



Hybrid III 5th Percentile Female

HIII-5F (Model 880105-000)



The Hybrid III 5th Percentile Female ATD design is scaled from the Hybrid III 50th Percentile Male ATD. This ATD is used in test situations where the representation is needed for the minimum anthropomorphic dimensions for the adult female population. The Small Female design and test corridors were established by the Society of Automotive Engineers (SAE) for the 5th Percentile representation. In 2000, design revisions of the Small Female improved its ability to evaluate airbag dynamics in Out Of Position (OOP) testing. The HIII-5F is provided completely tested and certified.

New design features incorporated into the 2000 revision of the Small Female include:

- Modified chest jacket design.
- Upper and lower rib stops.
- Additional accelerometer mounts in the Thoracic Spine and Sternum for V*C measurement capabilities.
- Cable bushings added to the lumbar spine and neck.
- 45 degree feet with ankle bumpers and heel pads.
- Modified femurs with bumpers.

The Hybrid III 5th Percentile Female ATD is specified under Title 49 CFR Part 572, Subpart O.

The calibration tests performed prior to shipment include:

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

Standard equipment included in the base price of this device:

- Chest Deflection Potentiometer
- Knee Slider Potentiometers
- 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

WEIGHTS:	Pounds (lbs.)	Kilograms
Head	8.23	3.73
Neck	2.00	0.91
Upper Torso	26.50	12.02
Lower Torso	29.20	13.25
Upper Arm	2.60	1.18
Lower Arm w/ Hand	2.60	1.18
Upper Leg	6.90	3.13
Lower Leg w/ Foot	8.95	4.06
Total Weight	108.03	49.05

DIMENSIONS:	Inches	Centimeters
Head Circumference	21.20	53.85
Head Breadth	5.60	14.22
Head Depth	7.20	18.29
Buttock to Knee Length	21.00	53.34
Knee Pivot Height	16.00	40.64
Hip Pivot From Backline	5.80	14.73
Hip Pivot Height	3.30	8.38
Sitting Height	31.00	78.74

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Creating the New Standard in ATDs

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