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**Precision Probing Elements by itp:
Cutting edge to the core.**





Precision and Perfection – Welcome to itp.

 **Simply the best.**

Best Quality!

Best Price!

Best Service!

You think that no one can rightfully claim that? We would be thrilled to prove to you that those are not just empty promises.

This brochure will take you on a 'tour' through our business in order to show you in detail, what we can do for you ...

Always following our motto: Simply the best!



Simply the best –
A standard in precision technology.

Right in the middle of
the World Heritage in
Völklingen – the high
tech site of itp



itp Manufacturing –
equipped with cutting
edge CNC technology

Quality Assurance
from A to Z: here pre-
shipment QA



Simply the best.

Ever since its creation in 1994, itp has kept its promise and has been setting the standards for precision probing elements and accessories for industrial measuring technology. With our designs and constructions, which are manufactured in-house following the strictest quality standards, we have quickly become the key supplier to the internationally leading manufacturers and users of measuring technology. In all industrial sectors worldwide, thousands of clients, who require the highest standards with regard to quality, transparency of costs, and supply capacity from their suppliers, rely on itp.



This brochure will take you on a tour through our company. We will show you the key stations in the manufacturing process of our precision products. Get up close with the technology leader itp.

Only at itp. The industry's largest selection of products.

No matter what size, material, or configuration you need:

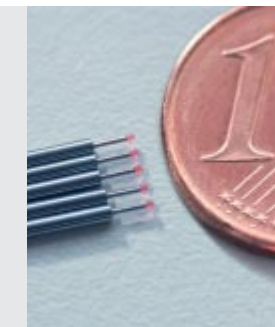
itp has the industry's largest selection of probing elements and accessories for all manufacturers of coordinate measuring and gear measuring systems.



Special shapes, constructions, and accessories with itp's own designs



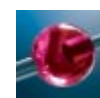
Combine any of the materials for the base, shaft, and ball – according to your needs



Peg-mounted balls highest precision with even the smallest diameters thanks to itp's drilling technology



All probing elements, accessories, and configurations are manufactured in-house following our own designs. By using the most recent manufacturing technologies, which are unrivalled in the industry, we set the highest standards for our line of products. We manufacture every single part from start to finish. All manufacturing steps are subject to the strictest quality control. Since we are independent from external manufacturers, we can guarantee that only 'best quality' will be delivered. All standard items are available through our Next-Day-Service. In general, you receive even custom solutions, which are manufactured according to your specifications, within two days.



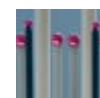
Ultra resistant probe ball materials

From rubies to silicon nitride or zirconium oxide, from ceramic to hard metal.



Probe balls in all sizes

We are the only German manufacturer, who can drill balls made of ultra-resistant materials on-site. Even the smallest diameters of 0.5 mm.



