



Japan Automotive Safety Testing Innovations
Jasti Co., Ltd.

PRODUCT CATALOG 2026



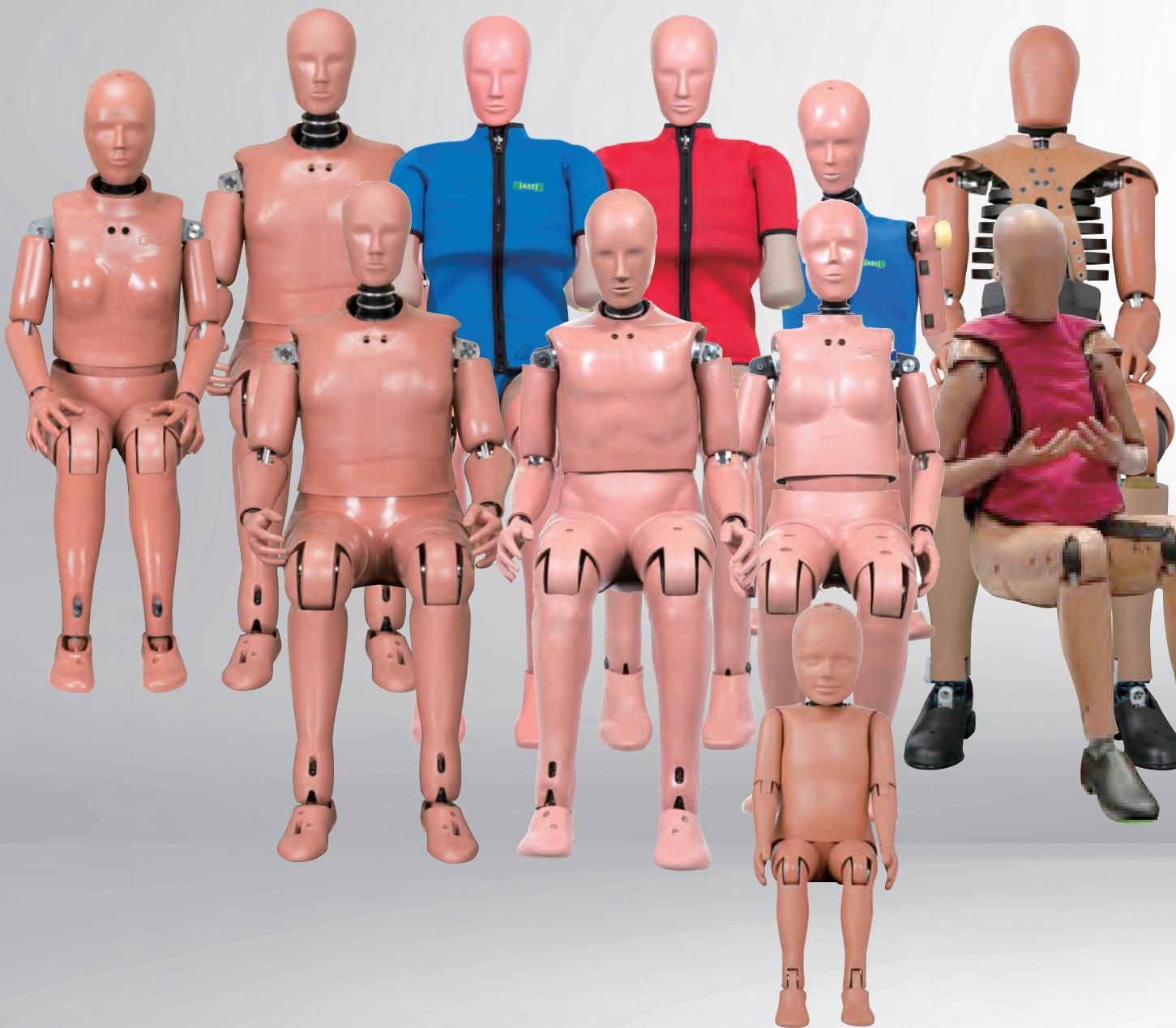
