

SX100-hpm

High precision drilling *
3D Micro EDM Milling *



SX100 - hpm

TECHNICAL SPECIFICATIONS

TRAVEL AXIS	X = 300, Y = 150, Z = 200 mm
POSITIONING PRECISION	$\pm 2.0 \mu\text{m}$, Resolution = $0.1 \mu\text{m}$
AXIS FEED RATE	X-Y-Z = 1200 mm/min
TABLE SIZE and LOAD	L = 510, d = 270 mm load of ~25 kg
DIMENSIONS	L = 1200, d = 1200, h = 2000 mm Weight = 850 kg
POWER SUPPLY	400 V - 3 Ph/ 50 Hz Power 2 KVA
DIELECTRIC UNIT	Deionized water or oil dielectric unit SX-DA capacity 25 liters

HIGH PRESSURE FLUSHING 70 bar through electrode tube

* 3D MICRO EDM MILLING CONFIGURATION

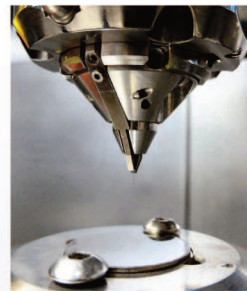
SX-Arianne : Electrode Wire Grinding Device
SX-C-A340L : Automatic electrode re-feeding spindle with C indexing
SX-3D pEDM Milling CAM: 3D Model Software part programming

Repeatability below one micron

The latest SARIX precision electrode collet, **SP12**, assures a slack-free and repeatable holding of the electrode of 30 micron.

In production the achievable runout of the electrode is less than **1 micron** and remains constant even when the collet is changed or the electrode is re-feed within the collet.

The collet design integrates the possibility to easily adjust the eccentricity of the electrode position and the axial tilt of the electrode.



SP12 High precision collet

New precision manual guide holder device

Even if the automation capabilities of the machine tools are increasing continuously, high precision manual setup systems are still highly required for medium and low volume production cases.

The latest manual guide holder offers user-friendly height guide positioning from top to bottom of the work piece keeping the perfect centering setup.

The integrated retractable device leaves the quick access for the operator of the working area and the work piece under the guide holder.



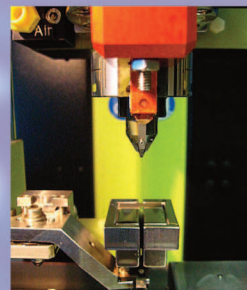
PG-S-M manual height adjustable guide holder

Deeper and highly precise

The best high precision deep hole drilling technology for the extreme deepest and smallest hole. Perfect deep hole drilling motion control specially developed for the carbide drilling needs.

The astonishing results obtained by the combination of a "play free" guide reaching ratio up to 150 times depth/diameter. Example: **hole 0.10 mm +/- 5 micron to 15 mm.**

Micro EDM pulses controlled by the SX-MPS and SX-MFPS generator combined with a non contact electrode guiding.



SX-MDH high precision deep hole drilling device

User friendly control panel

The new PULSAR machines integrates now the high quality 12" color touch screen in an ergonomic and adjustable command panel.

The user friendly overview covers the machining process operation.

Maintenance control and machine status are displayed on several part windows. Log-file and part program machining log are on direct access by Ethernet or USB port.



SX-HMI 12" Touchscreen control unit with joystick command handbox