



PRAGYA PRECISION EQUIPMENT PVT. LTD.

(A UNIT OF : PRAGYA GROUP) · INDORE, INDIA

ISO 9001:2015

Certificate No. Q-205023092808



STEEL TESTING EQUIPMENT

Drop Weight Tear Tester

PLC-controlled automatic drop weight tear testing to ASTM E436, API RP 5L3, ASTM E208 and DIN EN 10274 — three models from 30,000 to 80,000 joules.



INTRODUCTION

"PRAGYA" developed its first Drop Weight Tear Tester (DWTT) in the year 1999 for the maximum energy level of 30,000 Joules. Over time, Pragya's commitment to excellence resulted in the development of fully automatic PLC controlled DWTT with hydraulic shock absorbers for *drop weight tear testing* of "specimen" according to the standards ASTM-E436, API-RP5L3, ASTM-E208 and DIN EN 10274.

Now we offer three different automatic PLC controlled DWTTs :

- PRTT - 30000 J
- PRTT - 55000 J
- PRTT - 80000 J

Pragya's DWTT is robust in construction, smooth in operation and is practically maintenance free. The machine is supplied with auxiliary equipments (optional), i.e. hydraulic notch making press and deep freezer to cool the specimen up to minus (-) 80°C.

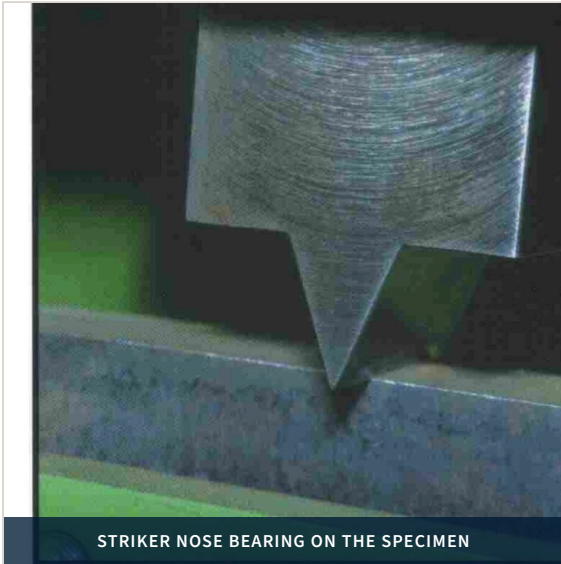
SALIENT FEATURES :

- Drop weight tear testing of "specimen" according to standards as per ASTM-E436, API-RP5L3, ASTM-E208 and DIN EN 10274.
- Touch-screen panel with electronic display of height, energy drop weight and dropping speed at predetermined parameters.
- The stepless adjustable drop height is reached automatically after input of drop weight and energy.
- Drop weight is divided in individual weights to adjust drop energy.
- Modular frame design with stainless steel pillars and doors.
- Four high capacity hydraulic shock absorbers with accumulators for safe absorption of the excess drop energy.
- Hydraulic specimen feeding device, equipped outside of testing area.
- Easily removable bending tools (hammer).

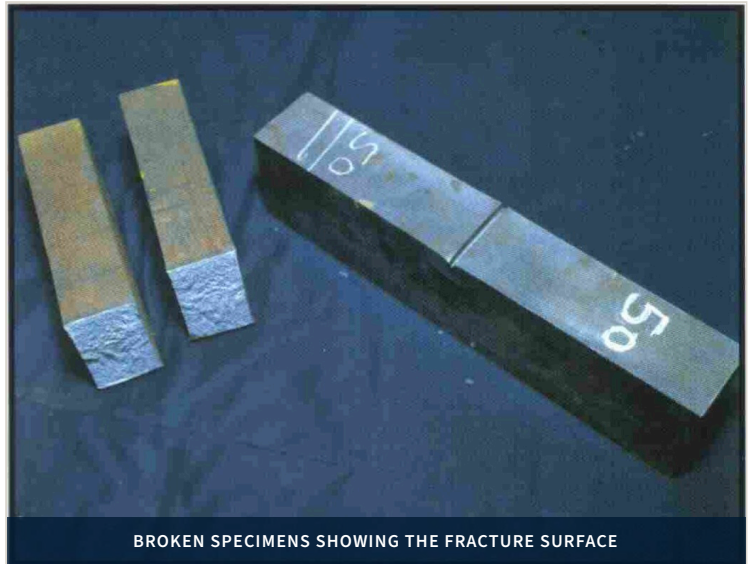
SAFETY:

- Electrical and mechanical safety interlocking. Testing is possible only after checking of all safety parameters, to comply with OSHA requirements (USA).
- Exclusive safety bars provided to ensure human safety in case of catastrophic failures.

