



EPX-SF

THE CUTTING EDGE FOR SUPERIOR TOOL PERFORMANCE

Edge preparation directly increases your customer's tool life, precision, workpiece quality and overall cost-effectiveness.

The EPX-SF is designed to address productivity targets, rigorous quality and offer a flexible solution, to deliver superior cutting tool performance and succeed in precision-critical industries.

ANCA
CNC MACHINES



CONSISTENT & PRECISE TOOL EDGE PREPARATION

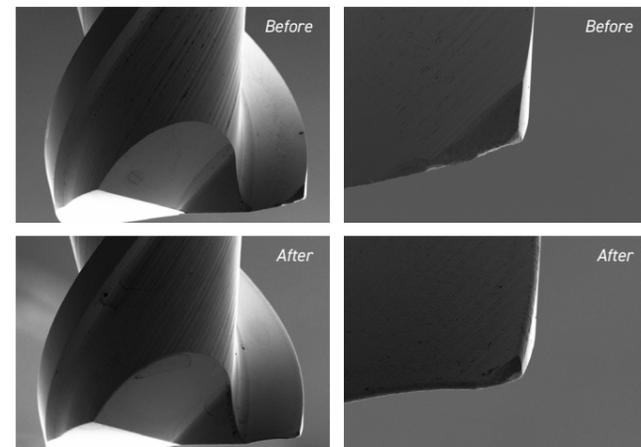
In a world where every detail matters, the EPX-SF seamlessly adapts to your production system and addresses three specific challenges:

COMPETITIVENESS

Unmatched Automation: Process up to 1,900 tools in 24 hours, lights out operation with the push of a button.

Resource Optimisation: Minimise process setup and learning curves. The EPX-SF standardisation enables use by all operators.

Differentiation is key: Advanced edge preparation is a significant selling point. The EPX-SF utilises Machine Learning to tailor unique recipes, enhancing your unique tool IP value proposition.



EPX SF restored tools carbide structure at the microlevel.

PROFITABILITY

Secure more contracts: The EPX-SF transforms edge preparation into a strategic selling advantage, in industries demanding clean, precise, and consistent cuts.

Efficiency in one go: Achieve flawless quality with a single pass. By eliminating unnecessary post-processing, you will save time, money and labour.



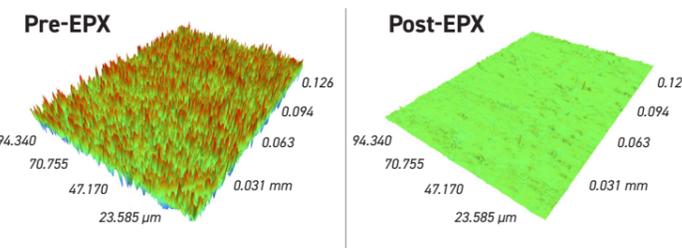
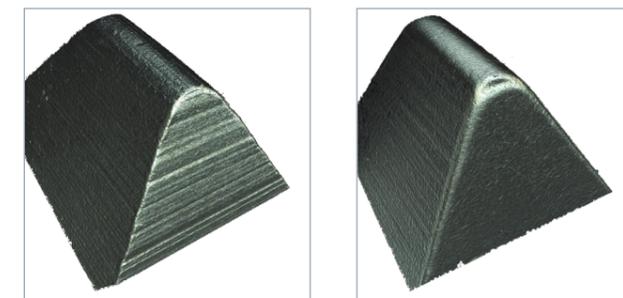
Uninterrupted production with automated loading system.

QUALITY

Traceability at your fingertips: Save, track and retrieve quality results in the machine, ensuring every product meets your quality expectations.

Repeatable, controllable, predictable: Achieve nano-smooth surfaces (roughness under 100 nm) and micron-honed edges in record time, with controllable K-factor.

EPX-SF APPLICATIONS ON TAPS



EPX-SF can achieve 100nm roughness, without changing media.

Product Features



With 11 axes, the machine delivers consistent, predictable and controllable nano-smooth surfaces ($R_a < 100\text{nm}$) and micron-honed edges with adjustable K-factor.



Engineered to master complex tool geometry, EPX-SF process is designed to deliver results typically under a minute per tool and at a minimal cost of less than a dollar.



