imes-icore®
Competence in CNC & DENTAL-Solutions

CORiTEC 350i PRO robot

WET
DRY
5 AX
6 mm
80x
84x
ION
optional

approx. 63 to 157.5 inch
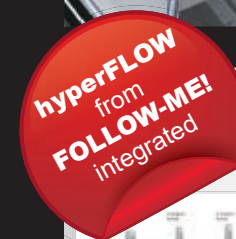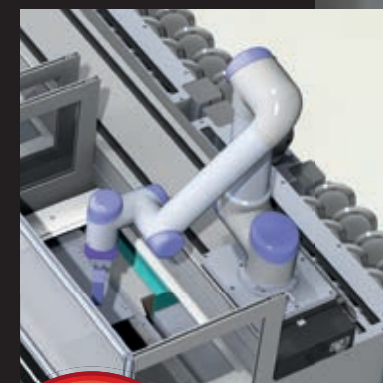160 to 400 cm

CORiTEC 350i PRO robot

FULLY AUTOMATED IN PERFECTION

The high-end system CORiTEC 350i PRO robot for milling centers has been realized on the latest generation of the CORiTEC 350i series. All installed components are designed for precision, longevity and the latest technological standards. Thanks to the robot, the production system enables independent milling and equipping with up to 84 dental blanks of various types. It is also possible to realize individual series production or production of different sub-sections. Thus, materials milling, grinding, polishing or laser can be processed. The system is individually adapted to customer requirements and tailored to your needs together with you.

With the hyperFLOW management system, all projects are automatically monitored and managed from scanning through design to completion of the work.

hyperFLOW from FOLLOW-ME! integrated

hyperDENT

AUTOMATIC POLISHING
OF MILLED UNITS

OPTIONAL LASER
ENGRAVING SYSTEM

MACHINE MODEL
WITH FULLY
AUTOMATIC ROBOT
HANDLING

EXPANDABLE UP TO 5
„CORiTEC 350i PRO"-
MILLING MACHINES

FOR ALL MATERIALS
RELEVANT
TO DENTISTRY

JOB MANAGEMENT
SOFTWARE FOR
INTELLIGENT
CONTROL

CORiTEC 350i PRO robot

HIGHLIGHTS

- fully automatic production line for all materials relevant to dentistry
- robotic handling of machine loading and unloading
- fully automated 24 hour production is possible
- automatic polishing of milled units
- Laser processing optionally possible
- high precision due to integrated temperature compensation

PMMA	WAX
Zr	COMPOSITE
PEEK	SINT
Glass ceramics	PreFab Abutments
CoCr	Ti

Standard

PreMilled Abutment

Dentures

C-Clamp

Block

zero-point clamping system

Crown, Bridge

Inlay, Onlay Veneer

Hybrid Abutment

Splint

Full Denture

Model

Drilling template

Model casting

Bridge

Telescopic technology

Abutment

Hybrid machining

Applications & holder

HALF-OPEN BLANK HOLDER (C-CLAMP)

- enables 5-axis machining up to 90 degrees axis adjustment
- Extension of the technical possibilities of your milling machine
- end face machining

MANUFACTURE OF DENTAL PROSTHESES

- Baltic Denture from Merz Dental
- Dentsply Sirona Dentures

PREFABRICATED ABUTMENTS

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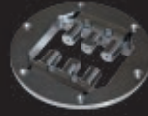- high accuracy of fit due to prefabricated implant interface

DESS Abutmentholder   **NT-Preform® Abutment (nt-trading)**   **PreFace® Abutment (Medentika)**   **DDSoldiConnect® (Dental Direkt)**
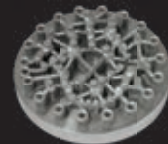
THERAPEUTIC SPLINTS

- Bite splints, bleaching splints
- Snoring splints, Aligners
- simple and high-quality implementation in CAD/CAM processes

HYBRID MACHINING - SINTERING AND MILLING*

- Milling post-processing of finished restorations using the SLM method
- High precision milling combined with low-cost SLM process
- compatible with most SLM systems

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.
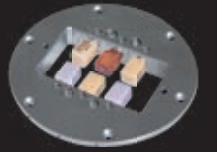
IMPLANT-SUPPORTED BRIDGES AND BARS / ONE-PIECE ABUTMENTS

- highest fitting accuracy due to new CAM technologies (ReFit)
- Stress-free fit even with larger spans
- easy production due to high degree of automation with coordinated CAM software

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 materials, PEEK or directly in CoCr
- 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

