



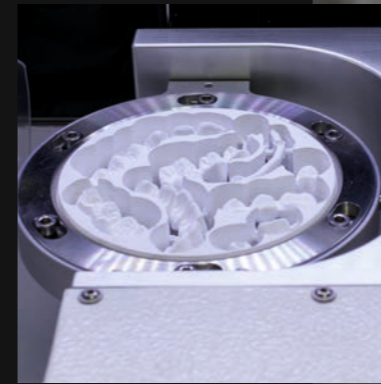
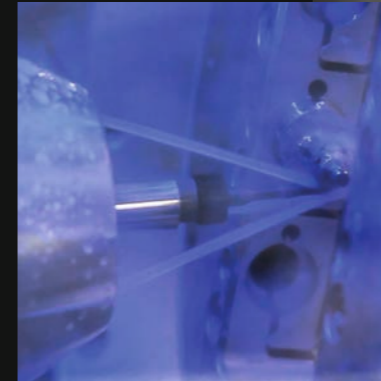
CORiTEC 250i series

CORiTEC 250i/250i dry

THE PROVEN 5-AXIS SYSTEM

The CORiTEC 250i and CORiTEC 250i dry machine systems are the most widely used CAD/CAM systems for applications out of zirconium dioxide, PMMA or wax. Thanks to the 5-axis technology, these machines can also produce complex dentures with diverging stumps and undercut areas without further rework. Therefore, these systems are an ideal choice if a good price-performance ratio but also a very high equipment flexibility is of importance.

The processing of CAD/CAM blocks or premilled abutments is also possible by using the respective adapter systems. By purchasing the CORiTEC 250i you obtain a cost-efficient but flexible and versatile milling machine at once.



- WET optional
- DRY
- 5 AX
- 3 mm 12x
- Temperature control icon
- Touchscreen icon
- Control panel icon
- Material tray icon
- ION

INTEGRATED COOLING
CYCLE FOR COOLING
LUBRICANT AND FILTER
SYSTEMS

TOOL LIFETIME CONTROL /
TOOL BREAKAGE CONTROL

WET AND DRY
PROCESSING POSSIBLE

ERGONOMIC
HANDLING
simple graphical
touchscreen operation



AUTOMATIC TOOL CHANGER
Space for simultaneously
use of 12 tools

CORiTEC 250i/250i dry

HIGHLIGHTS

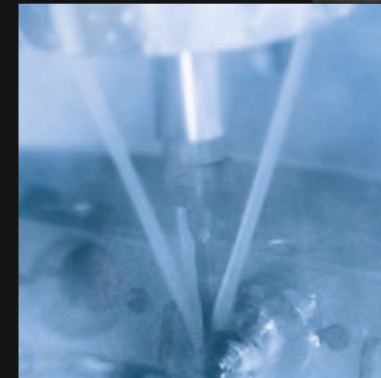
- 5-axis machining system with up to $\pm 30^\circ$ axis orientation
- tool runtime control/breakage control
- integrated cooling circuit for cooling lubricant
- compressed air and coolant level monitoring
- processing of prefabricated abutments
- machining of zirconium, PMMA, wax, plastics, grindable board materials
- also available as **DRY** version
- high precision due to integrated temperature compensation

PMMA	WAX	Standard	PreMilled Abutment	Dentures	Crown, Bridge	Inlay, Onlay, Veneer	Hybrid Abutment	Splint
Zr	COMPOSITE							
PEEK	SINT	C-Clamp	Block	zero-point clamping system	Full Denture	Model	Drilling template	Model casting
Glass ceramics	PreFab Abutments							
CoCr	Ti				Bridge	Telescopic technology	Abutment	Hybrid machining

CORiTEC 250i Loader PRO

AUTOMATION IN THE SMALLEST SPACE

The compact 5-axis milling machine opens up a completely new machine segment at an attractive price-performance ratio. It offers automation and 5-axis simultaneous machining of circular blanks and blocks in the smallest space and. The milling system is equipped with a fully automatic 16-fold tool magazine with 3 mm milling tools and an integrated touch-screen monitor, which facilitates an intuitive operation in conjunction with the new SmartControl™ software. The fully automatic 7-fold (optional 9-fold) blank changer offers the possibility to process all common materials of the dental industry, an automated production is therefore feasible. The CORiTEC 250i Loader PRO is the perfect solution for technicians who want to create their daily work more independent!



