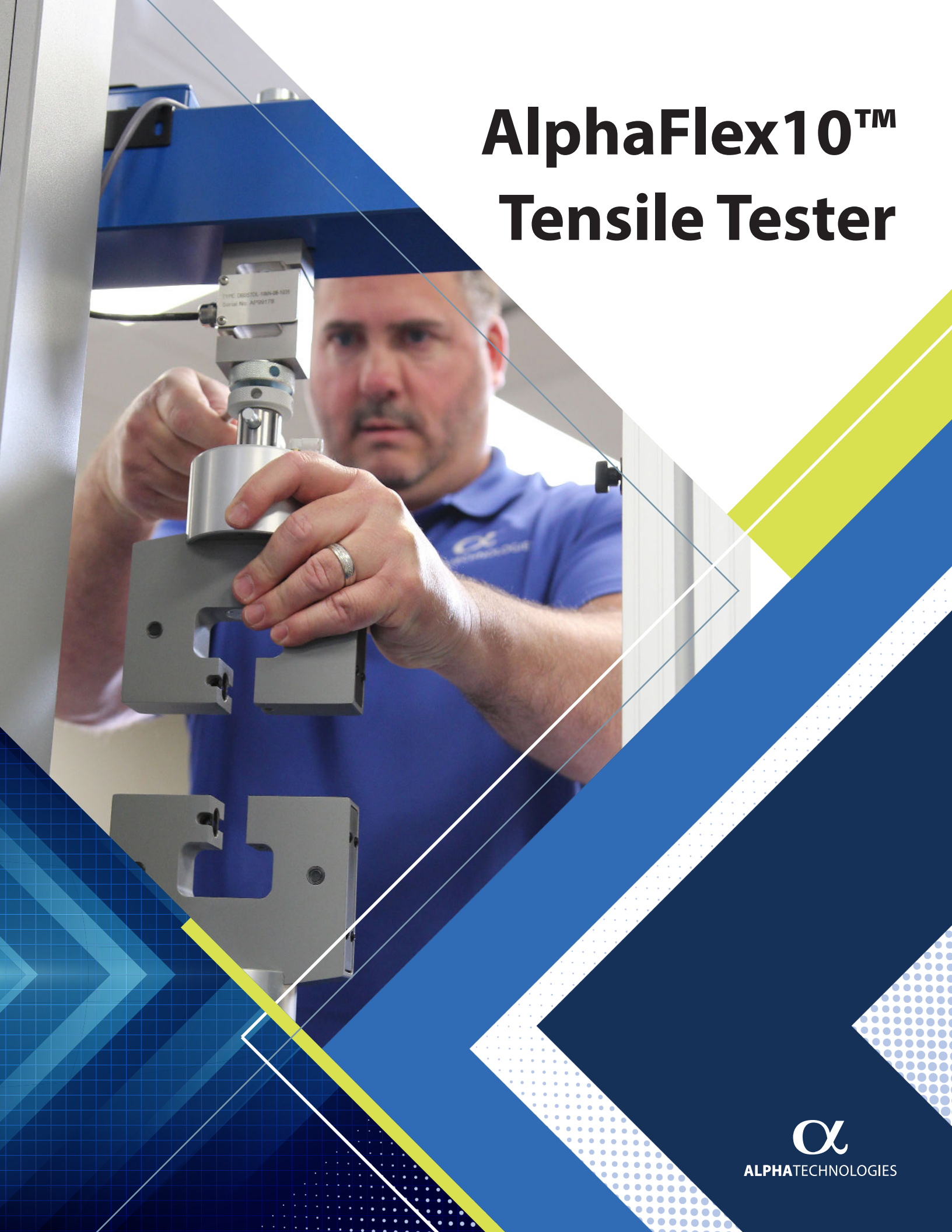


# AlphaFlex10™ Tensile Tester

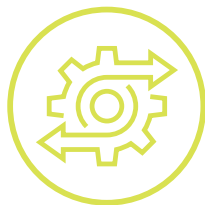


ALPHATECHNOLOGIES

# Take the strain out of tensile testing!

The AlphaFlex10™ delivers convenient tensile testing for a wide range of materials, including elastomers and non-rigid plastics.

