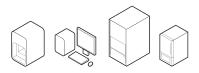






DIGITAL WORKFLOW THE FUTURE IS NOW

CAD/CAM Systems support and management project

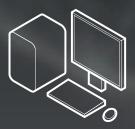


Digital workflow how to navigate and how to develop quality



Scanning

Ensuring the best starting point for quality and repeatability.



CAD/CAM

Easy and quick file management in and outside the laboratory.





Milling

Providing the best output for all processing required by the laboratory.



Sintering

Ensuring the optimum level of finish for specific processes.



Evolving to develop opportunities

The profession of dental technician has always been linked to the manual skill and training of individual technicians. In recent years, it has started to completely change thanks to new digital technologies. Digitization, virtualisation and CAD/CAM systems are the new tools, the new language of dental technicians. At the dawn of the fourth industrial revolution, there are great opportunities to be seized for anyone who is able to intuit and master change.

Digital Workflow Tecno-Gaz Flexibility and integration



Scanning



TecnoScan Pro

Meant for high precision implantology. Supplied with configured workstation and Exocad Software.

Software CAD/CAM



ExoCad

The CAD software is simple, intuitive and functional! Ideal for modeling a small size crown or more complex implant structures.

MillBox -HyperDent

CAM software perfectly optimised with the Tecno-Gaz milling flow.

What is needed?



Accuracy, repeatability, acquisition speed and open formats

Ð

Ease of use, upstream and downstream integration, complete flow

Services and support

🞓 Tecno-Gaz Academy Applied training center



Top quality for crucial flow stages



Milling machines

A6 Range

Compact Dental Machine milling machines. No compromise. Superior quality and reliability. Medium volumes



C5 Range

Ideal for zirconia and glassceramics, as well as titanium and cobalt-chrome. Excellent metal milling performance. Medium to high volumes with the possibility of processing metals.

G5

Optimal for implant-retained dentures and custom abutments. Maximum flexibility for high volumes.

Reliability, accuracy, repeatability and return on investment





Sintering



TecnoSint

TecnoSint Sintering furnace for latest generation zirconia.



MV-R

Sintering furnace. Max. temperature 1650°C. 8 min to 1500°C

Services and support

Tecno-Gaz Academy Applied training center

TecnoScan Pro. The professional scanner.

Tecno-Gaz presents the most accurate scanner Imetric has ever built.

TecnoScan PRO integrates the latest technologies to achieve fast, highresolution scanning with maximum accuracy. It is suitable for small and large production facilities that require the best data quality and accuracy for multiimplant structures and confidence in the repeatability of results. 10 1

Imetric projector. Maximum control, ultra-fast acquisition. Superior in every respect.

PetricsD

lecnoScan PRO

t 🗟 🎗 🖉 Imetric

TecnoScan Pro. Simply superior.

The best choice for scanning dental models and impressions

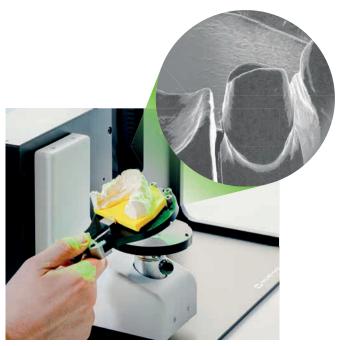
The best shooting technology for quality and speed



Special clamping for impressions

The optimised function for impressions means that plastic models are no longer required.

Simply place the impression tray inside the scanner and scan. It really is as simple as that! It is also possible to fix a Toronto prosthesis or a removable prosthesis for double-sided scanning and digitise it in seconds. The scanner is able to parameterise the acquired data with the reference points in order to obtain an even more precise and accurate scan.



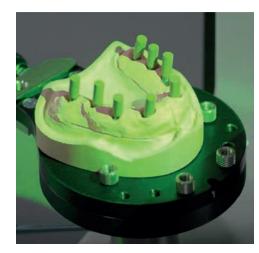
Green scanning light

An exclusive choice that cancels out all light interference in the room, ensuring a perfect scan.