- WET
- DRY
- 5 AX
- 3 mm
16x
- SmartControl™
- Touch-screen
- Blank changer
- 9x
- ION

CORiTEC 250i Loader PRO

HIGHLIGHTS

- novel, closed mono-block cast body for stability and precision
- 7-fold blank changer (optional 9-fold)
- 16-fold tool changer
- blank and tool magazine exchangeable
- wet and dry machining possible
- Control PC with touchscreen integrated
- 3-fold integrated ionizer
- processing of prefabricated abutments
- high precision due to integrated temperature compensation
- high-frequency spindle
- minimal footprint
- auto calibration
- automated cleaning function
- metal processing

FULL AUTOMATION
7 or 9 blanks in one blank magazine, exchangeable

Optional: 9-fold blank magazine
7-fold blank magazine

AUTOMATIC BLANK CLAMPING SYSTEM

POWERFUL PERFORMANCE
High-end spindle for milling and grinding up to 100.000 rpm at 750 Watt

16-FOLD TOOL CHANGER, TOOL MAGAZINE INTERCHANGEABLE

ERGONOMIC HANDLING
Control PC with touchscreen integrated

WET AND DRY MACHINING POSSIBLE

PMMA	WAX	Standard	PreMilled Abutment	Dentures	Crown, Bridge	Inlay, Onlay, Veneer	Hybrid Abutment	Splint
Zr	COMPOSITE							
PEEK	SINT	C-Clamp	Block	automatic clamping system	Full Denture	Model	Drilling template	Model casting
Glass ceramics	PreFab Abutments							
CoCr	Ti				Bridge	Telescopic technology	Abutment	Hybrid machining

MAX PERFORMANCE
**for your
dental lab**



Applications & holder

MANUFACTURE OF DENTAL PROSTHESIS

- Baltic Denture from Merz Dental
- Dentsply Sirona Dentures



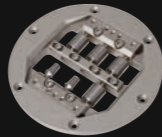
PREFABRICATED ABUTMENTS

- short production times
- production of abutments in very simple processes
- high accuracy of fit due to prefabricated implant interface

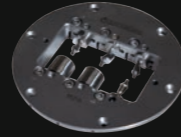
DESS
Abutmentholder



NT-Preform® Abutment
(nt-trading)



PreFace® Abutment
(Medentika)



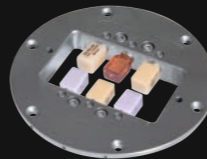
THERAPEUTIC SPLINTS

- bite splints, bleaching splints
- snoring splints, aligners
- simple and high-quality implementation in CAD/CAM processes



GRINDING OF CAD/CAM BLOCKS

- new 6-fold adapter enables effective production
- exchangeable strips for different adapter systems
- crowns, onlays, inlays, veneers, bridge frameworks, etc.



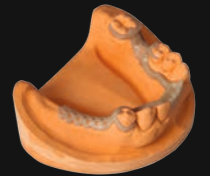
BIOHPP ELEGANCE PREFABS

- individual hybrid abutment on PEEK basis
- BioHPP for permanent dentures, free of metal, oxide and monomer
- homogeneous combination of titanium and BioHPP



MILLING OF MODEL CASTS

- production in combustible material (PEEK)
- allergy-free and lightweight model casting when using PEEK
- cost-efficient



MILLED IMPLANT MODELS

- DIM (Digital Implant Model) from nt-trading
- precisely positionable
- 2-part implant analog



MODEL MILLING BAUMANN SYSTEM


- model fabrication in CAD/CAM process
- high reproducibility and precision
- model fabrication with digital impression by intraoral scanner