## Benefits of the AlphaFlex10™ include:



The seamless integration of Enterprise software that connects to all your other Alpha instruments



The convenience of retaining the same service person you already use for all your Alpha instruments



Faster service times and individualized experience you've come to know and love from Alpha

## AlphaFlex10™ Tensile Tester Specifications:

FRAME SPECIFICATIONS		
Frame Capacity	kN	10
	kg	1,000
	lbf	2,000
Proof Tested	50%	
Test Zone	One	
Number of Columns	Two	
Distance Between Columns	mm	410
	in	16
Maximum Crosshead Travel	mm	1090
	in	43

CONTROLLER SPECIFICATIONS	
Max Data Processing Rate	168MHz
Data Acquisition Rate at PC	1000Hz

FORCE MEASUREMENT	
Force Measuring Device Type	Strain Gage-based load cell
Resolution	One Part in 8,388,608
Accuracy	0.2% of Applied Force Across Load Cell Force Range
Range	0.2-100%
	10N load cell - 0.5-100%
	5N load cell - 1-100%
Calibration Standard	+/- 0.5% to ISO 7500-1, ASTM E4
Internal Sampling Rate	1000Hz

EXTENSION MEASUREMENT	
Resolution	0.1 μm
Accuracy	+/-50μm
Range	0.1 μm to 1090mm
Calibration Standard	ISO 9513
Internal Sampling Rate	2.73kHz

POSITION CONTROL		
Test Speed	mm/min	0.0001-500 to 10kN
	mm/min	0.0001-1,000 to 5kN
	in/min	0.000004-20 to 2,000lbf
	in/min	0.000004-40 to 1,000lbf
Resolution	μm 0.1 in 0.000004	
Accuracy	+/-0.05% of indicated speed	
Return Speed Post Test	mm/min	0.0001-1,000
	in/min	0.000004-40
Crosshead Positioning	mm/min	0.0001-1,000
	in/min	0.000004-40
Return to Zero Function	Yes	

POWER REQUIREMENTS	
Supply Voltage Options	115/230V
Frequency	50/60Hz
Power	530W +/- 10%

POWER REQUIREMENTS			
Operating Temperature	5-40°C (41-104°F)	Storage Temperature	-10-45°C (14-113°F)
Operating Humidity	10-80% non-condensing wet bulb method	Storage Humidity	10-80% non-condensing wet bulb method

# AlphaFlex10™ Accessories

## 01 Model 100R Mechanical Extensometer

Unique design that ensures an extremely low tracking force for testing sensitive materials  
Robust construction that can easily withstand high-release forces and breaking energies  
Simple yet effective follower attachment method for rapid throughput  
Can be fitted to all sizes of screw-driven materials testing machines  
Compatible with the same software as all other Alpha Technologies testing machines

## 02 Model 500 LC Laser Extensometer

Non-contacting design is ideal for use with fragile samples  
Low-power helium neon laser with precision optical components  
Dedicated 16-bit processor  
Ideal for measuring the strain of specimens inside an environmental chamber  
Temperature range -70 to °C 300 (-94 to 572°F)

## 03 Pneumatic Grips

4 available faces, including hands-free options

## 04 Bollard Vice Clamps

4 sizes available

## 05 Medium Duty Scissor Action Grip

1 option with 2 cross-cut faces

## 06 Knurled Roller Grips

3 options, including self-tightening and stirrup

## 07 3-Point Bend Grips

13 sizes available



# AlphaFlex10™ Standards

Alpha Technologies has been a leader in rheology testing, software, and support for 60 years. Our innovations and inventions have been true game-changers in the rubber and polymer industries. Trust Alpha to take your processes further while helping you meet industry standards of internationally recognized associations, including:

ASTM: D412 Standard tensile	D575 Compression	D624 Tear Strength	D413 Adhesion
D885 Cord Tensile	D0790 - 3-point Bend	D429 - Peel Adhesion	D2790 - Tire Cord Tests





There's a lot  
riding on our  
testing.™

ALPHA TECHNOLOGIES  
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