

TNP Digital Torque Meter

Torque Testing Instrument for Medical, Pharmaceutical and Industrial Quality Control, R&D and countless torque applications



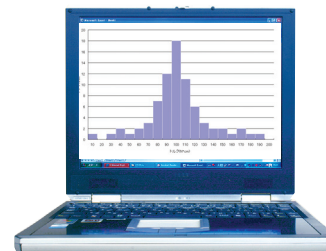
The new TNP torque meter is a precision instrument that measures OPEN and CLOSE torque values for various applications. As a cap torque analyzer, the TNP repeatedly determines bottle closure and breakaway torque. It has a wide memory capacity capable of storing 1,000 data points in addition to Average, Maximum and Minimum values. A HI-LO comparator feature can be utilized for large batch testing to ensure overall product quality.

The TNP torque meter is USB capable for computer testing. Combined with the free DigiTorq Software, additional analysis and testing can be performed.

The TNP is a portable device powered with internal rechargeable batteries or thru an AC adapter/charger. Designed with a small footprint it can easily be transferred to maximize use around the shop floor or the laboratory.

FEATURES & BENEFITS

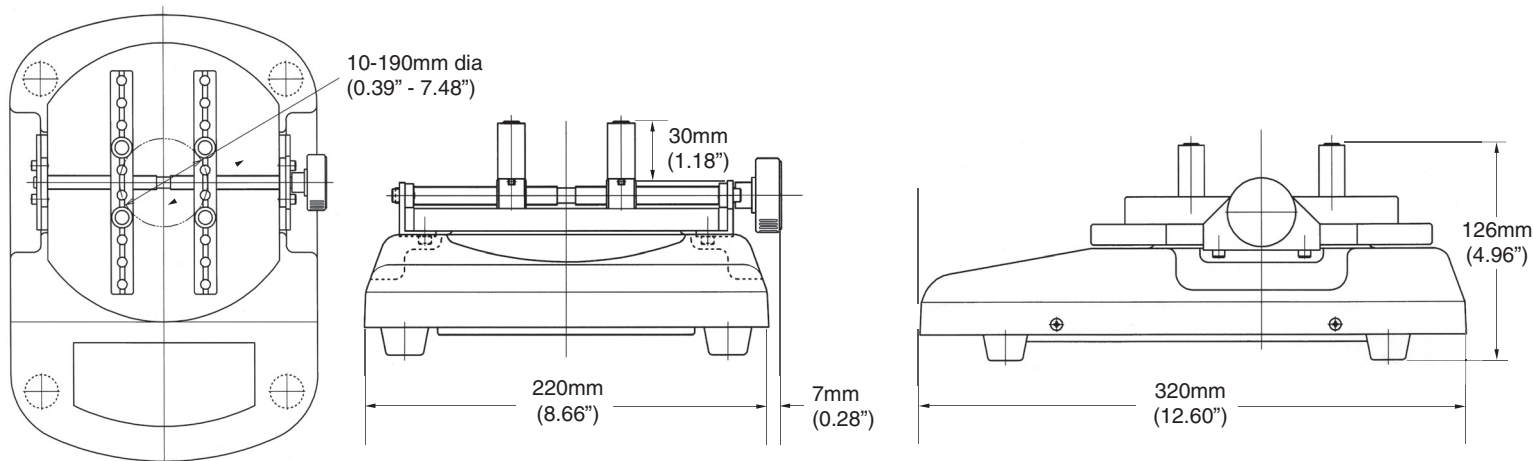
High Accuracy	± 0.5% F.S.
Wide Torque Range	2Nm, 5Nm and 10Nm models
Adjustable Sample Size	Quick and easy set-up takes seconds
Test Memory	One touch operation, retains up to 1000 measurements
Variable Units of Measures:	Displays Torque values in, lb./in., Lbin, Kgcm and Nm, Ncm
Large Digital Display	Easy to read L.C.D.
PC Output	USB interface with add in software (DigiTorq)
Flexible Power	Rechargeable NiMH batteries and / or Universal AC adapter
Selectable Measuring Modes	Captures Peak Opening, Closing and Average torque values (CCW, CW)
Portable	Small foot print, compact, space saver design