ATD SAFETY

IMPACT TEST

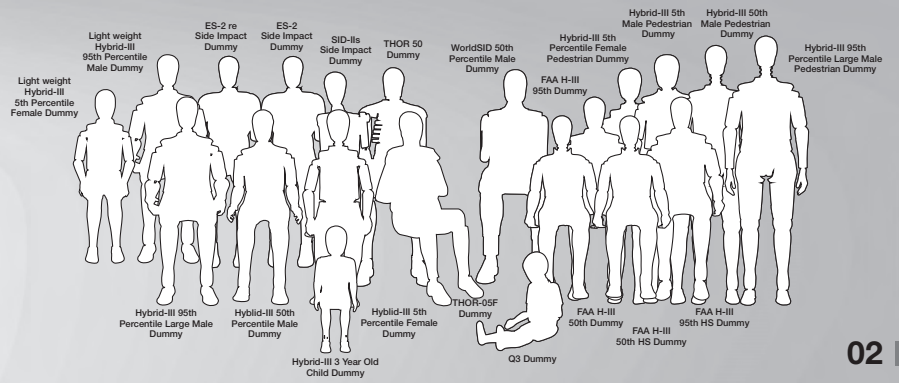
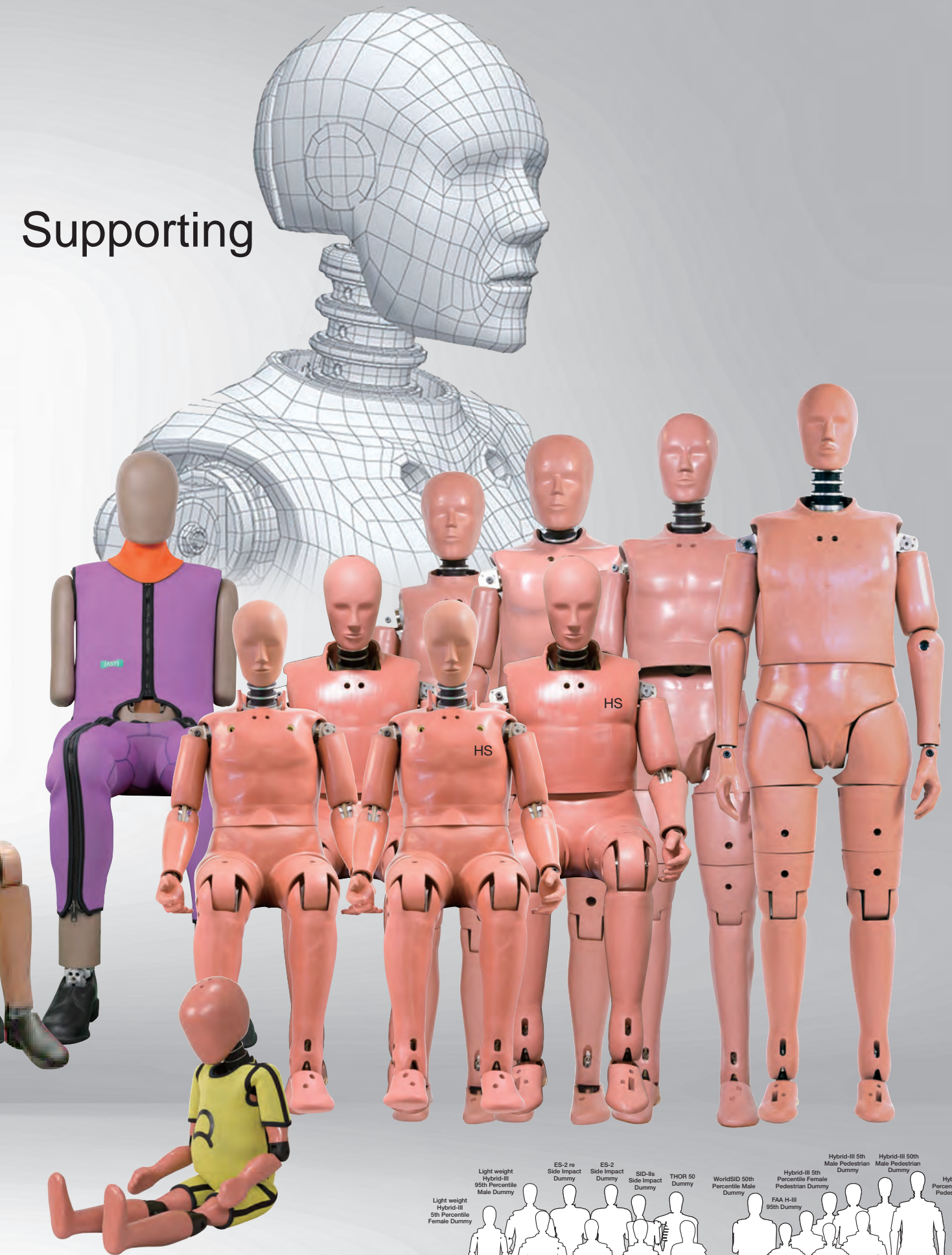