Rapid arch scanning

Any type of articulator available on the market can be used in the scanner, for rapid scanning of the two arches in articulation.



Clarification

1µm Accuracy/Repeatability: measurement reproducibility.

3μm Accuracy: closeness of the measurement to the 'real' value.

2µm Resolution: the smallest detail that the scanner can detect.

2µm Noise







Precise.

not accurate



Not precise and not accurate Accurate, not precise

Precise and accurate

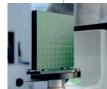
5µm



Automatic calibration

Calibration through the scanning of markers applied to a special carbon plate for excellent precision.







The sensor constantly

Thermal calibration

monitors the inside temperature and compares it with the calibration temperature detected. If the difference exceeds 5 °C, the scanner asks for a new calibration to minimise the possibility of error due to expansion or retraction of the scanner unit.



Quick scan



Scanning: 15" (approx.)

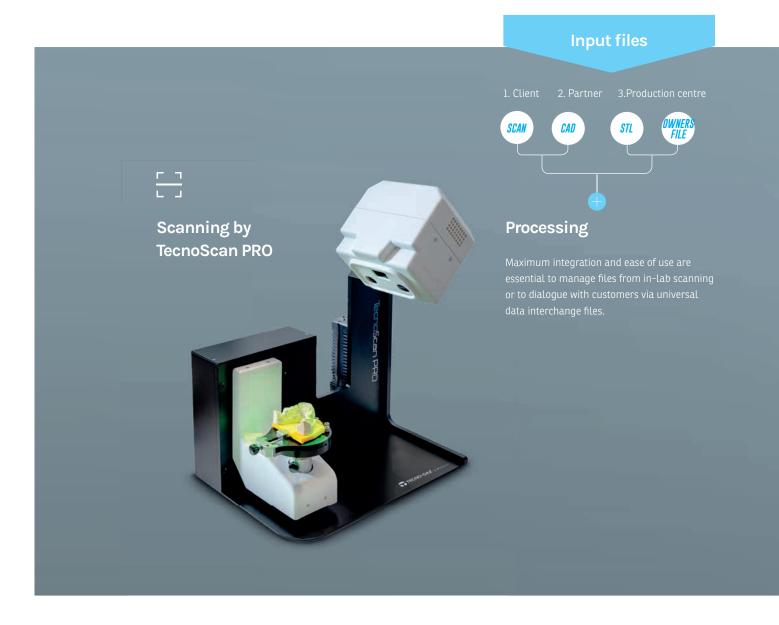


Constant re-verification of heat differential

Imetric's scan body alignment software ensures 5 µm repositioning accuracy of the scan body.

Digital Workflow | CAD/CAM Systems 9

Software Cad/Cam Tecno-Gaz



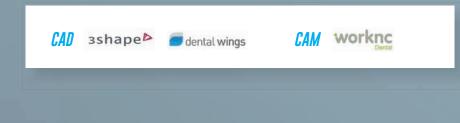
The speed and flexibility of our software has been achieved by taking advantage of the latest research findings in the field of dental modelling.

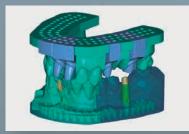
- Accuracy that provides far greater flexibility in job design
- Automatic processing control
- Link to implant geometry libraries
- Fully digital production





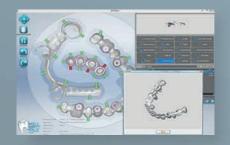
Compatible with all software





exoCAD

efficient when dealing with complex



MillBox CAM

user interface, it simplifies the process

Worknc Dental CAD/CAM

state-of-the-art technology.



HyperDENT[®] CAM

be used in different parts of the dental



Full dentiti











Natural theet library



exoCAD. All the functions you are looking for, continuously updated.

Tecno-Gaz offers two excellent CAM software packages that are perfectly optimised to make the most of our milling machines. Featuring a simple yet innovative and attractive user interface, it simplifies the process of creating tooling paths. It incorporates efficient milling cycles derived from the industrial sector, giving a system with maximum stability and quality.

