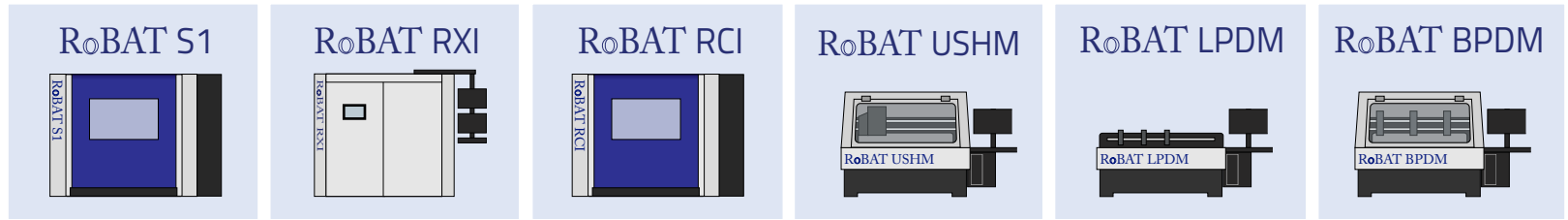


Machine Features Comparison Chart

For **double-sided** testing

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



	RoBAT S1	RoBAT RXI	RoBAT RCI	RoBAT USHM	RoBAT LPDM	RoBAT BPDM
TEST FUNCTIONS	Automatic Optical Inspection (AOI)	✓	✓	✓	✓	✗
	X-ray	✗	✓	✗	✗	✗
	DC Electrical Test (capacitance)	✓	✗	✓	✓	✗
	DC Electrical Test (resistive)	✓ ₂	✗	✓ ₂	✗	✗
	TDR High Speed SI Test	✗	✗	✓	✓	✗
	VNA High Speed SI Test	✗	✗	✓ ₂	✗	✗
	DMM Electrical Component Test	✓	✗	✓	✗	✗
	Mechanical Measurement Test	✓	✗	✓	✓	✗
	Pin Depth Measurement	✓	✗	✓	✓	✓
	High Voltage	✓ 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	✓	✓ ₄	✓	✓
	Missing Compliant Pins (under connector)	✓ ₃	✓	✓ ₄	✓	✓
	Concertina Compliant Pins (under connector)	✓ ₃	✓	✓ ₄	✓	✓
	Metal Debris	✗	✓	✗	✗	✗
	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 single point PDM module 4 - Using either a single point module or using TDR/VNA measurement (depends on board architecture)