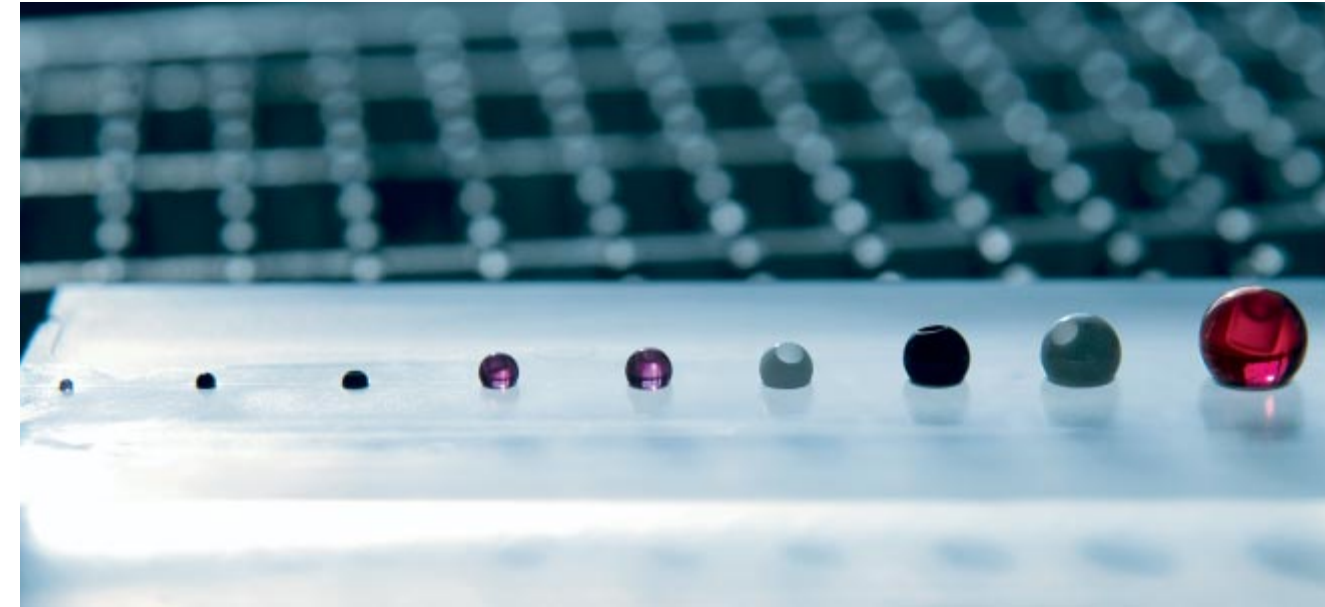
Probing elements

Also made by itp's own manufacturing: Whether you require steel, aluminum, ceramic, hard metal, titanium, or carbon fiber – itp uses cutting-edge technology to process even ultra-resistant materials.



Special shapes and configurations

Upon request, we manufacture all special shapes and configurations made of the materials you require.



High Tech Precision made by itp.

We make it easy for you!

Besides the conventional solid probes, we also manufacture lightweight construction probes, as well as complete lightweight construction probe configurations. The high quality materials, such as titanium, are fused together using our modern laser technology, thus giving the configuration the best possible rigidity. By using complex, yet lightweight probe configurations, you can considerably reduce the system downtime caused by changing of probes, thus minimizing the overall measuring times.



Titanium processing

This high tech material has quite a character of its own. A highly resistant light metal with a considerable rigidity and toughness. At itp, a great technical effort goes into the processing and welding of titanium, in order to guarantee that we can also offer those products at the best itp quality.



Best Quality. Precision probing elements.



◀ **CAD Construction**
Our technicians use the most recent CAD systems, which are directly connected to the CAM control station for the construction of both our own designs, as well as for custom solutions requested by our customers.



◀ **Control Station**
Here, CAD constructions are turned into NC programs with a fully enabled process simulation, thus allowing us to guarantee cost efficiency and high precision even for individual constructions.



◀ **Qualified technicians**
Only highly specialized technicians are able to manufacture our products with the high level of precision we require.