*in preperation

T1/T6 - 3.0 | 6.0 mm
radius milling tool short (l = 15 mm)

| T1 | Ti |
| T6 | CoCr |

3,0 mm ⌀   6 mm

up to 15 mm

Blades

Art.-No. 526026 3006

T11 - 2.5 | 6.0 mm
radius milling tool (single blade, slide coated)

T11	PMMA
	WAX
	PEEK

2,5 mm ⌀   6 mm

up to 25 mm

Blade

Art.-No. 526004 2506c

T14/T41/T51 - 1.0 | 6.0 mm
radius milling tool (diamond coated)

T14	Zr
T41	SINT
T51	COMP

1,0 mm ⌀   6 mm

up to 25 mm

Blades

Art.-No. 526013 1006

T19 - 0.5 | 6.0 mm
shaft milling tool (l = 4 mm)

| T19 | UNIVERSAL |

0,5 mm ⌀   6 mm

up to 15 mm

Blades

Art.-No. 526001 0506

T2/T7 - 2.0 | 6.0 mm
radius milling tool short (l = 12 mm)

| T2 | Ti |
| T7 | CoCr |

2,0 mm ⌀   6 mm

up to 15 mm

Blades

Art.-No. 526026 2006

T11/T13 - 2.5 | 6.0 mm
radius milling tool

T11	PMMA
	WAX
T13	Zr

2,5 mm ⌀   6 mm

up to 25 mm

Blades

Art.-No. 526019 2506

T15/T42/T52 - 0.6 | 6.0 mm
radius milling tool (conical)

T15	PMMA
	WAX
	Zr
T42	SINT
T52	COMP

0,6 mm ⌀   6 mm

up to 25 mm

Blades

Art.-No. 526019 0606

T20 - 0.6 | 6.0 mm
radius milling tool (conical)

| T20 | Ti |
| | CoCr |

0,6 mm ⌀   6 mm

up to 15 mm

Blades

Art.-No. 526003 0606

T3/T8 - 1.5 | 6.0 mm
radius milling tool short (l = 12 mm)

| T3 | Ti |
| T8 | CoCr |

1,5 mm ⌀   6 mm

up to 15 mm

Blades

Art.-No. 526026 1506

T12 - 1.0 | 6.0 mm
radius milling tool (single blade, slide coated)

T12	PMMA
	WAX
	PEEK

1,0 mm ⌀   6 mm

up to 25 mm

Blade

Art.-No. 526004 1006c

T16/T28 - 1.5 | 6.0 mm
radius milling tool long (l = 15 mm)

T16	PMMA
	WAX
	Zr
T28	Ti
	CoCr

1,5 mm ⌀   6 mm

up to 25 mm

Blades

Art.-No. 526027 1506

T21 - 2.5 | 6.0 mm
radius milling tool (diamond)

| T21 | glass ceramics |

2,5 mm ⌀   6 mm

Art.-No. 526005 2506

T4/T9 - 1.0 | 6.0 mm
radius milling tool short (l = 9 mm)

| T4 | Ti |
| T9 | CoCr |

1,0 mm ⌀   6 mm

up to 15 mm

Blades

Art.-No. 526026 1006

T12/T14 - 1.0 | 6.0 mm
radius milling tool

T12	PMMA
	WAX
T14	Zr

1,0 mm ⌀   6 mm

up to 25 mm

Blades

Art.-No. 526019 1006

T17 - 1.5 | 6.0 mm
shaft milling tool (l = 15 mm)

T17	PMMA
	WAX
	Zr

1,5 mm ⌀   6 mm

up to 25 mm

Blades

Art.-No. 526001 1506

T22 - 1.0 | 6.0 mm
radius milling tool (diamond)

| T22 | glass ceramics |

1,0 mm ⌀   6 mm

Art.-No. 526005 1006

T5/T10 - 1.5 | 6.0 mm
shaft milling tool short (l = 12 mm, four blades)

| T5 | Ti |
| T10 | CoCr |

1,5 mm ⌀   6 mm

up to 15 mm

Blades

Art.-No. 526002 1506

T13/T40/T50 - 2.5 | 6.0 mm
radius milling tool (diamond coated)

