




# Torqo Model Comparison Matrix

Model	Torqo 1502	Torqo 1590	Torqo II 1600
Application			
Container Size Compatibility	Height: 1-16", Diameter at bottom: 1-6.75" (W Quick Clamp Vice)		
Strain Measurement	Bending Plate & Optical Encoder	Bending Rod & Optical Encoder	
Accuracy	0.5% (10-200lbf/in)		0.125% (5-20lbf/in), 0.5% (30-200lbf/in)
Standard Tests	Closure Application/Removal		
Optional Tests	ROPP, Strip Test, Incremental, Tamper-Evident Bridge Break, Reverse Ratchet		
Topload Control	Pneumatic (No digital monitoring)		
Clamping and Gripping Pressure	Manually Adjusted (Bottle Clamping), Not Adjustable (Cap Gripping) (No digital monitoring)		
Data Acquisition	Peak Only	Peak and Transient	
Connectivity	1 x RS-232	1 x RS232, 1 x USB	1 x RS232, 2 x USB, 1 x Ethernet
Drive	DC Motor (single speed or multi-speed options)		
Chuck Rotation	Unlimited		
Bottle Clamp Styles	Manual: 4 Posts, Jaws, Beverage Clamps	Manual: 4 Posts, Jaws, Quick Clamp Vice or Beverage Clamps	
Closure Gripper Styles	EDM Stainless Steel, 3D Printed Acrylic and Compression Chuck		
HMI Interface	Small, 4 Digit Display	10" Panel PC with Resistive Touch Screen	
OS and Application SW	Embedded, Microcontroller Based	PC with Windows CE Embedded	PC with Windows XP Embedded
Recipe Storage	1 Test Recipe, Cumbersome to Modify	100+ Recipes, Very Easy to Change	
Calibration	NIST traceable		
Enclosure, Finish	IP54, Anodized and Painted Aluminum		
Support	Obsolete, Not Supported	Obsolete, Supported	Full Support
Machine Dimensions	H:34"(small)-48"(large bottle), D:20", W:23"	H:34"(small)-48"(large bottle), D:19", W:14"(benchtop)-24"(screen level)	
Weight (lbs) – W/O Topload	90	75	
Electrical Requirements	110-240VAC, 50-60Hz Input, Separate inputs for HMI and Motor Drive Circuits	110-240VAC, 50-60Hz Input, Common External/Universal Power Supply for HMI and Motor Drive Circuits	
Pneumatic Requirements	No Compressed Air for Models W/O Topload Option, 60-100PSI for Models W Topload Option		
Operating Environment	Humidity: Up to 90% (Non-Condensing), Temperature Range: 32-100F (0-40C)		