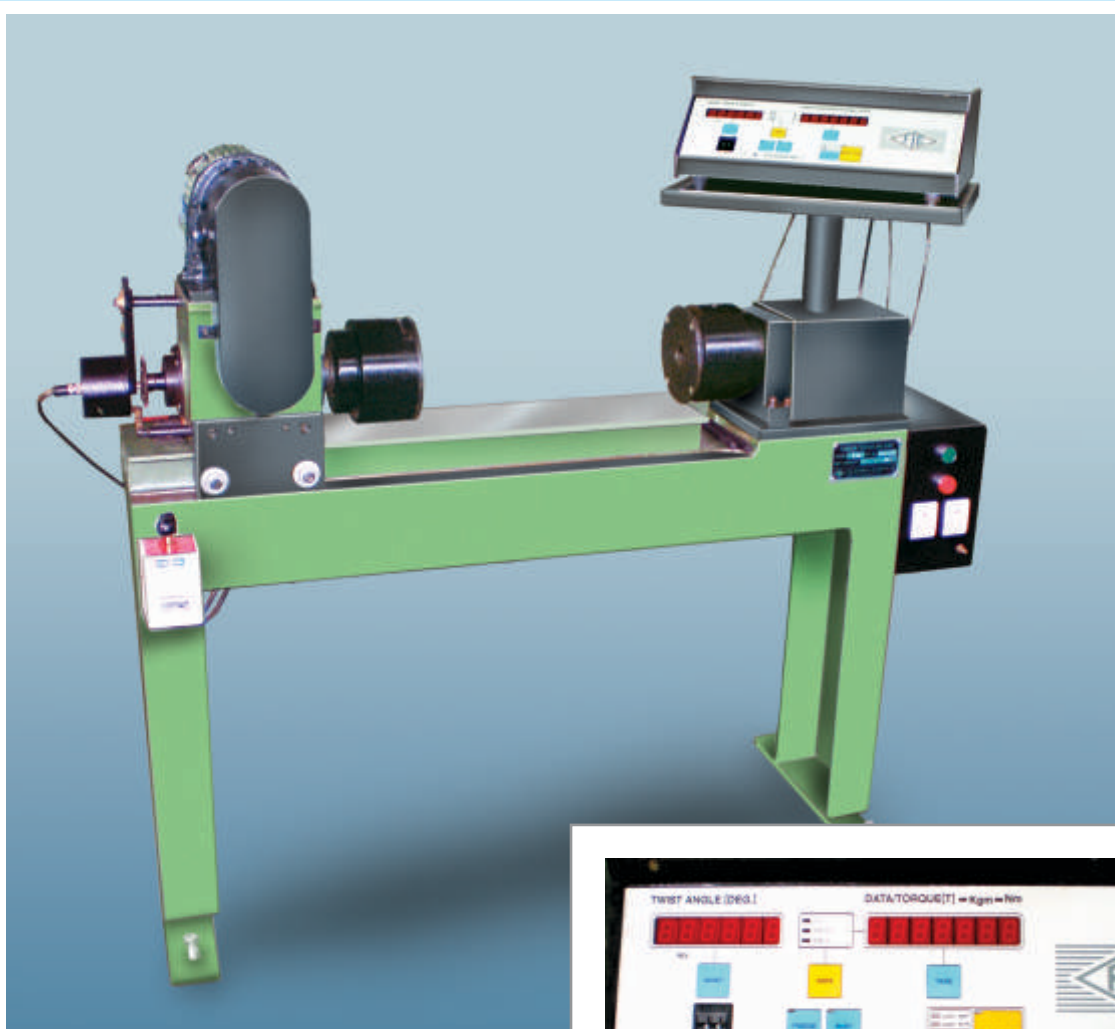




# ELECTRONIC TORSION TESTING MACHINE

## MODEL - TTE



**Electronic Control Panel  
(Series : 9901) :**



### Features :

- Torsion Testing Machine is designed for conducting torsion and twist on various metal wires, tubes, sheet materials. Torque measurement is by torque transducer system.
- Torque can be applied to specimen by geared motor through gear box. Autographic recorder gives the relation between torque and angle of twist.
- The accuracy of torque indication is  $\pm 1\%$  of the true torque.

The electronic control panel is built using 8085 microprocessor which incorporates state of the art technology with following features -

- Front panel membrane type key board for test setup.
- 7 seg digital display of load displacement/extension.
- Printer port interface.
- Serial port for communication with PC.
- Storage of important parameters such as peak load & maximum displacement after test.
- Preload selection to take care of initial slippage.
- Optional real time graph & PC softwares.



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### Technical Data :

| Models                                      | Unit | TTE-6       | TTE-10      | TTE-20                 | TTE-50                  | TTE-100                 | TTE-200                 | TTE-300                 | TTE-600                 |
|---------------------------------------------|------|-------------|-------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Max. Torque capacity                        | Nm   | 60          | 100         | 200                    | 500                     | 1000                    | 2000                    | 3000                    | 6000                    |
| Least Count                                 | Nm   | 0.006       | 0.01        | 0.02                   | 0.05                    | 0.01                    | 0.02                    | 0.03                    | 0.06                    |
| Torsion Speed                               | RPM  | 1.5         | 1.5         | 1.5                    | 0.5                     | 0.5                     | 0.5                     | 0.5                     | 0.5                     |
| Clearance between Grips                     | mm   | 0-420       | 0-420       | 0-420                  | 0-500                   | 0-600                   | 0-1000                  | 0-1000                  | 0-1500                  |
| Grips for Round Specimens                   | mm   | 4-8<br>8-12 | 4-8<br>8-12 | 7-10<br>10-15<br>15-20 | 10-17<br>17-24<br>24-30 | 10-18<br>18-26<br>26-34 | 20-30<br>30-40<br>40-50 | 30-40<br>40-50<br>50-60 | 40-50<br>50-60<br>60-70 |
| Grips for Flat Specimens<br>width mm        | mm   | 1-5<br>25   | 2-8<br>25   | 3-10<br>30             | 5-12<br>40              | 5-15<br>50              | 10-20<br>60             | 15-25<br>60             | 25-40<br>70             |
| Motor<br>(400-440 V,<br>3 Phase<br>& 50 Hz) | HP   | 0.5         | 0.5         | 0.5                    | 0.5                     | 1.0                     | 1.0                     | 1.5                     | 3.0                     |

- Machines upto 25000 Nm. Capacity will be available on special enquiry.
- FIE reserves the rights of change in above specification due to constant improvements in design.

*\* PC & Printer is not in our standard scope of supply.*

Manufactured by :



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