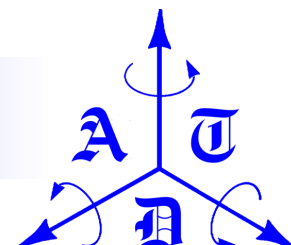


# III

# 50th % MALE

Test Dummy



DENTON ATD, INC.

# HYBRID

Creating the New Standard in ATD's

**Model Number: 78051-218-R98**



The Hybrid III-50th Percentile Male ATD was developed by General Motors Corporation under NHTSA contract beginning in 1973. This development program was undertaken to improve the impact response of the test dummy to more closely approximate that of humans, based upon the biomechanical data available.

Having nearly twenty years of test and evaluation history behind it, the Hybrid III-50th Percentile Male ATD can accommodate a wide range of instrumentation and transducers. Optional equipment is available from, literally, the head to the feet, making this device one of the most versatile test devices for compliance testing, research and development, or aerospace applications.

This ATD is specified under Title 49 CFR Part 572, Subpart E and is the test device of choice for FMVSS 208 testing. This ATD is provided in a Tested and Certified condition.

**The calibration tests performed prior to shipment include:**

- Head Drop
- Neck Flexion and Extension
- Thorax Impact
- Knee Impact and Knee Slider
- Center of Gravity
- Hip Joint Range of Motion

**Standard equipment included in the base price of this test device:**

- Chest Deflection Device
- Six Axis Neck Transducer Structural Replacement
- Accelerometer mounts for Head, Chest and Pelvis – User must specify the accelerometer manufacturer and type at the time of order placement.
- Tibia-Femur Displacement Transducers (One Pair)

WEIGHTS:	Pounds (lbs.)	Kilograms
Head	10.0	4.54
Neck	3.4	1.54
Upper Torso	37.9	17.19
Lower Torso	50.8	23.04
Upper Arms	8.8	4.00
Lower Arms	10.0	4.54
Upper Legs	26.4	11.98
Lower Leg	24.0	10.88
<b>Total Weight</b>	<b>171.3</b>	<b>77.70</b>

DIMENSIONS:	Inches	Centimeters
Head Circumference	23.5	59.7
Head Width	6.1	15.5
Head Length	8.0	20.3
Sitting Height	34.8	88.4
Shoulder to Elbow	13.3	33.8
Elbow to Finger	11.7	29.7
Buttock to Knee	23.3	59.2
Knee Pivot	19.5	49.5