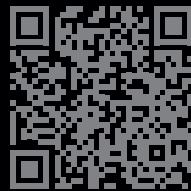




Headquartered in Izmir/Turkey,
twinMAC shows a multi-cultural and
a multi-lingual structure. twinMAC has teams of
software engineers for developing CAD/CAM systems &
robotic integrations, teams of mechanical / mechatronics
engineers for industrial-grade machine manufacturing.
Operated by dentists & dental technicians, twinMAC brings
digital industry and modern dentistry together with this
trans-disciplinary expertise and makes it available for
all dental professionals worldwide.



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EN

twinMAC T50 MACHINA AETERNA

START
THE
ENGINE



Created for eternity...
For infinite reality.

2024.11.25

| | | T50 | | T50 w | | T50 WM | |
|---------------------------|-------------------------------|------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------|--|
| KINEMATICS | Number of Axis | 5-axis | | 5-axis | | 5-axis | |
| | Machining Type | 5 axis, simultaneous machining | | 5 axis, simultaneous machining | | 5 axis, simultaneous machining | |
| | Axis Drives | AC-Servo motors, absolute multi-turn (with 23-Bit absolute encoders) | | AC-Servo motors, absolute multi-turn (with 23-Bit absolute encoders) | | AC-Servo motors, absolute multi-turn (with 23-Bit absolute encoders) | |
| | Motor Connections | Direct: No pulley-belt mechanisms | | Direct: No pulley-belt mechanisms | | Direct: No pulley-belt mechanisms | |
| | X-axis | 400 Watt | | 400 Watt | | 400 Watt | |
| | Y-axis | 400 Watt | | 400 Watt | | 400 Watt | |
| | Z-axis | 400 Watt | | 400 Watt | | 400 Watt | |
| | A-axis | 200 Watt | | 200 Watt | | 200 Watt | |
| | B-axis | 400 Watt | | 400 Watt | | 400 Watt | |
| | Rotary Axis (Simultaneous) | A-axis: | +30°, +30° | | A-axis: | +30°, +30° | |
| | | B-axis: | +23°, -23° | | B-axis: | +23°, -23° | |
| Rotary Axis (Continuous) | A-axis: | 360° | | A-axis: | 360° | | |
| | B-axis: | 46° | | B-axis: | 46° | | |
| MILLING | Milling Mode | Dry | | Dry & Wet | | Dry & Wet | |
| | Spindle | DC Spindle - 60.000 RPM / 640 W | | DC Spindle - 80.000 RPM / 1400 W | | DC Spindle - 80.000 RPM / 3700 W | |
| | Spindle Cooling Unit | Not required | | Not required | | Not required | |
| | Tool Fitting | 3 mm and 4 mm shank | | 4 mm and 6 mm shank | | 4 mm and 6 mm shank | |
| | Tool Changer | 10-fold, direct-clamping | | 10-fold, direct-clamping | | 10-fold, direct-clamping | |
| CONNECTIVITY & CONTROLLER | Controller | Controller & Controller Management by twinMAC (Industrial grade CNC controller software) | | Controller & Controller Management by twinMAC (Industrial grade CNC controller software) | | Controller & Controller Management by twinMAC (Industrial grade CNC controller software) | |
| | Remote TeamViewer™ Connection | Yes | | Yes | | Yes | |
| | Industry 4.0 | Image-processing via camera connection and data analysis | | | | | |
| | HMI | 13.3" HDMI LCD touch-screen, Full-HD | | | | | |
| | Logs & Reporting | Controller & Controller Management by twinMAC | | | | | |
| | LAN Connectivity | Publisher by twinMAC (Windows® app under dev.) | | | | | |
| | WAN Connectivity | Mobile and/or desktop remote access through twinMAC Platform® (Under dev.) | | | | | |
| DENTAL MATERIALS | Materials | Zirconia, PMMA, composites, polymers, wax, PEEK, | | Zirconia, PMMA, composites, polymers, wax, PEEK, hybrid- ceramics, titanium | | Zirconia, PMMA, composites, polymers, wax, PEEK, hybrid- ceramics, titanium CoCr | |
| | Material Geometries | 98 mm / 98.5 mm disc blanks, prismatic blanks with metal-mandrel | | 98 mm / 98.5 mm disc blanks, pre-milled bar blanks, prismatic blanks with metal-mandrel | | 98 mm / 98.5 mm disc blanks, pre-milled bar blanks, prismatic blanks with metal-mandrel | |
| | Material Holders | C-Holder for Ø98.5 disc milling, Ceramic Holder | | C-Holder for Ø98.5 disc milling, Premill Holder (2 bars), Ceramic Holder (2 blocks) | | C-Holder for Ø98.5 disc milling, Premill Holder (2 bars), Ceramic Holder (2 blocks) | |

MILL 2WIN



World’s Fastest Controller, World’s Fastest Machine

100% developed by twinMAC software engineers, twinMAC provides industrial grade CNC Controller solution to dental professionals. Powered by an industrial-PC, unparalleled power / speed and precision is available for the first time for dental professionals... START THE ENGINE.

Best Kinematics and Mechatronics

There are only direct motor connections on all linear and non-linear motions systems: No indirect pulley-belt mechanisms. Plus, there are no stepper motors of any kind. There are only AC Servo Absolute Multi-Turn motors that give motion to the “machine”.

Remote Connection... Anywhere, Anytime

TeamViewer™ connection is available at all twinMAC milling-machines – No need for 3rd party integrations, add-ins or plug-ins.

twinMAC: Machines In The Service Of Industry 4.0

Logs, reports and KPIs are a natural and an integral part of the twinMAC’s milling-machine solutions. Including industrial grade image-processing, there are many technologies brought by Industry 4.0 inside twinMAC’s Controller software.

Material Ecology: Faster and Easier Dentistry

twinMAC solutions are designed to machine digitally engineered materials for, with, and by the nature of single-visit-dentistry. Proprietary materials (like fully-sintered cubic zirconia) can be machined in-house to enable “one-step” prosthetic restorations: No thermal post-processing and almost no shade/color based post-characterization.

