

CORiTEC 350i

CORiTEC 350i Loader

The automated all-in-one solution!

The new CORiTEC 350i processing system is an innovative machine concept, developed to meet any requirements of modern CAD/CAM processing. The processing of all relevant blank materials from CoCr, titanium, zirconium dioxide, plastics, block materials, and new future materials is thus possible with a single machine system, virtually without restrictions.

The modern and optimized machine kinematics, with high free angles of the 5 axes of over 30°, allows milling and grinding as wet and dry processes and with high quality. This makes the system an all-rounder, ideal for demanding labs, to produce all typical applications in your own lab, with high quality, using CAD/CAM technology.

The CORiTEC 350i, with it's optional zero point (clamping) system facilitates the quick change of blanks by switching out the entire blank depot with the push of a button. The CORiTEC 350i Loader is equipped with a fully automated 12-fold material changer.

Technical Highlights

- 5-axis, simultaneous machining
- Base structure made of steel/aluminum
- Integrated wet and dry processing
- Zero point (clamping) system (optional for CORiTEC 350i)
- processing of all important materials used in the dental industry, including metalworking
- Axis tilt angle up to 30°
- 20-fold tool changer
- HF spindle with up to 60,000 rpm
- Integrated control PC with touch screen
- Servomotors on all axes
- Chip protection of the tool changer
- Frontal machining of the workpiece is possible (B-axis in 90 degree position)



Retaining bracket system



High-precision
machining through
integrated temperature
compensation!



Technical Specifications

Number of axes and machining type	5-axis simultaneous machining
Max. tilt angle for machining with 98mm blank	A-axis +/- 30° / B-axis +/- 25°
Max. axis tilt angle	A-axis: 360° / B-axis: 115°
Wet processing	Integrated
Maximum speed / Pmax~	60,000 rpm / 1 kW
Axle drives	Servo motors with encoder resolution of 0.5 µm
Tool fitting	6 mm shaft
Tool changer	20-fold with chip protection cover
Workpiece changer	350i: Manual (zero point clamping system optional) 350i Loader: 6-fold fully automatic (up to 12-fold optional)
Weight	350i: 180 kg / 350i Loader: 225 kg
Width x depth x height	350i: 758x790x857 mm 350i Loader: 1058x790x857 mm
Supply voltage / frequency / power	100 V-240 V/50/60 Hz/2200 W
Compressed air supply	6-9 bar constant supply, 60 liters/minute
Materials	CoCr/NEM, titanium, zirconium dioxide, aluminum oxide, PMMA, plastics, composites, wax, glass ceramics, hybrid ceramics
Compatibility	98 mm/98.5 mm blanks, CAD/CAM blocks, nt-Trading premilled abutments, Medentika PreFace® abutments, Baltic Denture, Lava Frames