is available in our Progressive Series Flyer or online at feinmetall.com.

Aggressiveness of the probe tip

Penetration of contaminations and oxide layers

In order to reliably penetrate heavy contaminations and viscous layers, a contact probe must have a highly aggressive tip. So, the choice of tip style is essential. FEINMETALL offers a variety of different aggressive tip styles for applications with difficult contacting conditions.

Functional coating

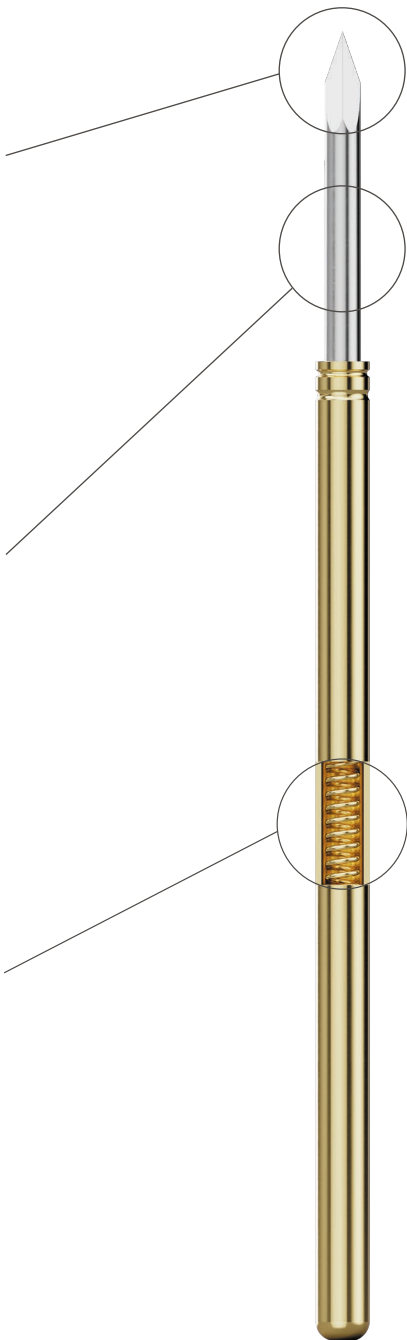
Reduced contamination of the contact probes

The unique, special PROGRESSIVE coating of the tips has a considerably lower contamination sensitivity compared to conventional gold plating. At the same time, the hardness is 3 times higher. This results in a significantly longer lifetime of the probes even with heavily contaminated contact surfaces.

Higher preload

Optimized force characteristic during contacting

Due to an increased preload of the spring, a higher spring force is realized immediately when contacting the test item whereas the nominal spring force at nominal travel remains unchanged. So, the overall load on the test item does not change, but contaminations are penetrated more effectively.



PROBES FOR DEFINED TEST SYSTEMS

Standardized and customized Interface Solutions

The interface between the test fixture and the test system is typically implemented using interface probes that are specifically standardized for each test system. FEINMETALL offers probes compatible with all common test systems such as SPEA, Agilent, Teradyne, ATG, Digitaltest, Luther & Mälzer, Factron, and others. In addition, we provide a wide range of standardized interface blocks as well as customized interface solutions.

F10006B310G...(Mint Pin)

For Keysight-/Agilent Test Systems
(HP3070/i3070/i5000)

F10005B150G200

For Spea Test System
(Easytest/Unitest)

F10006B150G200

For Spea Test Systems
(Easytest/Unitest)

F10015B150G150

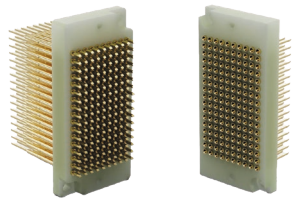
For Test System
Factron 300/700 (Schlumberger)

F10015B150G200

For Teradyne Test System
(Spectrum 885xx)

