



# Hybrid III 6-Year-Old Child

HIII-6C (Model 127-0000)



The Hybrid III 6-Year-Old Child was originally begun in 1986 as a collaboration between the Centers for Disease Control and Prevention (CDC) and Ohio State University. The Society of Automotive Engineers (SAE) and the National Highway Traffic Safety Administration (NHTSA) also contributed to the design and testing requirements. The goal was to define the size, weight and impact response characteristics for a 6-Year-Old child dummy and incorporate them with the same biofidelity and measurement capacities as the Hybrid III 50th Percentile Adult Male ATD.

Size and weight specifications for the Hybrid III 6-Year-Old Child are based on anthropometry studies of the characteristic dimensions of 6-Year-Old boys and girls. The biofidelic impact response corridors for the head, neck, thorax and knees correspond to the Hybrid III 50th Percentile Adult Male response scaled for size and weight.

The Hybrid III 6-Year-Old Child was upgraded in 1997 for the evaluation of “Out of Position” (OOP) airbag aggressiveness testing.

*The Hybrid III 6-Year-Old Child ATD is specified under Title 49 CFR, Part 572, Subpart N.*

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

- Head Drop
- Neck Flexion and Extension
- Thorax Impact
- Knee Impact
- Torso Flexion

### Standard equipment included in the base price of this device:

- Chest Deflection Transducer
- Accelerometer mounts for head, chest , sternum, thoracic spine 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 (lbs.)</b>	<b>Kilograms</b>
Head	7.66	3.47
Neck	1.20	0.54
Upper Torso	12.25	5.57
Lower Torso	13.75	6.24
Upper Arm	1.05	0.48
Lower Arm w/hand	1.37	0.62
Upper Leg	3.20	1.45
Lower Leg and Foot	2.75	1.25
<b>Total Weight</b>	<b>51.60</b>	<b>23.41</b>

<b>DIMENSIONS:</b>	<b>Inches</b>	<b>Centimeters</b>
Head Circumference	20.50	52.07
Head Breadth	5.60	14.22
Head Depth	6.80	17.27
Knee Pivot Height	12.40	31.50
Buttock to Knee Pivot	13.90	35.31
Hip Pivot Height	2.70	6.86
Hip Pivot From Backline	3.70	9.40
<b>Sitting Height</b>	<b>25.00</b>	<b>63.50</b>

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*Creating the New Standard in ATDs*

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