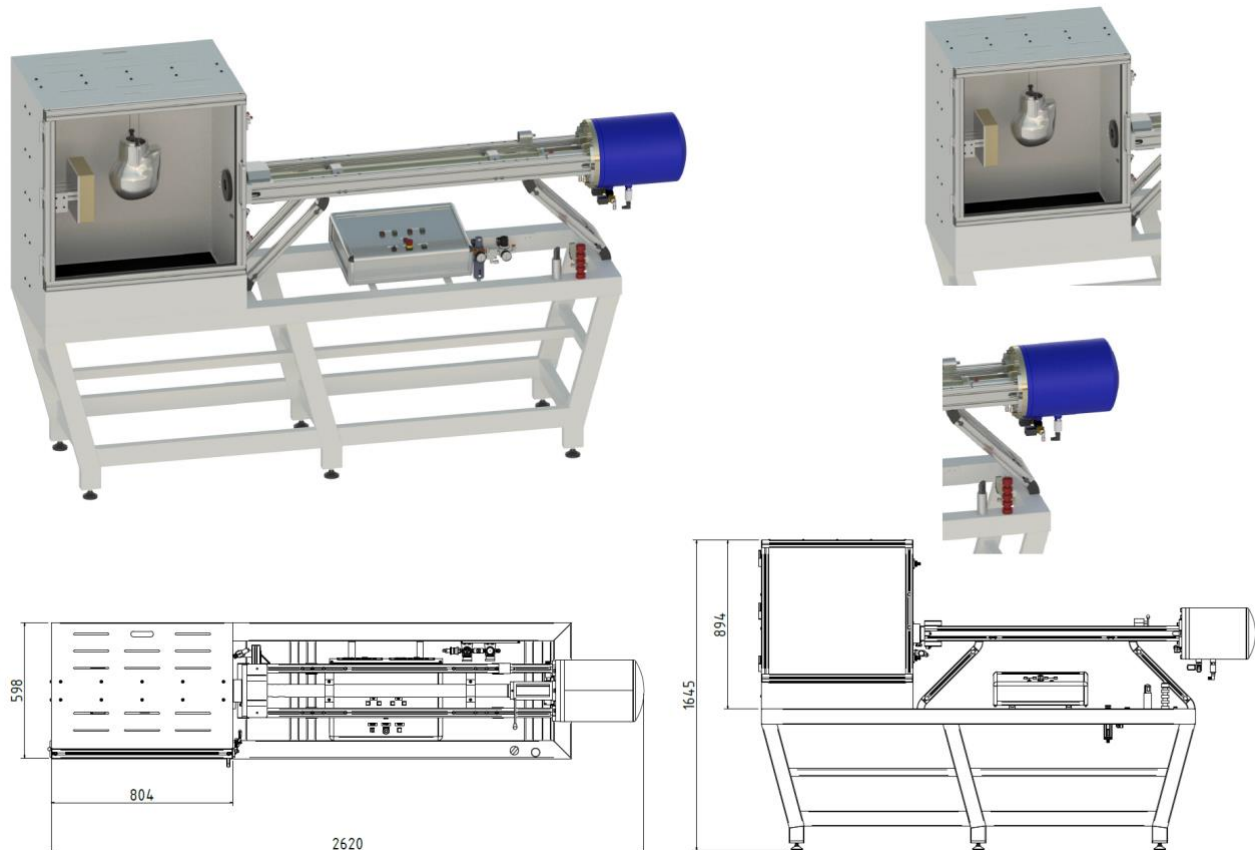


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HPG 1010 ABP

This compressed air cannon is specifically designed for testing FIA helmet shells. It is capable of launching darts compliant with FIA 8860-ABP standards at speeds up to 100 m/s. It features a dedicated headform holder with a laser targeting system for precise alignment. The unit comes with a custom aluminum case and is fully operated via dedicated PC software. Data acquisition is performed using an additional QASM7 card.



Technical data sheet :

- **Frame:** Made of anodized aluminum ITEM profiles.
- **Pressure Vessel:** Steel compressed-air loading tank with loading and exhaust solenoid valves
- **Firing Mechanism:** Special high-speed firing valve actuated by a pneumatic cylinder.
- **Loading:** Breech mechanism equipped with a safety sensor for aluminum dart loading.
- **Sample Handling:** Bi-directional sliding headform holder with position lock. Two cables keep the headform suspended, allowing it to oscillate freely after the dart impacts the helmet.
- **Pressure Control:** Air-pressure loading system with an analog pressure gauge, interfaced with the PC via an integrated QASM7 board.
- **Data Logging:** Second QASM7 board with 3 analog inputs for 3 accelerometers to be installed in the headform. Data acquisition software is supplied together with a PC and a second screen.
- **System Management:** Velocity recording and automated functions managed by proprietary GTM software via a USB-connected PC.
- **Enclosure:** Aluminum ITEM profiles, 4 mm aluminum sheet test cabinet featuring a transparent polycarbonate viewing window and an integrated door safety switch.
- **Accessories:** 3 hard aluminum and steel darts included according to FIA 8860-ABP standards.
- **Performance:** Maximum velocity up to 100 m/s.
- **Dimensions (L×W×H):** 2650 × 840 × 1550 mm. - **Power Supply:** 220/240 V single-phase, 50 Hz.