Interface Blocks

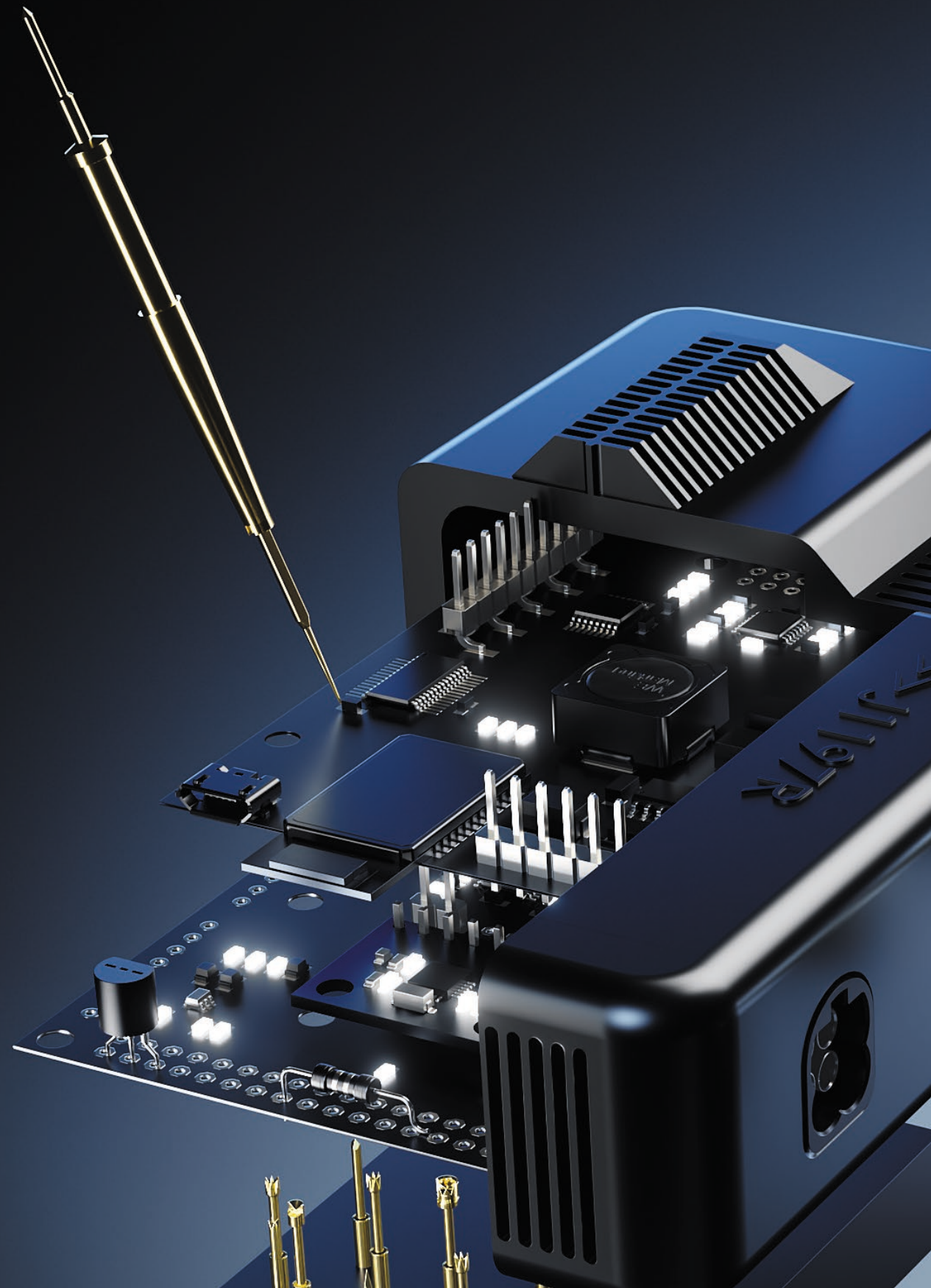
FEINMETALL interface blocks (pylon blocks) are used as interfaces between fixture and test-system. The integrated contact elements ensure a reliable signal transmission with low contact resistance.



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online



FLYING PROBES



FLYING PROBES

FLYING PROBES FOR STANDARDIZED TEST SYSTEMS

Efficient and precise testing for Complex PCBs

The innovative „Flying Probe Concept“ enables ultra-precise measurements in just a few microseconds. Contacting can be made on one or both sides from above and below. Flying Probes contact on the smallest geometries such as pins of micro-SMD components or rest rings of vias.

Flying Probe testers can be flexibly programmed to test different PCB layouts on one tester - without modification. The low and constant internal resistance during the whole lifecycle of the FEINMETALL Flying Probes, is enabling a stable test-process with high first yield pass. FEINMETALL offers Flying Probes for all common test systems. If required, FEINMETALL also develops Customer specific solutions.

FL100



FL118



FL118 (Twist proof design)



FL177 (Twist proof design)



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SOLAR WAFER TESTING

SOLAR WAFER TESTING

FOR CONTACTING SOLAR WAFERS

FEINMETALL as a reliable partner for contacting solar wafers

Feinmetall is one of the leading suppliers of high-quality solar probes. With our innovative technologies and extensive expertise, we have developed specialized test probes tailored for solar wafer testing.

To contact the busbars (conductor paths) on the wafer, we use probes that are specifically optimized for sensitive surfaces — ensuring reliable and damage-free contact during every test cycle.

Our uniquely engineered probes stand out for their exceptional service life, stable electrical performance, and robust mechanical design — enabling efficient high-volume solar wafer testing.



