

## WELL 4500 Precision Vertical Diamond Wire Saw

AGB8580

The AGB8580 WELL precision Vertical Diamond Wire Saw (model 4500) is the most universal wire saw we offer. Compact and easy to use, it meets the needs of industrial applications as well as laboratory applications, reducing time and money spent on polishing.

The proven and much sought-after Well cutting principle is integrated, for cutting medium-sized samples (150mm in height, 150mm in width). To cut small parts, the wire guide rollers can be lowered as close as possible to the sample. In addition, optional micrometric tables are supplied when cutting accurate slices is needed.

Since the patented diamond embedded wire, of approximately 15 metres in length, travels in both a forward and reversing direction, the sample must be firmly secured to the worktable. The tension on the wire on the "T-slotted" table can be adjusted with the tensioning mechanisms supplied with the saw.

An electronic protection device is installed at the heart of the machine for a longer lasting wire. If the cutting pressure on the wire is too high, a warning will be displayed on the screen. With this new technology, even very fine wires can be installed.

An electronic ruler is installed underneath the work table. It is used to display the cutting progress on screen. You can also simply modify the parameters to use it as a depth-of-cut stop allowing you to adjust the stop of the machine precisely.

With its sleek design, it is easy to maintain and use. With the semi-automatic wire winding system combined with the latest drum technology, replacing the wire is staggeringly simple.

Work table with motorised feed is available upon request.



## Technical Specification

<b>Cutting orientation</b>	Vertical
<b>Cutting feed</b>	Gravity ( $\pm 2000g$ )
<b>Primary voltage</b>	230V-110V / 50-60Hz
<b>Secondary voltage</b>	24Vdc
<b>Electric motor</b>	240W
<b>Primary fuse</b>	5 x 20mm, 250V, 3.15A
<b>Secondary fuse</b>	5 x 20mm, 250V, 5A
<b>WiFi</b>	Ready, WiFi B/G
<b>Machine weight</b>	85kg
<b>Overall dimensions</b>	L x W x H; 590 x 480 x 860mm
<b>Machine control</b>	Touch Screen LCD 7", 1024 x 600 Pixel
<b>Drum diameter</b>	158mm
<b>Pulleys diameter</b>	158mm
<b>Table surface</b>	330 x 370mm
<b>CE Certification</b>	CE
<b>USB Output</b>	Yes
<b>Wire diameter</b>	0.13-0.50mm
<b>Wire length</b>	15m
<b>Wire speed</b>	0-2.5m/s
<b>Wire tension</b>	1-20kg
<b>Cleaning of wire</b>	Cutting liquid
<b>Sample weight</b>	<10kg
<b>Sample dimension</b>	< H = 150 x W = 150 $\varnothing$ 150mm
<b>PWS (Protecting Wire System)</b>	Yes
<b>AWS (Automatic Winding System)</b>	Yes
<b>Warranty</b>	12 months

## WELL 4500 Precision Vertical Wire Saw Compatible Diamond Wire

Diameter	Diamond Grit Size	Length
0.13mm	20µm	60m
0.13mm	20µm	120m
0.17mm	20µm	60m
0.17mm	20µm	120m
0.17mm	30µm	60m
0.17mm	30µm	120m
0.22mm	20µm	60m
0.22mm	20µm	120m
0.22mm	30µm	60m
0.22mm	30µm	120m
0.22mm	40µm	60m
0.22mm	40µm	120m
0.22mm	60µm	60m
0.22mm	60µm	120m
0.30mm	20µm	120m
0.30mm	30µm	120m
0.30mm	40µm	60m
0.30mm	40µm	120m
0.30mm	60µm	60m
0.30mm	60µm	120m
0.35mm	64µm	60m
0.35mm	64µm	120m
0.50mm	64µm	60m
0.50mm	64µm	120m
0.70mm	64µm	68m
0.70mm	64µm	138m

Please contact sales@agarscientific.com for a quote for the diamond wire that will be best suited to your application. Please include diameter, diamond grit size and length required. If you are unsure which diamond wire is required, we will be happy to help you.