




PolyXpert Services
We Do Everything for You
Competence Field



Polytec is the world's leading developer and manufacturer of optical measurement systems for the characterization of vibrations. We are also specialists in the field of optical surface profilometry and non-contact length and speed measurement. Polytec has been certified according to ISO since 1994, and most recently according to DIN EN ISO 9001:2008. Numerous national and international awards attest to our technological leadership and expertise.

Are you developing a new product and need **high-precision measurement data as fast as possible** to better evaluate fundamental parameters and performance characteristics?

Then Polytec is your partner.

Do you need **highly qualified specialists** for a project with urgent time constraints, e.g. in the field of troubleshooting?

Then Polytec is your partner.

Do you want to broaden your knowledge base and benefit from the experience of first class experts?

Then Polytec is your partner.

Furthermore, do you want to **stay within budget** and push your project through the approval process quickly and easily?

Then Polytec is your partner.

As you can see, Polytec is far more than an equipment manufacturer. We offer you a comprehensive range of services with industry-leading technologies and products:

PolyXpert Services

We gladly offer you our core expertise and resources:

- Contract measurements of vibrations and dynamics
- Systems rentals service
- Modal test and experimental modal analysis

With PolyXpert Services You Achieve Your Goals More Quickly

What other benefits do PolyXpert Services provide you?

Quite simply – many:

- Our highly advanced measurement technologies provide optimal data quality, leading to a deeper understanding of the static and dynamic properties of your products.
- Simplify your process by outsourcing your measuring demands.
- If your requirements are only occasional, engineering services are easier to justify than the outright purchase of a system.
- You can evaluate the measurement technology to prepare for a planned project or to help build a case for a future investment in our instrumentation.

At Your Facility or at Ours?

Contract Measurements & Rentals

- Vibration measurement and structural analysis
- Experimental modal analysis
- Systems rental service
- Engineering services



Repair & Calibration

- Vibration measurement systems
- Length and speed sensors
- Surface profiler



PolyXpert Services



Seminars & Trainings

- Trainings
- Technology days
- Seminars and webinars
- User conferences and workshops



Hardware & Software Maintenance

- Upgrading
- Windows updates
- Support contracts

You Benefit From Our Core Expertise



Polytec offers contract measurements and system rentals to meet short term or occasional measurement needs.

Our application center in Waldbronn has, at your disposal, a fully equipped test station that can accommodate structures and devices large or small: RoboVib®, the world's most efficient measurement system for fully automated vibration measurement. It performs measurements on assemblies, components, car bodies and even complete vehicles. You can contract us to perform a single measurement all the way up to a complete project including a highly skilled engineering team.

Take advantage of our services – at our lab or yours.

Benefit from fully equipped testing facilities in one of our application centers: in Germany at the northern edge of the Black Forest in Waldbronn, in Great Britain, Japan or the USA.



There We Measure For You:

- Frequences from 0 – 1.2 GHz
- Three-dimensional structures up to several m² in size, from all directions
- Structures < 1 μm
- Dynamic displacements < 1 pm
- Transient high velocity phenomena
- On rotating parts
- At large displacements, e.g. in drop tests
- On hot surfaces
- Targets in high electromagnetic fields
- On all materials including biological samples
- In liquids
- Through windows, e.g. in vacuum or temperature chambers
- Over long distances



Our Application Centers – Your Advantages

- Fully equipped laboratories with state of the art measurement technology, air-conditioned, access-protected and sound-proofed.
- Excitation by shaker, loudspeaker or piezo actuators (high frequency)
- Vibration isolated test stations for measurements on microsystems
- Acoustically insulated laboratory with robot-supported 3D scanning vibrometers for experimental modal analysis, overhead crane, hoist, and secure, access protected anteroom.
- Separate conference and training rooms
- Experienced engineering team for the planning, execution, consulting and evaluation of your vibration tests



Some of Our Many Areas of Application

- Vibration measurement and structural analysis
 - From planning to evaluation
 - From microscopic to macroscopic structures
 - From 1D to 3D
- Modal test and experimental modal analysis
 - Optimization of structural dynamics and acoustics
 - For model validation
 - Ideal for a bottom-up strategy
 - Determination of local modes and damping
- Operational deflection shapes
- Acoustic quality testing
- Torsional irregularities and order analyses
- Analysis of torsional vibration
- Dynamic displacement measurement
- Dynamic strain studies
- Analysis of microstructures

Further Service Offerings



Contract measurements and engineering services are only one part of our service range.

We offer you comprehensive support for our products, from training and consultation by experts via the maintenance of hardware and software, to repair and calibration. Whatever you desire – you will always receive service at the highest quality level. That's because every customer is very valuable to us.

Seminars & Training Courses

You will receive a deep insight into practical applications at Polytec's Training Sessions, Technology Days, Seminars and User Conferences, and benefit from expert speakers. Our application engineers are more than happy to provide training courses tailored to your specific requirements – at your premises or Polytec's.



Hardware & Software Maintenance

Customer-specific service packages from Polytec help maintain your measurement systems in perfect, current condition for their entire lifetime. Experienced service technicians are available to calibrate, clean and maintain your systems regularly. Thus you can be confident that Polytec products always deliver outstanding performance.



Repair & Calibration

Generally speaking, Polytec's measurement systems are very reliable, and repairs rarely needed. However technicians are immediately available should service be necessary. Take advantage of our calibration service – preventive maintenance is included, reducing the risk of potential failures and repairs.

For contact information see the back cover of this brochure or www.polyxpert-services.com



 **Polytec GmbH
(Germany)**
Polytec-Platz 1-7
76337 Waldbronn
Tel. +49 7243 604-0
info@polytec.de

**Polytec GmbH
(Germany)
Vertriebs- und
Beratungsbüro**
Schwarzschildstraße 1
12489 Berlin
Tel. +49 30 6392-5140

 **Polytec, Inc.
(USA)**
North American
Headquarters
16400 Bake Parkway
Suites 150 & 200
Irvine, CA 92618
Tel. +1 949 943-3033
info@polytec.com

Central Office
1046 Baker Road
Dexter, MI 48130
Tel. +1 734 253-9428

East Coast Office
25 South Street, Suite A
Hopkinton, MA 01748
Tel. +1 508 417-1040

 **Polytec Ltd.
(Great Britain)**
Lambda House
Batford Mill
Harpenden, Herts AL5 5BZ
Tel. +44 1582 711670
info@polytec-ltd.co.uk

 **Polytec France S.A.S.**
Bâtiment Orion – 1^{er} étage
39, rue Louveau
92320 Châtillon
Tel. +33 1 496569-00
info@polytec.fr

 **Polytec Japan**
Arena Tower, 13th floor
3-1-9, Shinyokohama
Kohoku-ku, Yokohama-shi
Kanagawa 222-0033
Tel. +81 45 478-6980
info@polytec.co.jp

 **Polytec South-East Asia
Pte Ltd**
Blk 4010 Ang Mo Kio Ave 10
#06-06 TechPlace 1
Singapore 569626
Tel. +65 64510886
info@polytec-sea.com

 **Polytec China Ltd.**
Room 1026, Hanwei Plaza
No. 7 Guanghua Road
Chaoyang District
100004 Beijing
Tel. +86 10 65682591
info-cn@polytec.com