

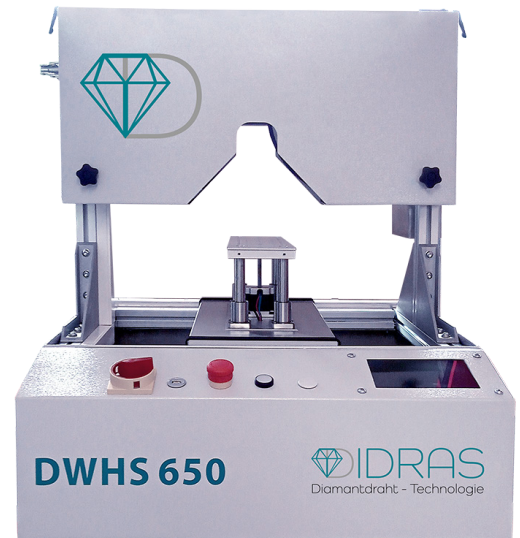
Technical features of the DWHS 650 wire sawing machine for straight cutting

Applications:

- Test cuts through composite parts (soft/hard combinations) e.g. tires with rubber composite profile or CFRP/GRP
- Sawing out a sample part to analyze a specific location, 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	718 x 671 x 850
Weight in kg (depending on coolant filling)	ca. 82
Diamond wire loops in mm	Length 1690 Core wire Ø 0,12 - 0,3
Wire / cutting speed	10-50m/s
Wire guide rollers Ø in mm	300
Table movement X / Y in mm	200 x 200
Axis drives	Stepper motors, spindle
Sawing path Z as a factor of workpiece width in mm	125 at 75 width
Electric power	220V / 50Hz / 0,5KW
Noise level	75dbA
Operating modes	Wet / dry cutting
Vertical stroke from bottom to top in mm	150
Wire tension	Adjustable via weights
Diamond size	10-90µm galvanic nickel bonding

