

# SARIX Micro EDM Technology

## The Best Micro Erosion Technology

### High performance Micro Machining technology

The Micro-machining gains more and more place on the actual industries and the miniaturization trend continues.

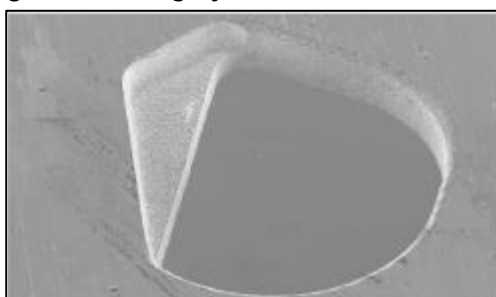
Sarix SA of Losone, Switzerland, has finally made it possible to apply Electro-erosion to a very fine machining operation. The machining of small size, which so far has been with difficulty possible by limited conventional highly expensive equipment, has been now improved to a technology of a great potential.



New Micro-EDM-Milling machines SX-100 and SX-200

Since the last years, as major leader on the Micro-EDM-Machining, Sarix is always on the front of the highest performance Micro-machining. Through its strong and accumulated experience in this field, Sarix has been able to bring EDM (Electrical Discharge Machining) to the increasingly stringent requirements of the Micro-Machining field.

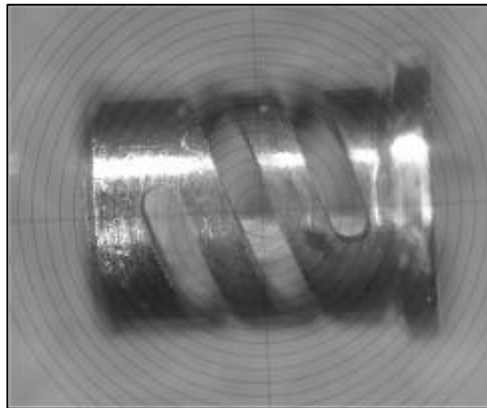
It thus shows that small machines can do Micro and very High-Precision jobs. Little in both, cost and dimensions, but their performance and their output are great and highly flexible.



Micro EDM Milling of Micro shape hole 200 µm with 50 µm step cavity

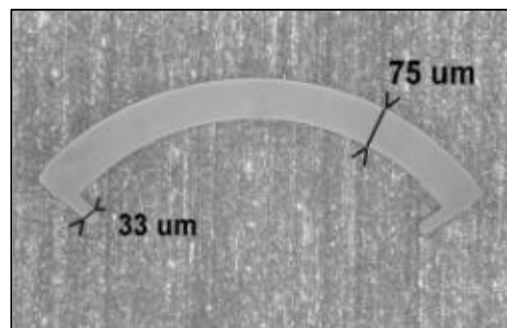
### An innovative micro technology

To do so, the Ticinese Company developed a new generation of Micro-Shape-Generator SX-MPS integrated directly into a Micro-EDM-Head on a high precision 3 axis CNC machine.



Micro Nitinol instrument OD 0.9 mm with 0.17 mm slots

Sarix offers now an innovative Micro EDM Technology from a single complete High Precision Micro EDM-Machine, to various and full «High Productivity Capability Concept». Presented since a year and deeply introduced on this exigent market, the new machine, SX serie, continue to demonstrate real applicative solutions and surprising new ways of Micro-machining process.



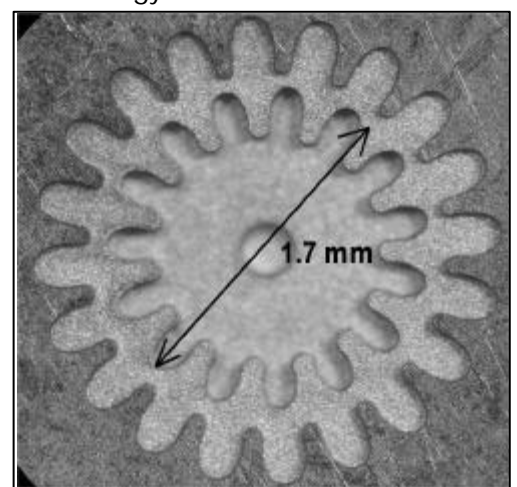
Micro EDM Milling of Micro extrusion die depth 0.7 mm

### 3D Micro EDM Milling

Thanks to its new extended machine size, together with the SX-100, the SX-200 have an evolutive Multi-Technology Process combined to a 3D Multi-Erosion-Axis-Motion CNC (SX-CU) for several full automatic indexing axis and loading systems for medium and mass production. Employing a «user-friendly» Hand-held CNC control, the SX line gives the capability of automatic and completely hands-free electrode shaping using a machine's built-in Micro Wire EDM device. Its new additional Micro-Fine-Pulse-Shape generator, SX-MFPS, opens up new opportunities for smaller, deeper and more precise perfect round and shape holes.

### Mass production

Its high performance and its reliable machine concept, Sarix contribute a lot on the development of new technological systems and device. The Automotive industry, on the Diesel Common Rail injection, is one of the field who has been able to take the most advantage on mass production market. Other industries; Medical, Aerospace, Microelectronics and Watchmakers took also benefit of this economical and attractive technology.



Micro EDM Milling of 2 level micro gear mold module 0.1mm

High precision Micro EDM Sinking, high quality surface finishing on Micro Molding, very accurate Micro drilling less than +/- 1 micron, Multi-axis Micro-EDMing are the leading edge of the New machine generation offered by Sarix. Successfully on all range of materials, including hardened steel, stainless steel, titanium, CBN-PCB, ceramics and most of it on solid carbide, the Sarix Micro EDM machines makes it possible, to achieve round holes and shaped holes down to 0.010 mm with wall-radius down to 3 microns and with Ra 0.05 surface finishing without any material deformation ensuring perfect geometry, giving the essential on the most strictest requirements of the Micro-machining fields.

THE BEST MICRO EROSION TECHNOLOGY  
**SARIX**  
 3D µEDM Milling

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