Schläfli Engineering AG
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acuwire-S

The acuwire-S is designed to hone bores from 0.10 to 0.80 mm. As all Schläfli machines the acuwire-S is perfect to machine hard material as ruby, carbide, technical ceramics and steel. It is possible to mount long single parts as well as multiple short parts. Depending on the workpiece geometry the parts are cast into a quill shaft or a mechanical clamping fixture is used.

Part OD
up to 10 mm (customized solutions for bigger ODs are available)

Bore size range
0.04 – 0.800 mm

Maximum part or arbor length
200 mm

Process control
Siemens SIMATIC S7
linear drive

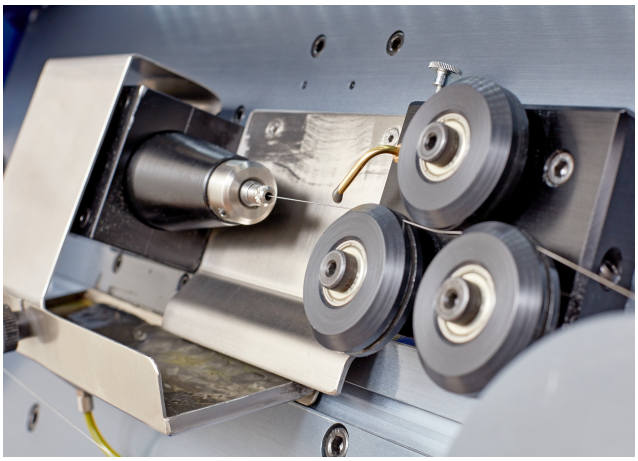
Spindle motor
100-3000 min^{-1}

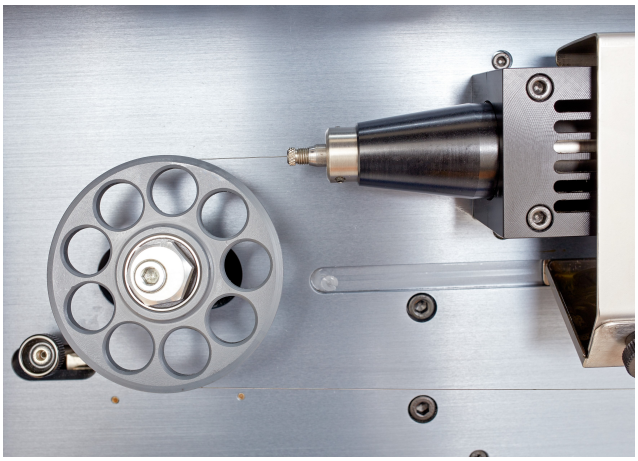
Electrical specification
voltage 110VAC – 240VAC
frequency 50Hz – 60Hz

Dimensions (length x width x depth)
1030 x 475 x 1510 mm

Weight
130 kg







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ANWENDUNGEN

Ceramic tubes

Technical ceramics are found in a broad range of application.

Werkstückdaten

Material	Zirconium oxide
Innendurchmesser	0.90 mm
Aussendurchmesser	1.302 mm
Länge	10.1 mm

Drahthon-Prozessangaben

Erreichte Toleranzen (Durchmesser)	0/+0.004 mm
Materialabtrag	0.6mm
Anzahl Teile / Aufspanung (=1 Arbor)	85
Zykluszeit / Arbor	30 minutes
Zykluszeit / Teil	21 seconds

Carbide workpiece



Werkstückdaten

Material	Carbide
Innendurchmesser	0.1 mm
Aussendurchmesser	3.5 mm
Länge	3.6 mm

Drahthon-Prozessangaben

Erreichte Toleranzen (Durchmesser)	+/- 0.001 mm
Honlänge	3.6 mm
Anzahl Teile / Aufspanung (=1 Arbor)	58
Zykluszeit / Arbor	35 minutes
Zykluszeit / Teil	36 seconds

LIEFERBARES ZUBEHÖR

Standard clamping (arbor)
Customized clamping
Tooling: honing wire with entry and final diameter according to customer specification, gradation: 0.001
Diamond suspension
Casting-system acucast-H
System to mount workpieces onto the honing wire: acuthread
Guiding wire, gradation: 0.001
DeCast 600 system to ectraxt the workpiece
OmniFlow compound to cast the workpiece
Carbide gauge pins