

	<u>Manual Tensiometers</u>	<u>Automatic Tensiometers</u>	<u>Advanced Automatic Tensiometers</u>	<u>Bubble Pressure Tensiometers</u>
Method of Operation				
Manual Operation	X			
Automatic Operation		X	X	X
Uses DuNuoy Ring Method	X	X	X	
Uses Wilhelmy Plate Method		X	X	
Uses Bubble Pressure Method				X
Requires or works with a Computer		X	X	X
Basic Capabilities				
Measures Surface Tension	X	X	X	X
Measures Interfacial Tension	X	X	X	
Measures Downward Interfacial Tension	X			
Measurement Range: 0 ~100mN/m	X	X	X	
Measurement Range: 10~100mN/m				X
Measures Surface Tension Over Time		X	X	X
Can Track Time-Based Measurements		X	X	X
Measures Lamella Length		X	X	
Built-in Stirrer and Jacket Temperature Control System			X	
Can Operate with a Heated / Temperature Controlled Water Bath		X	X	X

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Can Measure liquid Density via Pycnometer Method		X	X	
Meets numerous ASTM Methods including some of these popular ones; D971,D1331,D1417,D1590	X	X	X	
For Wetting applications where solutions have surfactants and surface tension needs to be studied as a function of time				X
Advanced Capabilities				
Powder Contact Angle / Wetting Speed / Wettability			X	
Dynamic Contact Angle			X	
Accuracy				
0.5 mN/m	X			X
0.2 mN/m		X		
0.02mN/m			X	
Resolution				
0.5 mN/m	X			
0.01mN/m		X	X	X
Price				
Under \$10,000	X			
Between \$10,000 and \$20,000		X		
Between \$30,000 and \$50,000			X	X
Between \$40,000 and \$70,000			X	