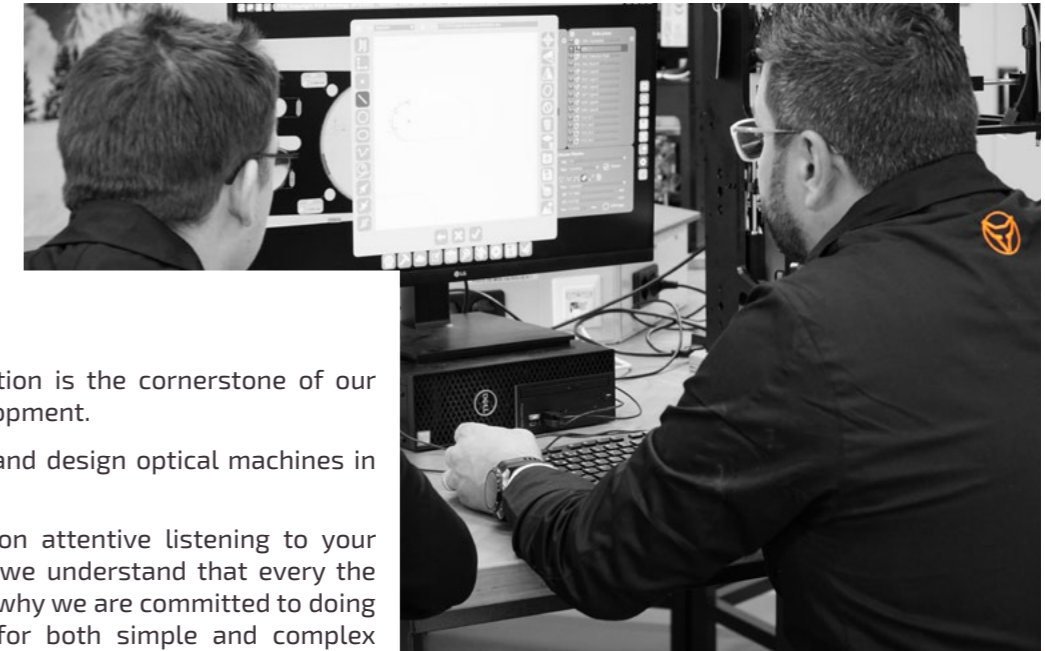




Presentation FOX optical cmm and software

April 2024

Fox Metrology presentation



Who we are

At FOX Metrology, innovation is the cornerstone of our approach to product development.

We are proud to develop and design optical machines in Europe.

Our philosophy is based on attentive listening to your needs. At FOX Metrology, we understand that every the company is unique. This is why we are committed to doing our accessible solutions for both simple and complex applications.

Our R&D team listens to the market to ensure that our the machines perfectly meet your needs.

Our values



Innovation

Our team constantly monitors the needs of manufacturers to innovate and develop adapted solutions.



Design

Fox Metrology machines are designed in France. Our production site is in Seine Maritime.



Proximity

With a dedicated structure and 2 sites in France, we pride ourselves on providing answers to our customers before sales or after sales.



Quality

Quality is at the heart of our employees. Our customers can carry out their inspections with complete peace of mind.

FOX 0xx RANGE

Compact, modern and innovative!

The FOX 0xx range is made up of 3 machines offering you different measurement possibilities. This allows us to offer you the machine best suited to your control needs.

These full-field measuring machines are ideal for checking watchmaking, medical parts or all other industries.



A cockpit integrated into the machine

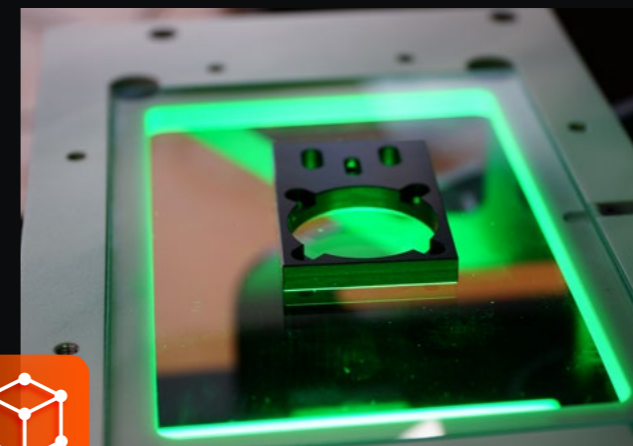
12" touch screen

The FOX machine cockpit allows you to launch programs, delete the last measured part in the event of an error and analyze the data and statistics of your parts on a single interface. You can also view your measurement report.



Camera & optics

The FOX 0xx range of machines integrates a 20 Mpx camera associated with telecentric optics technology. This association allows you to visualize your parts with a great depth of field. This technology will offer you exceptional comfort in using the machine for your 2D measurements.



Measurement table

The entire FOX 0xx range offers a motorized Z table with a capacity of 50mm.

The FOX 036 and FOX 016 machines have a measuring capacity of 150 x 100 mm in XY.

