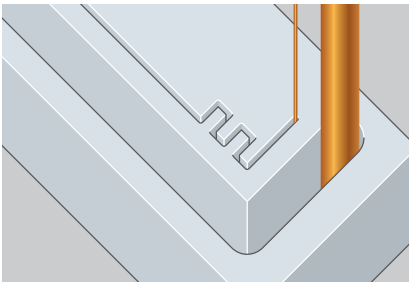


**AC Progress VP**

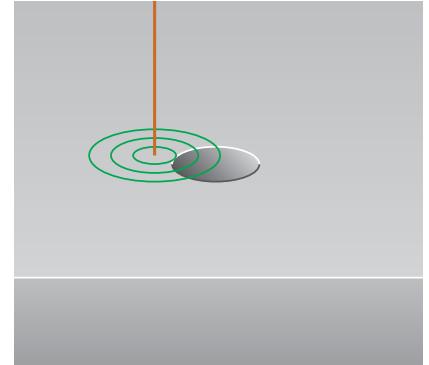
## AC Progress VP At a glance

High performance and productivity  
for high tech applications



### Thin wire from $\varnothing$ 0.05 mm to $\varnothing$ 0.33 mm

To extend the application range of the AC Progress VP systems, an optional kit for using wires with diameters of down to 0.05 mm can be fitted. With this option, shapes requiring an internal radii of just  $32\ \mu\text{m}$  can be achieved.

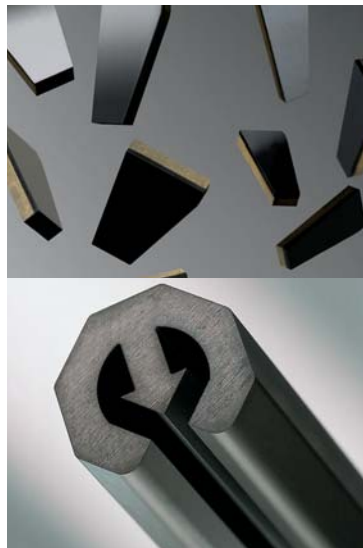


### Cutting PCD

The new module is available as an option and allows to cut economically a vast quality range of PCD (polycrystalline diamond).

### High quality surface finish

A surface finish of  $Ra\ 0.2\ \mu\text{m}$  is reached as standard on all AC Progress VP. Roughness  $Ra$  down to  $0.1\ \mu\text{m}$  can be reached with the SF module option.



### Smart Threading – threading in small holes in maximum safety

Using wires with small diameters means that the production parts must have very small initial holes. With the Smart Threading option the minimum threading diameter for wires measuring 0.10 to 0.05 mm corresponds to the diameter of the wire plus 50 micron. Smart Threading is the ideal accessory for the process of producing fine blanking dies for precision blanking, lead frames and dies for the electronic sector.

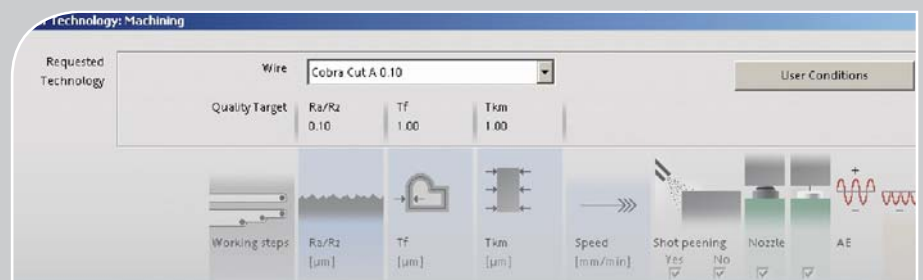


Technical Data		AC Progress VP2	AC Progress VP3	AC Progress VP4
Dimensions (L x W x H)	mm (in)	1640 x 2040 x 2220 (64.56 x 80.31 x 87.4)	1940 x 2300 x 2600 (76.37 x 90.55 x 87.4)	2900 x 3050 x 2850 (114.17 x 20.08 x 112.20)
Total weight (without dielectric)	kg (lbs)	2580 (5688)	3460 (7628)	6000 (13228)
X, Y, Z axes travels	mm (in)	350 x 250 x 256 (13.77 x 9.84 x 10)	500 x 350 x 426 (19.7 x 13.77 x 16.8)	800 x 550 x 525 (31.5 x 21.65 x 20.67)
U, V axes travels	mm (in)	± 70 (2.75)	± 70 (2.75)	800/550 (31.5/21.65)
Taper angle/height	° / mm (in)	± 30/100 (3.93)	± 30/100 (3.93)	± 30/500 (19.68)
Workpiece dimensions (L x W x H)	mm (in)	750 x 550 x 250 (29.5 x 21.6 x 9.8)	1050 x 650 x 420 (41.3 x 25.6 x 16.5)	1300 x 1000 x 500 (51.18 x 39.36 x 19.69)
Max. workpiece weight (without bath/with)	kg (lbs)	200/450 (440/992.08)	400/800 (880/1763.70)	3000 (6613.86)
Volume of dielectric	l (gal)	750 (200)	1000 (264)	1600 (423)
Available wire diameters	mm (in)	0.15 – 0.33 (0.006 – 0.013)	0.15 – 0.33 (0.006 – 0.013)	0.15 – 0.33 (0.006 – 0.013)
	mm	[0.05 – 0.10]*	[0.05 – 0.10]*	[0.07–0.10]*
Best surface finish Ra with SF Module	µm (µin)	0.1 (4)	0.1 (4)	0.1 (4)

\* Variant

### The advantage of using 2 different wires on a single-wire system

The AC Progress VP's unique wire drives system allows a very special function in which two wires can be used in a single contour. Duotec in itself can massively reduce the time taken and running cost's normally attributed to finer wire jobs. After carrying out the main cut on a larger diameter of wire a finer diameter wire is used to detail corners and provide the final trim cuts. Other benefits of Duotec includes a more robust process as the majority of the material removal is completed on a larger diameter wire.



### Automatic process optimisation

Teccut is a powerful instrument making it quick and easy for the operator to automatically select the best parameters to suit their particular. To generate the technology the operator enters a description of the effective characteristics of the piece, such as the height, shape, material used, surface quality and texture that is required. This is done by a conversational method with the control prompting the user for information it requires. Teccut then selects a match for the workpiece but also offers alternatives if for example a priority should be set for surface finish accuracy or speed.

### Subcontractor count, easy to calculate costs

Agieplanning, the ideal module for planning without complicated calculation of contour lengths or cutting rates. Handled by means of a simple job description directly on the machine or on a PC, the machining time, the wire consumption are at hand for cost/planning calculations.



## AC Progress VP2 / VP3 / VP4

Advanced wire electrical discharge machine with high degree of precision and quality

## At a glance

### Achieve more

We commit to a promise.  
That promise is "Achieve more".  
It's a commitment to create the  
right conditions for our customers  
to obtain competitive results.  
When our customers win, we win.

### GF AgieCharmilles

We enable our customers to run their  
businesses efficiently and effectively  
by offering innovative Milling, EDM and  
Automation solutions. A comprehensive  
package of Customer Services  
completes our proposition.

[www.gfac.com](http://www.gfac.com)

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