Milling machines Tecno-Gaz by Dental Machine

Choose your milling machine. Create your digital workflow.



An open workflow which can grow with you.

This concept is the basis of the whole qualitative line which is subsequently followed for every manufactured product. For the creation of lines of milling machines, Tecno-Gaz aimed at simple, practical and innovative concepts. All these characteristics reflect every structural detail of this extraordinary range of products.



Metal milling

- Jäger spindle
- Brushless motors
- Heavy rigid frames
- Absolute encoders

G5

(+)

Implantology

- Jäger spindle
- Brushless motors
- Heavy rigid frames
- Absolute encoders
- Optical line
- Granite structure

Soft materials

- Jäger spindle
- Brushless motors
- Wet and dry
- 5 axis for emax
- K5 loader for new A6 line allows continuous milling of 20 to 30 blocs.



A6 PLUS/EVO WITH WETSMART

Pre

TITANIUM AND CHROME-COBALT PREMILLED

Perfect integration with your customers thanks to open, universal environments and standards.

Ti

TITANIUM

Cr-Co

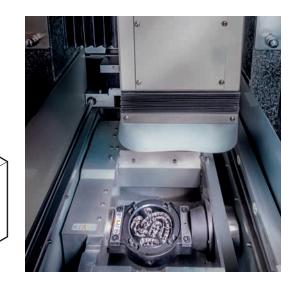
CHROME COBALT

Winning design philosophy

How should the most important machine in your laboratory be built?



For any dental laboratory, the milling machine is the productive centre, the main source of revenue and service and, as a matter of fact, the most important element.



Solidity, durability, precision and efficiency are the key aspects on which Tecno-Gaz/Dental Machine have developed their entire product range.

The fundamental aim pursued by the Tecno-Gaz/Dental Machine is to build all products using the same construction logic, not leaving anything out, even on entry-level machines. This is easy to see on visual inspection.



Dental Machine and metalworking

Extend the working autonomy of your workshop with perfect metalworking.



the field of implant surgery, **as prosthetic work requires perfect metalworking, extending the working remit of laboratories.**

Dental Machine and implantology

For metal milling, the manufacturing requirements listed above are necessary: granite unit, Jäger spindle, brushless motors, threadless screws and automatic tool changer. This technology also enables the laboratory to acquire high-level prosthetic/implant work.

TITANIUM AND CHROME COBALT PREMILLED

CINSL ALL-CERAMICS AND LITHIUM SILICATES

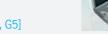
Comp

COMPOSITES

CT-CO

Dental Machine Excellence in its uniqueness

Extend the potential of your laboratory



[A6 Evo, C5 Line, G5]

Servomotors

The rotation movements is much more flowing of the stepper motors and therefore less noisy, but also much less precise in angular movement. The use of bidirectional control electronics (loop system) and sensors (encoders) allow the servo motor to have better performance than a stepper motor.

Greater efficiency, power torque control.

Smooting surface, best details.



Manufacturer recognized for its high quality. The motors have adequate power torque even at low rpm and this represents a great advantage in maintaining the correct rpm without loss of power and ensuring a homogeneous tool rotation.

This guarantees optimal use of the tools and correct milling of the processes.

LongTools life

E

Endless screw

The ball screw is a type of screw that can be considered as an improvement of the standard screw, with respect to which it is more precise and has a much higher efficiency.

- High performance
- High wear resistance
- Significant **axial stiffness and reduction of friction** between the parts in contact.



Heavy rigid frames



The steel structure ensures excellent absorption of movements during milling. Our chassis is oversized to the power expressed during the movements of the motors.

- More stability
- Less vibrations
- Less maintenance
- Durability over time.

High quality of the final results and long-term as all moving parts are not over stressed.





🕨 Wet & Dry

All our milling machines have the possibility of being used dry or wet, according to the material you want to use.

5

Great versatility of use

Machining without constraints on all materials

Tools cone system



Special industrial system tool holders.