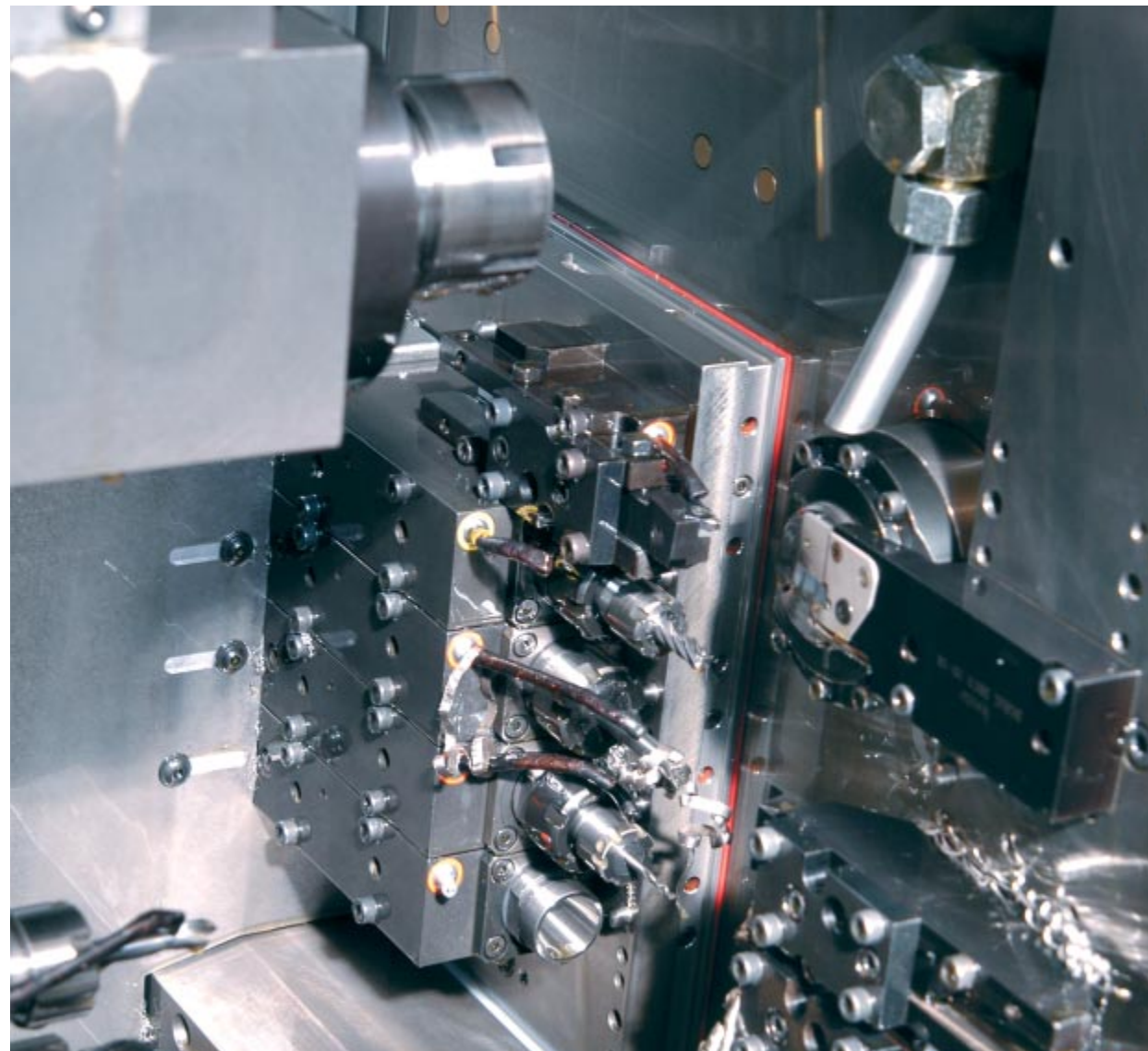


◀ **Custom solutions**
At itp, nothing is impossible. In spite of all the automated processes, our precision mechanics are also required to demonstrate their attention to detail.



◀ **Whatever it may say on the outside ...**
... in most cases, it's itp inside. Quality and precision made by itp.

At itp, we feel obliged to deliver only the best quality – at all times. Throughout the entire manufacturing process, our products are subject to an efficient quality management – from the manufacturing to the final testing. That way, we make sure that you always receive products you can fully rely on.



A closed process chain controls both, the serial production and the manufacturing of custom elements. Our high precision CNC systems form the core of our mechanical manufacturing. Our equipment further comprises the latest turning systems with up to 12 axes, 5-axis machining centers, as well as the most recent cutting and milling machines. The entire production process is controlled and monitored from the specially designed control station for the manufacturing of both our serial products, as well as custom solutions for our customers.

Only at itp. Collar or Peg.

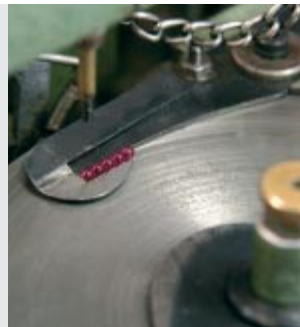
Generally speaking, there are two ways of mounting the ball and the shaft: collar or peg mounting. At itp, we believe that only those, who cannot offer a choice to their customers, because they do not have the capacity to drill balls made of highly resistant materials, will argue about the best mounting methods. In this picture, you can see a section of our ball drilling systems. This drilling technology for highly resistant materials originates in the processing of mechanical elements of the most renowned watchmakers in Switzerland. Only a limited number of machines worldwide can compare to this level of efficiency and precision.



Best Quality. Drilled probe balls.



◀ **Ball drilling systems**
Entirely vibration-free high precision drilling spindles with diamond tools produce a maximum of geometric precision. How it works? That's our secret!



