



HURD - 116 lbs

Model 116-0000



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	10.5	4.77
Neck	2.0	0.9
Neck Bracket	2.7	1.23
Angular Mount Block	0.6	.27
Universal Chest Box	5.6	2.55
Back Plate	1.4	0.64
Instrumentation	10.5	4.77
Ribs (6)	1.7	0.77
Bib with Strips	1.0	0.45
Clavicle	5.4	2.45
Chest jacket	5.2	2.36
Abdominal Insert	0.9	0.4
Pelvis with Femurs	15.3	6.95
Legs	28.6	13.0
Spine	4.7	2.14
Shoulder Forks & Hardware	2.4	1.09
Arms	9.9	4.5
Lower Torso Ballast	8.6	3.9
TOTAL WEIGHT	116.9	53.14

DIMENSIONS:	Inches	Centimeters
Seated Height	32.9	83.56
Eye Sitting Height	28.4	72.13
Head Length	9.2	23.37
Head Breadth	6.9	17.526
Head Circumference	23.5	59.69
Thumb Tip Reach	27.7	70.358
Shoulder Height	18.7	47.498
Shoulder Breadth	14.4	36.576
Chest Breadth	9.9	25.146
Chest Depth	9.4	23.876
Chest Circumference	33.7	85.598
Waist Circumference	29.7	75.438
Hip Breadth	11.4	28.956
Popliteal Height	16.7	42.42
Knee Height	19.1	48.51
Buttock - Knee	22.0	55.88
Foot Length	8.7	22.098
Foot Breadth	3.3	8.38
STATURE	61.0	154.94

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Creating the New Standard in ATDs

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