



VERGENT
P R O D U C T S

Continually Elevating Return

Vergent Products PCBA Equipment and Process Capability Summary

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Refer to IPC1720 for comprehensive capability and equipment listing.

Global Capabilities:

Maximum SMT board size is 16.5 x 19"; Maximum PTH board size is 12 x 17"

Tin/lead solder with organic acid (OA) water soluble or no clean flux chemistry for both SMT and PTH

Lead free solder with organic acid (OA) water soluble or no clean flux chemistry for both SMT and PTH

Equipment	Key capabilities
Pressure Products Ultrasonic Stencil Cleaning	Closed-loop, Vygon solvent , automated handler, dryer
DEK® Horizon Screen Printing	Grid-Lok support, auto locate, underside stencil cleaning, printing solder pastes & adhesives
MYDATA® Pick & Place (MY9 & MY15 models)	Hydra SpeedMount, Agilis feeders, tray wagon, fully networked, two & three pole electrical verification, mechanical verification, max board size 16.5 x 19", IPC-9850 placement accuracy & repeatability: X, Y & θ - Midas mount .25 μ m & .08° @3 σ , Hydra mount .69 μ m & 3.0° @ 3 σ
Vitronics Soltec XPM Convection Reflow	Heat zones = 8, Cool zones = 2, Lead-free process capable
Yield Enhancement Solutions F1 Automated Optical Inspection (AOI)	Excellent @ catching wrong, missing, backwards and a variety of solder defect types
KIC® Thermal Explorer	12 thermocouple capability, prediction software
AirVac DSR-24 Hot Air Station	Semi-automated, component installation & rework, leaded solder process
Royonics Component Placement	Semi- automated equipment for loading plated through hole (PTH) components
ACE K.I.S.S. Selective Solder	Spray fluxer, nitrogen environment, topside process heater, 12 x 17" max board size
APS Novastar 12D Wave Solder	12" wide configuration, both turbulent & laminar waves, foam fluxer, 24" bottom side IR pre-heater
AirVac PCBRM-15 Miniwave	PTH component installation & rework, lead-free process
Aqueous Technologies Cleaning	Closed loop, DI bed, dryer
Omega Meter Ionic Testing	Ionic contamination testing, 18 x 18 x 2" max board size
HP3070 Test	In-circuit test platform, requires fixture
Seica Flying Probe Test	Fixture-less system, max board size 16 x 23.75", max comp height tested side 0.9", non-tested side 3.9", min board width 0.8"
Tenney Environmental Testing	Large 64 ft ³ chamber, 20 - 98% RH in range +20° to +85°C, -40°C to +200°C, 1kW load max.
cab MAESTRO 4M PCB Separator	Safe and effective separation of scored panels
FKN PCB Nibbler	Safe and effective separation of routed panels with tabs