

Sarix S.A.

EDM Europe
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User-Friendly CNC for High-Precision 3D Micromachining EDM Industry Roundup: New Products & Services

SX-series micro-EDM machines were developed by **Sarix S.A.** to answer the growing demand for product miniaturization. The SX-100 HPM and SX-200 HPM allow electroerosion to be used in very fine 3D machining operations, cutting microholes and microforms in such difficult-to-machine materials as titanium, hardened steel, tungsten carbide, polycrystalline diamond, and even some ceramics. An innovative Multi-Axis-Motion micro-EDM CNC controller makes high-performance micromachining of difficult moulds and mechanical parts not only possible but economical.



Employing the user-friendly handheld controller, SX machines are highly configurable for applications requiring up to 8 axes of movement within simultaneous 4-axis machining, and they can offer the performance of a high-productivity machining centre. Microdrilling, microsinking, and 2.5D or 3D micromilling are available as configuration options that can be added to the machine at any time, along with new integrated computer-aided manufacturing software.

A built-in micro wire EDM device allows unattended automatic electrode shaping and measuring. Finally, an automatic electrode changer and an automatic electrode refeeding and C-indexing and rotating spindle complete the rundown of components that confer high system flexibility and autonomy.

The new **Sarix** control unit features self-learning software for drilling and milling technology that can improve the micro-EDM process, and includes electrode breakthrough detection. Microcavities and microstructures with surface finishing down to 0.05 μm Ra can be milled using EDM techniques, and smaller, deeper holes can be microdrilled. By employing the latest SXUFPS generator, very accurate holes less than 10 μm in diameter can be produced. High positioning resolution of 0.1 μm allows micromachining accuracy of better than 1 μm .

These capabilities enable the user to explore new applications and thus open new market opportunities.

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