

**DIGITAL TORSION TESTING MACHINE**  
( Model : AI-E )



## DIGITAL TORSION TESTING MACHINE (Model : AI-E)

- Suitable for Torsion and twist tests on various metal rods and flats.
- Torque measurement by torque cell.
- One range with a high resolution throughout the range.
- Geared motor to apply the torque to specimen through gear box
- Measurement of Angle of Twist by Rotary Encoder.
- Display of Torque and Angle of twist on LCD display provided on Data Acquisition System.
- Facility for connecting the DAS Panel to PC
- Accuracy of torque measurement  $\pm 1\%$  in the range from 4% to 100% of machine capacity

Sr. No.	Specifications	MTT-E- 100 Nm	MTT-E- 200 Nm	MTT-E- 500 Nm	MTT-E- 1000 Nm	MTT-E- 2000 Nm	MTT-E- 3000 Nm
1	Max. torque capacity (Nm)	100	200	500	1000	2000	3000
2	Torque Resolution (Nm)	0.01	0.02	0.05	0.1	0.2	0.2
3	Angle of twist (Degree)	0.1	0.1	0.1	0.1	0.1	0.1
4	Torsion speed and direction	1.5 RPM	1.5 RPM	1.5 RPM	1.5 RPM	1.5 RPM	1.5 RPM
		Reverse	Reverse	Reverse	Reverse	Reverse	Reverse
5	Distance between grips (mm)	0 – 400	0 – 450	0 – 500	0 – 600	0 – 1000	0 – 1500
6	Grips for round bar of dia (mm)	4 – 8	7 – 10	10 – 17	10 – 18	20 – 30	25 – 35
		8 – 12	10 – 15	17 – 24	18 – 26	30 – 40	35 – 45
			15 – 20	24 – 30	26 – 34	40 – 50	45 – 55
7	Grips for flat bars	2 – 8	3 – 10	5 – 12	5 – 15	10 – 20	15 – 25
	thickness	25	30	40	50	60	70
	Width						
8	3 Ph, 440V,	0.5	0.5	1	1	2	2
	50 Hz, AC						
	Motor HP Approx						

**PROVISION TO CONDUCT TEST SLOWLY BY A HANDLE WHICH FACILITATES FINDING MODULUS OF RIGIDITY "G"**

### OPTIONAL ACCESSORY :

Special comprehensive software for Torsion test to give Torque vs Angle of Twist graph and also to calculate various parameters like Torsional Shear Strength, Modulus of Rigidity, etc.



MANUFACTURED BY

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