



Dimensional Metrology IberPrecis S.L.



We guarantee the quality of your products



**Business
Partner**



About us

Within the industrial environment and the existing high competition in the market, today it is necessary more than ever to control the production process in order to improve them. Traceability and quality assurance are the right procedure for this improvement.

Through our Laboratory Metrology we offer companies services of measuring and verification for semi-finished components as well as for finished components. So you can guarantee that your products are manufactured according to the requisitions of your clients.

At IberPrecis, we work in close collaboration with our clients, thus increasing the value of their products and contributing to the success of their operations.



We assure through:

Experience in quality assurance since 1960.

Suitable measuring systems for any production process.

Calibrated measuring instruments from accredited laboratories.

Qualified and **AUKOM.e.V.** – certify personnel.

Validated processes of measuring and quality assurance systems.

Suitable equipment and ambient temperature conditions.

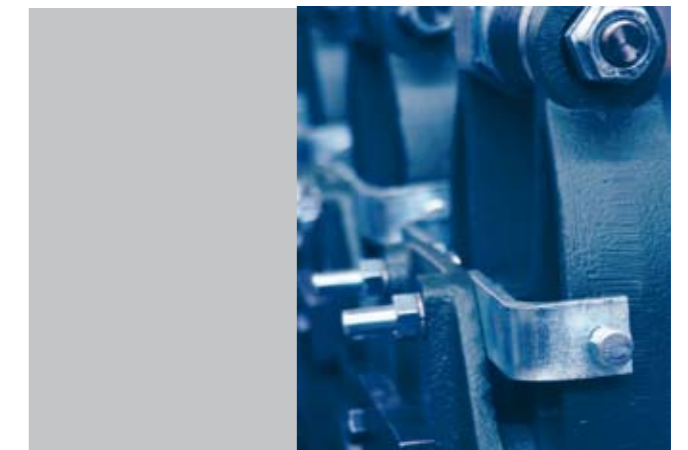
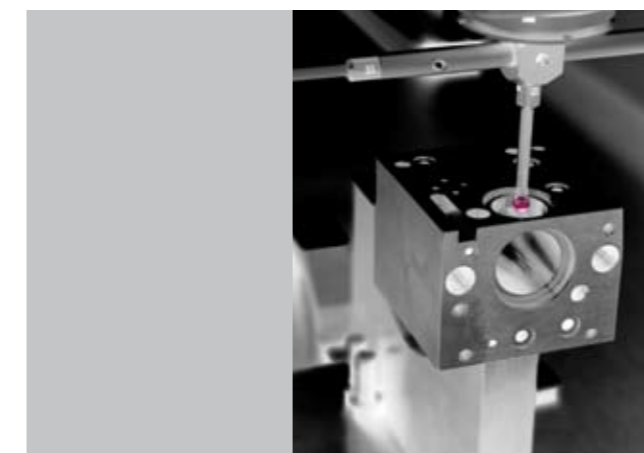
Settlements with the most important producers of the industrial sector.



Our Services of Metrology

By using state of the art technologies and certified systems for traceability, we can offer the following services:

