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3.1 BondaScope 3100

Portable, multi-mode composite bond tester to inspect a variety of composite materials for defects of any nature



3.1.1 Instrument

Item number	Item description
BOND 3100 PKG	<p>COMPOSITE INSPECTION BONDASCOPE 3100 PACKAGE LEMO 8 + HIROSE 6</p> <p>Applications include:</p> <ul style="list-style-type: none"> - Integrity of composites and adhesively bonded structures - Metal to metal bonding - Adhesively bonded fittings - Multi-layered laminates - Glass fiber and carbon fiber composites - Sandwich constructions with various skin and core materials - Bonded carbon fiber composite structures - Delaminations, disbonds, skin to core flaws, far-side defects, impact damage, liquid ingress <p>Package includes:</p> <ul style="list-style-type: none"> - Instrument, Li-Ion battery pack, AC charger, data transfer package, hard-shelled carrying case, operator manual, certificate of calibration <p>Features include:</p> <ul style="list-style-type: none"> - Resonance, Pitch-Catch and Mechanical Impedance Analysis modes - Tone burst and Swept frequency - Pitch-catch and MIA modes require no couplant - Fischer 11-pin ("F11") & Lemo 8-pin ("L8") probe connectors - Auto-probe recognition - Various visual and audible alarm modes - SplitScan and SplitView - 110/240V compatible

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3.1.2 Accessories - Options – Spares

Item number	Item description
BONDDT-KIT	DATA TRANSFER PACKAGE USB FOR BONDASCOPE Package includes <ul style="list-style-type: none"> - BOND-DTPW (Data Transfer Package, Windows) - B3100 USB CABLE (USB Data Transfer Cable for Bondascope instrument) - Manual
B3100 USB CABLE	DATA TRANSFER CABLE USB FOR BONDASCOPE 3100, 950-R, CURLIN AIR
MIA-SL	MIA SPRING-LOADED PROBE HOLDER ALLOWS EQUAL PRESSURE INSPECTION
PC-TIP	PITCH-CATCH REPLACEMENT TIPS 2/EA FITS ALL PITCH-CATCH PROBES
PC-FEET	PITCH-CATCH REPLACEMENT FEET 4/EA FITS ALL PITCH-CATCH PROBES
TEFLON TAPE	TEFLON TAPE <ul style="list-style-type: none"> - Can be used to avoid scratching and/or provide better contact from probe to material
LC3100	PROTECTIVE CASE FOR BONDASCOPE 3100 <ul style="list-style-type: none"> - Canvas protective slip-on case with clear window for user accessibility to keys
RBP-1	BATTERY PACK FOR RAPTOR, BONDASCOPE 3100, RBCU-1 <ul style="list-style-type: none"> - Li-Ion battery pack (included in original instrument package)
AC3100	AC BATTERY CHARGER FOR BONDASCOPE 3100, CURLIN AIR <ul style="list-style-type: none"> - 110/240v compatible
CC3100	PROTECTIVE CARRYING CASE FOR BONDASCOPE 3100 <ul style="list-style-type: none"> - Replacement Hard-shelled carrying case (included in any original instrument package)
BCL-1	BATTERY CONDITIONING CHARGER FOR RAPTOR, BONDASCOPE 3100, RBCU-1 <ul style="list-style-type: none"> - Discharges, conditions, charges and re-calibrates battery within 16 hours process

