



MARPOSS



**WILLRICH PRECISION
I N S T R U M E N T**
THINK MEASUREMENT... THINK WILLRICH

Ph 866-945-5742 email:sales@willrich.com

BIOMEDICAL TEST, MEASURE & INSPECTION

IMPLANTS



- ORTHOPEDIC IMPLANT INSPECTION
- IMPLANTARY SCREWS TESTING
- COMPLEX IMPLANT ASSEMBLY AUTOMATION
- THREAD MEASUREMENTS



DENTAL IMPLANTS

ORTHOPEDIC SCREWS

OTHER IMPLANTS



DIMENSIONAL TEST

OPTICAL TECHNOLOGY

OPTICAL TECHNOLOGY

CHROMATIC CONFOCAL
SENSORS

FUNCTIONAL TEST

THREAD GAUGES

THREAD GAUGES

THREAD GAUGES

AUTOMATIC PROCESS

IMPLANTS QUALITY GATE

IMPLANTS QUALITY GATE

TOOL PROCESS MONITORING

MACHINE AND
PART MONITORING
SOLUTIONS

MACHINE AND
PART MONITORING
SOLUTIONS

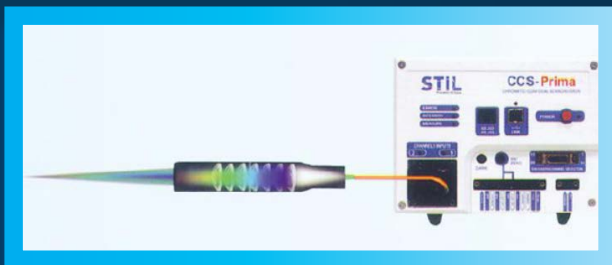
MACHINE AND
PART MONITORING
SOLUTIONS

DIMENSIONAL TEST



OPTICAL TECHNOLOGY

Optical inspection is winning for orthopedic screws, as it enables a large number of quality controls on the same part. OPTO high-resolution images and optimized algorithms are able to inspect, over 360°, thread external, pitch diameter & size, profile angle, thread total length, linearity and concentricity.



CONFOCAL SENSORS

Confocal sensor in order to detect manufacturing defects as well as serious structural defects (profile errors) or scratches.

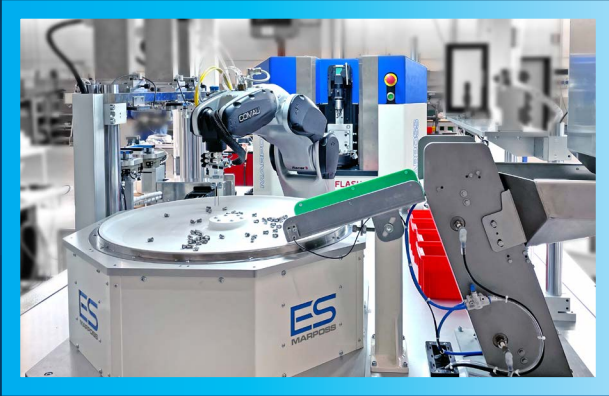
FUNCTIONAL TEST



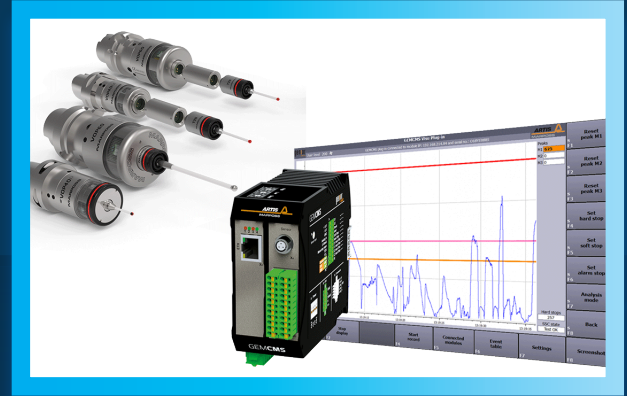
FUNCTIONAL INSPECTION OF EXTERNAL AND INTERNAL THREADS IN ORTHOPAEDIC PRODUCTS

They are used for gauging external and internal threads. They perform a comprehensive check of thread profile including mean diameter, angle of thread and pitch errors. This ensures the coupling of external and internal threads for medical implants and orthopedic screws.

AUTOMATIC PROCESS



TOOL PROCESS MONITORING



IMPLANTS QUALITY GATE

The quality requested in the biomedical sector imposes a severe monitoring of the manufacturing. The capacity for high volumes must be matched by the assurance of full quality.

Our solution offers not only dimensional gauging, but also functional testing of screws and nails for implantology.

MONITORING SOLUTIONS

For the machining of medical implants, Marposs Mida line provides fast and accurate measurement solutions for the large quantities of medical device processing featuring part probing and tool setting systems. ARTIS GEMCPU GENIOR tool and process monitoring systems provide real time tool breakage, tool wear and tool missing detection. GEMCMS machine protection system reliably detects collisions and crashes and can stop the relevant drives immediately, preventing damages and machine downtime. In doing so, it ensures the proper operation and high quality of medical implant process line.



MEASUREMENT, INSPECTION AND TEST FOR QUALITY AND PROCESS CONTROL



worldwide present in

34
countries

offices worldwide

80

exports

94%

approx.

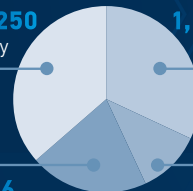
3,500
employees

1,250

Italy

826

Europe



1,027

Asia

325

Americas

28

key acquisitions since 2000

8%

resources invested in R&D

Marposs was founded in 1952 and since then has provided shop-floor solutions for the quality control in the production environment. Marposs' solutions include gauging equipment of mechanical components, before, during, and after the production process, monitoring solutions on machine tools, assembly, and testing systems, automatic machines, and checking stations for production lines.

Marposs is one of the main suppliers of the top automotive manufacturers, but operates as well in the aerospace, biomedical, hi-tech, and glass industries.

Marposs Group's employees are more than 3500, located around the world, with presence in thirty-four countries with more than eighty sales offices.



**WILLRICH PRECISION
INSTRUMENT**
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