

THE BEST MICRO EROSION
TECHNOLOGY

SARIX

3D μ EDM Milling

HIGH PRECISION 3D MICRO EDM MILLING MACHINES

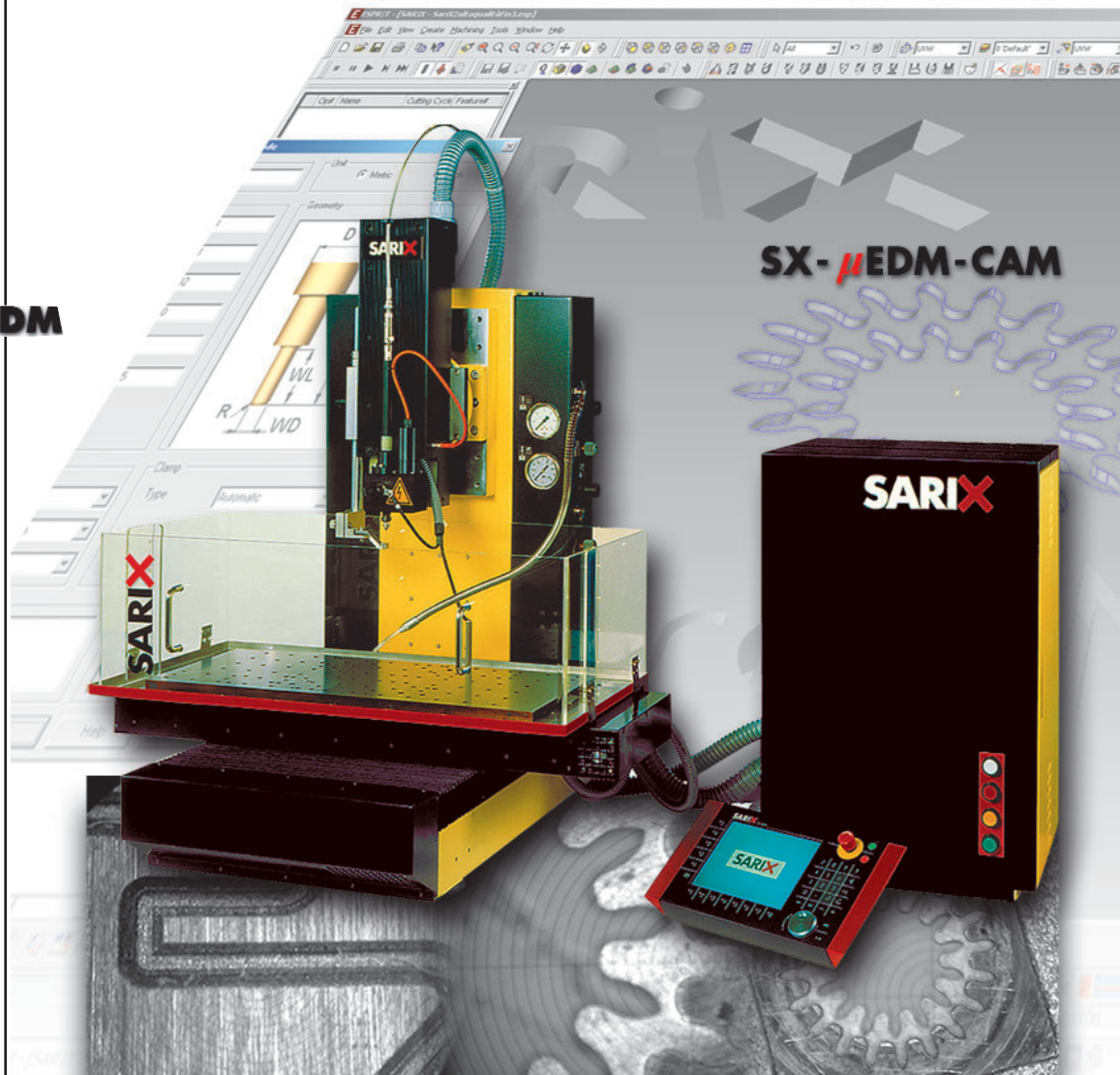
SX- μ EDM-CAM

3D μ EDM

- 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,
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- **NEW 3D and Multi-Axis- μ EDM 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
- **NEW SX- μ EDM-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**.
 - 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.

