

CAD-CAM

Laser plotter	Barco Graphics	Format: 650 x 520 mm. Resolution 4000 ppi
Laser plotter	Barco Graphics	n°2 Format: 810 x 710 mm. Resolution 4000 ppi
Laser scanner	Barco Graphics	Format: 650 x 520 mm. Resolution 2000 ppi
Developing machine	Agfa	Format: 950 mm.
Developing machine	Agfa	Format: 650 mm.
6 CAM Workstation	Barco Graphics	UCAM Software
1 CAM Workstation	Cad Solutions	CAM 350 Software

EXPOSING

Exposer	Orbotech	Laser Direct Imaging	50μ track/isol. 12μ allign. 2000 dpi
Exposer	Orbotech	Laser Direct Imaging	50μ track/isol. 12μ allign. 4000 dpi
Exposer	Dynachem	Format: 850 x 600 mm	
Exposer	Dynachem	Format: 850 x 600 mm	
Automatic Exposer	Karl Suss	Format: 650 x 650 mm	PCB Thickness: 50μ ÷ 5 mm.
Automatic film alligner	Karl Suss		
Dry film Laminator	Cedal	manual	
Dry film Laminator	Cedal	automatic	
Dry film Laminator	Dynachem	automatic	
Mylar peeler	Dynachem	automatic	
Dry film developer	IS		
Dry film preparation	Schmid		

DRILLING

Drilling	Schmoll	West Wind 180.000 rpm drill + 125.000 rpm rout. Automatic loading. Controlled Z axis. Allignement camera. Format: 736 x 755
Drilling	Pluritec	n° 5 Multistation. West Wind 160.000 rpm. Automatic loading. Format: 530 x 710
Drilling	Pluritec	n° 2 Multistation. West Wind 180.000 rpm. Automatic loading. Controlled Z axis. Allignement camera. Format: 630 x 765
Drilling	Pluritec	Maxima. 4 West Wind 110.000 rpm
Drilling	Pluritec	Minima. 1 spindle 80.000 rpm
Drilling	Pluritec	Gemina. 2 spindle 80.000 rpm Format: 800 x 745
Reference Drilling	Pluritec	X RAY for multilayer drill
Reference Drilling	Posalux	2 spindle with camera for multilayer drill

MILLING

Milling	Schmoll	West Wind 180.000 rpm drill + 125.000 rpm rout. Automatic loading. Controlled Z axis. Allignement camera. Format: 736 x 755
Milling	Pluritec	Multistation. West Wind 110.000 rpm. Automatic loading. Format: 530 x 710
Milling	Pluritec	Maxima 4 spindle 60.000 rpm
Milling	Pluritec	Plurima 4 spindle 60.000 rpm
Milling	Pluritec	Contour 3 spindle 60.000 rpm
Milling	Pluritec	Gemina 3 spindle 60.000 rpm Format: 800 x 745
Drilling / Milling	Pluritec	Minima 1 spindle 60.000 rpm
CNC Scoring	Telmec	Automatic loading / unloading
Manual Scoring		

CHEMICAL

Plasma	Europlasma	
Brushing	Wise	Ultrasonic washing
Brushing	Pola e Massa	Ultrasonic washing
Desmearing	Wise	
Metallization	ACS	Direct plating. Atotech chemical
Metallization	OcCLEPPO	Direct plating. DMSE Enthone
Electrolitic	Caoduro	Atotech chemical
Electrolitic	Telmec	Automatic
Dry film stripping	IS	
Etching	IS	Format: 670
Sn/Pb stripping	OcCLEPPO	
Refusing	Research	
Washing	IS	High pressure washing
Hot Air Levelling	Pentagal	Format: 820 x 820
Chemical Gold (ENIG)	R3	Uiemura process
Hard Gold		Gold Bond
Chemical Silver	Mac Dermid	Alphastar Enthone
Chemical Tin	R3	Ormecon
Washing	Wise	High pressure washing for finish pcb

SOLDER

Solder coutain coating	Giardina	
Curing oven	Giardina	oven. v: 2m/min
Exposer	Bacher	Format: 710 x 610; 8 Kw
Exposer	Nowell	Format: 850 x 600
Solder developer	IS	
Final curing oven	Nowell	continuous
Final curing oven	Ocras	static
UV oven	Cougher	
Serigrafic	Argon	Format: 850 x 600
Serigrafic	Argon	Format: 850 x 600
Serigrafic Ink-Jet	Orbotech	Format: 630 x 495
Solder preparation	Wise	Mec ecth process

TEST

Optical test	Barco Titan	Format: 510 x 762 mm (x2). Resolution 5 μ
Optical test	Barco Argos	Format: 610 x 790 mm. Resolution 5 μ
Electrical test	Circuit Line Precise 2S	250V 100M Ω 20mA. Test from file Double format test: 245 x 325 Single format test: 365 x 405
Electrical test	Circuit Line PCA	250V 100M Ω 20mA. Test from file Single format test: 380 x 405
Electrical test	New System Flying probe	250V 100M Ω 20mA. Test from file Format: 470 x 580 Resistive test
Electrical test	New System Flying probe	250V 100M Ω 20mA. Test from file Format: 490 x 810 Capacitive + resistive test
Electrical test	ATG Flying probe	250V 100M Ω 20mA. Test from file Format: 470 x 660 Capacitive + resistive test
Electrical test	ATG Flying probe	250V 100M Ω 20mA. Test from file Format: 470 x 660 Capacitive + resistive test + microshort detection

MULTILAYER PRESS

Press	Lauffer	4 vacuum opens. Format: 720 x 750. 355°C
Press	Bieffebi	2 vacuum opens. Format: 700 x 600
Press	Italpresse	2 vacuum opens. Format: 900 x 640
Punching	Multiline	linner layer post etch punching

ANALYSIS

Microscope with camera
Magnificator
Spectrofophometer
Atomic absorpion
Metallografics analysis
Chemicals analysis
Metallic thickness and hole measures
Thermal stress
Fischer X-RAY
Ionic contamination
Wave soldering test machine
IR for smd soldering test machine