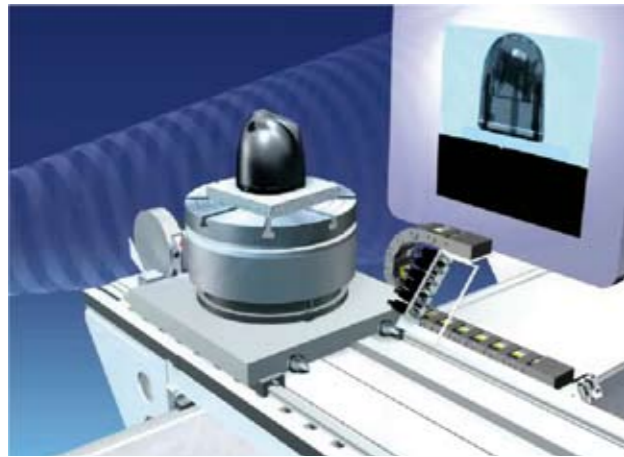
- 1 **Metrotomography®:** By adapting the tomography to industrial metrology and with the technical support from Carl Zeiss, we can offer the following services:
 - **Non-destructive measuring:** Inspection and visualization of interior structures. Used software: VGStudio MAX (Software of Volume Graphics)
 - **Traditional non-destructive metrology of interior geometries of components:** Complete data records of components in plastic and light metals. Used software: Calypso (Software of Carl Zeiss), VGStudio MAX (Software of Volume Graphics)
 - **Reverse Engineering.**
- 2 **Tactile measuring:** For all kind of prismatic components and turning workpieces in steel, stainless steel, metal alloys, plastic and other materials.
 - **Customized data records.**
 - **Measuring programs** for CMM machines with Calypso (Software of Carl Zeiss).
- 3 **Measuring** of other characteristics such as: rugosity and hardness.
- 4 **Drawings of CAD 3D** models coming from 2D drawings.
- 5 **Consulting and training:** Preparation for ISO-Certifications and training in Calypso (Software of Carl Zeiss).



1. Services of Metrotomography®

What is Metrotomography®?

An innovative technology adapted to industrial metrology, capable of providing information of the interior as well as the exterior structure of physical entities by x-ray technology. As the name indicates Metrology and Tomography in one.



What benefits can it provide?

- **Optimizing the design of moulds.** Thanks to the adjustment of the tools by the use of tomography, it is no longer necessary to select components and measure through visual and tactile measurement.
- **50%** less adjustments of moulds through real tangible and precise values.
- **100%** of information and quality: from the first unit to the prototype, with complete data records even of interior geometries, through out all the process of design.
- **Optimizing the process of induction.** Through porosity analysis of the first samples, vital parameters of induction can be optimized.
- **Optimizing design and development of assemblies.** Thanks to the internal visualization of assembled components and the measurement of interior structures, costly processes of design can be reduced.
- **Problem solving.** Through non-destructive measuring a 100% visualization and inspection of weld seams and assemblies in the housing interior is possible.
- **Savings in measurement of components, which are complex and costly to measure.** CNC programming of measurements, which up to now were very time consuming.

Finally, at **Iber PreciS** we offer through **Metrotomography®** the following services:

Non-destructive tests:

- Porosity analysis.
- Damage analysis.
- Inspection of differences in material.
- Assembly inspection.