- Better absorption of the torque
- Maximum static and dynamic rigidity
- Better and repeatable precision in tool change
- Less tool eccentricity

Best surface of metal milling and tools performance.

Direct connection motors

The direct connection of the motors with the movements of all the 5 axes is a peculiarity of all our production. The use of endless screws with ball recirculation and mechanical motion reducers allows to work with very low error tolerances and this ensures machining with high surface details.

More control of the axes's movements More precision, best details

Absolute Encoder

The absolute encoder provides a uniquely coded numerical value for each mechanical position of the shaft, memorizing the value of the current position and thus avoiding the loss of information in the event of a restart of the machine or a power failure.



More precision in anatomic details Less calibration, best surface, less polishing time

Optical lines* [only for C5 Evo and G5]

It is a digital linear position measurement transducer. The optical line works with the same principle as the optical encoder but while the first is suitable for linear measurements (of elements in translation), the second performs angular measurements (of elements in rotation).

The optical line checks the axis position 1000 times per second and compensates for the thermal expansions present on the axis.

Great respect for the mechanical dimensions of the implant connections

Granite structure* [only for G5]

10

The G5 is the only milling machine for the dental sector to have not only the base but all the 3 Cartesian axes in granite, guaranteeing its precision and stability over time.

- High dimensional stability: material free from internal tensions
- High thermal stability: linear expansion coefficient much lower than that of cast iron and steel
- **High wear resistance** granular matrix that absorbs vibrations and has no high resonant frequency.

Greater precision, stability and durability



A6 Range 5-axis compact milling machines

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Photo Gazzano Lab





Start however you want, but start off great!

A6, the milling machine range to start your digital journey at the top.



A6



A6 Plus



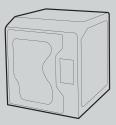
A6 **Evo**





Choose A6 and you're at the heart of a digital ecosystem designed for you!

Maximum productivity, maximum control, maximum sharing. Your A6 is designed to work in an increasingly digital world, with remote access to any function using a simple smartphone, tablet or PC, just as if you were standing next to the machine. These features of the A6 guarantee excellent productivity and safety.





Compact, intelligent design



Built to work hard... using soft materials



Tabletop machine, designed for soft materials



Optimised strategies for continuous 5-axis milling on all materials



High-end mechanical components

Cartesian movements with ground screws and recirculating ball bushings



Super-optimised operation

Automatic 11-position tool changer



Undeniable quality

Jäger high-frequency spindle, 0.4 kW or 0.55 kW and 60,000 rpm for 3 mm tool shank

All the control you need

A6 Range

A model to suit every requirement of the digital laboratory

Enter the digital age as a protagonist

The new A6 Dental Machine range has been designed to meet the needs of dental technicians for a compact milling machine that does not compromise the industrial construction logic that has always made our milling machine models stand out. The unrivalled quality of the materials used, and the latest generation electro/ mechanical components built in, make the A6 a true masterpiece to add to the range.



Everything you need for a great start, and designed to adapt as you do

- 5-axis compact milling system
- 0.4 kW Jäger pneumatic spindle
- Stepper drive motors
- 11 tools with automatic recognition and change
- Complete with Cam
- Dry or wet processing (System available upon request)

• 5-axis compact milling system

For the advanced user

looking for a practical,

effective device

- 0.55 kW Jäger electric spindle
- Stepper drive motors
- 11 tools with automatic recognition and change
- Complete with Cam
- Dry or wet processing (System available upon request)

Power concentrated into

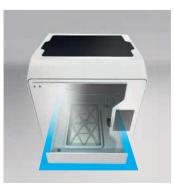
a compact, functional

chassis

- 5-axis compact milling system
- 0.55 kW Jäger electric spindle
- Servo motors with encoders
- 11 tools with automatic recognition and change
- Complete with Cam
- Dry or wet processing supplied

WetSmart lubrication kit

The A6 is designed for the dry milling of soft materials, but the optional WetSmart milling lubrication module can be integrated at a later stage by applying it beneath the milling machine in order to expand the range of workable materials for which a lubrication system is indispensable, such as glass ceramics.





