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NEW PRODUCTS

electronica 2018

TITAN 3500

EXP 3040 LED

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TITAN 3500

ROTATION WHEEL ETCHER FOR DOUBLE SIDED SHEETS

The Titan 3500 is a double-sided spray etcher for high precision applications.

In addition to the patented nozzle system, which ensures uniform wetting of the substrate, the substrate is rotated during

the etching process to reliably prevent the formation of an etch shadow and uneven etching by e.g. the trace geometry. This enables structure resolutions down to $40\mu\text{m}$ with a copper thickness of $35\mu\text{m}$.

As material PVC and PP are used, all metal parts that come into contact with the etching medium are made of titanium, e.g. the titanium heating. The side walls and tank bottom are made of 8 mm thick PVC.

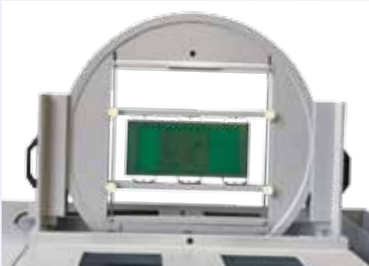


This results in an extremely robust compact construction. The high-precision etching result is achieved by the uniform volume flow of the nozzle spray bar in conjunction with the rotating clamping wheel and the uniform liquid flow of the etching medium.

The special nozzles are internally designed in such a way that the full spray cone strikes the rotating etch material with a twist.

During the etching process, the clamping wheel is constantly rotated via a geared motor and transport rollers.

The titanium heating is controlled by a digital thermostat. The etchant pump is controlled by a digital timer with automatic reset and final acoustic signal. Setting range 0-599 seconds.



TITAN 3500

Power supply:	230 V~, 50 Hz, ca. 2,2 kW
Dimension (LxDxH):	950 x 750 x 1100 mm
Working height:	1150 mm
Usable format:	max. 350 x 350 mm
Tank volume:	28 l
Etching pump:	Magnetic centrifugal pump with approx. 80l/min throughput (gross)
Weight:	90 kg
Digital-timer for time range:	0-599 sec.
Temperature range:	0 – 55 °C
Height cog valve (emptying):	ca. 300 mm

EXP 3040 LED

HIGH SPEED DOUBLE SIDED EXPOSURE

The EXP 3040 LED is a high speed double sided exposure machine mainly designed for high resolution production of printed circuit boards, stencils and clichés in small and medium quantities !

Two special 50 W LED bulbs ensure almost parallel light.

Construction

Sturdy aluminum frame construction. The chassis consists of a sliding drawer system.

Operation

EXP 3040 LED guarantees a perfect exposure within a minimum of time and energy consumption. A touch display allows easy preset and read out of all settings. UV-light emission

controllers are not necessary with LED technology because the bulbs have a lifetime of plus 10.000 hours with very constant light emission.

A vacuum pump provides a close and uniform contact between artwork and board. The machines have powerful cooling fans for the LEDs.

Features EXP 3040 LED:

- Max. Working area 350 mm x 450 mm (recommended: 300 mm x 400 mm)
- Vacuum assisted drawer
- Suitable for fine line PCBs
- Suitable for exposure and curing of solder mask.



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EXP 3040 LED

Power supply: 90-230V, 50-60 Hz, 1-phase, 4 A
Fuse: 5 A
Unit Size (WxHxD): 780 x 1630 x 820 mm
Weight: 80 kg