

## **Ballistics Test Equipment - High Speed Particles**

### ***Description:***

The apparatus comprises essentially 3 main parts:-

1. An adjustable headform mounted in an impact resistant chamber
2. A pneumatic circuit, including a semi-automatic ball loading mechanism, a barrel and necessary controls. Aiming of the ball is aided by a laser pointer projecting a spot on the target area.
3. An electrical circuit, including the ball speed measurement system

The equipment is of self-contained, bench mounted, steel construction, with enamelled paint finish. Electrically interlocked door to test chamber, which is fitted with polycarbonate panels to enable viewing of tests. Headform is universally adjustable: translation - fore/aft and side/side on slides, up/down on screw/handwheel: rotation - about both vertical and lateral axes.

Semi-automatic breech loading of supply of balls by lever operated ratchet mechanism and automatic collection of spent balls to front of test chamber. Propulsion by compressed air or gas. Precision pressure regulator and gauge and all operating controls easily accessible at front

Capable of projecting a 6mm diameter steel ball at a range of velocities from 12 - 195 m/s.

The control circuit incorporates adjustable gas pulse duration, safety interlocking, reset and fire buttons. Ball speed detection by light source and photocell units, indication by digital meter.

### ***Services required:***

Bench mounted. 230vac, 50Hz mains electrical supply. Compressed air at a pressure of up to 6 bar. Cylinder of compressed balloon gas (impure Helium) for speeds of above 150 m/s.

### ***Approximate packed size & weight:***

100 x 65 x 195 cm : 185 kg

### ***Relevant standard:***

EN 168 : 2002, para 9.1

***Delivery:*** 10-12 weeks from receipt of order and deposit.

Effective: May 2008

