



HURD - 132 lbs

Model 132-0000



Denton ATD, Inc. and Robert A. Denton, Inc. formed a cooperative alliance with Veridian Engineering, Inc. to design, develop and produce the “Hybrid Universal Research Dummy” (HURD). The HURD manikin has been developed for the aerospace industry as an advanced supplement to the GARD dummy.

The HURD incorporates the following features:

- Newer type of manikin for more readily available replacement parts
- Increased limb motion for more realistic human simulation
- Newer joint design for better adjustment of joint resistance frictions
- Rib type chest design which more closely matches human response
- Up-to-date instrumentation mounting capability which follows the currently accepted aerospace testing practices
- Capability for on-board data acquisition with support batteries and instrumentation
- Head allows mounting of a 6-axis load cell
- Neck is an automotive Hybrid II for more realistic head kinematics
- Numerous interchangeable parts with those used on other modern ejection test manikins
- Upgradeable for additional instrumentation capability

Standard equipment included in the base price of this device:

- Accelerometer mounts for head, chest, sternum, thoracic and pelvis*
- Structural replacements for all load cells

*User must specify the accelerometer manufacturer and type at the time of order placement

WEIGHTS:	Pounds	Kilograms
Head	10.6	4.82
Neck	2.8	1.27
Neck Bracket	2.8	1.27
Angular Mount Block	0.6	0.27
Universal Chest Box	5.6	2.55
Back Plate	1.4	0.64
Instrumentation	10.7	4.86
Ribs (6)	1.7	0.77
Bib with Strips	1.0	0.45
Clavicle	7.7	3.5
Chest jacket	4.4	2.0
Abdominal Insert	0.9	0.4
Pelvis	23.8	10.81
Legs	31.5	14.32
Spine	10.7	4.86
Shoulder Forks & Hardware	2.4	1.09
Arms	9.8	4.45
Spine Spacer	1.0	0.45
Chest Box Ballast	1.7	0.77
TOTAL WEIGHT	131.0	59.55

DIMENSIONS:	Inches	Centimeters
Seated Height	33.6	85.34
Eye Sitting Height	28.5	72.39
Head Length	7.9	20.07
Head Breadth	7.2	182.88
Head Circumference	22.8	57.91
Thumb Tip Reach	27.5	69.85
Shoulder Height	21.0	53.34
Shoulder Breadth	21.5	54.61
Chest Breadth	10.2	25.91
Chest Depth	8.7	22.1
Chest Circumference	31.5	80.01
Waist Circumference	30.3	76.96
Hip Breadth	11.6	29.46
Popliteal Height	15.1	38.35
Knee Height	19.0	48.26
Buttock - Knee	21.8	55.27
Foot Length	8.8	22.35
Foot Breadth	3.4	8.64
STATURE	61.5	156.21

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Creating the New Standard in ATDs

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