	Plus	nart			Plus	with Lubrification kit WetSmart		
Processing	A6/A6 ^{pus}	A6 ^{Plus} with WetSmart	A6 ^{Evo}	Materials	A6/A6 ^{pus}	A6	A6 ^{Plus}	
Inlay				Zirconia				
Onlay	ŏ			PMMA				
Veneers				PMMA composite				
Crown				PEEK				
Anatomical crown				PU				
Anatomical bridge - cemented				Wax				
Anatomical bridge - screwed				Fibreglass				
Telescopic crown				Pre-sintered Cr-Co				
Bar on implants - cemented				Disilicates				
Bar on implants - screwed				Glass-ceramic				
Secondary bar				Aluminium				
Toronto bridge				Grade 2 Titanium pod				
All-on-4 / All-on-6				Grade 5 Titanium pod				
Ti / Cr-Co abutment				Cr-Co alloy pod				
Ti / Cr-Co hybrid abutment	Ŏ			Pre-milled Titanium				
Abutment from pre-milled material	Ŏ			Pre-milled Cr-Co				
Scan abutment								
Removable prosthetics								
Partially removable prosthetics								
Occlusal Splint / Bite								
Surgical template								

Recommended/suitable

Feasible

Not recommended



Feasible with optional WetSmart kit

C5 Range

Precision and versatility

<u> </u>	
L J	
Precision	00000
Repeatability	$\bigcirc \bigcirc $
Machinable materials	00000
Production volumes	00000

Numerically controlled worktop milling machine with 5-axis continuous interpolation for dry and wet milling

C5 is the medium level milling machines line developed for dental laboratories wanting to take maximum advantage of CAD/CAM technology and obtain a high ROI. Simple to use, numerically controlled worktop milling machine with 5-axis continuous interpolation.



Choose the right milling machine for your needs





C5 Plus

<u><u>G</u>er and <u>a</u></u>

C5 **Evo**









PEEK PEEK

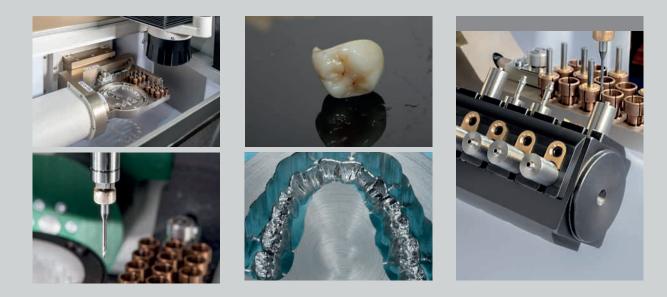








Cr-Co CHBIMO ECOBALD



Jäger

Jäger spindle 3.1 kW - 60.000 rpm

The 3.1-KW electrospindle [C5 Plus - C5 Evo] means that any type of 'hard' material can be worked in any kind of processing. Screw-retained prostheses, abutments, bars, etc. can be milled independently with excellent quality and time scales.

Materials usable

All the pre-sintered metals + soft materials and silicates, as well as thermoplastic materials can be milled. Wax, PMMA, different resins, composite, pre-sintered zirconium dioxide and aluminium oxide, etc. * Version for Premilled available on request

Prosthetic products

- Bridges and Crowns
- Inlays
- Bars and implant bridges through bonding links
- Personalized abutments
- [C5 Plus C5 Evo]
- Premilled
- Bars & Implant Bridge: Rotational Connections [C5 Plus - C5 Evo]
- Abutment: Antirotational Connections [C5 Plus - C5 Evo]

Movements on 2 rotation axes

Movements on 2 rotation axes with brushless motors and low backlash planetary gearboxes. No belt transmissions.

Movement on 3 Cartesian axes

Movement on 3 Cartesian axes by means of ground ball screws, directly controlled by brushless motors and encoders for continuous position control.

Automatic tool changer

16 [C5] or 18 [C5 Plus - C5 Evo] tools with automatic tool changer, using measurement and control technology by means of a very high precision sensor.