◀ **Blind holes with ball diameters of up to 0.5 mm** – with an unparalleled precision and efficiency. At an unrivalled price.



◀ **100-percent quality control**
Every ball is checked prior to mounting.

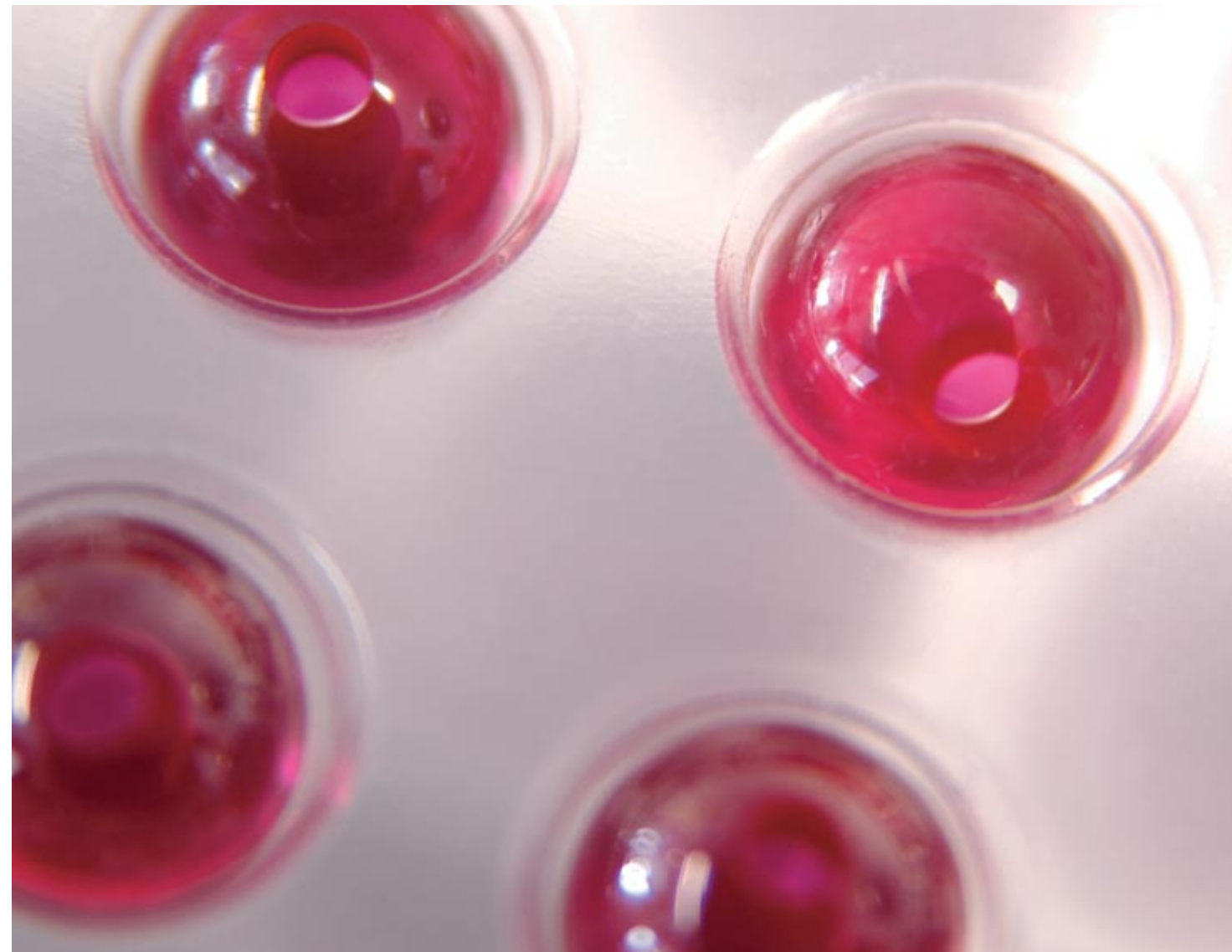


◀ **Ball mounting**
The peg mounting of balls by means of special gluing methods used in aerospace technology ensures a maximum of stability and durability.



◀ **Curing**
We have developed our own glue curing technology. This technology is used in specially equipped climate-controlled labs.