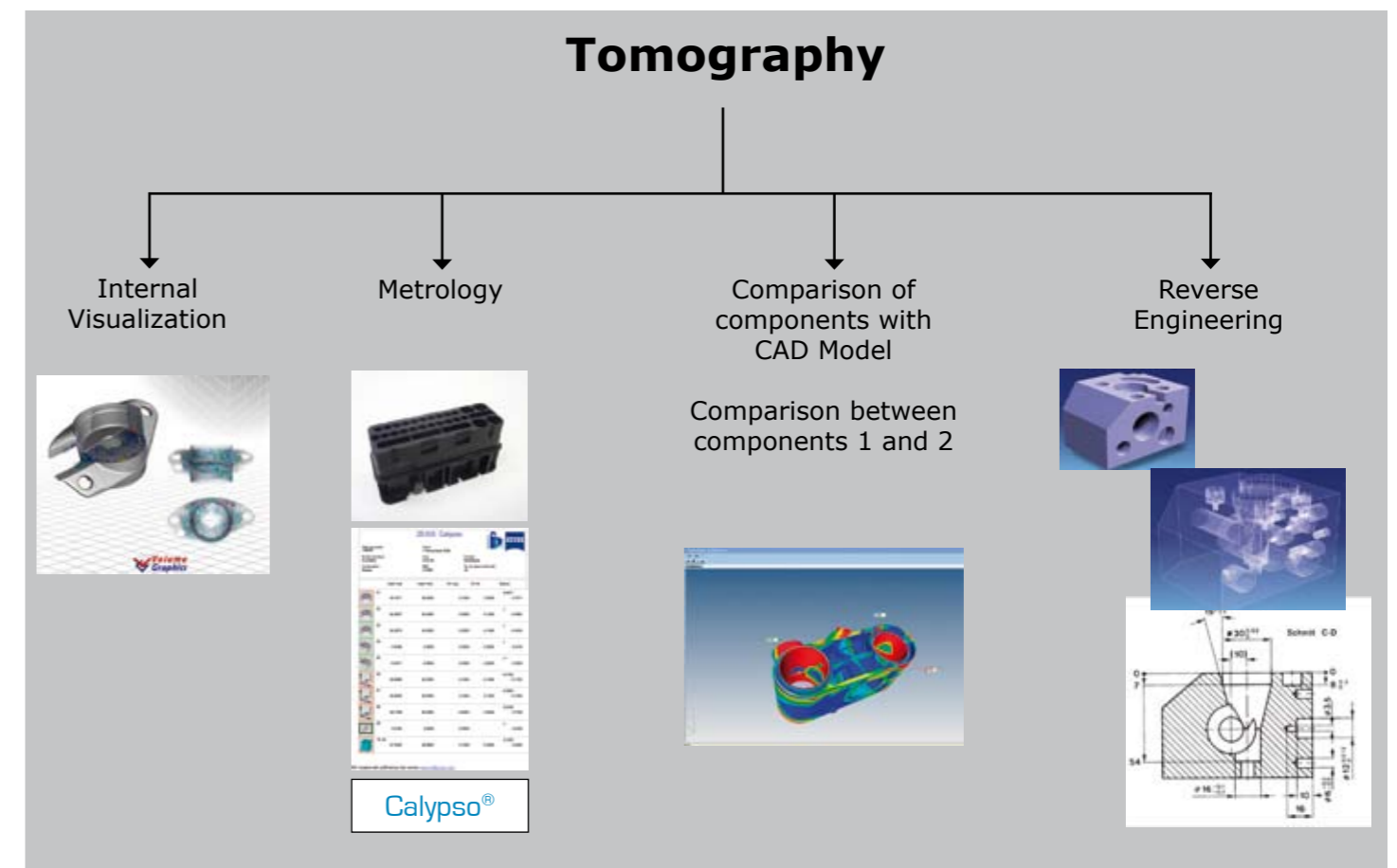
Non-destructive traditional Metrology:

Complete data record of exterior as well as interior geometries of components.

Comparison of real component with:

- CAD model: nominal/actual
- Components of different cavities: actual/actual.

Reverse Engineering.

