

# CORiTEC 650i

## CORiTEC 650i Loader

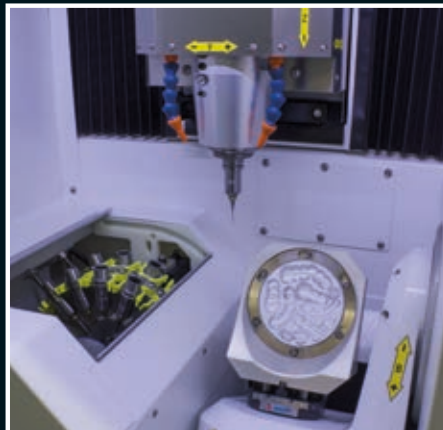
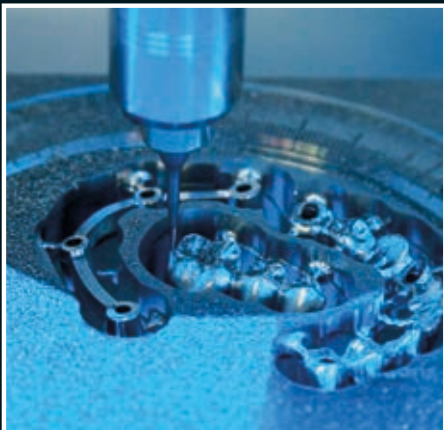
High End quality with  
Future-oriented technology

We developed the CORiTEC 650i and CORiTEC 650i Loader machine systems for the area of PREMIUM machines and PREMIUM requirements. The systems are offered with very attractive pricing and are equipped with high-quality industrial milling technologies, such as granite structure, linear drives in the linear axes, torque motors in the rotary axes, as well as digital absolute length measuring systems, and powerful main spindles. The machine concept impresses with its precise, vibration-free and dynamic motion sequences in the demanding and complex metal working processes. All other relevant materials can also be milled or ground with high quality using this machine system, applying wet and dry processes.

The CORiTEC 650i loader includes a fully integrated automatic 16-fold blank changer. This enables you to operate the machine system at full capacity around the clock without supervision, while maintaining consistent high precision. Thus, the machine system is ideally suited for large labs and milling centers, where these high quality standards and large quantities are at the forefront.

### Technical Highlights

- solid axis structure from polished natural granite for highly dynamic 5-axis simultaneous machining, and for high-precision milling results
- absolute, high-resolution measuring systems on all axes
- high-frequency spindle up to 50,000 rpm and 2.3 kW with HSK 25 tool holder
- 32-fold fully automatic tool changer
- 16-fold fully automatic workplace changer (only CORiTEC 650i loader)
- integrated wet and dry machining for all materials and indications
- with touch screen - control
- leading linear and torque motor technology



Retaining bracket  
system



Axis made of granite with highly precise linear & torque motor technology



## 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°
Wet processing	Integrated
Maximum speed / Pmax~	50,000 rpm / 2.3 kW
Axle drives	Linear motors and torque motors absolute measuring systems; resolution of 0.5 µm
Tool fitting	HSK 25
Tool changer	32-fold with chip protection cover
Workpiece changer	Manual / optional: with zero point clamping system / 16-fold fully automatic (loader)
Weight	650i: 625 kg 650i Loader: 930 kg
Width x depth x height	650i: 785 x 1100 x 1940 mm 650i Loader: 1325 x 1100 x 1940 mm
Supply voltage / frequency / power	400 V - 3 phase / 50/60 Hz / 2800 W
Compressed air supply	6-9 bar constant supply, 100 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