

Machine Features Comparison Chart

For **double-sided** testing

For **single-sided** testing *(double-sided boards can be flipped over to test second side)*

		RoBAT S1	RoBAT RCI	RoBAT VTR	RoBAT PDM-HS	RoBAT RTU	RoBAT CTR	RoBAT HTR	RoBAT Scara TDR-M	RoBAT Scara-PDM
TEST FUNCTIONS	Automatic Optical Inspection (AOI)	✓	✓						✓	
	DC Electrical Test (capacitance)	✓	✓							
	DC Electrical Test (resistive)	✓ ₂	✓ ₂							
	TDR High Speed SI Test		✓	✓		✓	✓	✓	✓	
	TDT High Speed SI Test		✓	✓						
	VNA High Speed SI Test		✓ ₂	✓						
	DMM Electrical Component Test	✓	✓							
	Mechanical Measurement Test	✓	✓							
	Pin Depth Measurement	✓	✓		✓					✓
	High Voltage	✓ ₁	✓ ₁							
	Automatic Optical Hole Measurement				✓					✓
FAULT COVERAGE	Mating Side Missing/Bent Pins	✓	✓							
	Other AOI Faults - Guide Pins etc.	✓	✓							
	Bent Under Compliant Pins (under connector)		✓ ₃	✓ ₃	✓		✓ ₃	✓ ₃	✓ ₃	✓
	Missing Compliant Pins (under connector)		✓ ₃	✓ ₃	✓		✓ ₃	✓ ₃	✓ ₃	✓
	Concertina Compliant Pins (under connector)		✓ ₃	✓ ₃	✓		✓ ₃	✓ ₃	✓ ₃	✓
	Incorrect Back Drilling		✓	✓		✓	✓	✓	✓	✓
	Skew Faults		✓	✓		✓	✓	✓	✓	
	Impedance Faults		✓	✓			✓	✓	✓	
	Shorts	✓	✓	✓		✓	✓	✓	✓	
	Opens	✓	✓	✓		✓	✓	✓	✓	
	Electrical Component Faults	✓	✓							

1 - Available as an option 2 - Available with 4-head option 3 - Using TDR/VNA measurement (depends on board architecture)