

THE BEST MICRO EROSION
TECHNOLOGY

SARIX
3D μ EDM Milling

PERFECT ROUND HOLES

CONCENTRIC &
ACCURATE HOLES

ACCURATE COMPLEX HOLES

HOLE TAPER CONTROLLED

NO ANGLE LIMIT

NO BURNING EFFECT

NO MATERIAL ALTERATION

WITHOUT ENTRANCE AND
EXIT DEFORMATION

HIGH PRODUCTIVITY

HIGH SURFACE QUALITY

HIGH
PRECISION FINISHING

3D μ EDM

IF YOU NEED
THIS TOP
PERFORMANCE
WITH FAST
MACHINING
TIMES, WITHOUT
MATERIAL
ALTERATION,
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SX-200 Dual

HIGH PRECISION MACHINING PROCESS COMBINATION

3D Micro EDM Milling
+
High Speed
Micro End Mill Milling



- The versatility of the **SX-200 Dual** machine brings now new innovative possibilities on the **3D high precision Micro Machining**.
- The capabilities of the combination of the high speed end mill milling gives now the advantages of an effective machining time reduction.
- Micro end mill used up to 60'000 rpm associated to the milling machining strategies of the **SX-3D Milling CAM** software prepares the fine roughing of the work piece.
- The same Milling CAM software execute the finishing of the work piece with the **SARIX** modul **SX-3D Micro EDM Milling CAM** through efficient machining electrode wear compensation and Micro EDM strategies.
- The additional automatic electrode wear compensation and electrode re-feeding rotating spindle associated with the indexing function (C) and the electrode shaping on the Wire EDM device (**SX-Ariane**) opens up new opportunities of size and form electrode for a full continuous "One setup" machining process.
- **Micro EDMing** machining technology with solid carbide electrode from **45 Microns** to **3.0 mm**.
- **Micro EDM Milling** of Micro forms and Micro structure down to **20 Microns**
- **Micro EDM Milling** high surface finishing down to **Ra 0.1** with the **SX-MFPS Micro Fine Pulse Shape** generator.

TECHNICAL SPECIFICATIONS

Machine	SX-200 HPM
Type	High Precision
Work table mm	L 700 I 300
Travel X axis mm	350
Travel Y axis mm	200
Travel Z axis mm	200
Travel L (Z2) axis	200
X-Y-Z-L axis feed rate	600 mm/min
Micro EDM spindle speed	max 850 rpm
Micro Endmill spindle speed	max 60'000 rpm
Precision of positioning	±2.0 µm
Resolution	0.1 µm
Table load/weight	~ 50kg
Net weight	~450kg
Dimensions mm	L 950 I 850 h 1300

	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	SX-HC on option
Capacity	25 liters	115 liters
Dielectric	deionised water or oil	
Dimensions mm	500 x 780 x 650	

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

In the region where avant-garde technology has made EDM history.



TYPICAL CONFIGURATION SX-200 DUAL

- **SX-200-HPM** machine including **SX-MPS**, Micro Pulse Shape Generator
 - **SX-CU**, CNC Control UNIT with **SX-ICON** Editor free programming software
 - **SX-KBS**, Knowledge Base - Drilling Data Base Software
 - **SX-MMI-Remoting**, machine monitoring remoting software
- **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
SX-DA-HC, High filtering capacity unit on options (deionised water or dielectric oil)
- **SX-HP**, High pressure flushing unit 70 bars
- **SX-L**, CNC Programmable axis (Z2) for End Mill machining
- High Speed spindle with controller and SARIX CNC interface
- **SX-C-A344L**, High precision rotating spindle with automatic electrode wear compensation and electrode re-feeding with C indexing function
- **SP 06** collet for SX-A344 automatic spindle 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-PL**, Multi-axis-motion software
- **SX-3D Micro EDM Milling**, 3D part model software integration for Micro EDM Milling and Micro End Mill machining combination.

SX-CU CNC CONTROL UNIT

- **SX-CU**, controller with enhanced Automatic Configuration, unlimited program capacity
 - Standard Virtually up to 16 axis CNC control with:
 - 8 axis motion: X, Y, Z, L (Z2), A, B, C and automatic electrode changer
 - Unlimited program ISO, G-Code capacity; number, length, calls, variables...
 - *Free and unlimited Micro EDM technology settings*
- **SX-MMI**, "On board" friendly user editing and programming capability
 - High quality 8.4" TFT color display, USB and Ethernet connection

OPTIONS

- **SX-HPS**, High Power Pulse Shape generator for higher stock removal
- **SX-PG**, Precision guide holder for standard and extended ceramic guide
- **SP-MDC**, Multi diameter automatic re-feeding collet for diameters from 0.2 to 1.5 mm
- **SX-AB100C**, High precision single (B) or double (A/B) programmable and indexable axis, designed for submerged conditions (with 3R or Erowa chuck holder)
- **SX-TH**, "Tilting Head" device for SX-A344 Rotating spindle with the SP08 collet type
- **SX-MDH**, Micro Deep Hole drilling device - depth ratio 100-150 time
- **SX-BTD**, automatic electrode Breakthrough Detection Software