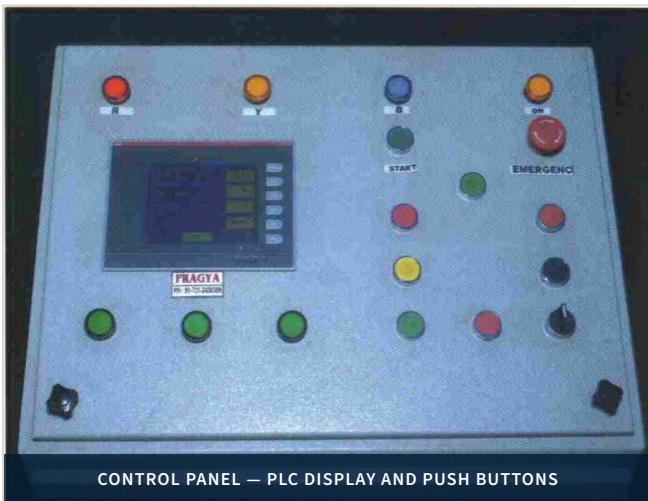
THE MACHINE IN SERVICE



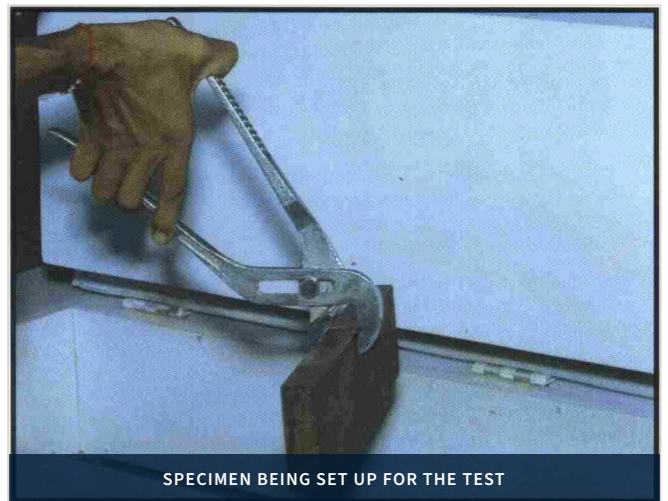
STRIKER NOSE BEARING ON THE SPECIMEN



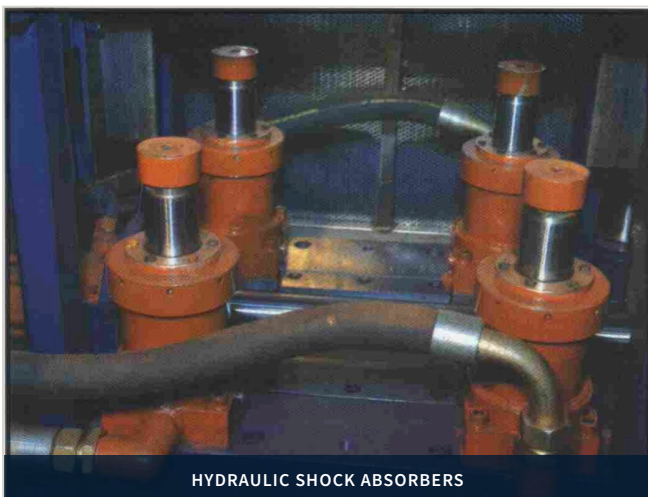
BROKEN SPECIMENS SHOWING THE FRACTURE SURFACE



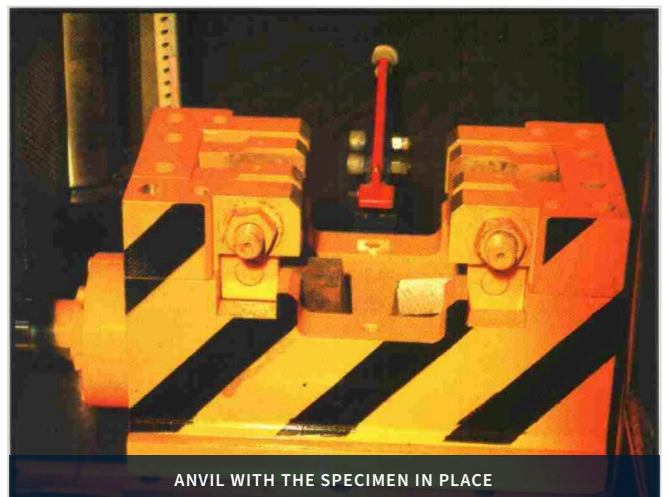
CONTROL PANEL – PLC DISPLAY AND PUSH BUTTONS



SPECIMEN BEING SET UP FOR THE TEST



HYDRAULIC SHOCK ABSORBERS



ANVIL WITH THE SPECIMEN IN PLACE



TECHNICAL SPECIFICATIONS

Model	PRTT-30000 J	PRTT-55000 J	PRTT-80000 J
Maximum Impact Energy (J)	30000	55000	80000
Minimum Impact Energy (J)	6500	7000	15000
Maximum Height (mm)	3100	4000	5100
Maximum Plate Thickness (mm)	38	50	50
Raising Height Accuracy (mm)	± 5	± 5	± 5
Maximum Strike Weight (kg)	1000	1400	1600
Strike Weight Accuracy (%)	± 1	± 1	± 1
Striker Velocity (m/sec)	3.0 to 7.0	4.0 to 9.0	4.0 to 9.9
Specimen Alignment Accuracy (mm)	± 1	± 1	± 1
Base Size L x W x H (mm)	1250 x 1250 x 200	1300 x 1300 x 200	1500 x 1500 x 200
Dimension — L (mm)	3000	3000	3500
Dimension — W (mm)	1300	1400	1600
Dimension — H (mm)	5500	7000	8500
Weight (kg)	7600	10000	14500

"PRAGYA" is also engaged in manufacturing and export of terminal, handling and testing equipments for SAW / SPIRAL pipe plants and CR / HR steel mills for over three decades.

We also offer following equipments :

- Pipe carriage / trolley for UT and X-ray testing of pipes.
- Pipe rotator, pipe conveyor, pipe transfer trolley, pipe lifting hanger and work aids.
- Welding boom, X-ray and UT boom and post-bending rolls.
- Pipe sizing press, online decoilers, plate flatners / levelers and hydraulic shears.
- Cut to length lines for HR/CR coils with edge slitters / trimmers and scrap winders.
- Coil handling equipments i.e. 'C' hooks, coil grab / tong, coil upender / downender, coil car, coil transfer trolley, slab lifting tong etc.
- Tube finning machine and finned tube heat exchangers / radiators.

PRAGYA PRECISION EQUIPMENT PVT. LTD.

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