C5 Range

A model to suit every requirement of the digital laboratory

C5 represents a complete range of milling machines capable of meeting all dental laboratory requirements. Thanks to continuous interpolation on five axes, C5 milling machines ensure high precision in wet and dry milling. Options such as a more powerful spindle **[C5 Plus]** and optical scales **[C5 Evo]** also enable this model to achieve excellence in dental milling.



C5

- 1 kW 60,000 rpm Jäger spindle
- 16 tools available
- Standard 98.3-mm wafer with rim
- Adapter for blocks and pre-milled (on request)
- Automatic tool changer with 16 tools on board
- Automatic precision tool length measurement
- Tool breakage control
- Aluminium alloy construction (Anticorodal 6082)



C5 Plus

- 3.1 kW 60,000 rpm Jäger spindle
- Liquid cooling with heat exchanger
- 18 tools available
- Standard 098.5-mm wafer with rim
- 098-mm wafer clamping with tailstock system
- Adapter for blocks and pre-milled (on request)
- Automatic tool changer with **18 tools on board**
- Automatic precision tool length measurement
- Tool breakage control
- Aluminium alloy construction (Anticorodal 6082)



C5 Evo

- 3.1 kW 60,000 rpm Jäger spindle
- Liquid cooling with heat exchanger
- 18 tools available
- Standard 098.5-mm wafer with rim
- 098-mm wafer clamping with tailstock system
- Adapter for blocks and pre-milled (on request)
- Automatic tool changer with **18 tools on board**
- Automatic precision tool length measurement
- Tool breakage control
- Aluminium alloy construction (Anticorodal 6082)
- Optical lines



K10. Automatic disc changer

No compromise between work volume and performance.

With the same construction philosophy as our milling machines, we have developed the disk loader system called K10 It was created with a joint quality of electro-pneumatic-mechanical systems. The development is designed to offer maximum ease, flexibility of automatic production, the dental milling machine with automatic disk change expands the production and profits of the laboratory. With an automatic disc changer from 5 to 10 slots, it offers to the users exceptional powerful, efficient and economical dental restoration solutions. (Supplied with 5 discs).

Optimise your work

- Fully Automatic
- 10 disk holders
- Zero Clamping System
- Remote control via mobile App
- Works with all the materials in a single cycle



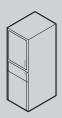


Special K10 holder

Milling machine G5

Maximum quality for high volumes

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Universal milling machine for dental laboratory. 5-axis continuous interpolation for dry and wet milling.

G5 has been specifically developed for the dental laboratory sector comprising many relatively small laboratories. It is a universal machine: it can mill any kind of prosthetic work from any kind of material. Thanks to the 5-axis continuous interpolation, it can produce personalised abutments and undercuts, create excellent surface finishes and reduce manual finishing times.











PEEK PEEK





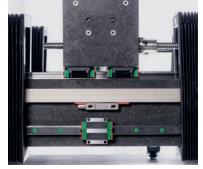








Jäger spindle Maximum power 2.1 kW at 50,000 rpm



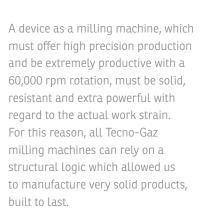
Granite supports on all 3 Cartesian axes



Cone changer: 20 tools with automatic tool changer Optional

German market leading manufacturer: quality guarantee, performances and durability for optimal milling both at low speed (e.g. alloys, Cr-Co and titanium), and at high speed (e.g. ceramics). Wet cooling with external unit supplied.

Extra power spindle 8 kW Optional



20 tools with automatic tool changer using ATC* technology, which allows the machine to compensate for the inevitable tool wear during milling in real time.

Recirculating balls

High efficiency mechanisms not requiring lubrication.





Heidenhain Optical lines

Optical lines (precision $\pm 1 \mu = 0.001 \text{ mm}$) on the X, Y, Z axes and absolute optical encoders on the 2 rotation axes (precision 0.00012 rad) to guarantee lasting precision.