CORiTEC 250i series TOOLS

T1/T6 - 3.0 | 3.0 mm
radius milling tool (l = 15 mm)

T1	Ti
T6	CoCr



3.0 mm Ø 3 mm

Blades

up to 15 mm

Art.-No. 526029 3003

T11/T13 - 2.5 | 3.0 mm
radius milling tool

T11	PMMA
	WAX
T13	Zr



2.5 mm Ø 3 mm

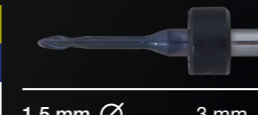
Blades

up to 25 mm

Art.-No. 526016 2503

T16 - 1.5 | 3.0 mm
radius milling tool (l = 15 mm)

T16	PMMA
	WAX
	Zr



1.5 mm Ø 3 mm


Blades

up to 15 mm

Art.-No. 526016 1503

T31 - 3.0 | 3.0 mm
shaft milling tool (single blade, slide coated)

T31	PMMA
	WAX
	Zr



3.0 mm Ø 3 mm


Blade

up to 30 mm

Art.-No. 526012 3003

T2/T7 - 2.0 | 3.0 mm
radius milling tool (l = 12 mm)

T2	Ti
T7	CoCr



2.0 mm Ø 3 mm


Blades

up to 15 mm

Art.-No. 526029 2003

T12 - 1.0 | 3.0 mm
radius milling tool (single blade, slide coated)

T12	PMMA
	WAX
	PEEK



1.0 mm Ø 3 mm


Blade

up to 25 mm

Art.-No. 526004 1003c

T19 - 0.5 | 3.0 mm
shaft milling tool (l = 4 mm), universal

T19	UNIVERSAL
-----	-----------



0.5 mm Ø 3 mm


Blades

up to 15 mm

Art.-No. 526001 0503

T32 - 0.6 | 3.0 mm
radius milling tool long (l = 12 mm)

T32	PMMA
	WAX
	Zr



0.6 mm Ø 3 mm

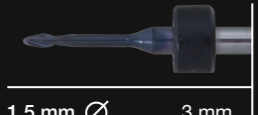
Blades

up to 25 mm

Art.-No. 526012 0603

T3/T8 - 1.5 | 3.0 mm
radius milling tool (l = 12 mm)

T3	Ti
T8	CoCr



1.5 mm Ø 3 mm

Blades

up to 15 mm

Art.-No. 526029 1503

T12/T14 - 1.0 | 3.0 mm
radius milling tool

T12	PMMA
	WAX
T14	Zr



1.0 mm Ø 3 mm

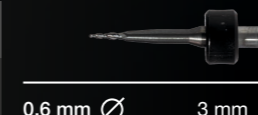
Blades

up to 25 mm

Art.-No. 526016 1003

T20 - 0.6 | 3.0 mm
radius milling tool (conical)

T20	Ti
	CoCr



0.6 mm Ø 3 mm


Blades

up to 15 mm

Art.-No. 526003 0603

T33/T43/T53 - 0.3 | 3.0 mm
radius milling tool (conical)

T33	PMMA
	WAX
	Zr
T43	SINT
T53	COMP



0.3 mm Ø 3 mm

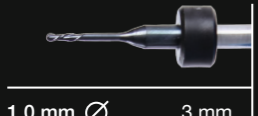
Blades

up to 25 mm

Art.-No. 526016 0303

T4/T9 - 1.0 | 3.0 mm
radius milling tool (l = 9 mm)

T4	Ti
T9	CoCr



1.0 mm Ø 3 mm


Blades

up to 15 mm

Art.-No. 526029 1003

T13/T40/T50 - 2.5 | 3.0 mm
radius milling tool (diamond coated)

T13	Zr
T40	SINT
T50	COMP



2.5 mm Ø 3 mm


Blades

up to 25 mm

Art.-No. 526013 2503

T21 - 2.5 | 3.0 mm
radius grinding tool (diamond)

T21	glass ceramics
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2.5 mm Ø 3 mm