JASTI's Cutting-edge Safety Technologies the Automobile Industry Worldwide



Supporting

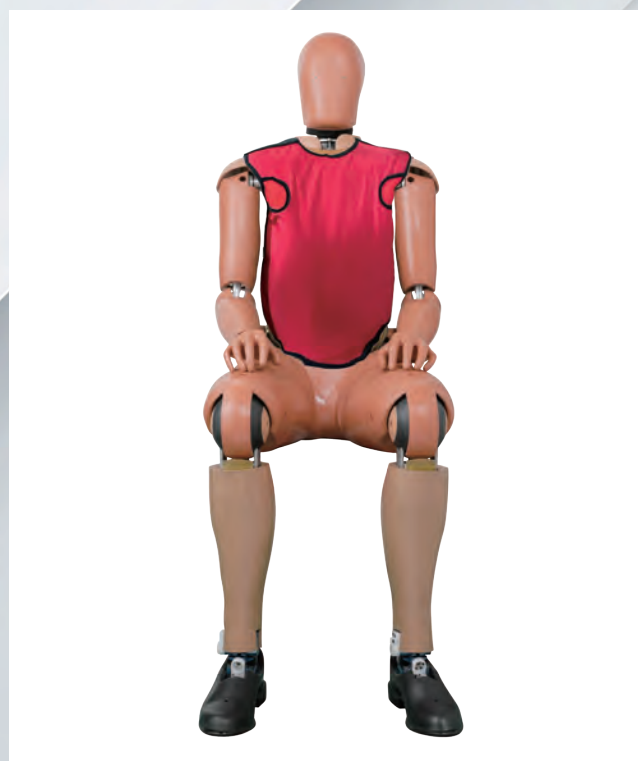
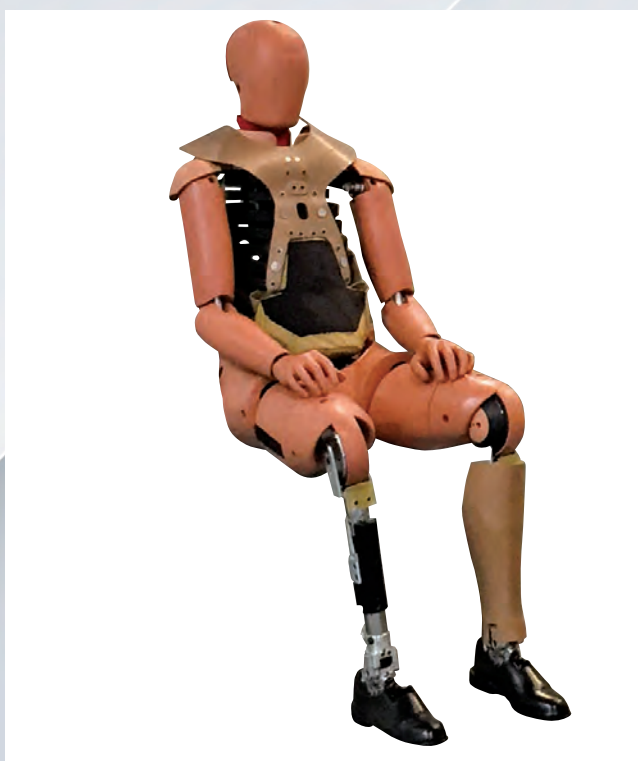


Front Impact Test Dummy

THOR 50th Percentile Male Dummy

Applicable standard

■NHTSA



THOR 50th Dummy (NHTSA)

Outer Size (mm)		
Seated Height	L1	942±10
Hip Pivot Height	L2	114±5
Hip Pivot to Seat Back	L3	217±5
Thigh Clearance	L4	165±5
Knee Pivot to Bottom of Foot	L5	525±5
Knee Pivot to Hip Pivot	L6	423±5
Knee Centerline to Knee Centerline	L7	252±5
Head Back to Seat Back Line	L8	76 SET
Rib #3 Depth	L9	224±5
Rib #7 Depth	L10	220±5
Shoulder-Elbow Length	L11	393±5
Width Across Arms	L12	471±9
Waist Width	L13	336±5
Hip Width	L14	403±5
Back of elbow to wrist pivot	L15	292±5

Weight (kg)	
Head Assembly	4.68
Neck Assembly	2.37
Thorax Assembly	21.95
Lower Abdomen	2.67
Upper Arm Assembly (left & right)	3.4
Lower Arm (left & right)	3.32
Hand (left&right)	1.1
Pelvis	15.24
Upper Leg Assembly (left & right)	11.4
Lower Leg Assembly (left & right)	6.78
Molded Shoe (left & right)	3.2
Total Weight	76.11

THOR 5th Percentile Female Dummy



A prototype is being developed with a draft drawing.

Outer Size (mm)	
Seated height	788
Weight (kg)	
Total Weight	48.2

THOR-50M Finite Element Model



For virtual testing and verification of advanced safety systems

Main features

- Compliant with all calibration conditions for THOR-50M
- Simplified positioning by Positree(TM)
- Easy access to standardized sensor output
- Verified stability at a higher impact velocity or under impact conditions with restrained/unrestrained passengers
- Easy to integrate with existing models through block numbering