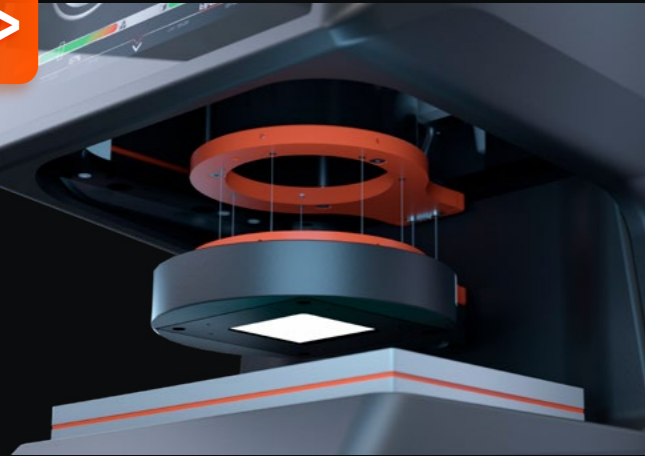
The FOX 080, for its part, allows you to measure over a capacity of 150mm in X.



Quick Light system

All FOX 0xx machines have in option of **interchangeable lights**. With these systems, you can measure all your parts on a single machine.

Thus, you move from diascopic lighting to solutions offering great versatility with **annular, sectoral, adjustable or even coaxial type lighting**.



Choice your lighting



Angular



Flat Dome



Low angle

Confocal sensor option



The chromatic confocal option is only available on FOX 016 and 036 models. This solution allows you to combine your 2D optical measurements with Z measurements.

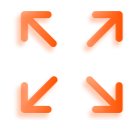
Associating a confocal sensor with your FOX machine allows you to obtain measurements very quickly and on all types of materials (absorbent or colored, diffusive or reflective, raw or polished).

Thanks to FoxTouch software, you can use all your measurements taken with the confocal sensor very quickly and easily, via a dedicated, customised tab.

Comparisons of our machines

FOX 016

Best precision, finest resolution



Measuring capacity

XY table : 150 x 100 mm

Motorized Z-shaped table : 50 mm



Accuracy

+/- 0,6 μm



Depth of field

2 mm

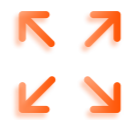


FOV

17 x 11 mm

FOX 036

Incredible compromise



Measuring capacity

XY table : 150 x 100 mm

Motorized Z-shaped table : 50 mm



Accuracy

+/- 0,9 μm



Depth of field

9,6 mm

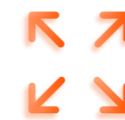


FOV

37 x 24 mm

FOX 080

Largest measuring field



Measuring capacity

X table : 150 mm

Motorized Z table : 50 mm



Accuracy

+/- 3 μm



Depth of field

46 mm



FOV

82 x 54 mm

Confocal sensor

Option for FOX 016 & 036



Accuracy

4mm range : +/- 1 μm

8mm extended range : +/- 2 μm

FOXTouch software

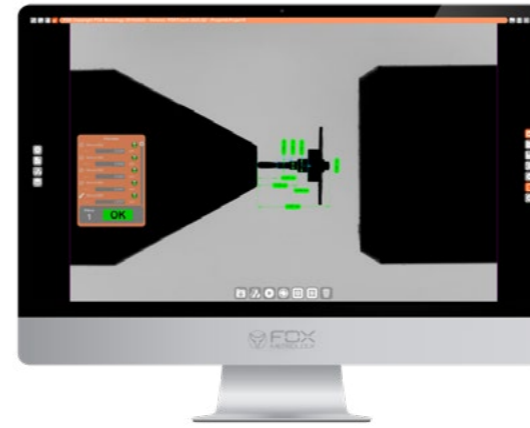
Comprehensive, intuitive software in both manual and automatic modes



FoxTouch software has been developed to meet all your dimensional control needs, from ISO measurements to management of the most complex DXFs.

It can be used on all the machines in the range, in both manual and automatic mode.

The software is simple, intuitive and efficient to use. Customisable measurement reports and statistical reports can be easily created at the click of a button.



Operating mode

The FoxTouch software in operating mode allows you to measure a part or a batch of parts from a previously created program. This way, you will be able to see the conformity of your products according to the tolerances applied, and produce a part or batch report, according to your needs. This mode also allows the execution of the program in different contexts such as single or multi-part measurement, palletizing, etc...



DXF Comparison

We offer a high-performance solution in the management and use of DXF. Indeed, you can fully exploit your DXF, both in manual mode for a simple comparison, and in automatic mode to allow you to measure shape deviations in constrained or completely free form mode, according to the ISO criteria imposed on your plans.



Multi-pieces mode

FoxTouch software is capable of analyzing the presence of several parts in the field of vision. Thus, the system will recognize the number of parts corresponding to your program and will execute it on each of them automatically, without adding any particular programming.



Inspection mode

FoxTouch software also includes all vision inspection and image analysis tools, allowing advanced use of the software. This mode will allow you to perform fault analyses, absence/presence checks and much more because the tool integrates the entire Halcon library.



FOX
METROLOGY