With the correct recipe, EPX completes multiple steps in one cycle, achieving a 400% reduction in surface roughness without changing the media.



Featuring cyclic mode, the EPX-SF can target specific areas to combat surface burrs and imperfections, with adjustable angles ensuring optimal chip flow.



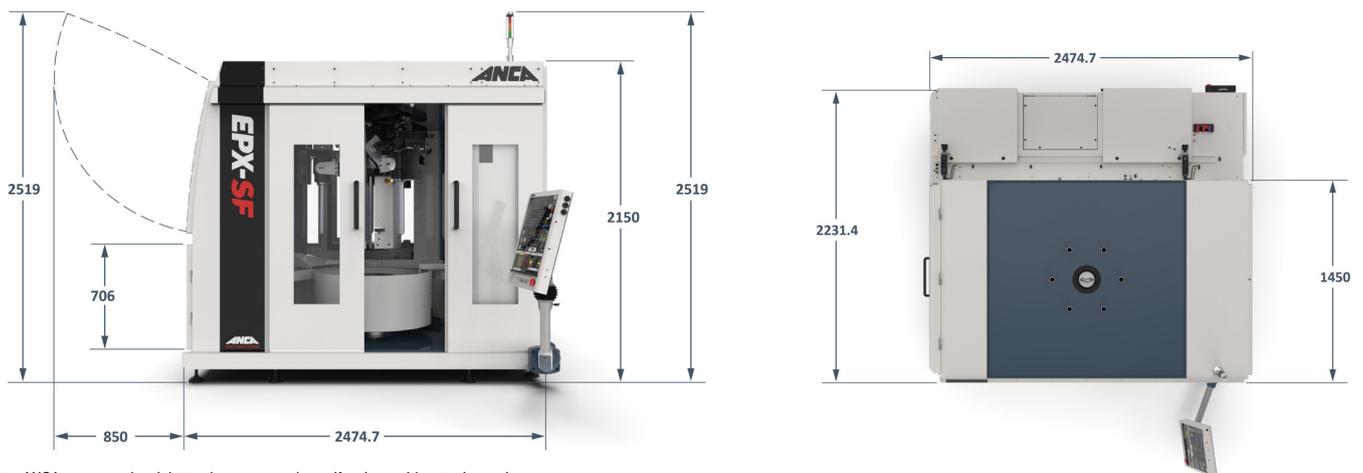
AI-assisted guidance on the horizon, you'll receive tailored recommendations for new tool geometries and recipes, driving continual enhancement and process efficiency.

ANCA EPX-SF TECHNICAL DATA/SPECIFICATIONS

Weight	3165kg+	
Working Power Consumption	10kW+	
Dimensions	L 2414mm x W 2191mm x D 2150mm Drum Diameter: 940mm Media Volume (l): 168	
Performance	Heads:	3
	Tool Diameters (mm):	3-25.4
	Tool Length (mm):	50-250
	Max workpiece weight (kg):	4
	Head rotational speed (RPM):	2000
	Avg. Edge Radius (µm):	16.53
	Surface Finishing (µm):	0.05
	Head rotational speed (RPM):	2000
	Media type (wet/Dry):	Dry
Process Time	Process time per head (tool/min):	1*
	Process cycle with automation (tool/min):	2*
Tool Management	Capacity (# of tools):	4x pallets
	Automated Collect replacement:	No
	Rotational direction (CW/CCW):	CW/CCW
	Automated Angular position (°):	35

OTHER FEATURES

Safety features	Dust filtering system	✓
	Column locking mechanism for maintenance	✓
	Anti collision system	✓
	Hands off drum replacement	✓
	Deadman switch	✓
Others	Industry 4.0 Enabled	✓
	Trolley	✓
	Remote technical assistance	✓
	Remote control of HMI	-
	ERP Connectivity	✓
	Tool Cleaning	✓
	Purge	✓
	Automated media level compensation	✓
	Drum replacement mechanism	✓
	Surface finishing turn key solutions	✓



Note: ANCA reserves the right to alter or amend specifications without prior notice.
(+) Indicates that this figure is an estimated value.

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