From an engineering perspective, the glued peg mounting offers the best stability and the greater gluing surface. It is especially efficient with thin probe shafts and small balls. Gluing on a collar is appropriate for larger shaft and ball diameters with sufficiently large gluing surfaces. We are the only German manufacturer with a high tech method of its own offering you both possibilities.



Collar or Peg?

itp is the only German manufacturer with a high tech system of its own offering you both mounting methods. Thanks to the equipment, which has been specially designed for this purpose, itp is the only manufacturer, who can drill blind holes in probe balls with a diameter as small as 0.5 mm. Whether you need industrial rubies, silicon nitride, ceramic, hard metal, or zirconium oxide. With commonly used mounting methods, the ball detaches from the shaft, especially with probes of small ball diameters and thin shafts, when a small amount of pressure is exerted on the probe.

The itp solution: twice as solid!

Our probe balls are peg mounted. In order to achieve a durable mounting, we use special gluing methods in combination with our own, specially developed glue curing technology, employed in our climate-controlled labs. The result: great stability and durability.



Best Price. Save money with the 5-Percent-System.

The secret of our unrivalled pricing lies in our manufacturing processes with the greatest processing capacities. We have developed a manufacturing strategy for each part, which allows us to produce in a single effort a maximum of precision in terms of measurements and shape, but also with regard to the surface quality.

For both, custom made items or serial productions with a constant level of precision. A straight-line process, independent of any external manufacturing capacities. That is how we generate an advantage with regard to the manufacturing costs, which we pass on to our customers.



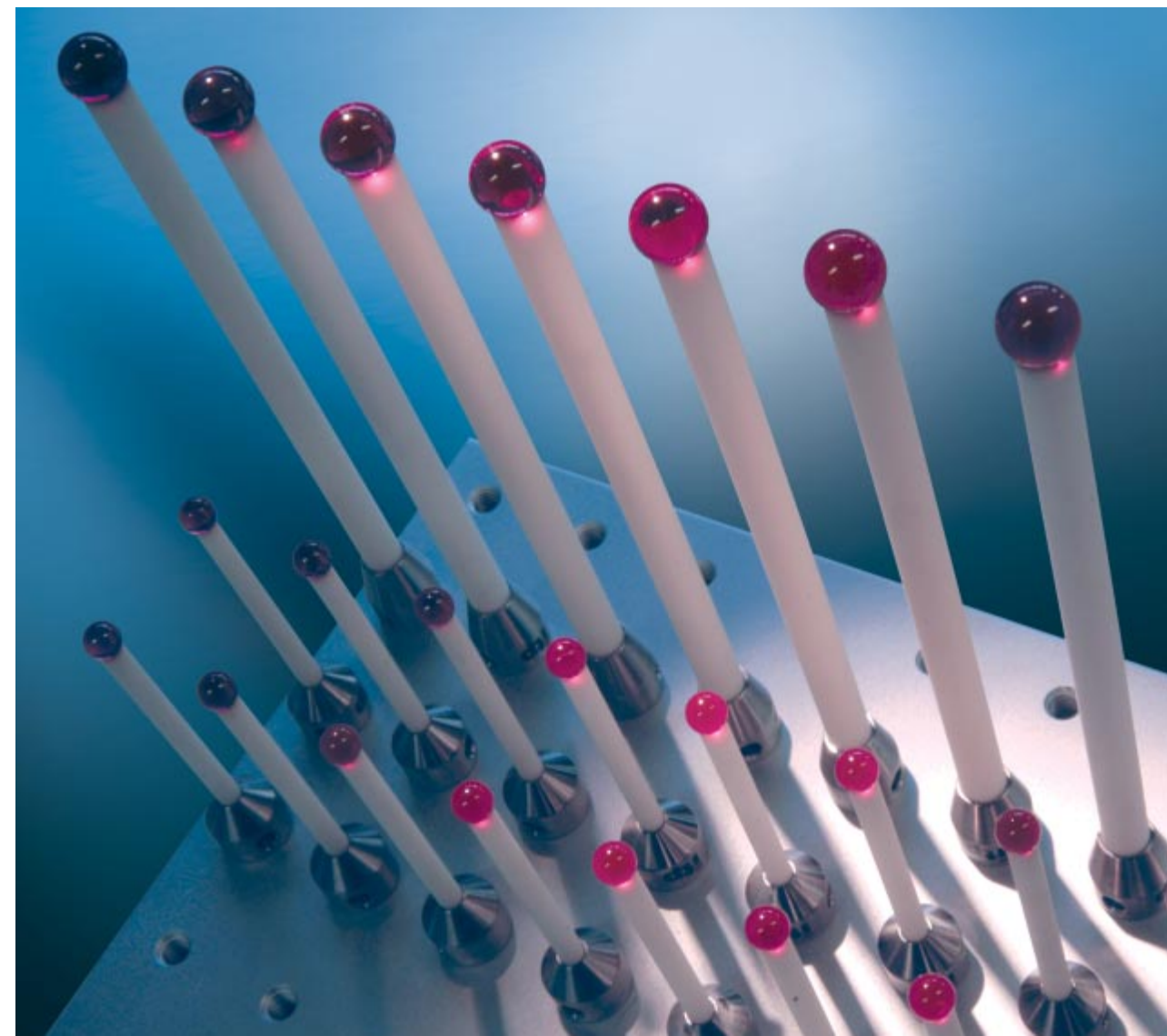
Team spirit and motivated people are the key requirements for us to be able to continually improve our products and to keep providing our customers with the most innovative solutions



