

MARPOSS

AUTOMATIC CELL
FOR QUALITY
CONTROL OF
INTERNAL AND
EXTERNAL
FEATURES OF
DENTAL IMPLANTS





An automatic fully integrated system for quality control of dental implant components. The system performs high precision dimensional measurements and functional tests on screws and implant components, ensuring consistent reliability throughout the production process. An anthropomorphic robot manages the handling of components between stations, guaranteeing continuity, repeatability, and outstanding productivity.

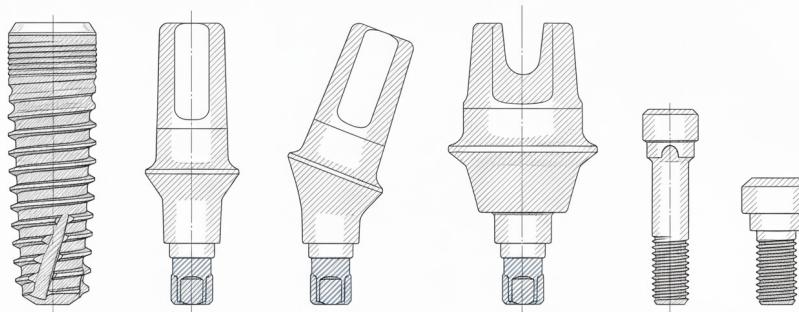
MAIN CHARACTERISTICS

- Fully automatic system
- High flexibility to process different types of components
- Micrometric precision in non contact internal and external dimensional measurements
- Extremely short inspection time
- Complete traceability
- Intelligent scrap management
- Modular stations that can be enabled or disabled via recipe
- Efficient and intuitive recipe creation and management
- Optional integration with MES/ERP systems

DATA SHEET

| | |
|-----------------|-----------------------|
| CYCLE RATE | ≈15s |
| EFFICIENCY | 95% |
| PRODUCTION RATE | ≈240 components/h |
| SIZE (hld) | 2100 x 2000 x 1500 mm |

COMPONENT CATEGORIES



IMPLANT SCREW

CONNECTION SCREW

COVER SCREW

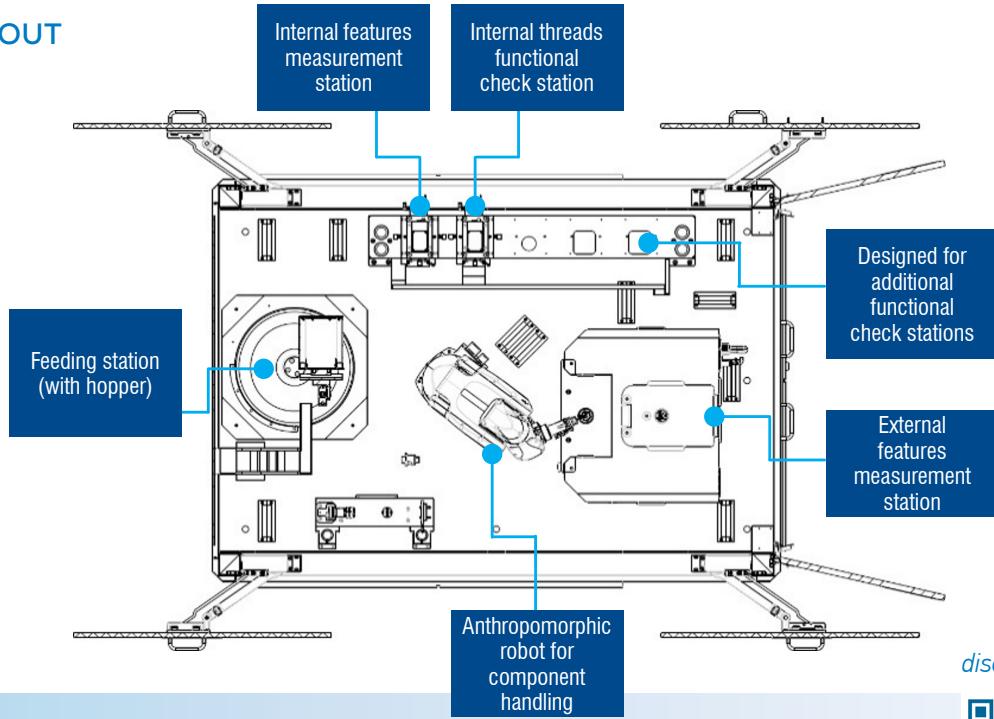
HEALING ABUTMENT

ABUTMENT (STRAIGHT/ANGLED)

MUA (STRAIGHT/ANGLED)

Our highly flexible system, combined with a comprehensive set of measurement stations, enables thorough inspection across a wide variety of components with different geometries and profiles. Each part is inspected through micrometric precision measurements that verify all critical features: diameters, chamfers, lengths, hex shapes, tapers, and threads, both external and internal.

MACHINE LAYOUT



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