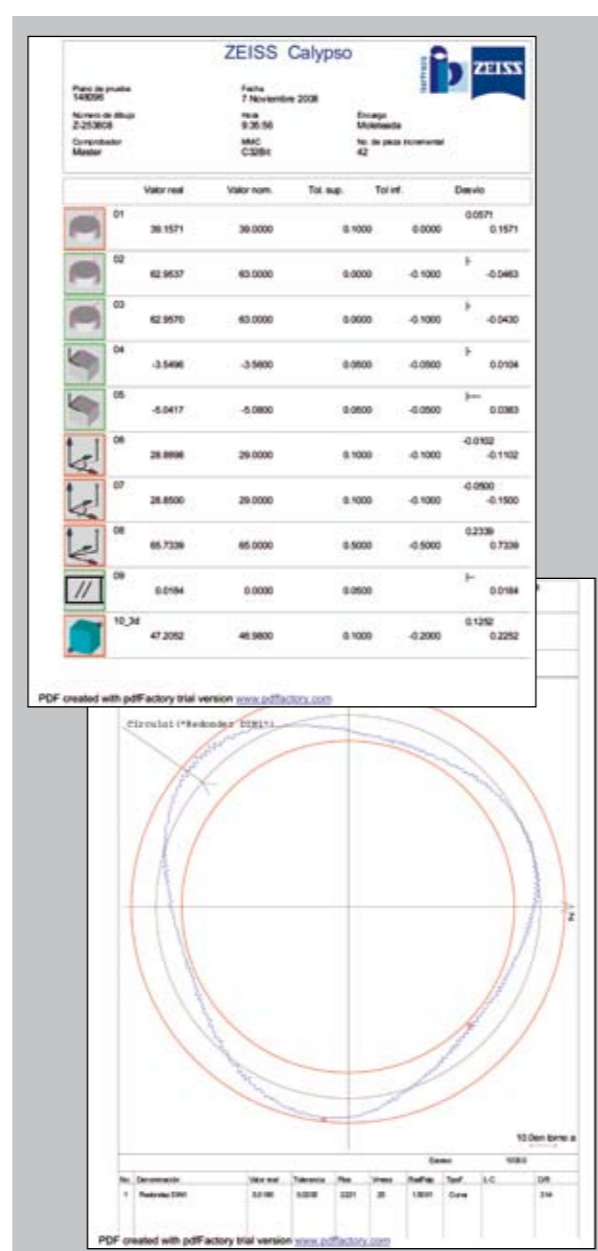




2. Services for tactile measuring

For all kind of prismatic components and turning workpieces in steel, stainless steel, metal alloys, plastic and other materials.

- **Customized data records.**
- **Measuring programs** for CMM machines with Calypso (Software of Carl Zeiss).



3. Measurement of rugosity and hardness

Measurement of hardness HB, HR, HV of mechanized, thermally treated and not treated components.

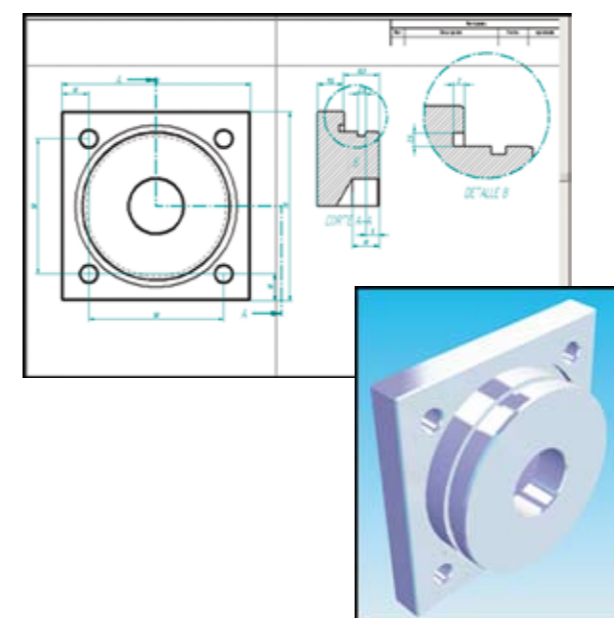
Measurement of hardness of soft metals in ShA unities.

Measurement of surface rugosity Ra, Rz, Rt, Rq, Ry.



4. Drawings of CAD 3D

Conversion of 2D drawings into 3D



5. Consulting

Design and implementation of operating systems for quality following international standards.

Certification of products.

Training in Calypso (Software of Carl Zeiss).

Consulting in software programs for the handling of Tomographies.



Equipment

CMM –Machines for measuring, vertical columns, surface roughness tester, hardness tester, profile projectors and state of the art software for metrology ensure the highest quality in our results.



Software	EN 9100:2003 ISO 9001:2008	Measuring and Precision equipment
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| <ul style="list-style-type: none"> • Calypso • VGStudio MAX • Visi | <ul style="list-style-type: none"> 1 Industrial Engineer 1 Quality Controller 2 technicals | <ul style="list-style-type: none"> 1 CMM CONTURA G2 1 CMM brown&sharpe (400x500x300) 3 Vertical column (TRIMOS, TESA, MANSER) 2 Surface Roughness tester HOMMEL 2 Hardness tester (Rockwell, Brinell 3000K) 1 Hardness tester (BAXLO Shore A) 2 Profile Projector MITUTOYO 1 Electromagnetic Crack Detection Test Bench |
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