PARACHUTE DUMMY

P/N 131-001

The Parachute Dummy (Torso dummy) has evolved into its present form primarily on the basis of continued use by United States Government parachute test groups. The present version is the most rugged dummy ever developed - it is capable of withstanding repeated free falls with minimal or no damage.

The torso corresponds to a 95th-percentile male, 182 cm (73 in) tall. The torso weighs 85.3 kg (188 lbs). The normal weight of a young male of this stature is 95.7 kg (211 lbs). Hence, there is a nominal 10.4 kg (23 lbs) weight allowance for instrumentation.

The torso structure is a steel weldment, terminating at the base of the neck and at the shoulders in steel flanges which mate with manganese bronze caps.

The structure is machined to receive instrumentation packages, which extend into the torso. The torso is terminated in a demountable steel 'kick-plate,' providing access to the stub-leg instrumentation cavities.

Two chest cavities are provided, each with its own flesh covering, for installation of accelerometers or other instrumentation and for junction strips and wiring.

The flesh is molded of a very tough vinyl about the torso structure. Although this dummy, when instrumented, has a weight corresponding to a 182 cm (73 in) tall male, it will reach a higher terminal velocity due to the absence of arms and legs which produces lower drag. It will also rotate faster than a human due to lack of human energy-absorption, lower moment of inertia, and lack of dynamic response. The color of the vinyl body is spectral white, which sharpens the contrast of the dummy on event films.

The dummy is furnished with all tools needed for assembly and disassembly.

KEY BENEFITS

DURABLE DESIGN

Ability to withstand repeated free falls with minimal damage

REPRESENTS 95TH PERCENTILE MALE

Weight and torso height corresponds to a 182 cm (73 in), 95.7 kg (211 lbs) male

BUILT TO FIT INSTRUMENTATION & MODERN BATTERIES

Internal instrumentation cavity and internal battery cavity and on-board data acquisitions with internal wiring connections, instrumentation included is at the discretion of testing range

ALLOWS GROUND CAMERA TRACKING

White vinyl over a steel skeleton allows for ground camera tracking during testing

BUILT FOR PARACHUTE AND HARNESS TESTING

Torso is designed with stub legs and kick plate to allow parachute harness engagement during testing

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SPECIFICATIONS

DESCRIPTION	SPECS	
OVERALL DIMENSIONS	305.0 x 381.0 x 813.0 mm	12.0 x 15.0 x 32.0in
WEIGHT WITHOUT INSTRUMENTATION	85.3 kg	188 lbs
WEIGHT WITH INSTRUMENTATION	95.7 kg	211 lbs

AVAILABLE INSTRUMENTATION

- Accelerometers
- Data Acquisitions System