Blades

Art.-No. 526005 2503

T98 - 2.5 | 3.0 mm
shaft milling tool (l = 20 mm, three blades)

T98	CALIBR.
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2.5 mm Ø 3 mm

Blades

Art.-No. 526024 2503

T5/T10/T17 - 1.5 | 3.0 mm
shaft milling tool (l = 15 mm), universal

T5	Ti
T10	CoCr
T17	PMMA
	WAX
	Zr



1.5 mm Ø 3 mm


Blades

up to 25 mm

Art.-No. 526001 1503

T14/T41/T51 - 1.0 | 3.0 mm
radius milling tool (diamond coated)

T14	Zr
T41	SINT
T51	COMP



1.0 mm Ø 3 mm


Blades

up to 25 mm

Art.-No. 526013 1003

T22 - 1.0 | 3.0 mm
radius grinding tool (diamond)

T22	glass ceramics
-----	----------------




1.0 mm Ø 3 mm

Blades

Art.-No. 526005 1003

T11 - 2.5 | 3.0 mm
radius milling tool (single blade, slide coated)

T11	PMMA
	WAX
	PEEK



2.5 mm Ø 3 mm

Blade

up to 25 mm

Art.-No. 526004 2503c

T15/T42/T52 - 0.6 | 3.0 mm
radius milling tool (conical)

T15	PMMA
	WAX
	Zr
T42	SINT
T52	COMP



0.6 mm Ø 3 mm


Blades

up to 25 mm

Art.-No. 526016 0603

T23 - 0.6 | 3.0 mm
radius grinding tool (conical, diamond)

T23	glass ceramics
-----	----------------



0.6 mm Ø 3 mm

Blades

Art.-No. 526005 0603

CORiTEC 250i series TOOLS

CORiTEC Materials

CORiTEC ZR (ZIRCONIUM DIOXIDE)

Covers all indications for dental restorations of up to 16 units. Ideally suited for monolithic restorations.

- highly translucent zirconium dioxide for natural aesthetics
- increased strength compared to lithium dioxide

Zr ht+ Disc
(highly translucent)



Zr Disc



Zr transpa Disc



Zr transpa Disc
(pre-colored translucent)



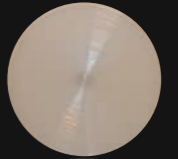
CORiTEC MODEL DISC IVORY

- blank for the production of dental models
- low-cost material
- also suitable for test purposes or for milling calibration bodies



JUVORA PEEK (POLYETHERETHERKETONE)

- clamp-retained constructions
- Juvora PEEK in its basic colour (brown-beige)
- highest biological compatibility



CORiTEC WAX DISC (WAX, GRAY)

CORiTEC Wax Disc is not suitable for intraoral application. After milling, the material can be used as lost wax. Moulds can be used in casting technology. It can be milled easily and combusted residue-free.



CORiTEC PMMA (POLYMETHYL METHACRYLATE)

- bite guards, therapeutic splints, drilling templates, bite regulators
- very good mechanical properties
- aesthetic shade effect due to high translucency
- good milling behaviour

PMMA Splint Disc



PMMA Disc



CORiTEC SmartControl™

SMART CONTROL OF MACHINE SOFTWARE

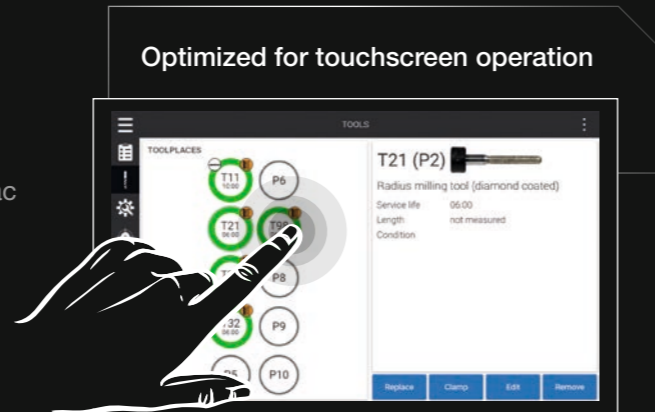
SmartControl™ one touch ahead!

