High Precision Wire -The Ideal Tool To Manufacture Perfect Bores!

acuwire-L

bore size range

0.160" - 0.080"inch 0.400mm - 2.000mm metric

max. OD of part

inch 0.400" 10.000mm metric

(customized solutions are available

for larger diameters)

usable arbor length

(wire-DSM length) 11 1/2" inch

290mm metric

wire-DSM process control

NC control Siemens Simatic S7-200 user interface Siemens Touch Screen (other user interfaces are available on request)

wire-DSM spindle motor

500 - 4000 stageless

electrical specifications

200V - 230V 50Hz - 60Hz voltage frequency load 0.6kW

dimensions

inch (LxHxW) 64" x 57" x 26"

metric (LxHxW)

1600 x 1430 x 650 mm

weight 300kg / 660lbs.

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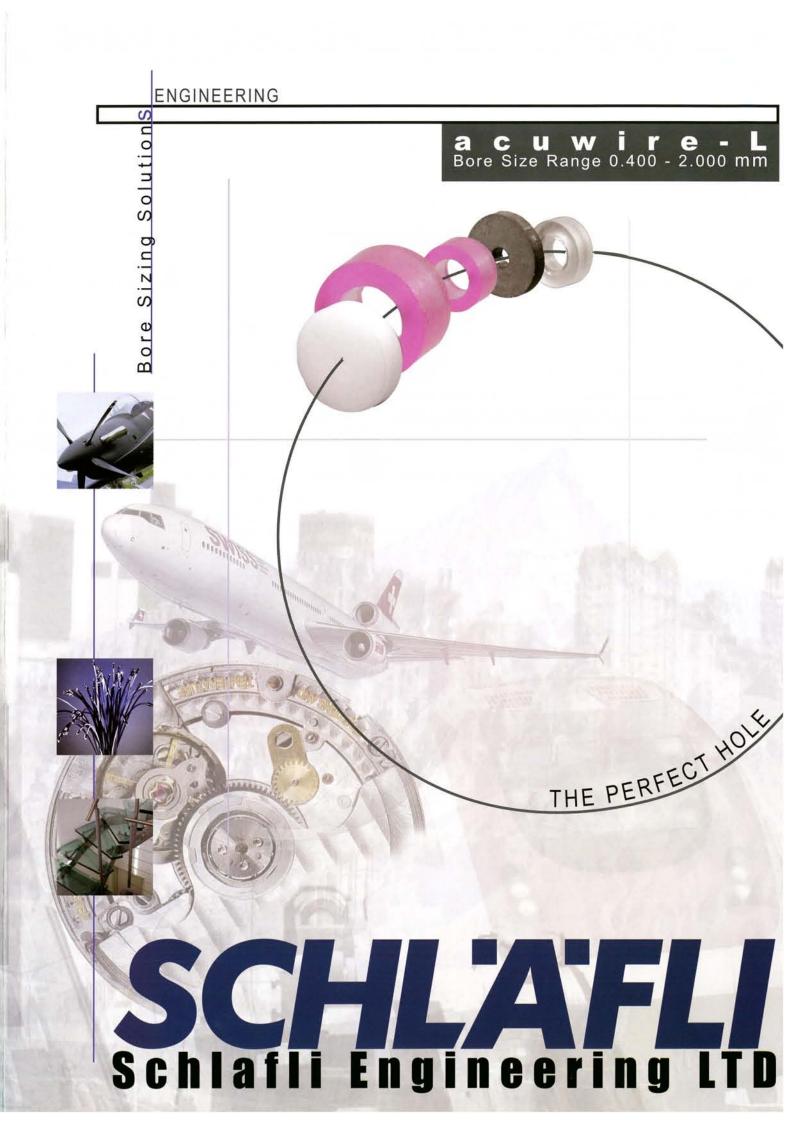


acuwire-L

"patent pending"



(Arbor Casting System)



Medical tubes Small tubes made out of stainless steel find use in various areas in the medical industry; manufacturing processes for implants (stents), as components of implants as well as components of laboratory equipment and devices.

A Stent is a vessel support. It is used to extend vessel strictures of the coronary vessels.





Example Part Data Nitinol tubes

Material ID Surface Finish Length

OD

1.300mm (+/-0.005) 0.058" (+/-0.0002") <Ra 0.05 290mm = 12" 1.600mm = 0.063"

wire-DSM Process Data

metric(mm)

inch

Tolerances achieved +/- 0.003 +/- 0.00012

Stock removal 0.050 0.002

0.005 - 0.0081500 - 1350 a Diamond suspension

grain size

Diameter

Number of pieces per arbor load Cycle time per arbor

15 min. Cycle time per piece

15 min.

2 Ceramic bearings, as shown in the photo, are used in ventilation fans of electronic components; Lap-top computer, projector, laboratory apparatus and metrology equipment to name but a few.

In the past, the bearings of such fans were predominantly made out of tungsten carbide or hardened steel. Ceramic bearings have recently been steadily replacing carbide and steel bearings. Two main reasons caused this change over: noise and life-time! Ceramic bearings run more quietly than and out-live both tungsten carbide and steel bearings.

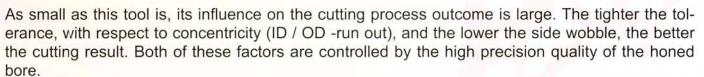
wire-DSM Process Data

metric(mm)	inch
-1,-	
0.003	0.00012
0.001	0.00004
~0.001	~0.00004
0.050	0.002
0.004	F1200 grit
Number of pieces per arbor load	
	38 min.
1100	11.5 sec.
	0.003 0.001 ~0.001 0.050 0.004



Example Part Data Material Ceramic ID 0.450mm OD 5.300mm 1.500mm Length

3 The glass manufacturing industry uses small "cutting wheels", called scribers to cut glass. Depending on the purpose and structure of the glass (heat absorbent, flooring, LCD displays, ...) different tungsten carbide grades as well as ceramic and PCD (polycrystalline-diamond) scribers are being used.



The following chart contains process data for tungsten carbide scribers. We have ready and available processes for both PCD and ceramic scribers. Unfortunately we are unable to release these figures in this brochure. Please contact us for detailed information which we will gladly provide on a bilateral basis.





CERAMIC GLASS CUTTER (SCRIBER)

> PCD GLASS CUTTER (SCRIBER)

wire-DSM Process Data

<u>metric(mm)</u>	<u>inch</u>	
+/- 0.001	+/- 0.00004	
0.0005 - 0.001	0.00002 - 0.0	
<0.001	<0.00004	
0.075	0.003	
0.004	F1200 grit	
Number of pieces per arbor load		
	60 min.	
Cycle time per piece		
	+/- 0.001 0.0005 - 0.001 <0.001 0.075	



Example Part Data

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Material	Tungsten Carbide
ID	0.817mm
OD	3.100mm
Length	0.650mm







