

Dynamic Mechanical Testing										Additional Equipment & Accessories							
Equipment Name	Load Cell(kN)	Actuator Type	Water Cooled Hydraulic Wedge Grips	Maximum Flat Sample Thickness (mm)	Actuator Stroke (mm)	Test Space		Nominal Maximum Frequency (Hz)	Maximum Velocity (mm/s)	Digital Image Correlation (DIC)	Video Extensometer	Contact Extensometer	Strain Gauge Logging System	Temperature & Humidity Controlled Laboratory	Environmental Chamber		
						Maximum Height (mm)	Between Machine Columns (mm)								Minimum Temperature (°C)	Maximum Temperature	
Instron 8802	100	Servo-Hydraulic	✓	15.7	150	664	1975	60	170	✓	✓	✓	✓	✓	-150	350	
Instron 8802	100	Servo-Hydraulic	✓	15.7	150	664	1975	60	170	✓	✓	✓	✓	✓	-150	350	
Instron 8802	250	Servo-Hydraulic	✓	15.7	150	664	1975	60	75	✓	✓	✓	✓	✓	-150	350	
Instron 8802 (Tension/Torsion)	100 (1kNm)	Servo-Hydraulic	✓ (Biaxial Grips)	15.7	150 (90°)	664	1515	60	150	✓	✓	✓	✓	✓	X		
Static Mechanical Testing																	
Instron 8862	100	Electro-Mechanical	X	15.7	200	760	1569	1	5	✓	✓	✓	✓	✓	X		
Instron 5982	100	Electro-Mechanical	✓	15.7	-	1735	575	-	8.5	✓	✓	✓	✓	✓	-150	350	
Instron 5989	600	Electro-Mechanical	X	15.7	-	1975	851	-	8.5	✓	✓	X	✓	X	-150	350	
Drop Weight Impact Testing																	
Equipment Name	Maximum Gravity Mode Velocity (m/s)	Maximum Spring Assisted Velocity (m/s)	Simulated Drop Height Range (m)	Weight Range (kg)	Impact Energy Range (J)	Relevant Standards		Projectile									
Instron CEAST 9350	0.77	24	0.03 - 29.4	2.0 - 70	0.59 - 1800	- ISO 3127, 6603, 7765, 11343, 8256 - DIN 53373 - PR EN 6038 - ASTM D2444, D3763, D5268, D7136, D7192 - Boeing BSS 7260 - Airbus AITM1.0010,1-0057 - SACMA SRM 2R-94		16mm hemispherical tup insert		✓	X	X	X	X	X	-70	150
Ballistic Impact																	
Equipment Name	Velocity Range (m/s)	Velocity Measurement Accuracy	Accessories			Projectiles											
Sabre Ballistics Gas Gun A1G+	250 - 900	1 %	Two High Speed Cameras For Back and Front	Digital Image Correlation (DIC) For Real Time Back Surface Strain & Displacement Mapping In 3D	Pre & Post Impact Velocity Measurement	0.22 inch to 12.5mm including smooth bore barrels firing 6mm ball bearings		✓	X	X	X	X	X	X	X	X	
						7.62mm for NATO (Stanag 2920) fragment simulating projectile (FSP) firing											