

TEC-SOL INDIA

COMPUTERISED FATIGUE DYNAMIC TESTING MACHINE

TSI FDTM C 100 KN VERTICAL



**FIRST TIME
IN INDIA**

FEATURES

1. Maximum frequency: 2-3Hz
2. Maximum load: 10 ton
3. Maximum displacement at maximum frequency: 1.5 mm
4. Servo feedback control
5. Maximum stroke: 200 mm

Software: Lab View Based Software
Profile Of waveform: Sine, Sawtooth, Triangular.

TSI FDTM C 20 KN VERTICAL

Capacity: 2 ton
Frequency: 1.5 Hz
Maximum displacement: +/- 20mm Sample metal only
Load resolution: 20000 counts displacement resolution: 0.01mm
Control: thru proportional valve system
Frame size: Height: 600mm,
Width: 400 mm,
Depth: 250mm.



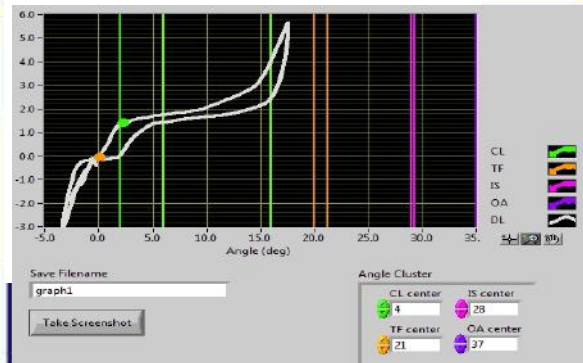
Proportional valve with controller including Software for Precise and automatic controlling of Strain Rate & Stress Rate like 0.7N/mm²/sec to 70N/mm²/sec or Strain rate between 5 to 100% of the machine capacity



Note 1: Automatic Loading Facility to be able to hold at a specified Load for any specified time.

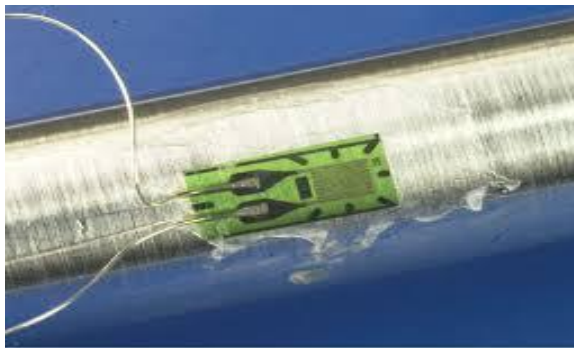
Note 2: Facility to control the forging rate of loading speed in any mm/minute e.g 80 mm/min.

Note 3: Precise Strain measurement accuracy as per ASTM E83 standards based specially designed and Latest Control Panel



BHARAT HEAVY ELECTRICALS LIMITED TRICHY MECHANICAL TEST REPORT				Form Number : FEM/RA/00004	
Customer :	Drexler Band	Forging No / SI No :		Report Number : E	
PO Number :	KES/007281638	Grade :	AISI4140	Date : 1/7/08	
Reference Number :	KES/ISREV D	Heat Number :	D-3131		
Reference Standard :	A378	Inspection Agency :	FSL		
Test Parameters	Specified Value	Observed Value	Test Parameters	Specified Value	Observed Value
Sample Number :	1	1	Tensile Load :	--88	85.0(KN)
Design :	A37	A37	Yield Stress :	--1400	1402.3(Mpa)
Gage Diameter(mm):	8.75	8.75	Tensile Strength :	--1400	1408.3(Mpa)
Width (mm) :	6	6	% Elongation [%] :	--48	47.8
Thick Neck (mm) :	6	6	% Reduction area [%] :	--55	47.5
Gage Length (mm) :	35	35	Impact Charpy @		
Final Length (mm) :	50	50	(J/Cm) (RT) :	15	15
Final Diameter (mm) :	5	5	Hardness (HRC) :	28-30	28-30
Yield Load :	--88	84.0(KN)	Other :		
Conclusion :	Fail	Sample Location :	Reactor :		
Engineer - QA		Customer / Inspection Agency			

Strain Measurement System for Metals and Rubber



Due to constant R&D, Specification and features are subject to change without notice. The dimensions given above are approximate.

Mfd by
TEC-SOL INDIA

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