The newly developed control software „SmartControl™“ provides absolutely intuitive operation of our milling machines. From selecting the job to milling or querying the machine status; the self-explanatory and optimized handling makes it possible to start operating the machine in the shortest possible time. Starting a milling process requires only two clicks – benefit from the smart time savings for your workflow!

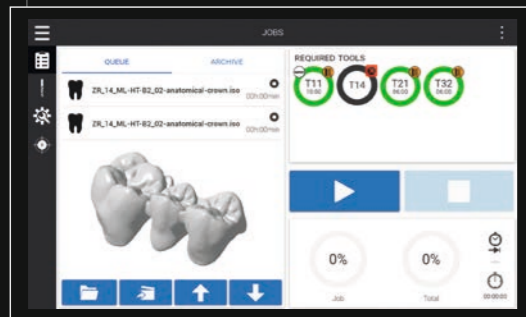
FEATURES

- Modern touch control design
- Easiest operation through intuitive graphical user interface
- High end performance for imes-icore® machines
- Remote monitoring
- Job management with 3D preview
- Multi-language support*

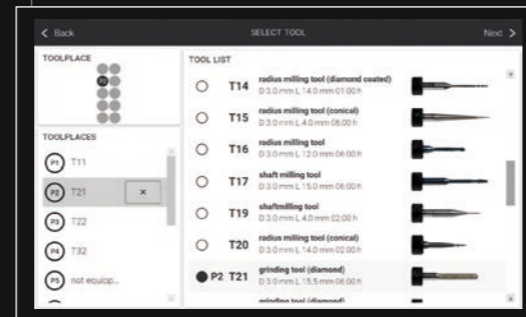
Optimized for touchscreen operation



Automated transfer of information from the CAM software



Ideal tool management



Scanner COMPATIBLE WITH exocad

CORiTEC i3Dscan eco

- all-round carefree package for newcomers or small laboratories
- simple, fast, low-priced
- very compact design



CORiTEC i3Dscan color

- the object to be scanned is automatically guided into the measuring field
- modern touch control design
- the 180-degree opening offers a large working area

CORiTEC i3Dscan color HR

- enormously high scanning efficiency and precision (4 µm)
- color texture scan
- Blue-Light LED & high resolution camera (2.8 MP)
- all modules included in the scope of delivery



CAM software

CORiTEC iCAM V5 smart

- all strategies optimized for 5-axis simultaneous machining
- automatic exchange of implant connections (ReFit option)
- no annual license fees
- fully automatic and easy operation with “Wizard Workflow“



*in preparation

Machine tables

The undercounters, specially developed for the needs of the various machine types, impress with their sturdy design as well as their attractive appearance. The machine tables have sufficient floor space. Stable rollers ensure optimum stability and easy movement of the devices. Drawers, cable ducts and a cabinet for the integration of appropriate extraction systems are already provided.



Machine Table T1	Machine Table T2
30.3 x 36.6 x 31.1 inch 770 x 930 x 790 mm W x H x D	41.7 x 36.6 x 31.1 inch 1060 x 930 x 790 mm W x H x D
CORTEC 250i/250i dry	CORTEC 250i Loader PRO

Suction systems

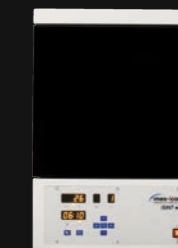
	iVAC silent	iVAC silent PRO	iVAC eco+	iVAC PRO+
Volume flow	160m³/hr	240 m³/hr	260m³/hr	280m³/hr
Output	480 W	1610 W	1200 W	1200 W
Filter system	Teflon filter cartridge, automatic cleaning feature	Teflon filter cartridge, automatic cleaning feature	dust drawer, HEPA filter	Teflon filter cartridge, automatic cleaning feature
Filter volume	8 liters/30.28 gpm	8 liters/30.28 gpm	25 liters/94.63 gpm	15 liters/56.78 gpm
W x D x H	9.6 x 19.6 x 17.3 inch 245 x 500 x 440 mm	10.6 x 21.2 x 21.1 inch 270 x 540 x 535 mm	17.3 x 18.1 x 29.5 inch 440 x 460 x 750 mm	13.7 x 13.7 x 39.3 inch 350 x 350 x 1000 mm
Supply voltage	230 V	115 V/230 V	115 V /230 V	100 V/230 V



