



Technical Specifications

The machine is designed for operation electrically. Manual operation also has been provided for use as and when required. This Test Frame of the machine is gate type fabricated of sturdy MS plate. This is used for Transverse Breaking Load Test and deflection measurement on 1.5 meter rail including A.T and Flash Butt Joints, to see the load bearing capacity and ductility of the welds.

Special Features:

The test weld will be supported on cylindrical or semi – cylindrical supports having a distance of one meter between them from centre to centre. The weld will be at the centre of span and loaded in such a manner that the foot of the rail is in tension. Servo Hydraulic control for Rate of Loading.

Resolution of Piston movement (Displacement)	-	0.02 mm
Vertical Day light without Compression/Bending attachment	-	850 mm
Maximum clearance for Compression Test	-	700 mm
Maximum clearance for Bending Test	-	325 mm
Ram Stroke	-	190 mm
Straining/Piston speed (at no load)	-	0-45 mm/Min
Rate of Loading Control	-	2 – 5 Tons/Minute
Width of Roller	-	200 mm
Load Measurement Resolution	-	1: 10000
Diameter of Support Rollers	-	40 mm
Tip radius of Bending Punch	-	30 to 50 mm
Overall dimensions of Main Body	-	1000 x 1480 x 3400 mm
Weight of Main Body	-	> 2500 Kg.
Power	-	7 kw
Power Supply	-	415 V \pm 10%, 3 Phase, 50 Hz

Standard Feature of Software

- Controlled from PC
- Software window based (WindowXP Service pack -2).
- Display Peak load along with online load.
- Graph – Zooming.
- Online display Graph Load Vs displacement.
- Breaking load.
- Overload Protection.
- Rate of loading control.
- Auto cut –off after sample is broken.
- Graph and test result print out in test report format.

Standard Feature of Hardware

- Signal conditioner (Microprocessor Based 40 Mhz)
- 3 Analog Channel
- 1 Analog output for rate of loading control.
- 1 RS232 Output for Computer.

Note: The Design of the Machine may change to accomodate Technological Improvements.



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