

## Micro-erosion technology

# Sarix SA

SARIX SA of Losone, Switzerland has made it possible to apply Electro-erosion to a very fine machining operation, the Micro Erosion, which so far has been possible only to limited conventional, highly expensive and poorly competitive machining equipment. Though its accumulated experience in this field, during the last eight years (founded in 1994), SARIX has been able to bring EDM (Electrical Discharge Machining) to the increasingly stringent requirements of micro-machining. 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. To do so, the Swiss company developed a new generation of Micro-Shape-Generator (MPS) integrated directly into a Micro EDM-Head on a high precision three-axis CNC machine. SARIX offers now an innovative Micro EDM Technology from a single complete high precision Micro EDM-Machine, SR-HPM, to a fully «high production capability concept» with its new extended machine size SX-200, with Multi-Technology Process combined to several full automatic indexing and loading systems for mass production. The new SARIX Generator opens up new opportunities for smaller, deeper



and more precise, perfectly round and shaped holes. Its high performance with its associated Micro EDM technology can be successfully used wherever there are suitable applications such as Injection nozzles, Automotive, Spinnerets, Micro-connectors, Micro Mechanics, Micro-Electronics, Micro Molds, Aeronautic, Medical field and any else where high quality and high precision machining is needed.

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 have been able to achieve holes down to 0.020 mm, with surface finishing of Ra 0.1 without any material deformation, which is essential on most applications where high performance is required.

## Microtechnology on the move

# Rudolf Brügger SA

(also on pages 50 to 53)



Rudolf Brügger SA complies the difficult task to melt traditional handcraft with the dynamism of the new technologies using computerized numerically controlled machines. Constancy, engagement and hard observing of the evolutions of the market will soon bring good results. Within short time the Ticinese firm is

internationally recognized where she distinguishes herself with the production of components in alloy, ceramics, industrial sapphire and ruby. For a firm which makes innovation its leading point to achieve, the aimed levels are soon transformed into an excellent starting point for new incitement and developments.

Thanks to this creativity, today Rudolf Brügger SA is able to work many other materials, such as carbide and titanium. All these materials need complex treatments with miniaturized technologies and tooling that allow the achievement of tolerances up to one thousandth of a millimeter. This precision is dedicated as well to the products used by institutes of scientific or medical research as well as to the big series for industrial applications.

Thanks to accurate checks of each single piece during the entire production at each different phases of the procedure, the furniture of components of highest quality and reliability are guaranteed. Research, innovation, quality and reliability are the outstanding characters of Rudolf Brügger SA which is among the leaders in the production of miniaturized components of quality at the highest level.