Benefits of solar probes

- Consistently Low Contact Resistance
Maintains excellent electrical performance over the full probe lifetime.
- Specialized Tip Design
Ensures reliable and damage-free contact with delicate busbar surfaces.
- Optimized Spring Characteristics
Delivers precise, consistent performance
- 100% Quality Controlled
Each probe is automatically inspected during production.

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RADIO FREQUENCY - AUTOMOTIVE APPLICATIONS



RADIO FREQUENCY TESTING

RF AUTOMOTIVE

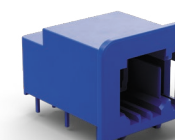
H-MTD®

H-MTD® is a new differential connector designed for transmitting frequencies above 20 GHz. Its main applications include autonomous driving functions and assistance systems. FEINMETALL offers innovative test solutions that meet and exceed the requirements of the USB 3.2 standard.



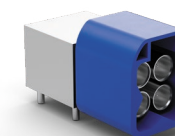
MateNET

Differential connectors are becoming increasingly important in automotive applications. FEINMETALL offers established solutions for all common connectors. For contacting differential MateNET connectors, FEINMETALL provides contact pins that support even the highest data rates, meeting the 1000BASE-T1 standards.



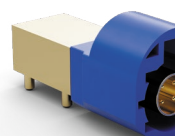
HFM + MateAX

The „mini-FAKRA“ connectors are the next generation of the classic FAKRA connector, designed to transmit higher frequencies in a smaller installation space. FEINMETALL's test solutions are particularly distinguished by innovative and unique solutions for each housing type and connector.



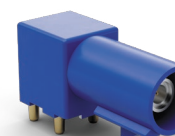
HSD

In addition to the established standard test solutions for HSD connectors, FEINMETALL offers custom designs that set new standards in RF performance and mechanical functionality.



FAKRA

FAKRA connectors are among the most widely used connectors in the automotive market and are an integral part of every vehicle. FEINMETALL offers a wide range of test solutions for coaxial FAKRA connectors, precisely tailored to individual customer requirements.



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RADIO FREQUENCY - CONSUMER ELECTRONICS



RADIO FREQUENCY TESTING

RF CONSUMER ELECTRONICS

Probes for mini-coax and switch-connectors

- Type specially designed for contacting all common switch connectors
- Special design enables contacting in small grids up to 18GHz
- Optimized for long life
- Easy and flexible mounting via flange
- Connection via mSMP or SMA
- Suitable cables available



Probes for standard RF-pads

- Special versions of the HF860 series for contacting standard PCB pads
- Up to 6GHz
- Mounting via receptacle
- Connection via MCX
- Solutions available for all standard PCB pads
- Suitable cables available



Probes for miniaturised RF-pads

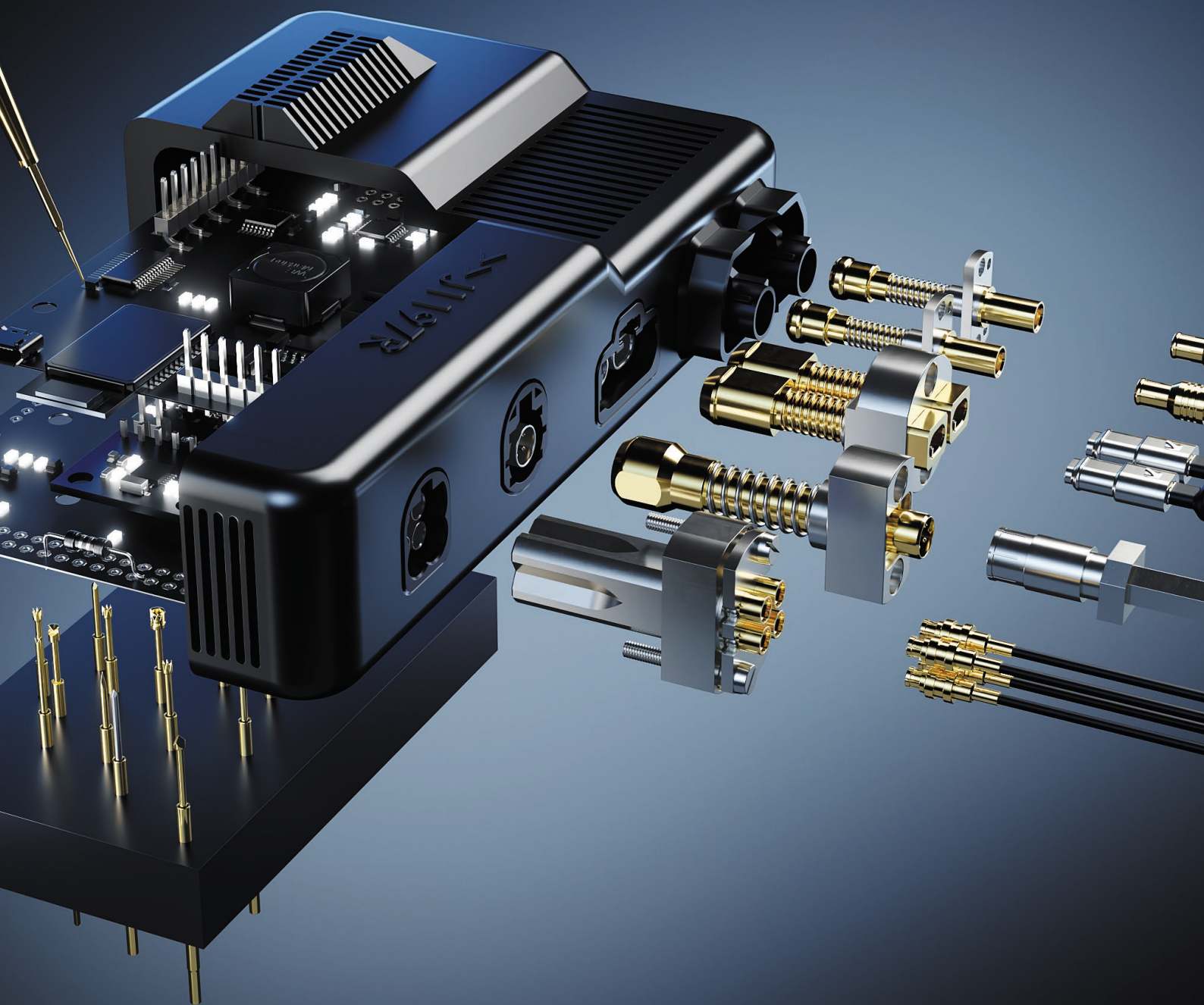
- HF05 for contacting GSG pads with pitch up to 0.5mm (different pitches available)
- Up to 6GHz
- Design like HF66 series
- Mounting via flange
- Connection via mSMP
- Suitable cables available