Serial precision – by itp at every level and at unrivalled prices.



Save money with the 5-percent-system
When buying itp products, you benefit from an upfront savings effect, as we are always the supplier for precision probing elements with the best prices in the market. Several times a year, we conduct a detailed analysis of the market, so that we are always informed about the current prices of all leading competitors. Take your time and compare. In general, our prices are about five percent lower than our competitors'. And, in the event that another manufacturer should make you an even better offer than ours, we will keep our promise and give you – also in this case – a five percent reduction on that price. Talk to us!





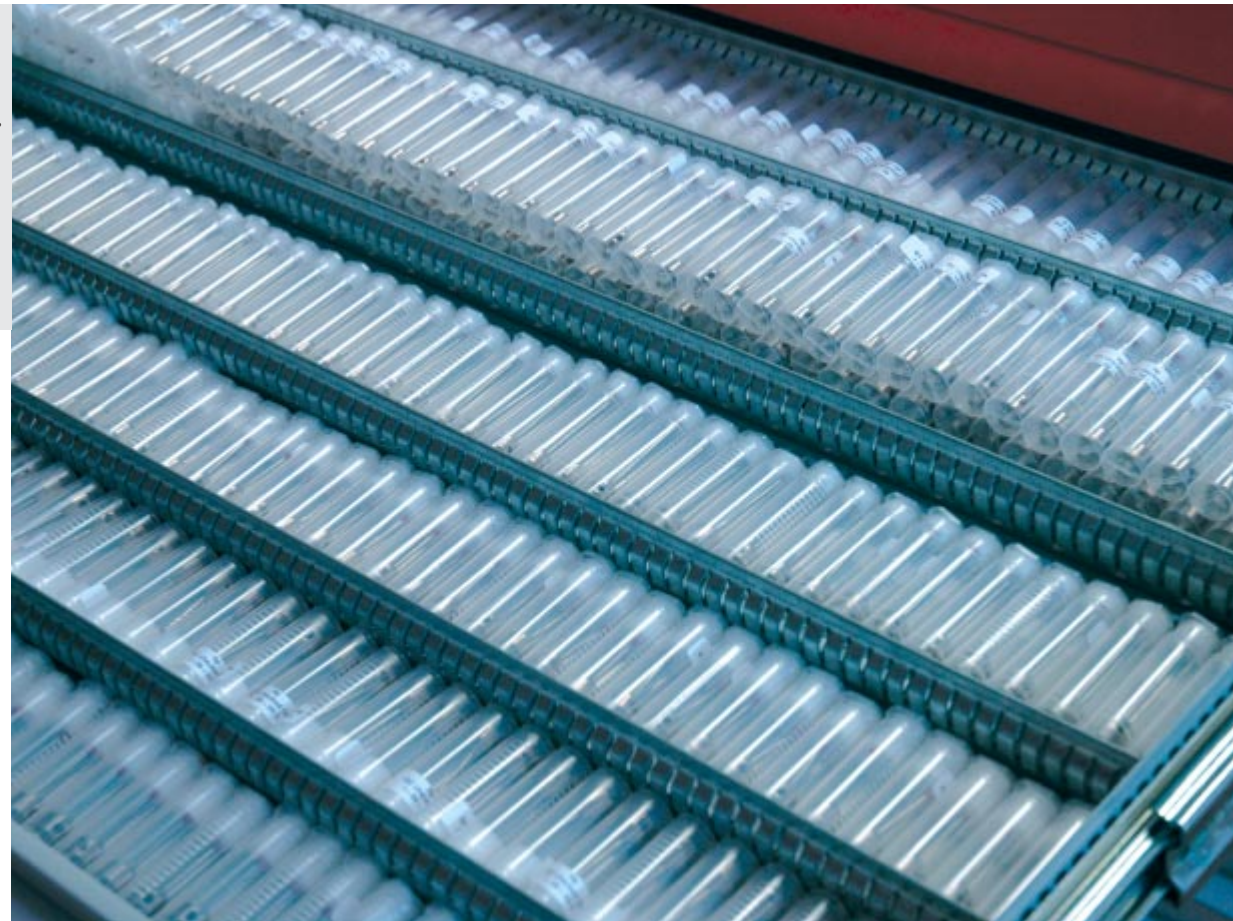
Best Service. Tested Quality.

