

Zfx™ Mill inhouse



Technical Specifications

Zahn success formula



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General

Fields of application	dental technology
Machinable materials	<ul style="list-style-type: none">× plastics× zirconium oxide× wax

Basic System

x/y/z positioning range	100 x 100 x 40 mm
Drives	<ul style="list-style-type: none">× precise ball screw spindles for the 3 linear axes with 4 mm lead× motor resolution < 1 µm× ground steel precision guide rails
Repetition accuracy	± 0.005 mm
Housing	<ul style="list-style-type: none">× complete encapsulation of working area with closable front cover× front lid switch (when opened, the machine switches into the halt mode)
Working area illumination	yes
Measurements (W/D/H)	ca. 400 x 385 x 410 mm
Weight	ca. 45 kg

Rotary Axis

Features	<ul style="list-style-type: none">× rotary axis with highest true running accuracy for processing workpieces on their full circumference of 360 degrees× Harmonic Drive gears free from backlash
Axis measurement	<ul style="list-style-type: none">× automatic measurement of rotary axis and automatic axis compensation for absolutely exact results
Fixing device	<ul style="list-style-type: none">× integrated fixing device for round universal blanks with a thickness of 10 to

Controller

Features	<ul style="list-style-type: none">× type CNC 300 · synchronic interpolation of 4 axes× great smoothness of running, powerful and accurate due to microstep operation× high processing speed due to exponential acceleration ramps× look-ahead feature for continuous velocity along the path
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Jaeger-Spindle

Features	<ul style="list-style-type: none">× high frequency spindle SF 170× nominal power under constant load (S1): 170 W× maximum power output (Pmax): 240 W× rotational speed range up to 60,000 RPM× collet chuck 3 mm× radial deviation at internal cone of the precision shaft < 1 µm
Collet chuck	<ul style="list-style-type: none">× pneumatic for tools with 3 mm shank diameter
Tool change	<ul style="list-style-type: none">× automatic with quick chucking device× tool length detection× tool breakage monitoring

Dust Extraction

Features	<ul style="list-style-type: none">× openings in the rear panel of the working area for dust extraction× connector for hose at the side of the housing× 24 Volt output for connecting the switching unit
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