

# THIEME

+ Printing solutions - a class of its own

## THIEME LAB 1000

For the use in product and process development. Designed for selective coatings such as printed electronics, solar cells, RFID and organic electronics.



Why  
THIEME  
LAB 1000?



- + Precise alignment of single- and multilayer
- + Shortest setup time for the screen, substrate and printmedia
- + Simple parameter control and precise documentation
- + Thieme quality „Made in Germany“

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## THIEME LAB 1000

### Specifics



- + High precision screen printer with tolerance +/- 15 microns
- + Automatic screen alignment with CCD cameras
- + Automatic substrate alignment with CCD cameras
- + Teachable camera software to allow different fiducial marks
- + Patented squeegee system with automatic pressure control and self alignment
- + Automated change of screen without removal of squeegee and flood bar
- + PLC Control of all printing parameters with Siemens color touch panel
- + Documentation and download of process parameters to perform statistics

### Technical data



Print size	[mm] [inch]	400 x 400 15.7 x 15.7	600 x 600 23.6 x 23.6
Max. sheet size	[mm] [inch]	420 x 420 16.5 x 16.5	620 x 620 24.4 x 24.4
Max. frame size	[mm] [inch]	850 x 800 33.4 x 31.5	1050 x 1000 41.3 x 39.4
Min. frame size	[mm] [inch]	300 x 240 11.8 x 9.4	300 x 240 11.8 x 9.4
Size of vacuum area	[mm] [inch]	400 x 400 15.7 x 15.7	600 x 600 23.6 x 23.6
Outer dimensions (w/l/h)	[mm] [inch]	1685 x 1570 x 2200 66 x 62 x 85	2085 x 1770 x 2200 82 x 69 x 85
Weight	[kg]	950	1050
Max. substrate thickness	[mm] [inch]	20 0.8	
Table fine adjustment Y-Y-X	[mm] [inch]	+/- 8 +/- 0.3	
Squeegee speed	[mm/sec] [fpm]	50 - 500 9.8 - 98.4	
Mechanical repeatability	[µm]	+/- 15	
Power supply	[V]	400/230	
Circuit connection	[kW]	3,5	
Consumption	[AV]	6,5/400	

Print speed on request.  
All technical information is not binding and subject to change.



### Get in touch with Marabu Scandinavia

**Sweden - Malmö**  
+46 40 672 84 00  
info@marabu.se  
www.marabu.se

**Denmark - Vejle**  
+45 70 10 00 67  
info@marabu.dk  
www.marabu.dk

**Finland - Vantaa**  
+358 9 279 85 40  
info@marabu.fi  
www.marabu.fi

**Sweden - Stockholm**  
+46 8 448 07 50  
info@marabu.se  
www.marabu.se

**Norway - Oslo**  
+47 22 73 50 00  
info@marabu.no  
www.marabu.no