



Automatic machine for dimensional inspection of screws
for dental implants

**100% inspection of dental implant
screws and turned components with
diameter up to 3 mm and
length up to 12 mm**

X5 FLOW



X5 Flow is the automated solution designed for the complete control of dental implant screws and turned components with diameters up to 3 mm and lengths up to 12 mm. Upon request, the machine can be configured to handle different dimensions, according to specific customer requirements.

Thanks to the **CaSca patented loading-unloading system**, X5 Flow ensures a fully automated and reliable handling process, even for small and delicate parts.

The **VICIVISION MTL-X5 optical measuring machine** is the heart of the system, which performs high-precision, non-contact dimensional and geometric controls, while preserving part integrity during the whole measuring cycle.

The **patented spindle with a measuring key (GO gauge)** allows the inspection of the socket depth, and integrates an automatic part unsticking mechanism to ensure an uninterrupted flow of measurements.

The **custom-made high performance feeder** uses pre-selection to eliminate screws with chips or dirt, a singularisation unit and pneumatic transport. These systems ensure a constant flow to the measuring station.

	Measuring field	Max loadable sizes	Accuracy Ø - L	Repeatability Ø - L
X5 FLOW	up to 3 x 12 mm	3 x 12 mm	$1,5 + D[(mm)/100]] \mu m$ $4 + L[(mm)/100]] \mu m$	0,4 μm / 3 μm

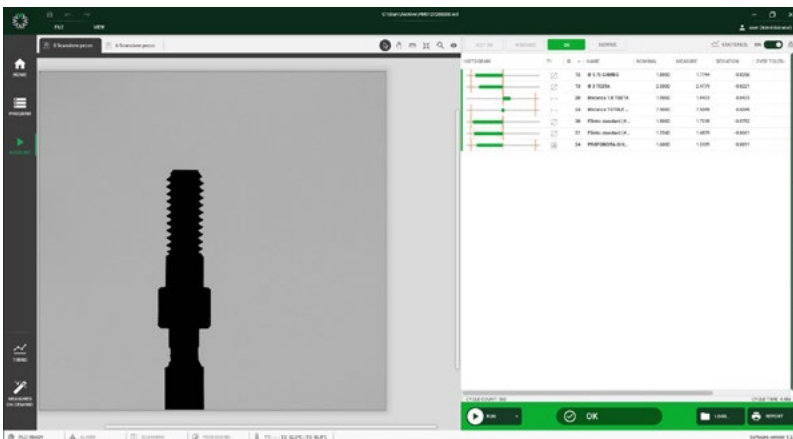


A patented, compact and efficient solution designed to guarantee the highest quality and productivity in medical micro-component inspection



X5 Flow is able to **fully inspect 4 screws per minute**, all within an extremely compact space with a **footprint of less than 1 m²**.

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The digital heart of X5 Flow is an **intuitive and configurable management software** developed to simplify all the inspection steps.

The graphical interface guides the operator through the measurement program and displays measurement results and pass/fail statistics.

With its diagnostic and reporting features, **X5 Flow provides full traceability and control over every single screw being produced.**