3D and Multi-Axis-µEDM CNC controller SX-CU offers new possibilities on the Micro-Machining with new dedicated SARIX Technologies of 3D Micro-Milling. Its combination with a continuous automatic wear compensation spindle and a “built in” Micro Wire-EDM electrode grinding device opens up new perspectives on the micro machining of:

- 3D Micro Milling of complexes forms with radius corner down to 3 microns
- perfect fins walls and microstructures
- high precision of smaller, deeper and more precise perfect round holes
- high surface finishing of Micro Sinking cavities

SX-µEDM-CAM SARIX Modul compatible to ESPRIT CAD-CAM software, integrates the new Micro-EDMing process “Multi-Axis-Multi-Step” for the machining down to 10 microns with Ra up to 0.05 microns.

- High precision machining and accuracy up to ±1 micron.
- High performance Micro Fine Pulse Shape generator SX-MFPS for 3D Micro EDMing machining using tubes and solid electrodes from 5 microns to 3.0 mm.
- High Speed Micro EDM Drilling Technology with automatic breakthrough detection device.

“High production capability concept” upto 8 axis for complex work pieces with X-Y-Z, back slide W-axis (Z2), C and A/B indexing axis.

PERFECT ROUND HOLES
CONCENTRIC & ACCURATE HOLES
HOLE TAPER CONTROLLED
NO ANGLE LIMIT
NO BURNING EFFECT
NO MATERIAL ALTERATION
WITHOUT ENTRANCE AND EXIT DEFORMATION
HIGH PRODUCTIVITY QUALITY
HIGH QUALITY SURFACE
HIGH PRECISION FINISHING

IF YOU NEED THIS TOP PERFORMANCE WITH REDUCED MACHINING TIMES, WITHOUT MATERIAL ALTERATION, CALL SARIX OR VISIT US @ WWW.SARIX.COM

SARIX SA
6616 LOSONE
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TEL +41 91 785 81 71
FAX +41 91 785 81 77
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THE BEST MICRO EROSION TECHNOLOGY
HIGH PRECISION 3D MICRO EDM MILLING MACHINES

SARIX
3D µEDM Milling

3D µEDM
TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Machine</th>
<th>SX-100 HPM</th>
<th>SX-200 HPM</th>
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<tr>
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Our specifications are subject to any change, giving you a continuous technological advantage.

TYPICAL CONFIGURATION
SX-200 Micro EDM Milling Version Basic 2.5

- SX-200-HPM machine including SX-MPS, Micro Pulse Shape Generator
- SX-CU, CNC Control UNIT with SXICON, Software Icon Editor for freeprogrammation
- SX-KBS, Knowledge Base - Data Base software
- SX-µEDM-Milling “BASE Modul”

Options: SX-µEDM-Milling softwares also available on version 2.5 axis including:
- SX-µEDM-CAM “Base”, integrator for Multi-Axis Erosion machining
- SX-ESPRIT CAD-CAM – Basic 2.5 Modul
- SX-PL-XYZ, Micro EDM Multiaxis-erosion software X-Y-Z axis

Options: SX-µEDM-Milling softwares also available on version 2.5 axis including:
- SX-MPS, Micro Fine Pulse Shape generator for Micro Fine Machining with ultrafine finishing
- SX-DA, Dielectric unit with conductivity and temperature control for mass production (for deionised water or dielectric oil)
- SX-HP, High pressure flushing unit 70 bars
- SX-A344-L series, High precision rotating spindle with Automatic electrode refeeding and wear compensation with through flushing function
- SP 06 series, Automatic refeeding collet for electrode down to 45 Microns
- SX-ARIANNE, Wire grinding device for the automatic production of Micro electrode for Micro holes and shape holes down to 10 Microns

SX-CU CNC CONTROL UNIT

- SX-CU, controller with enhanced Automatic Configuration
- Unlimited program capacity; number, length and calls
- Free and unlimited Micro EDM technology settings
- SX-MMI, “On board” friendly user editing and programming capability
- High quality 8.4” TFT color display, 3.5” floppy disc Ethernet connection
- Virtually up to 16 axis CNC control within 4 axis on simultaneous motion
- Standard X,Y,Z and rotation speed axis control (W,A,B,C…optional)

OPTIONS

- SX-HPS. High Power Pulse Shape generator for higher stock removal
- SX-C-axis, indexing C function for RHP and A344 series rotation spindle
- SP-MDC, Multi diameter automatic refeeding collet 0.2-1.0 mm
- SX-W, CNC Programmable W-backslide axis (Z2) for guide holder height position
- SX-TH, “Tilting Head” device for SX-A344 Rotating spindle with the SP08 collet type
- SX-DNC, Sequencer software for unlimited programmable number of holes
- SX-AB100C, High precision single or double indexable and programmable A/Braxis, designed for submerged conditions
- SX-MDH, Micro Deep Hole drilling device - depth ratio 100-150 time
- SX-EAD, Electrode Automatic Distributor device

ACCESSORIES

- SP 02, High precision collet
- High precision solid carbide electrodes down to 45 Microns
- High precision solid carbide electrodes and tubes
- Brass & Copper single hole and coreless electrodes tubes
- Tooling, fixtures, microscopes, instruments, filters...