Anthropomorphic Test Device Dummy

Side Impact Test Dummy

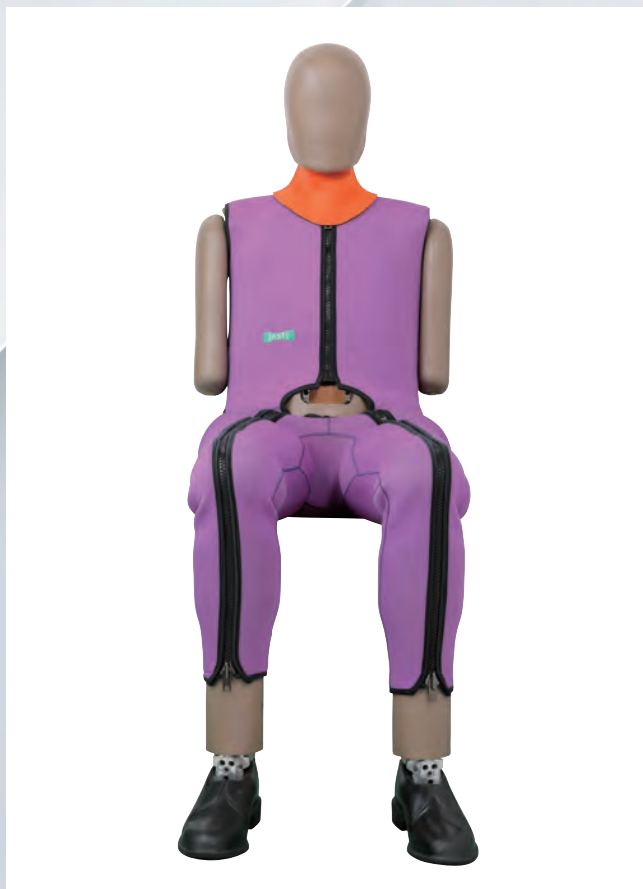
WorldSID 50th Percentile Male Side Impact Dummy W50-00000

Applicable standard

■ ECE R95

(EU) Euro NCAP TB-026 (USA) FMVSS 214

This WorldSID 50th dummy is standardized according to ISO 15830 Version C, Parts 1, 2, 3, 4, 2022.



WorldSID 50th Percentile Male Dummy

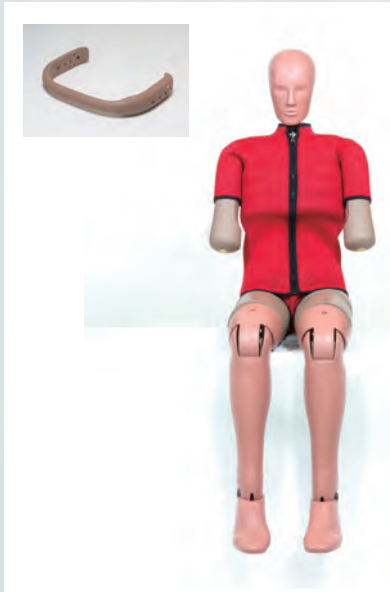
Outer Size (mm)	
Sitting Height	869±30
Buttock to Knee Length	670±30
Chest/Arm Width	468±30
Arm Length	330±30
Waist Width	324±30
Knee to Sole	588±30

Weight (kg)	
Head	4.29±0.05
Neck	2.86±0.02
Upper Torso	20.56±0.35
Arm	1.77±0.09
Lower Torso	17.76±0.20
Thigh (each)	6.71±0.30
Lower Leg (each)	5.09±0.13
Suit	1.54±0.10
Total Weight	73.91±1.02

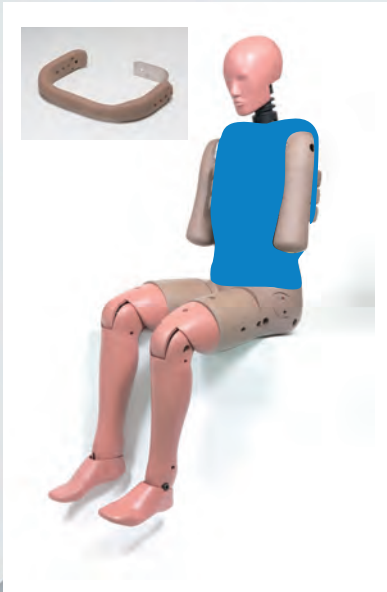
Side Impact Dummy

ES-2/ES-2re/SID-IIs Side Impact Dummy

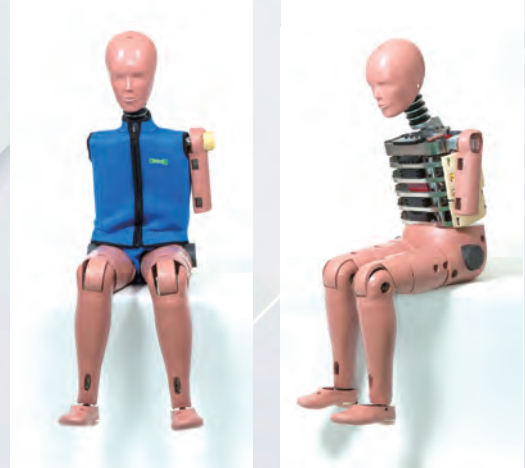
EURO NCAP ES-2
Applicable standard ■ECE R95



