


RAY-RAN POLYTEST

**IZOD - CHARPY
TENSION - PUNCTURE**

Microprocessor Controlled
Impact System



 **WORLD WIDE** **TESTING FOR QUALITY**

RAY-RAN

Microprocess



TEST SAMPLE MOULDING APPARATUS

A low cost, simple to use Injection Moulding Machine for producing test samples. Low cost tooling available to all standards.



AUTO NOTCHING CUTTER

Designed for Izod and Charpy Notching. With variable cutter speed and sample feed. Notch forms to cover all International Standards available.



DATA FILE CAPTURE

RS232 Output and Ray-Ran "Windows" based Software. Supplied as standard

SELF CALIBRATION

The system is supplied with a calibration procedure for bearing resistance and windage

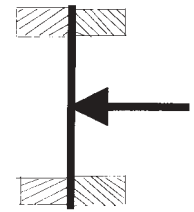
VARIABLE VELOCITY

Infinitely variable from 1.5 m/s to 3.8 m/s to accommodate all International Standards

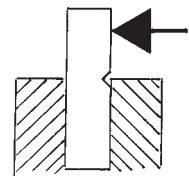
SOLENOID HAMMER RELEASE

With integral safety device and audible warning

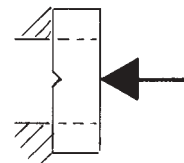
Microprocessor Controlled Impact System



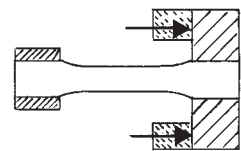
PUNCTURE



IZOD



CHARPY



TENSION

HARD COPY RESULTS

RAY-RAN IMPACT

IZOD TEST

DATE 25/11/95

USER 12

REF 378

TEMP 20 deg C

VEL. 3.5 M/sec

HAMMER 0.898 kg

WIDTH 8 mm

THICKN 4 mm

EN. 5.190 Joules

Result No. 001

0.730 kJ/m

91.26 kJ/m²

Result No. 002

0.778 kJ/m

97.34 kJ/m²

Result No. 003

0.761 kJ/m

95.14 kJ/m²

Result No. 004

0.746 kJ/m

93.28 kJ/m²

Result No. 005

0.796 kJ/m

99.54 kJ/m²

BATCH STATS

SAMPLES - 003

MEAN 95.312

STDEV 2.918

kJ/M

MEAN 0.7625

STDEV 0.023

KJ/M²

C.O.V 3.281 %

HAMMERS

Hammer weight for Izod, Charpy and Tension available to suit all International Standards

KEYPAD DATA ENTRY

All data entry via ergonomically simple keypad

LCD DISPLAY

Provides auto prompts for test procedures, calibration and test results

RAY-RAN PENDULUM IMPACT SYSTEM

The apparatus has been designed in accordance with all International Standards for Izod, Charpy and Tension Impact Testing. The design utilises Microcompressor Technology for simplicity, Ease of Operation, High Accuracy and Repeatability of Results.

Technical Specification

The design incorporates the following features as standard:

- Velocity Range:- Variable from 1.5 to 3.8 m/s (4.92 to 12.467 ft/sec).
- Energy Range:- To 25 Joules. (18.44 ft.lbf).
- Mode of Operation and Results in Metric or Imperial units.
- Incorporates the latest Microprocessor Control Technology.
- Liquid Crystal Display provides Auto Prompts for Data Entry, Calibration, Test Procedures and Results.
- Calibration Procedures for Bearing Resistance & Windage, automatically carried out prior to each test.
- Built-in Hard Copy Printer giving Parameters, Results, Statistical Averages, Standard Deviation and Coefficient of Variation after each batch.
- RS232 Output with Cable for Connection to any Standard Computer.
- Ray-Ran “Windows” based Software, to provide additional Hard Copy and Data File Capture.
- Microprocessor will Store, Display, Edit and Print 100 Test Results.
- Solenoid Operated Hammer Release with Audible Pre-Warning.
- Safety Guard electrically inhibits operation if not closed.
- Full set of Operating Instructions.
- Conforms to required CE Regulations.

ELECTRICAL SPECIFICATION: 220/240 volts 50 Hz
110/120 volts 60Hz

SHIPPING DIMENSIONS:
92cm x 81cm x 56cm, Net Weight 112kg, Gross Weight 125kg