imes-icore®
Dental & Medical Solutions

CORiTEC AM100

Focus on productivity and results

Fast and cost-effective Production

Fast production of dental restorations with a modern and cost-effective production technology

Perfect, individual production of CoCr units

Low manufacturing costs due to massive material savings in additive manufacturing;
Low production times per tooth unit;
up to 250 dental units per processing cycle

Possibility of the most complex dental constructions

E.g. highly complex frameworks like superstructures, model casting, primary / secondary parts, crowns & bridges

All-in-One Module

Additive build-up of e.g. implant-supported restorations with direct interface via the hybrid iCAM AM system for re-milling using CORiTEC milling systems in the hybrid process

i-PROMELT — Optimally matched for the CORiTEC AM100 CoCr dental alloy powder for manufacturing dental prostheses using the laser melting process

Excellent processing/flow properties and high surface quality. Main particle size distribution in the range of 10 – 30 µm. Type 5 alloy according to DIN EN ISO22674. CTE value 14.5 (20 – 500°C), perfect basis for a variety of veneering ceramics.
For product information, please visit www.i-prodens.com

The latest technology suitable for any production center

Highlights

Holistic production solution

An optimally coordinated system from a single source and an integrated workflow

Co-thinking-philosophy

Assisting the user from the beginning with support, service and validated powder along with optimal parameters

Take the first step to the dental printing workflow

Perfect price/performance ratio as a complete System enables a fast amortization

Technical data

Printing process	LPBF (Laser-Powder-Bed-Fusion)
Laser power	200 W (Fiber)
Production capacity / day	up to 500 dental units
Building volume	up to 250 dental units
Building plate	150 mm x 150 mm
Layer height	20 – 80 microns
Materials	CoCr
Focus diameter	70 µm
Inert gas	Nitrogen
Power supply	230 V / 50 – 60 Hz
Dimensions (W x H x D)	1.1 x 1.9 x 0.79 m
Weight	approx. 990 lbs

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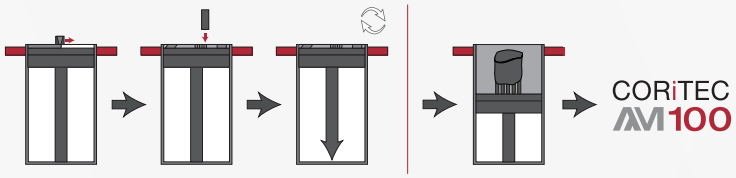
CORiTEC AM pure

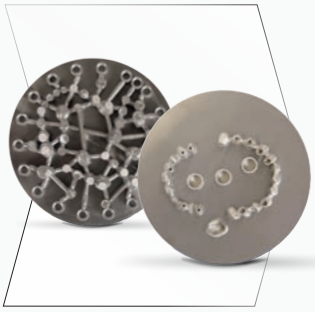
The unpacking station incl. sieve unit for powder preparation

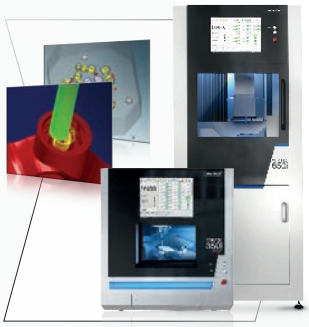
Unpacking and sieving process



New powder is unpacked in the closed unpacking chamber without direct powder contact. Components can also be depowdered without direct powder contact. Processed powder is prepared by the integrated ultrasonic sieve unit and is collected in supply cartridge. This sieved and recycled powder in the cartridge can then be used directly for the next print job.

The Hybrid Process





- Post-processing milling technique of fabricated restorations in the LPBF process directly via the CORiTEC 350i / 650i machines

- High precision and perfect surfaces through advanced milling operations combined with the cost-effective LPBF manufacturing process

In combination with the 350i and 650i series of CORiTEC milling systems, new standards in hybrid technology for high-quality dental restorations are set by the re-milling of of LPBF units. Coordinated hardware and software interfaces as well as automated measuring functions via the CAM and slicing software guarantee precise and easy handling. The special process was developed, for example, in order to build up highly complex bar constructions in advance at low cost using an additive process and then to remachine the interfaces with the CORiTEC milling machines to achieve the absolut perfect fit and surface quality.