US NCAP ES-2re
Applicable standard ■FMVSS214
49CFR PART572 Subpart U



SID-IIs
Applicable standard ■49CFR PART572 Subpart V



ES-2 Side Impact Dummy

Outer Size (mm)	
Sitting Height	900 - 918
Seat to Shoulder Joint	558 - 572
Buttock to Front Knee	597 - 615
Thorax Width	322 - 332
Shoulder/Arm Width	461 - 479
Abdomen Width	273 - 287
Seat to Sole	433 - 451

Weight (kg)	
Head	4.0±0.20
Neck	1.0±0.05
Upper Torso	22.4±1.00
Arm (each)	1.3±0.10
Abdomen	5.0±0.25
Leg (each)	12.7±0.60
Pelvis	12.0±0.60
Total Weight	72.4±1.20

ES-2re Side Impact Dummy

Outer Size (mm)	
Sitting Height	900 - 918
Seat to Shoulder Joint	558 - 572
Buttock to Front Knee	597 - 615
Thorax Width	322 - 332
Shoulder/Arm Width	461 - 479
Abdomen Width	273 - 287
Seat to Sole	433 - 451

Weight (kg)	
Head	4.0±0.20
Neck	1.0±0.05
Upper Torso	22.4±1.00
Arm (each)	1.3±0.10
Abdomen	5.0±0.25
Leg (each)	12.7±0.60
Pelvis	12.0±0.60
Total Weight	72.4±1.20

SID-IIs Side Impact Dummy

Outer Size (mm)	
Sitting Height	772 - 788
Shoulder Pivot Height	437 - 453
Buttock to Knee Length	514 - 540
Chest Width	851 - 881
Shoulder Width	341 - 357
Waist Width	761 - 791
Popliteal Height	343 - 369

Weight (kg)	
Head	3.70±0.05
Neck	0.91±0.09
Upper Torso	11.11±0.20
Lower Torso	12.52±0.18
Arm (each)	0.91±0.05
Thigh (each)	3.13±0.09
Lower Leg (each)	3.27±0.09
Foot (each)	0.79±0.05
Jacket	0.59±0.07
Total Weight	44.12±1.09

Anthropomorphic Test Device Dummy

Front Impact Test Dummy

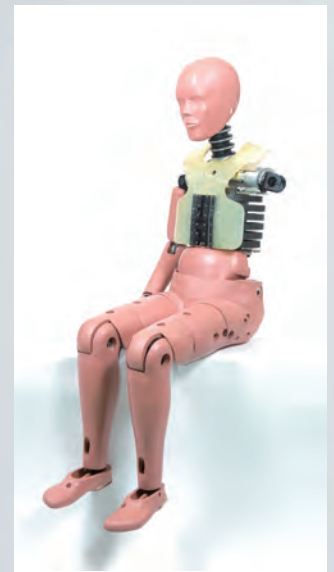
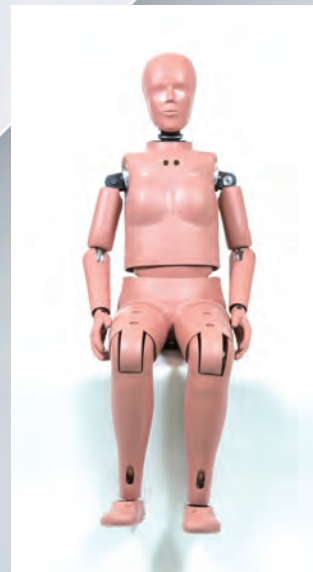
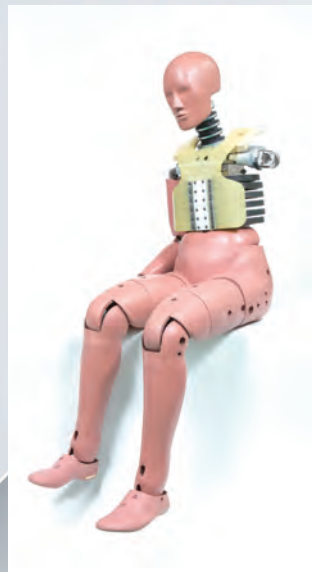
Hybrid-III 50th Percentile Male Dummy

Hybrid-III 5th Percentile Female Dummy

Front Impact Test Dummies, Adult Male/Adult Female,
49CFR PART572 Subpart E/Subpart O, EuroNCAP

Applicable standard

■Japan TRIAS ■USA FMVSS208 ■EU ECE R94



Hybrid-III 50th Percentile Male Dummy

Outer Size (mm)	
Sitting Height	878 - 889
Shoulder Pivot Height	505 - 521
Buttock to Knee Length	579 - 605
Knee Pivot Height	485 - 501
Shoulder Width	421 - 437
Head Back to Backline	40 - 46
Popliteal Height	429 - 455

