



# HURD - 202 lbs

Model 202-0000



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

<b>WEIGHTS:</b>	<b>Pounds</b>	<b>Kilograms</b>
Head	10.5	4.77
Neck	2.0	0.91
Neck Spacer (#202-1030)	0.8	0.36
Neck Bracket	2.8	1.27
Neck Spacer (#202-2030)	0.4	0.18
Angular Mount Block	0.6	0.27
Universal Chest Box	5.5	2.5
Back Plate	1.1	0.5
Instrumentation	10.7	4.86
Ribs (6)	4.0	1.82
Bib with Strips	1.4	0.64
Clavicle	11.4	5.18
Chest jacket	8.4	3.82
Abdominal Insert	2.4	1.09
Pelvis with Femurs	38.7	17.59
Legs	61.2	27.82
Spine	10.2	4.64
Shoulder Forks & Hardware	4.8	2.18
Arms	25.1	11.42
<b>TOTAL WEIGHT</b>	<b>202.0</b>	<b>91.82</b>

<b>DIMENSIONS:</b>	<b>Inches</b>	<b>Centimeters</b>
Seated Height	38.6	98.0
Eye Sitting Height	33.4	84.8
Head Length	8.2	20.8
Head Breadth	7.2	18.3
Head Circumference	23.0	58.4
Thumb Tip Reach	32.6	82.8
Shoulder Height	26.0	66.0
Shoulder Breadth	22.8	57.9
Chest Breadth	14.6	37.1
Chest Depth	11.4	28.9
Chest Circumference	44.9	114.0
Waist Circumference	37.8	96.0
Hip Breadth	17.6	44.7
Popliteal Height	19.0	48.3
Knee Height	23.8	60.5
Buttock - Knee	25.5	64.8
Foot Length	10.4	26.4
Foot Breadth	4.1	10.4
<b>STATURE</b>	<b>73.6</b>	<b>186.9</b>

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*Creating the New Standard in ATDs*

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