At itp, not only the entire manufacturing process is subject to a full quality control. Every single product is subject to the strictest quality testing in a final inspection, before it is either shipped or put in stock. That way, we make sure that you can rely on our precision products at all times.

Best Service. Nobody does it faster!



◀ A large selection of probing elements and accessories ...
... no matter what size or material.



◀ Basic kits by itp ...
... for all leading manufacturers of coordinate measuring systems.



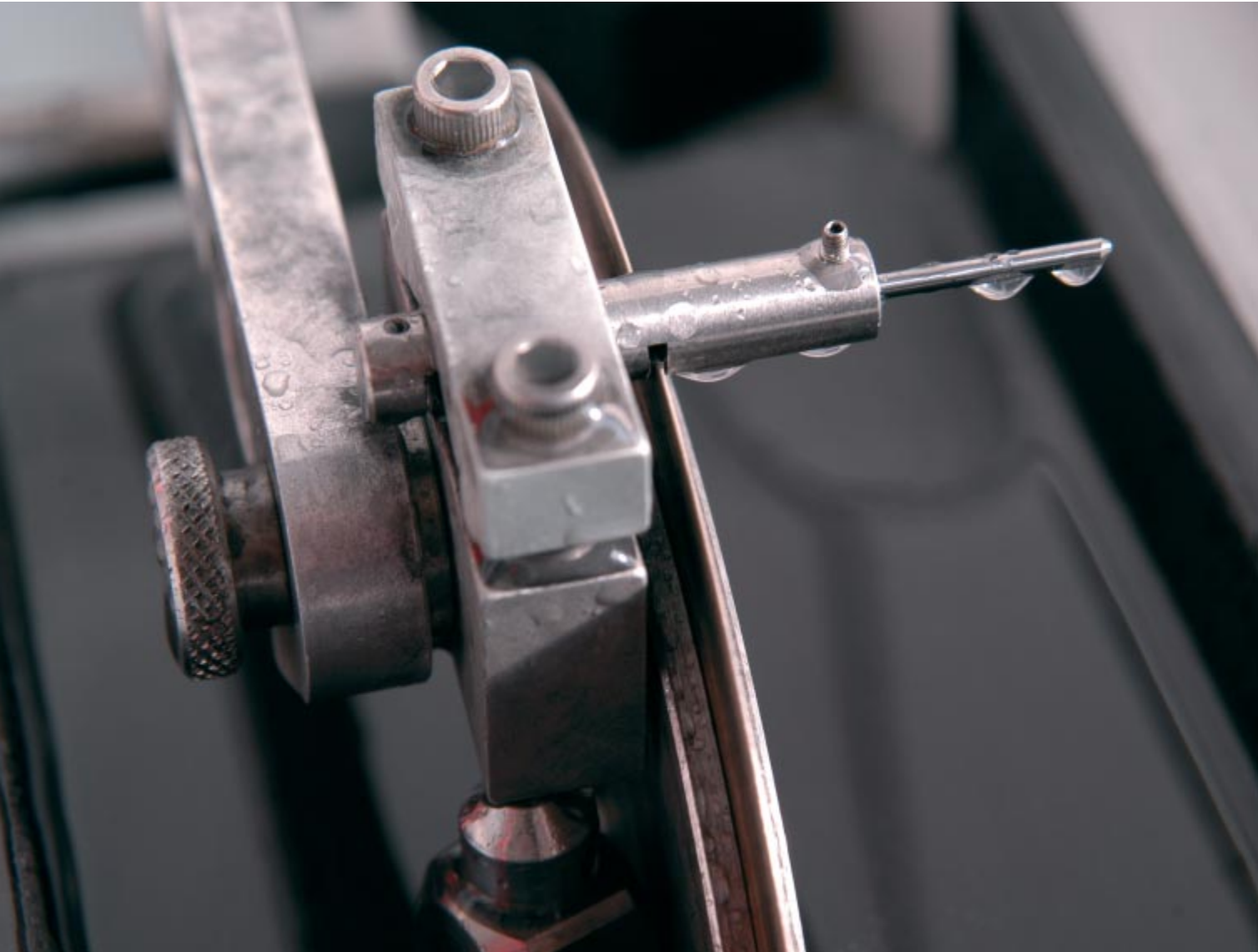
itp does not only offer you the best quality at the best price. Our motto is also valid for our service: **Simply the best.** We understand that, in your business, time is money. That is why we deliver our entire range of products within 24 hours. In general, you even receive custom solutions, which are made to your specifications, within two days. In order to facilitate the ordering process, we have created a Service Hotline, which also offers technical advice.