T13	Zr
T40	SINT
T50	COMP

2,5 mm ⌀   6 mm

up to 25 mm

Blades

Art.-No. 526013 2506

T18 - 0.5 | 6.0 mm
radius milling tool (l = 4 mm)

| T18 | UNIVERSAL |

0,5 mm ⌀   6 mm

up to 15 mm

Blades

Art.-No. 526026 0506

T23 - 0.6 | 6.0 mm
radius milling tool (conical, diamond)

| T23 | glass ceramics |

0,6 mm ⌀   6 mm

Art.-No. 526005 0606

T26 - 3.0 l 6.0 mm
radius milling tool long (l = 20 mm)
T26 | Ti | CoCr
3,0 mm ⌀ | 6 mm
16 - 20 mm | Blades
Art.-No. 526027 3006

T27 - 2.0 l 6.0 mm
radius milling tool long (l = 16 mm)
T27 | Ti | CoCr
2,0 mm ⌀ | 6 mm
16 - 20 mm | Blades
Art.-No. 526027 2006

T29 - 1.0 l 6.0 mm
radius milling tool long (l = 11 mm)
T29 | Ti | CoCr
1,0 mm ⌀ | 6 mm
16 - 20 mm | Blades
Art.-No. 526027 1006

T30 - 4.0 l 6.0 mm
shaft milling tool long (l = 32 mm, single blade, slide coated)
T30 | PMMA | WAX | PEEK
4,0 mm ⌀ | 6 mm
up to 30 mm | Blade
Art.-No. 526012 4006

T32 - 0.6 l 6.0 mm
radius milling tool long (l = 12 mm)
T32 | PMMA | WAX | Zr
0,6 mm ⌀ | 6 mm
up to 25 mm | Blades
Art.-No. 526012 0606

T33/ T43/ T53 - 0.3 l 6.0 mm
radius milling tool (conical)
T33 | PMMA | WAX | Zr
T43 | SINT
T53 | COMP
0,3 mm ⌀ | 6 mm
up to 25 mm | Blades
Art.-No. 526019 0306

T34 - 3.0 l 6.0 mm
radius milling tool long (l = 27 mm)
T34 | PMMA | WAX
3,0 mm ⌀ | 6 mm
up to 30 mm | Blades
Art.-No. 526012 3006

T35 - 2.0 l 6.0 mm
radius milling tool long (l = 20 mm)
T35 | PMMA | WAX
2,0 mm ⌀ | 6 mm
up to 30 mm | Blades
Art.-No. 526012 2006

T61 - 3.0 l 6.0 mm
Quattro speed milling tool (l = 15 mm)
T61 | Ti | CoCr
3,0 mm ⌀ | 6 mm
up to 15 mm | Blades
Art.-No. 526025 3006

T62 - 2.0 l 6.0 mm
torus milling tool (r = 0,2 mm, l = 16 mm, four blades)
T62 | Ti | CoCr
2,0 mm ⌀ | 6 mm
up to 15 mm | Blades
Art.-No. 526025 2006

T63 - 1.5 l 6.0 mm
torus milling tool (r = 0,08 mm, l = 7 mm, two blades)
T63 | Ti | CoCr
1,5 mm ⌀ | 6 mm
up to 15 mm | Blades
Art.-No. 526025 1506

T64 - 1.5 l 6.0 mm
torus milling tool (r = 0,08 mm, l = 15 mm, two blades)
T64 | Ti | CoCr
1,5 mm ⌀ | 6 mm
up to 15 mm | Blades
Art.-No. 526028 1506

T67 - 2.0 l 6.0 mm
shaft milling tool short (l = 7 mm, four blades)
T67 | Ti | CoCr
2,0 mm ⌀ | 6 mm
up to 15 mm | Blades
Art.-No. 526002 2006

T68 - 1.5 l 6.0 mm
shaft milling tool long (l = 15 mm, four blades)
T68 | UNIVERSAL
1,5 mm ⌀ | 6 mm
16 - 20 mm | Blades
Art.-No. 526021 1506

T80 - 2.5 l 6.0 mm
drilling tool (l = 22 mm)
T80 | Ti | CoCr
2,5 mm ⌀ | 6 mm
up to 20 mm | Drill
Art.-No. 526023 2506

T81 - 1.5 l 6.0 mm
drilling tool (l = 18 mm)
T81 | Ti | CoCr
1,5 mm ⌀ | 6 mm
up to 20 mm | Drill
Art.-No. 526023 1506

T98 - 2.5 l 6.0 mm
shaft milling tool (l = 20 mm, three blades)
T98 | CALIBR.
2,5 mm ⌀ | 6 mm
Blades
Art.-No. 526024 2506