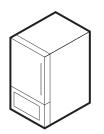


Tecno Sint

Ideal for digital workflow

The TecnoSint kiln is ideal for integrating smaller CAD/CAM systems through to larger workshops and milling centres. The optimal synthesis of price and high quality.

TecnoSint is ideal for zirconia



TecnoSint is the compact furnace for sintering zirconia and is a device that fully meets the most varied requirements, not only in terms of economic efficiency and reliability, but above all as with respect to sintering quality of modern materials.



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Precise control at high temperatures



Operational flow optimization



Avoiding contamination risks

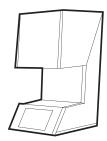
Resistances in molybdenum disilicide (MoSi2) offer a maximum furnace temperature of 1650° C. The capacity of the sintering tray equals to $\emptyset = 100$ mms and can contain up to 20 elements; the 9 sintering programs can be easily inserted and stored in the furnace panel, moreover each program contains 4 steps for optimal sintering control. The pre-set support programs will help you during routine maintenance and to remove resistance elements to avoid any kind of contamination.



MV-R

A revolution in zirconia sintering





Maximum temperature 1650°C.

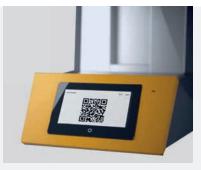
Due to significant further development of our heating technology, we have achieved a heating rate of up to 200 $^{\circ}$ C / min. and can thus meet our customers' demands for shorter sintering times.





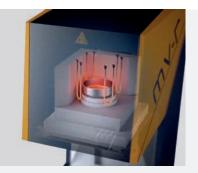
Touch display and sintering programs

Molybdenum disilicide (MoSi2) resistors offer a maximum furnace temperature of 1650 °C.



40 Single crowns or Sintering disc ø 100

- Possibility of inserting up to 40 zirconia elements with support with a diameter of 100 mm.
- 7" Touch Screen Display.
- Error reporting via QR code.
- USB interface for software updates.
- Controlled cooling.
- Timer: scheduled start.



Intelligent functionality

- Temperature control (only with test kit)
- Cleaning of the heating chamber
- Regeneration of resistors







21







Up to 200°C / min.

- Sintering with pre-drying of all commercially available zirconia in the traditional to fast cycle
- Linear cooling
- USB interface for software updates
- Resistors (MoSi2 Molybdenum Disilicide)
- Accuracy to 1,500 °C +/- 1 °C



Services and support At the service of your productivity.



Maximum customer support

Technology-oriented pre-sales courses

Pre-sales information courses for customers to find out about the most appropriate technology for their needs.

Technical support via help desk centre

Technical, operational and procedural support for the use and management of milling machines/ scanners and user protocols.

Installation service and certified education

Installation only by authorised technicians and certified education through issuing training documents.



Give your investment a greater value in time

- Post-sales training (Academy project)
- 2nd level training (Academy project)
- Subscription to 1st level technical support
- Subscription to 2nd level technical support
- Subscription to 3rd level technical support



Services offered

- Installation
- Level 1 education
- Level 2 education
- Help Desk support





Accademy project

The Academy project is the package of high value training services for Tecno-Gaz digital workflow. High profile trainers are able to teach the operators in the use of the most advanced technologies, in order to achieve the maximum quality and profit throughout the investment lifecycle.



Technical Features



MV-R

Dimensions (WxHxD) 39 x 78 x 54 cm

Weight 65 kg

Power max. 3500 W

Voltage range/Frequency 220-240 V / 50-60 Hz

Shortest heating period 1500°C in 8 min.