Free DigiTorq Software with Graphing Capability



TNP Digital Torque Meter



SPECIFICATIONS

TNP-XX Series Digital Torque Tester w/USB interface

TNP Models		TNP-2	TNP-5	TNP-10
Measuring units		Nm, Ncm, Kgcm, lbin	Nm, Ncm, Kgcm, lbin	Nm, Ncm, Kgcm, lbin
Measuring range		0-2.000 Nm	0-5.00 Nm	0-10.00 Nm
		0-200.0 Ncm	0-500.0 Ncm	0-1000 Ncm
		0-20.39 Kgcm	0-50.99 Kgcm	0-102.0 Kgcm
		0-17.70 Lbin	0-44.25 Lbin	0-88.5 Lbin
Overload protection / Percentage overload		Yes / 150%		
Sample diameter range		Φ10 - 190 mm (0.39 " - 7.48")		
Overload display		Display "OVR" at sub display of LCD, blinking LED		
Display	Main display	4-digit LCD display Character height 12mm		
	Sub display	3-digit LCD display Character height 7mm		
	Comparator Display	HI, GO, LO LED		
Accuracy		± 0.5% F.S.		
Measuring mode	Opening mode	Show max value when opening (peak display) Displays max counter clockwise torque.		
	Closing mode	Show max value when closing (peak display) Displays max clockwise torque		
	Average mode	Real time display (average value display) Displays max torque in real time.		
Display Update Time		Select from 0.125 second (8times/second), 0.25 second (4 times/second), 0.5 second (2times/second), 1 second(1time/second). Peak display: 0.125 second		
Sampling Rate		1000 times/second		
Memory	Memory data number	1000 data (max)		
	Statistic process	Average value, max value min value		
Data output		USB1.1		
PC software		Digitorg software (free, download from web site: www.shimpoint.com)		
Accessories		USB cable, AC adapter, 30mm chuck pin (4pcs), Manual		
Power		Built in nickel hydride battery or Auto-ranging AC adapter (AC100 - 240V)		
Dimensions L x W x H mm/ in		320 x 227x 126 (12.60" x 8.94" x 4.96")		
Shipping weight		8 kg (17.62lb)	8 kg (17.62lb)	12.5 kg (27.53lb)
Operation environment		0 - 40 degree C / 32 - 104 degree F		
Certifications		CE approval		
Battery Life		8 hours after full charge		
Battery Recharge Time		Max. 16 hours		
Battery Type		NiMH		

Continuous data		Time(sec)	Torque (lbinch)	Open	Close
Date	2/19/2008 11:18:56 AM	0	2.11	2.11	
Prepared by	Electromatic	0.05	2.43	2.43	
Remarks	CAP-TNP Sample Test	0.1	2.81	2.81	
		0.15	3.36	3.36	
		0.2	3.79	3.79	
Temperature	71°F	0.25	4.12	4.12	
Humidity(%)	42%	0.3	4.42	4.42	
		0.35	4.73	4.73	
Model	TNP-5	0.4	5.1	5.1	
Unit	lbinch	0.45	5.41	5.41	
		0.5	5.7	5.7	
Total		0.55	6.23	6.23	
Number of data	40	0.6	6.83	6.83	
Maximum	9.87	0.65	7.51	7.51	
Minimum	0.44	0.7	8.11	8.11	
Average	3.795				
Open					
Number of data	40				
Maximum	9.87				
Minimum	0.44				
Average	3.795				
Close					
Number of data	-				
Maximum	-				
Minimum	-				
Average	-				

Time(sec)	Torque (lbinch)	Open	Close	Time(sec)	Torque (lbinch)	Open	Close
0.75	8.55	8.55		1.35	1.23	1.23	
0.8	8.89	8.89		1.4	1.13	1.13	
0.85	9.17	9.17		1.45	1.07	1.07	
0.9	9.49	9.49		1.5	0.97	0.97	
0.95	9.87	9.87		1.55	0.88	0.88	
1	7.43	7.43		1.6	0.78	0.78	
1.05	4.47	4.47		1.65	0.68	0.68	
1.1	3.33	3.33		1.7	0.61	0.61	
1.15	2.78	2.78		1.75	0.54	0.54	
1.2	2.19	2.19		1.8	0.48	0.48	
1.25	1.78	1.78		1.85	0.48	0.48	
1.3	1.44	1.44		1.9	0.45	0.45	
				1.95	0.44	0.44	