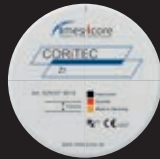# CORiTEC Materials

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 esthetics
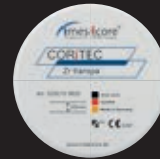- increased strength compared to lithium dioxide
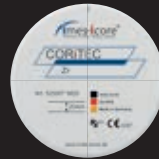
Zr ht+ Disc
(highly translucent)

Zr Disc

Zr transpa Disc

Zr transpa Disc
(pre-colored translucent)

CORiTEC ZR (ZIRCONIUM DIOXIDE)

- single crowns
- single cap
- bridges up to 16 units,
  full bridges, and PFM technology

- good mechanical properties
- good milling properties
- corrosion resistant

CoCr Disc
(non-precious alloy)

CoCr Mo Disc
(non-precious alloy)
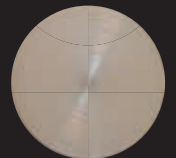
Ti Disc
(Grade 2, Grade 4, Grade 5)

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.
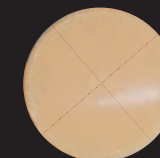It can be milled easily and combusted residue-free.

CORiTEC PMMA (POLYMETHYL METHACRYLATE)

- bite guards, therapeutic splints,
  drilling templates, bite regulators

- very good mechanical properties
- aesthetic shade effect due to high translucency
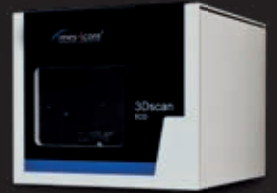- good milling behaviour

PMMA Splint Disc

PMMA Disc

DIE **PRO** SERIES

THE PLUS ON
PERFORMANCE

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 V4.7

- all strategies optimized for 5-axis simultaneous machining
- 64-bit multi-core support
- no annual license fees
- validated post-processors for all imes-icore® CORiTEC machines

CORiTEC iCAM V5

- 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"

Suction systems

iVAC eco+

Volume: 25 liters (filter bag)
Volume flow: 260 m³/hr
Special features: suitable
for all machine tables
T1 and T2; quiet running

iVAC2

Volume: 20 liters (dust drawer)
Volume flow: 260 m³/hr
Special features: suitable
for table machines T1 and T2;
compressed air self-cleaning system

iVAC PRO⁺

Volume: 15 litres
(dust drawer)
Volume flow: 280 m³/hr
Special features:
High-performance industrial
standard; compressed air
self-cleaning system

iCompVAC

Volume: 25 litres (dust bag)
Volume flow: 160 m³/hr
Special features: Suction and
compressor in one unit;
compressor up to 7 bar;
compressor for temporary
operation of machines
(no continuous operation)

	iVAC eco+	iVAC 2	iVAC pro+	iCompVAC*
volume flow	260m³/hr	260m³/hr	280m³/hr	160m³/hr
output	1200 W	1300 W	1200 W	1300 W
filter system	dust drawer, HEPA filter	Teflon filter cartridge, automatic cleaning feature	Teflon filter cartridge, automatic cleaning feature	dust drawer, HEPA filter
filter volume	25 liters	20 liters	15 liters	25 liters
W x D x H	7.3 x 18.1 x 29.5 inch 440 x 460 x 750 mm	7.3 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	18.5 x 25.1 x 34.6 inch 470 x 640 x 880 mm
supply voltage	115 V/230 V	115 V/230 V	115 V/230 V	230 V

* not designed for continuous operation

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 right and left.

iSINT PRO

A larger sintering capacity of up to 80 single crowns is offered by the new **iSINT PRO**. With a heating system with 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/minute. The **iSINT PRO** is controlled by a simple and convenient program control. The programs are displayed 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 in °C/min	30	99
Power in W	1720	3200
Lift function	No	Yes
Speedsintering	No	Yes

In numbers

CORiTEC 350i PRO robot

mechanics / electronics	
basic construction	polymer concrete
number of axes and operation type	5-axis simultaneous, laser machining
angle of rotation	A-axis: ± 30° / B-axis: ± 25°
spindle	high-frequency spindle
maximum speed	60.000 U/min / 1 kW
zero point clamping system	Yes
Material storage	63 - 105 blanks
tools	milling and grinding tools with 6 mm diameter
tool chancer	20-times tool changer integrated
tool length control	≤ 0,002 mm precision
integrated computer hardware	Windows based
monitor	integrated 12" touch screen
illumination	3 LED status colors
software	Remote DENTAL 3.0 and hyperFLOW
air pressure	6 - 9 bar constantly supply, 100 liters/minute per machine
cooling liquid	4.8 Liter integrated per machine
Verbindungsanforderungen	
weight	approx. 900 kg (3 machines) to 1500 kg (5 machines) - configuration-dependent
width x depth x height	63.0 inch to 157.5 inch x 51.2 inch x 78.7 inch - configuration-dependent 1600 mm bis 4000 mm x 1300 mm x 2000 mm
line voltage / frequency / maximum power	100 V - 240 V / 50/60 Hz / 2200 W per machine