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RADIO FREQUENCY - INDUSTRY APPLICATION



RADIO FREQUENCY TESTING

RF INDUSTRIAL

Standard probes for coaxial connectors

- Series for contacting all common standard coaxial connectors
- Mounting via receptacle (different versions available)
- Up to 8GHz
- Easily adaptable and cost effective
- Inner pin replaceable for better lifetime
- Connection via MCX
- Suitable cables available



Short standard probes for limited spaces

- Series for contacting all common standard coaxial connectors with limited space (HF830)
- Short version of the HF860 series (same technical data)
- Up to 8GHz
- Mounting via receptacle (H830)



RF-optimised probes for high frequencies

- RF optimized versions of the HF860 series (HF890)
- Up to 16GHz
- Mounting via receptacle (like HF860)
- Connection via SMP connector



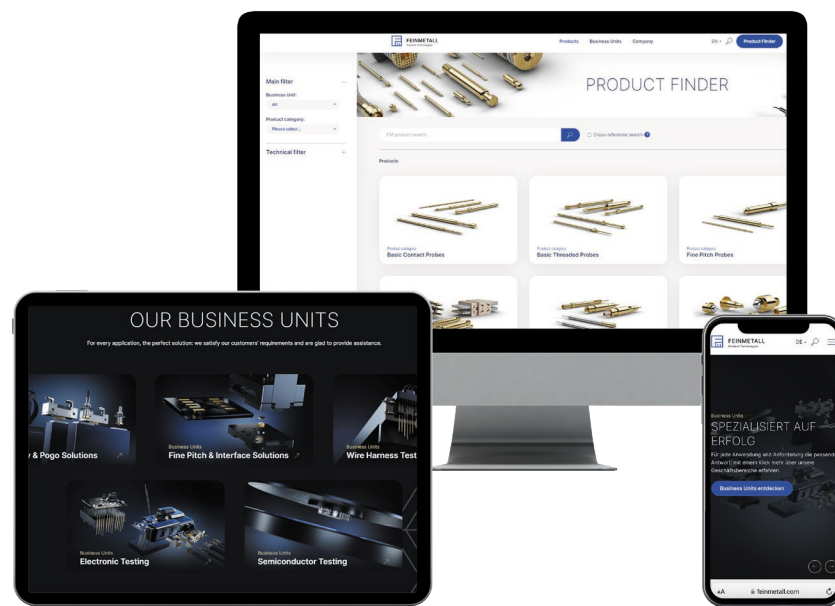
Innovative probes with wobbling-function

- Easy mounting via flange
- Wobble function to compensate alignment errors
- Optimized for long lifetime
- Reduces stress and wear on the DUT
- Suitable cables available



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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](https://www.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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