Max. temperature 1650°C

Heating elements MoSi₂ (4 element)

Heating chamber height 75 mm

Thermocouple type PtRh-Pt, type S

Max. heating-chamber capacity 2 trays - 100/30 mm



TecnoSint

Dimensions (WxHxD) $40 \times 60 \times 40 \text{ cm}$

Weight 55 kg

Power max. 1500 W

Voltage range/Frequency 220-240 V / 50-60 Hz

Process capacity Classic

Max. temperature 1650° C

Heating elements MoSi2 (4 element)

Heating chamber height 42 mm

Max. heating-chamber capacity 100/30 mm



TecnoScan PRO

Dimensions (WxHxD) 27 x 50 x 37 cm

Weight 15 kg

Voltage range/Frequency 100-240 V AC, 50-60 Hz, 2A

Accuracy/Repeatability 1µm

Accuracy 3 µm

Camera resolution 2 Mega pixels

 $\textbf{Noise}~<2~\mu m$

Toronto scan/mobile prosthesis

yes, with Top/Bottom support

Open export format

Open STL can dialogue with all major dental software. Integrated with Exocad workflow. Format: STL binary, texture obj, texture ply, texture wrz, and .xml for implant position

Technology

Structured green light based on heterodyne displacement combined with photogrammetry

Scan volume

diameter 120 mm, height up to 80 mm

Scanning speed

complete model: 12 sec.

Connection: USB 3.0

Technical Features



A6 Range

Dimensioni (WxHxD) 59x75x60,5 cm

Number of Axes 5 continuous

Weight 150 Kg

Tool change Automatic

Number of tools installed 11

Electrospindle

A6: Jäger 0.4 kW - 60,000 rpm Change tools: Pneumatic A6 Plus - A6 Evo: Jäger 0,55 kW - 60,000 rpm Change tools: Electric

Spindle torque 8 Ncm

Spindle torque A 10° + -(tot 30°)

Disc diameter 98mm

Tool breakage detection Automatic

Power supply (single-phase) 220÷240 V - 50÷60 Hz

Compressor Optional

Linear axis resolution ± 0.003 mm (3µm)

Duplicated tool management Optional

Dry processing Yes

Wet processing

A6 - A6 Plus: Optional A6 Evo: Standard

External suction predisposition: Automatic







C5 Range

Dimensions (WxHxD) 66x100x95 cm

Weight 220 Kg

Tool changer Automatic

Number of tools installed C5: 16 - C5 Plus/Evo: 18

Spindle C5: Jäger 1 Kw - 60.000 C5 Plus/Evo: Jäger 3,1 Kw - 60.000

Axis rotation angle $A = 30^{\circ} C = 360^{\circ}$

Blank \emptyset = 98,5 mm with rim

Thickness 10-30 mm

Tool diameter (shaft) 4 or 6 mm

Tool length 37 – 50 mm

Tool measurement precision \pm 0,001 mm (1 µm)

Tool failure detection Automatic

Power supply (single phase) 220÷240 V; 50÷60 Hz

Compressed air 7 atm (esterna) - 80 lt/min

Motors Brushless with absolute encoder

Noise level <60 dB

Linear axis resolution \pm 0,00005 mm (0.05 μ)

Rotation axis resolution ± 0,0008 rad

Tool duplicate management Optional

External suction predisposition: Automatic



G5

Dimensions (WxDxH) 76 x 196x 104 cm Weight 800 Kg Tool changer Automatic Number of tools installed 20 positions, cone change **Spindle** Jäger 2,1 Kw 10-50.000 rpm Axis rotation angle $A = 30^{\circ} C = 360^{\circ}$ **Blank** \emptyset = 98,5 mm with shoulder Thickness 2-10 mm Tool diameter (shaft) from 2 to 10 mm Tool length up to 60 mm **Tool measurement precision** ± 0,001 mm (1 µm) Tool failure detection Automatic Power supply (single phase) 220÷240 V; 50÷60 Hz Compressed air 7 atm (external) - 120 lt/min Motors Brushless with absolute encoder Noise level <60 dB **Linear axis resolution** \pm 0,00005 mm (0.05 μ) **Rotation axis resolution** ± 0,0008 rad ATC (automatic tool compensation) Optional Tool duplicate management Optional

External suction predisposition: Prepared

DIGITAL WORKFLOW

CAD/CAM Systems support and management project





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MTGZD0133 - Rev. 01/04/2021



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