Dimensions

CORiTEC 350i PRO robot

141.7 inch
359 cm

33.7 inch
85.5 cm

30.2 inch
76,8 cm
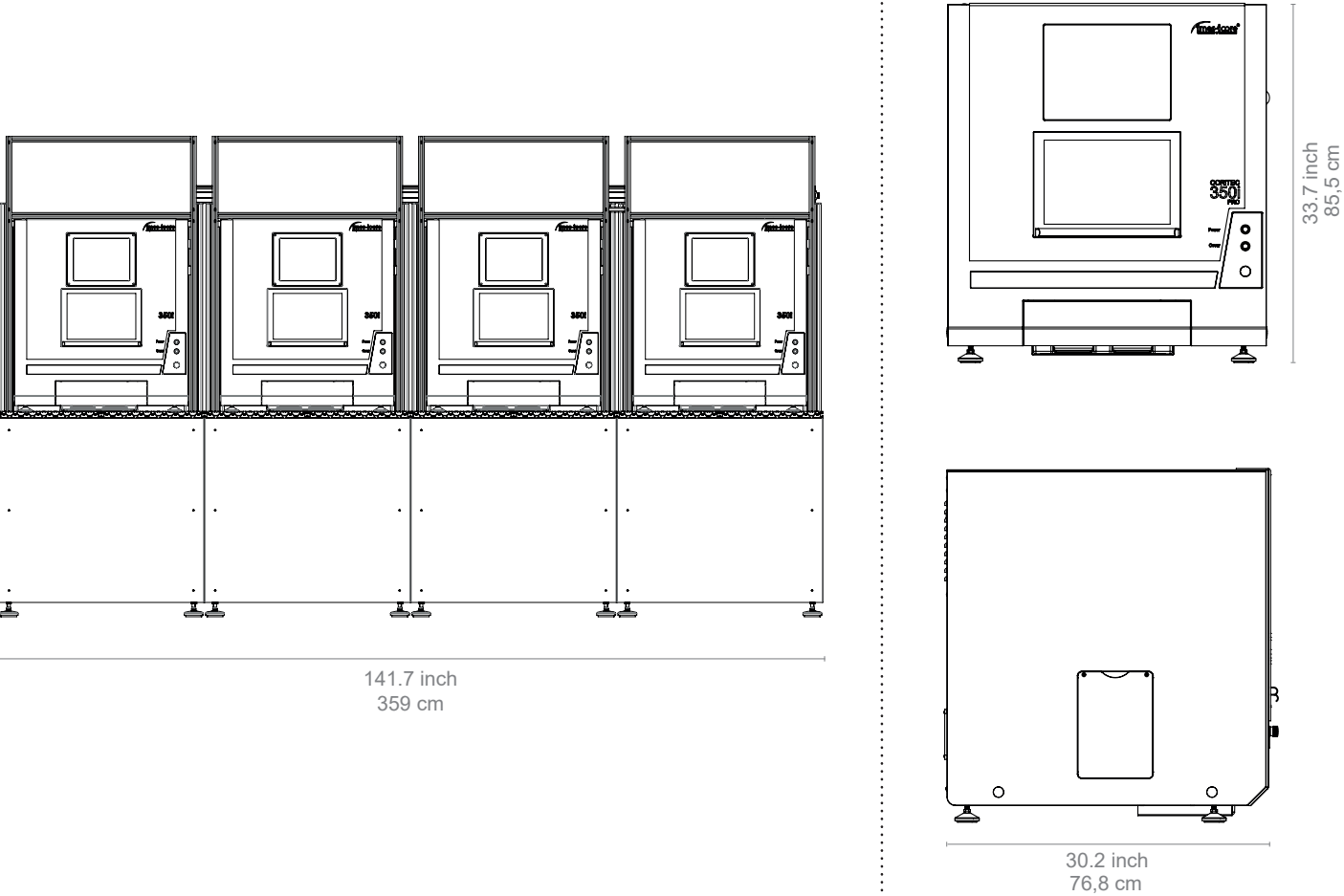
Sales and support partner worldwide

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 your 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.

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