TECHNICAL SPECIFICATIONS

Machine	SX-100 HPM	SX-200 HPM
Type	High Precision	High Precision
Work table mm	L 510 l 270	L 700 l 300
Travel X axis mm	250	350
Travel Y axis mm	150	200
Travel Z axis mm	150	150
Travel W (Z2) axis	150	150
Z axis feed rate mm/min	450 max	450 max
X-Y axis feed rate mm/min	600 max	600 max
Precision of positioning	± 2 µm	±2 µm
Resolution	0.1 µm	0.1 µm
Work piece weight	~ 20kg	~ 50kg
Net weight	~175kg	~450kg
Dimensions mm	L 650 l 600 h 900	L 900 l 820 h 950

*option

	SX-MPS	SX-HPS
Generator:	MICRO PULSE SHAPE	HIGH PULSE SHAPE
Freerun voltage	60 ÷ 255 V	fixed voltage
Frequency	1 ÷ 250 pos.	1 ÷ 100 pos.
Current pulse	1 ÷ 200 pos.	1 ÷ 200 pos.
Dimensions mm	135 x 110 x 500	
Control Unit	SX-CU	
Power supply	230 V / 50 Hz	
Nominal power	650 VA	
Dimensions mm	450 x 400 x 690	
Dielectric Unit	SX-DA	
Capacity	25 liters	
Dielectric	deionised water or oil	
Dimensions mm	500 x 750 x 620	

Our specifications are subject to any change, giving you a continuous technological advantage

TYPICAL CONFIGURATION SX-200 Micro EDM Drilling Version Basic 2.5

- SX-200-HPM machine including SX-MPS, Micro Pulse Shape Generator
- SX-CU, CNC Control UNIT with SX-ICON, Software Icon Editor for free programming
- **NEW SX-µEDM-Milling "BASE Modul"**
Package Software for **3D Micro EDM Milling** in 25 axis including:
NEW SX-µEDM-CAM "Base", integrator for Multi-Axis-Erosion machining
NEW SX-ESPRIT CAD-CAM – Basic 2.5 Modul
SX-PL-XYZ, Micro EDM Planetary software
Options: SX-µEDM-Milling softwares also available on version Production as 2.5 axis + 2 indexing and Moulding as 3D (3axis + 2 indexing)
- SX-MFPS, 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)
- **NEW SX-A340-L**, High precision rotating spindle with Automatic Electrode refeeding and wear compensation with through flushing function
- **SP 06**, Automatic refeeding collet for electrode down to **45 Microns**
- **SX-HP**, High pressure flushing unit 70 bars
- **SX-Wdress020**, Wire Dress Device, automatic electrode grinding unit for shape and round electrodes down to **5 Microns**

NEW SX-CU CNC CONTROL UNIT

- Unlimited program capacity; number, length and calls
- Free and unlimited technology settings
- **SX-MMI**, "On board" friendly user editing and programming capability
- **SX-EAC**, "Enhanced Automatic Configuration" System
- High quality 8.4" TFT color display, 3.5" floppy disc driver, 1.44 MB
- Virtually up to 16 axis CNC control
- 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
- **NEW SX-C-RHP**, High Precision Rotating and indexing C axis
- **NEW SX-W**, CNC Programmable W-backslide axis (Z2)
- **SX-CC**, "CriCri", Electrode wear compensation system for shape electrode
- **NEW SX-TH**, "Tilting Head" device for SX-A340 Rotating spindle
- **SX-DNC**, Sequencer software for unlimited programmable number of holes
- **SX-AB100C**, High precision single or double indexable and programmable A/B-axis, designed for submerged conditions
- **SX-ST200 & ST300**, collapsible tank for submerged conditions
- **NEW SX-EAD**, Electrode Automatic Distributor device

ACCESSORIES

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