Sintering Furnaces

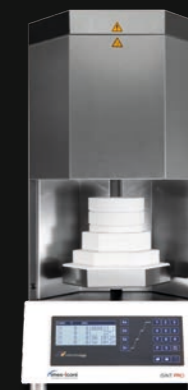
iSINT eco

The iSINT eco stands for economy and offers high-quality technology, matching accessories for high standards at a fair price. Compact and with a small footprint, the iSINT eco sintering oven still has sufficient capacity for a sintering bowl Ø 100 mm for approx. 25 units. The door stop can be mounted at the right or left side.



iSINT PRO

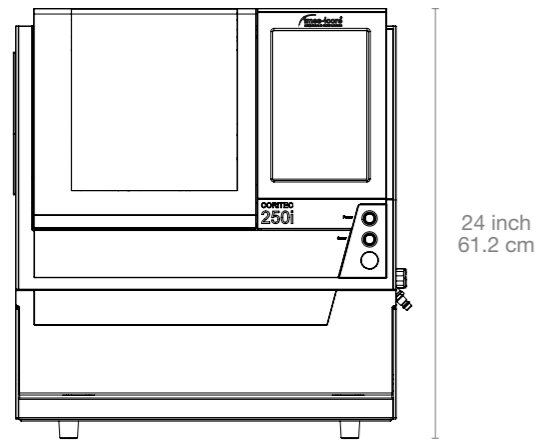
A larger sintering capacity of up to 80 single crowns is offered by the new iSINT PRO. With a heating system of four high-quality molybdenum disilicide (MoSi2) heating elements, you can choose between conventional long-term sintering or SPEED sintering at a rate of up to 99 °C/min / 210.20 °F/min. The iSINT PRO is operated with a simple and convenient program control. The programs are indicated on a 4-line LCD display. A timer function for overnight sintering or the use of pre-drying programs for shaded zirconium restorations offer further options. In addition, three service programs are available for easy maintenance of the sinter furnace.



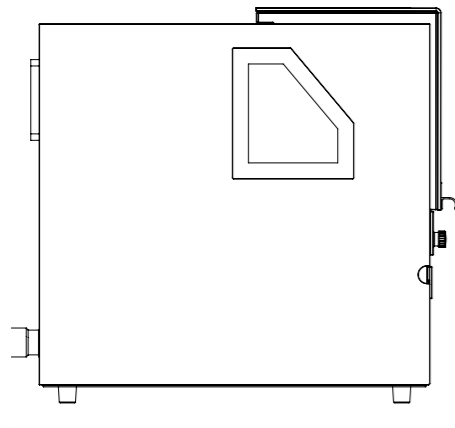
	iSINT eco	iSINT PRO
Number of heating elements	4	4
Display	7-Segment	4-line LCD
Number of program memories	9	30
Combustion chamber capacity	1 x 100	2 x 120
max. heating rate	30 °C/min / 86 °F/min	99 °C/min / 210.20 °F/min
Power in Watt	1300	3200
Lift function	No	Yes
Speedsintering	No	Yes