We keep the stock for you

We constantly carry stock of all the probing elements and accessories you are currently using – standard probes and even custom solutions. Order today and receive it tomorrow. And rely on a constant availability of your equipment. Without costly logistical efforts.

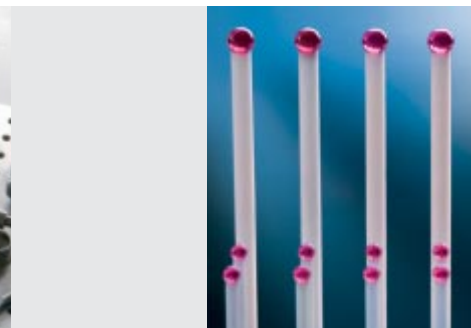
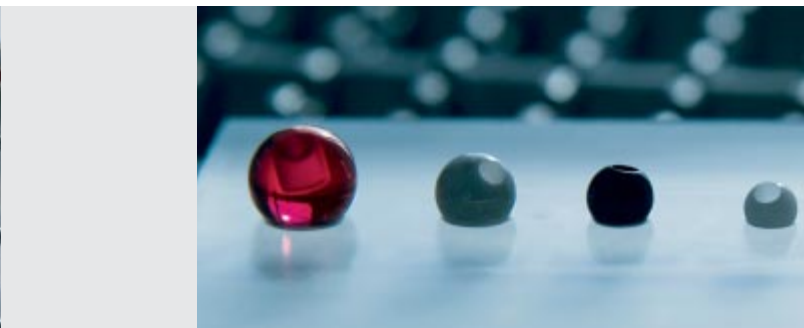
Ordering made easy

Our Online Shop, which offers you an overview over past orders, helps you determine, what you need. All previous orders are registered and the order forms can be printed. Internal and external ordering processes are accelerated and made transparent. You can even design special elements online – simply by using our CAD supported “probe configurator”. If you want to take your time and think things over, you can turn to our user-friendly catalog – also available on CD-ROM. Simplifying the ordering process also implies transparent pricing. That is why all itp products are quoted with prices per item. Yet another aspect worth comparing, as some other suppliers tend to be rather secretive about their pricing information.



The Best for the Best. Simply the best.

Leading manufacturers of coordinate measuring systems, who rely on itp for their key equipment, also appreciate our quality.



In order to guarantee you the reliability of our products, we are DIN EN ISO 9001:2000 certified. That is why, from the cleaning to the curing, our manufacturing, assembly, material, and gluing technologies are subject to the strictest quality control measures and are constantly updated.

That means for you: You can fully rely on the constant precision of your products. Saving you time and money. See for yourself, whether the certification qualifications of other manufacturers offer you the same high level of quality!