Weight (kg)	
Head	4.536±0.045
Neck	1.542±0.045
Upper Torso	17.191±0.136
Lower Torso	23.042±0.136
Upper Arm (each)	1.996±0.090
Lower Arm and Hand (each)	2.268±0.090
Thigh (each)	5.987±0.090
Lower Leg and Foot (each)	5.443±0.136
Total Weight	77.700±1.180

Dummy Specifications

Hybrid-III 50M , 5F Dummy		
	USA (NHTSA)	EuroNCAP
Head	Head drop	Same
Neck	Neck Bent/ Extension	Same
Thorax	High/ (Low Speed)	High / Low Speed
Pelvis	Femur Flexion	Same
Knee Slider	Friction	Ball Bearing (High / Low)
Foot	Compression	Impact

Hybrid-III 5th Percentile Female Dummy

Outer Size (mm)	
Sitting Height	774 - 800
Shoulder Pivot Height	431 - 457
Buttock to Knee Length	520 - 546
Knee Pivot Height	393 - 419
Shoulder Width	350 - 366
Head Back to Backline	43 - 48
Popliteal Height	355 - 376

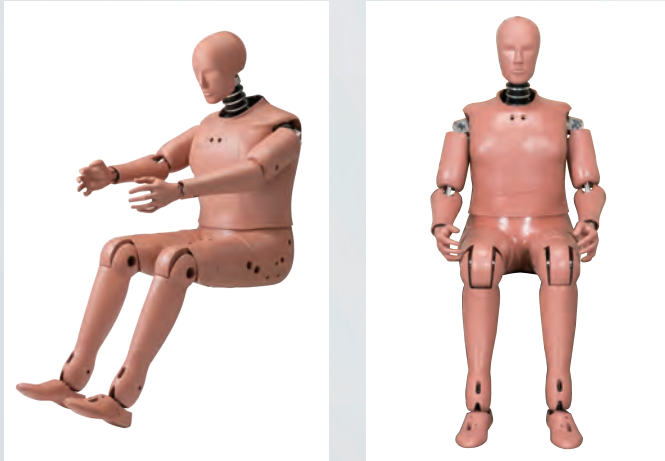
Weight (kg)	
Head	3.730±0.05
Neck	0.910±0.09
Upper Torso	12.020±0.14
Lower Torso	13.250±0.14
Upper Arm (each)	1.180±0.05
Lower Arm (each)	0.900±0.05
Hand (each)	0.280±0.05
Thigh (each)	3.130±0.09
Lower Leg (each)	3.270±0.05
Foot (each)	0.790±0.05
Total Weight	49.050±0.91

Front Impact Test Dummy

Hybrid-III 95th Percentile Large Male Dummy

Front Impact Test Dummy, Adult Large Male

Applicable standard ■ Designated as SAE standard H3-95 dummy



Hybrid-III 95th Percentile Large Male Dummy

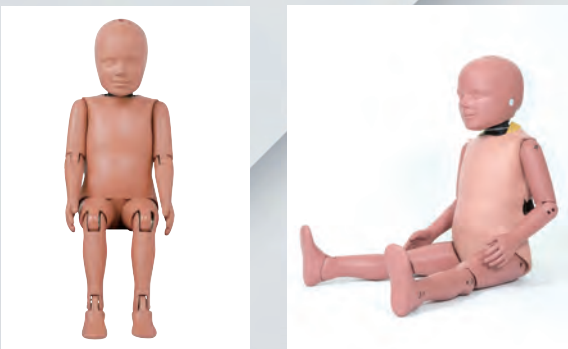
Outer Size (mm)	
Sitting Height	927 - 942
Shoulder Pivot Height	541 - 556
Buttock to Knee Length	624 - 650
Knee Pivot Height	521 - 546
Shoulder Width	467 - 483
Head Back to Backline	86 - 91
Popliteal Height	457 - 483

Weight (kg)	
Head	4.94±0.05
Neck	1.68±0.05
Upper Torso	22.32±0.36
Lower Torso	30.30±0.36
Upper Arm (each)	2.81±0.05
Lower Arm and Hand (each)	2.64±0.05
Thigh (each)	8.21±0.09
Lower Leg and Foot	7.34±0.09
Total Weight	101.24±1.63

Hybrid-III 3-Year-Old Child Dummy

Front Impact Test Dummy, 3-Year-old Child

Applicable standard ■ 49 CFR PART572 Subpart P



Hybrid-III 3-Year-Old Child Dummy

Outer Size (mm)	
Sitting Height	546.1
Shoulder Pivot Height	315.0
Buttock to Knee Length	292.4
Knee Pivot Height	249.2
Shoulder Width	244.1
Head Back to Backline	53.3
Popliteal Height	226.1