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3.1.3 Bond Testing Probes

Item no	Item description
H318	RESONANCE 18 KHZ Ø 0.500" HIROSE 6PIN
H326	RESONANCE 26 KHZ Ø 0.500" HIROSE 6PIN
H330	RESONANCE 30 KHZ Ø 0.500" HIROSE 6PIN
H353	RESONANCE 53 KHZ Ø 0.500" HIROSE 6PIN
H360	RESONANCE 60 KHZ Ø 0.500" HIROSE 6PIN
L3110	RESONANCE 110 KHZ Ø 0.500" HIROSE 6PIN
L3165	RESONANCE 165 KHZ Ø 0.375" HIROSE 6PIN
L3200	RESONANCE 200 KHZ Ø 0.750" HIROSE 6PIN
L3201	RESONANCE 200 KHZ Ø 0.250" HIROSE 6PIN
L3250	RESONANCE 250 KHZ Ø 0.250" HIROSE 6PIN
L3280	RESONANCE 280 KHZ Ø 0.125" HIROSE 6PIN
L3330	RESONANCE 280 KHZ Ø 0.187" HIROSE 6PIN
L3370	RESONANCE 370 KHZ Ø 0.125" HIROSE 6PIN
PCLS31	PITCH-CATCH LOW FREQ TONE BURST SPRRING LOADED TIP ↔ 0.670" LEMO 8PIN
PCMS31	PITCH-CATCH MED FREQ TONE BURST SPRING LOADED TIP ↔ 0.670" LEMO 8PIN
PCHS31	PITCH-CATCH HIGH FREQ TONE BURST SPRING LOADED TIP ↔ 0.670" LEMO 8PIN
PCL32	PITCH-CATCH LOW FREQ TONE BURST FIXED TIP ↔ 0.670" LEMO 8PIN
PCM32	PITCH-CATCH MED FREQ TONE BURST FIXED TIP ↔ 0.670" LEMO 8PIN
PCH32	PITCH-CATCH HIGH FREQ TONE BURST FIXED TIP ↔ 0.670" LEMO 8PIN
PCLHV32	PITCH-CATCH LOW FREQ TONE BURST HIGH VOLT FIXED TIP ↔ 0.670" LEMO 8PIN
PCLHVS32	PITCH-CATCH LOW FREQ TONE BURST HIGH VOLT SPR. LOADED TIP ↔ 0.670" LEMO 8PIN
PPCHPS31	PITCH-CATCH LOW FREQ PULSED HIGH VOLT SPR. LOADED TIP ↔ 0.670" LEMO 8PIN
M31	MECHANICAL IMPEDANCE ANALYSIS Ø 0.250" TIP LEMO 8PIN
M32	MECHANICAL IMPEDANCE ANALYSIS Ø 0.375" TIP LEMO 8PIN
M33	MECHANICAL IMPEDANCE ANALYSIS Ø 0.500" TIP LEMO 8PIN

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3.1.4 Bond Testing Probe Kits

Item number	Item description				
BPK-01	BOND PROBE KIT 1				
	Package includes:				
	<u>Resonance</u>	<u>Pitch-Catch</u>	<u>MIA</u>	<u>Cables</u>	<u>Accessories</u>
	L3110 L3250 L3280	PCMS31 PCLHVS32	M32	BF11-S6 BF11-L8	COUPLANT UGII04 CARRYING CASE
BPK-02	BOND PROBE KIT 2				
	Package includes:				
	<u>Resonance</u>	<u>Pitch-Catch</u>	<u>MIA</u>	<u>Cables</u>	<u>Accessories</u>
	L3110 L3250 L3370	PCMS31 PCLS31 PCHS31 PPCLHPS31	NONE	BL8-S6 BL8-L8	COUPLANT UGII04 CARRYING CASE
BPK-03	BOND PROBE KIT 3				
	Package includes:				
	<u>Resonance</u>	<u>Pitch-Catch</u>	<u>MIA</u>	<u>Cables</u>	<u>Accessories</u>
	L3110 L3165 L3200 L3201 L3250 L3280 L3330 L3370 H318 H326 H353	PCLS31 PCMS31 PCHS31 PCLHV32 PCLHVS32 PPCHPS31	M31 M32 M33	BF11-S6 BF11-L8 BF11-F11	COUPLANT UGII12 (2) PC-TIP (2) PC-FEET TEFLON TAPE MIA-SL CARRYING CASE

3.1.5 Bond Testing Cables

Item number	Item description
BF11-S6	CABLE BONDASCOPE 3100 TO RESONANCE 8FT FISCHER 11PIN TO HIROSE 6PIN
BF11-L8	CABLE BONDASCOPE 3100 TO PITCH-CATCH AND MIA 8FT FISCHER 11 PIN TO LEMO 8PIN
BF11-F11	CABLE BONDASCOPE 3100 TO OLYMPUS P-C AND MIA 8FT FISCHER 11 PIN TO FISCHER 11PIN
BL8-S6	CABLE BONDASCOPE 3100 AND 350 TO RESONANCE 8FT LEMO 8PIN TO HIROSE 6PIN
BL8-BL8	CABLE BONDASCOPE 3100 AND 350 TO P-C AND MIA 8FT LEMO 8PIN TO LEMO 8PIN