

# CORiTEC 650i

## 650i Loader

PREMIUM quality with  
future-oriented technology

### Technical highlights

- Solid axis structure from polished natural granite for highly dynamic 5-axis simultaneous machining, and for high-precision milling results
- 3 linear axes with highly dynamic linear motor drives
- Massive granite rotating swivel unit as a 4th/5th Axis with torque motor drives
- Absolute, high-resolution measuring systems on all axes
- High-frequency spindle up to 50 000 rpm, 2.3 kW with HSK 25 tool holder
- 32-fold fully automatic tool changer.
- Integrated wet and dry machining for all materials and applications
- High-end control for fast control technology with touch screen operation
- Control software with order, processing, blanks, and tool management functions
- For high-quality standards of precision and speed in metalworking
- Optionally equipped with automatic workpiece changer/zero point clamping system (in preparation)

### Available as fully-automatic-system with automatic material changer

In the area of PREMIUM machines for PREMIUM requirements, the new CORiTEC 650i dental milling machine was developed. The cnc milling machine has a very interesting price level and is equipped with high-quality industrial cnc milling technologies, such as granite structure, direct drives, digital length measuring systems, and powerful main spindle. The machine concept impresses with its precise, vibration-free and dynamic motion sequences in the demanding and complex metal work. All other relevant materials can also be milled or ground in high quality with this machine system, in wet or dry machining.



Granite axis structure with  
highly dynamic linear &  
torque motors



### Technical specifications

Number of axles and machining type	5 axes, simultaneous machining
Tilt angle for machining with 98 mm blank	A-axis +/- 30° / B-axis +/- 25°
Wet processing	Integrated
Spindle max. / P <sub>max</sub>	50,000 rpm / 2.3 kW
Axle drives	Precision linear motors and torque motors, 0.5 µm resolution
Tool fitting	HSK 25
Tool changer	32-fold with chip protection cover
Workpiece changer	16-fold fully automatic (only 650i Loader)
Weight	650i: 700 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
Mains voltage / frequency / power	400 V - 3 phase / 50/60 Hz / 2800 W
Compressed air supply	6-9 bar constant supply, 150 litres/minute
Materials	CoCr/NEM, titanium, zirconium dioxide, aluminium oxide, PMMA, plastics, composites, wax, glass ceramics, hybrid ceramics
Compatibility	98 mm/98.5 mm blanks, CAD/CAM blocks, prefabricated abutments, Baltic Denture system, Lava frames