Weight (kg)	
Head	2.72
Neck	0.79
Upper Torso	7.00
Upper Arm (each)	0.44
Lower Arm (each)	0.46
Thigh (each)	1.01
Lower Leg (each)	0.61
Foot (each)	0.31
Total Weight	16.17

Q3 Dummy

Q3 Dummy(EU) / Q3s Dummy(USA)



Q3 Dummy

Outer Size (mm)	
Sitting Height	544
Shoulder Pivot Height	329
Chest	142
Shoulder Width	259
Buttock to Knee Length	305
Buttock to Behind the Knee Length	253

Weight (kg)	
Head + Neck	3.17
Torso (including clothing)	6.40
Upper Arm	0.75
Lower Arm	0.73
Thigh	2.00
Lower Leg	1.54
Total Weight	14.60

Anthropomorphic Test Device Dummy

FAA Dummy for Aircraft Seat Evaluation

FAA H-III 50th Dummy

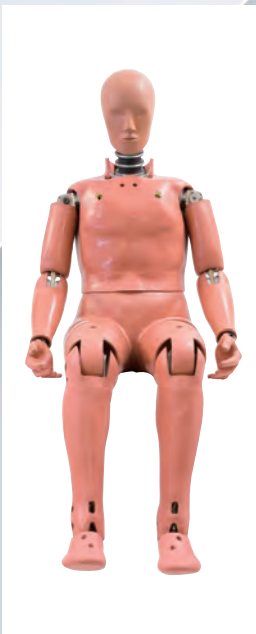
FAA H-III 95th Dummy

Dummy for Aircraft Seat Evaluation

*The FAA Dummy is standardized in Part 23.562, 25.562, 27.562, and 29.562 of CFR 14.

*HS (Heli safe) specification models are available both for 50th and 95th FAA Dummies.

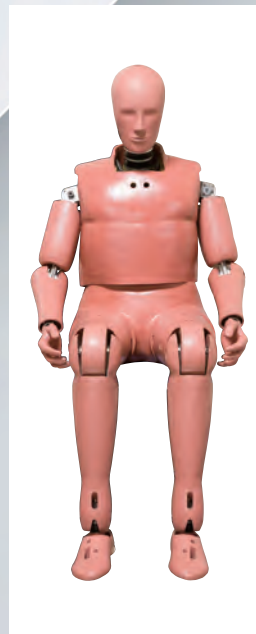
FAA H-III 50th Dummy



Outer Size (mm)	
Sitting Height	878 - 889
Shoulder Pivot Height	505 - 521
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Knee Pivot Height	485 - 501
Shoulder Width	421 - 437
Head Back to Backline	40 - 46
Popliteal Height	429 - 455

Weight (kg)	
Head	4.536±0.045
Neck	1.542±0.045
Upper Torso	17.191±0.136
Lower Torso	23.042±0.136
Upper Arm (each)	1.996±0.090
Lower Arm and Hand (each)	2.268±0.090
Thigh (each)	5.987±0.090
Lower Leg and Foot	5.443±0.136
Total Weight	77.700±1.180

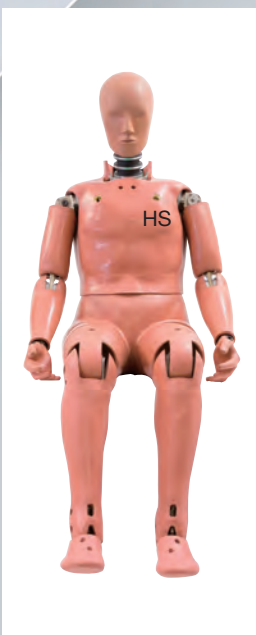
FAA H-III 95th Dummy



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Sitting Height	927 - 942
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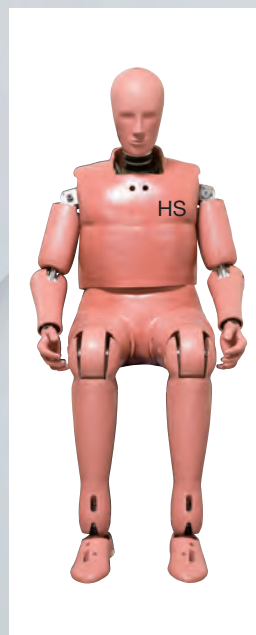
FAA H-III 50th HS Dummy



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Sitting Height	878 - 889
Shoulder Pivot Height	505 - 521
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Knee Pivot Height	485 - 501
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Lower Leg and Foot	5.443±0.136
Total Weight	77.700±1.180

FAA H-III 95th HS Dummy



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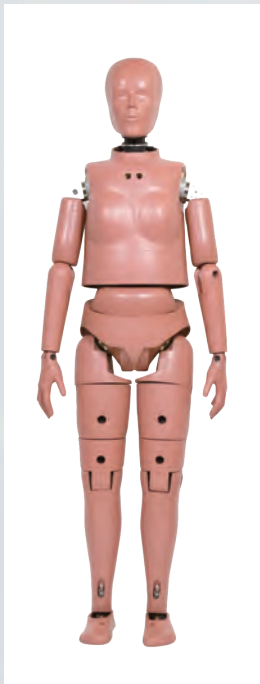
Advanced Models of Dummies

Pedestrian Dummy

Dummies for Pedestrian Protection Performance Test

Pedestrian dummies are standing posture dummies which are modified versions of Hybrid-III 5F, 50M, and 95LM dummies, created by replacing some parts in the Pelvis, Lumbar Spine, and Knee Slider.