Dimensions

CORiTEC 250i / 250i dry

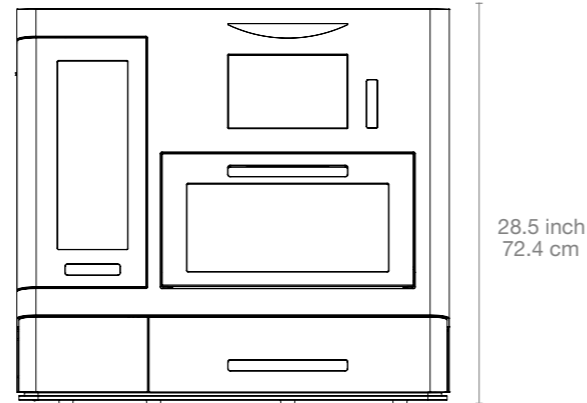


21.4 inch
54.4 cm

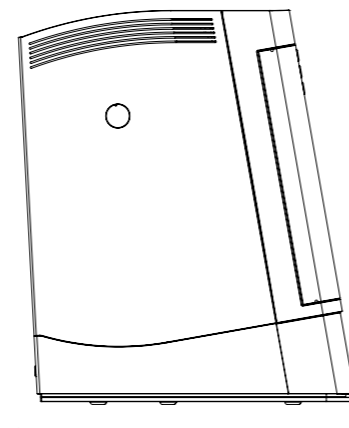


25.5 inch
65 cm

CORiTEC 250i Loader PRO



31.1 inch
79 cm



24.1 inch
61.3 cm

In Numbers

CORTEC 250i

CORTEC 250i dry

CORTEC 250i Loader PRO

mechanics / electronics			
basic construction	granite/aluminium	granite/aluminium	mono cast body
number of axes and operation type	5-axis, simultaneous machining	5-axis, simultaneous machining	5-axis, simultaneous machining
rotation angle	A-axis 360° / B-axis ± 100°	A-axis 360° / B-axis ± 100°	A-axis 360° / B-axis ± 100°
spindle / power	high-frequency spindle / 0.4 kW	high-frequency spindle / 0.4 kW	high-frequency spindle / 0.75 kW
maximum spindle speed	60.000 rpm	60.000 rpm	100.000 rpm
blank changer	Not available	Not available	6-times
tools	milling and grinding tools with 3 mm shaft diameter	milling and grinding tools with 3 mm shaft diameter	milling and grinding tools with 3 mm shaft diameter
tool changer integrated	12-times	12-times	16-times
tool length control	≤ 0.002 mm precision	≤ 0.002 mm precision	≤ 0.002 mm precision
integrated computer hardware	Windows based	Windows based	Windows based
monitor	integrated 10" touch screen	integrated 10" touch screen	integrated 12" touch screen
illumination	3 LED status colors	3 LED status colors	3 LED status colors
software	Remote DENTAL 3.0	Remote DENTAL 3.0	smart control™
air pressure	6-9 bar/87-130 PSI constantly supply, 50 liters/min / 189.25 gpm/min	6-9 bar/87-130 PSI constantly supply, 50 liters/min / 189.25 gpm/min	6-9 bar/87-130 PSI constantly supply, 50 liters/minute / 189.25 gpm/min, optional integrated compressor
cooling liquid	1.8 liter / 6.81 gpm integrated	-	4.8 liter / 18.17 gpm integrated
connecting requirements			
weight	95 kg / 209.47 lbs	95 kg / 209.47 lbs	95 kg / 209.47 lbs
width x depth x height	21.4 x 25.5 x 24 inch 544 x 650 x 612 mm	21.4 x 25.5 x 24 inch 544 x 650 x 612 mm	31.1 x 24.1 x 28.5 inch 790 x 613 x 724 mm
line voltage / frequency	100 V - 240 V / 50/60 Hz	100 V - 240 V / 50/60 Hz	100 V - 240 V / 50/60 Hz

Sales and support partner worldwide



Represented for you in over 100 countries.

imes-icore® GmbH has been a leading manufacturer and technology partner since 2003 in the field of dental CAD/CAM systems and solutions.

With its unique range of dental milling and grinding systems imes-icore® offers a perfect selection for all individual requirements of dental laboratories, milling centres and dental practices of all sizes.

Our “Open-System” product philosophy makes it possible to easily integrate our milling machines into your existing workflow and to integrate them with your open scanners and your CAD/CAM software. We are open for your material selection.

imes-icore® GmbH

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