



Diamond Wire Technology

# DWLS 3000 SO1

## Technical features of the DWLS 3000 SO1 wire sawing machine for contour cutting

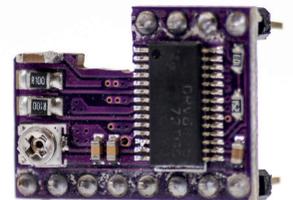
### Applications:

- Cutting and contour cutting in very hard and brittle-hard materials
- Test cuts through composite parts (soft/hard combinations) e.g. tires rubber composite profile or
- CFRP/GRP
- Sawing out a test part to analyze a specific point, e.g. printed circuit boards, electronic components
- Production of test rods for tensile testing (also CFRP)
- Production of grindings for material testing



### Diamond wire sawing technology is used when:

- the workpiece is very fragile and can hardly withstand any clamping forces (feed and cutting force < 5N).
- no edge chipping is desired, e.g. for green compact machining (wire exerts very low forces on the workpiece).
- workpieces are to be cut from hard/soft combinations (wire cleans itself when deflected on the guide rollers).
- a small cutting gap is important.



Features	Values
Dimensions in mm (L/W/H) - without cart	11375x 920 x 1700
Weight in kg (depending on coolant filling)	370-400
Diamond wire loops in mm	Length 2700 Core wire Ø 0,12 - 0,3
Wire / cutting speed	12-30m/s
Wire guide rollers Ø in mm	400
Table movement X / Y in mm	400 x 200
Axis drives	Stepper motors, ball screw spindle
Passage / workpiece height in mm	up to max. 300
Control System	CNC
Electric power	220V / 50Hz / 0,5KW
Noise level	57dbA (with closed cab)
Operating modes	Wet / dry cutting

