

Schläfli Engineering AG T +41 32 351 50 70 Bahnhofstrasse 22 F +41 32 351 51 05 3294 Büren an der Aare info@schlafli.com Schweiz

www.schlafli.com

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

 $0.04 - 0.800 \, \text{mm}$

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)

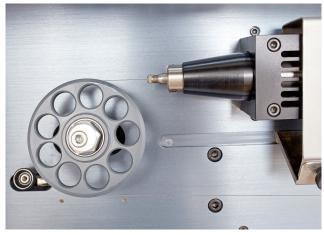
1030 x 475 x 1510 mm

Weight

130 kg









Schläfli Engineering AG T +41 32 351 50 70
Bahnhofstrasse 22 F +41 32 351 51 05
3294 Büren an der Aare info@schlafli.com Schweiz

www.schlafli.com

APPLICATIONS

Ceramic tubes

Technical ceramics are found in a broad range of application.



Carbide workpiece



Workpiece specifications

•	•	
Material		Zirconium oxide
Inner diameter		0.90 mm
Outer diameter		1.302 mm
Length		10.1 mm

Honing process data

Achieved tolerances (diameter)	0/+0.004 mm
Material removal	0.6mm
Number of pieces / clamping (=1 group)	85
Cycle time (group)	30 minutes
Cycle time (workpiece)	21 seconds

Workpiece specifications

Material	Carbide
Inner diameter	0.1 mm
Outer diameter	3.5 mm
Length	3.6 mm

Honing process data

Achieved tolerances (diameter)	+/- 0.001 mm
Honing length	3.6 mm
Number of pieces / clamping (=1	58
group)	
Cycle time (group)	35 minutes
Cycle time (workpiece)	36 seconds

AVAILABLE ACCESSORIES

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