

# Zfx™ Inhouse5x



**NEW**

Compact milling unit  
for 5-axis simultaneous machining

Zahn success formula



# Zfx™ Inhouse5x

## New industrial standard in compact size



With the Inhouse5x, Zfx offers a compact milling unit suitable for 5-axis simultaneous machining that can be easily integrated into any laboratory.

The machine is equipped with a high-frequency spindle (60,000 to 100,000 rpm). Thus, together with a variety of milling strategies and tools, a faster and more economically efficient manufacturing process is guaranteed. Furthermore, Zfx™ Inhouse5x includes an automatic changer for blanks with puck and block form (2- till 12-fold) and a tool magazine for up to 24 tools. The automation placement can be adapted to the individual laboratory's needs.

The Zfx™ Inhouse5x is suitable for milling and grinding, resp. for the dry and wet processing, so various materials such as zirconia, ceramic, composite, PMMA, wax and cobalt chrome can be processed. Inlays, onlays, veneers, crowns, individual abutments on metal bases and bridges of any span length belong to the recommended indications. Structures characterized by especially complex geometries – such as implant-supported bridges and screwed abutments – should continue to be sent to a Zfx milling center. This is because the user can be confident that they will achieve the required accuracy.

### Zfx™ Inhouse5x Upgrades

#### Upgrade 1: Wet processing

Upgrade for grinding of ceramics and composites

#### Upgrade 2: Automation

It allows the automatic tool and blank positioning. The automation can be adjusted to the individual laboratory's needs

#### Upgrade 3: High-performance metal processing

Upgrade for cobalt-chromium processing

Further informationen:  
[www.zfx-dental.com](http://www.zfx-dental.com)



### Zfx™ Inhouse5x at a glance

- × Open system (STL data files)
- × Compact dimensions - One-piece body weighing over 200 kg for high stability and improved milling performance
- × Simultaneous 5-axis milling, A- and B-axis with servo-motors
- × Dry and wet machining
- × Milling and grinding on one machine
- × High-frequency spindle with 60,000 rpm up to 100,000 rpm (shaft with 4 mm diameter)
- × Spindle power: 8 Ncm (300 Watt)
- × Automatic tool magazine for up to 24 tools (Part of the basic package!)
- × Tool length: 37 or 50 mm
- × Automatic changer for blanks and blocks (2- till 12-fold)
- × Blankholder with Ø 100 mm
- × Replacement tool management
- × Tool-break detection and automatic length measurement
- × Traverse range (x, y, z axis): 100 x 100 x 24 mm
- × Rotation axis: 360° (endless)
- × Swivel axis: ± 30°
- × Repeat accuracy: 0.001 mm
- × Concentric accuracy: 0.002 mm
- × Direct tool chucking: 4 mm
- × Dimensions (W x H x D): 620 x 970 x 980 mm
- × Weight: 200 kg

### Materials

- × Zirconia
- × Glassceramic (IPSe.max®, IPSEmpress® etc.)
- × Composite (Lava™ Ultimate, Vita Enamic®)
- × PMMA
- × Wax
- × Cobalt- chrome

### Indications

- × Inlays and Onlays
- × Veneers
- × Crowns
- × Individual abutments on metal bases
- × bridges of any span length
- × two-pieces implant bridges on metal bases