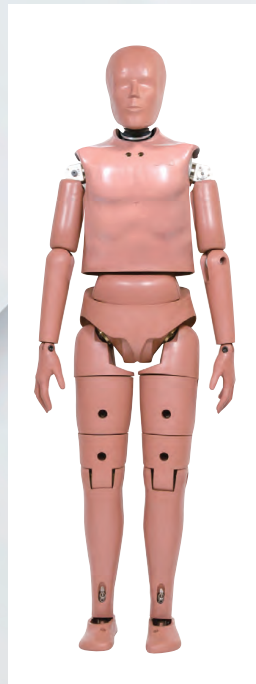
Hybrid-III 5th Percentile Female Pedestrian Dummy



Outer Size (mm)	
Sitting Height	774 - 800
Shoulder Pivot Height	431 - 457
Buttock to Knee Length	520 - 546
Knee Pivot Height	393 - 419
Shoulder Width	350 - 366
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Popliteal Height	355 - 376

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Neck	0.910±0.09
Upper Torso	12.020±0.14
Lower Torso	13.250±0.14
Upper Arm (each)	1.180±0.05
Lower Arm (each)	0.900±0.05
Hand (each)	0.280±0.05
Thigh (each)	3.130±0.09
Lower Leg	3.270±0.05
Foot	0.790±0.05
Total Weight	49.050±0.91

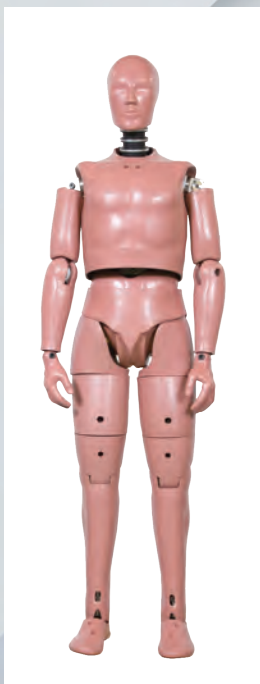
Hybrid-III 5th Male Pedestrian Dummy



Outer Size (mm)	
Sitting Height	774 - 800
Shoulder Pivot Height	431 - 457
Buttock to Knee Length	520 - 546
Knee Pivot Height	393 - 419
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Thigh (each)	3.130±0.09
Lower Leg	3.270±0.05
Foot	0.790±0.05
Total Weight	49.050±0.91

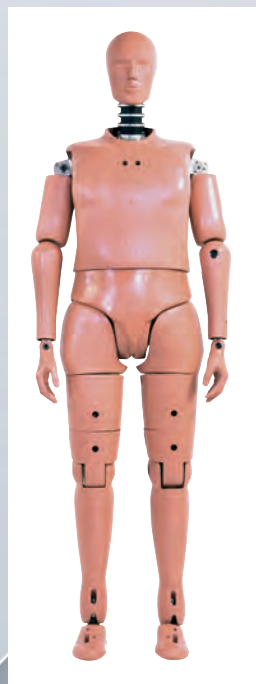
Hybrid-III 50th Male Pedestrian Dummy



Outer Size (mm)	
Sitting Height	878 - 889
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Buttock to Knee Length	579 - 605
Knee Pivot Height	485 - 501
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Upper Arm (each)	1.996±0.090
Lower Arm and Hand (each)	2.268±0.090
Thigh (each)	5.987±0.090
Lower Leg and Foot	5.443±0.136
Total Weight	77.700±1.180

Hybrid-III 95th Percentile Large Male Pedestrian Dummy



Outer Size (mm)	
Sitting Height	927 - 942
Shoulder Pivot Height	541 - 556
Buttock to Knee Length	624 - 650
Knee Pivot Height	521 - 546
Shoulder Width	467 - 483
Head Back to Backline	86 - 91
Popliteal Height	457 - 483

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Head	4.94±0.05
Neck	1.68±0.05
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Lower Torso	30.30±0.36
Upper Arm (each)	2.81±0.05
Lower Arm and Hand (each)	2.64±0.05
Thigh (each)	8.21±0.09
Lower Leg and Foot	7.34±0.09
Total Weight	101.24±1.63

Lightweight Dummy

Light weight Hybrid-III 5th Percentile Female Dummy (20 kg)

Light weight Hybrid-III 95th Percentile Male Dummy (30 kg)

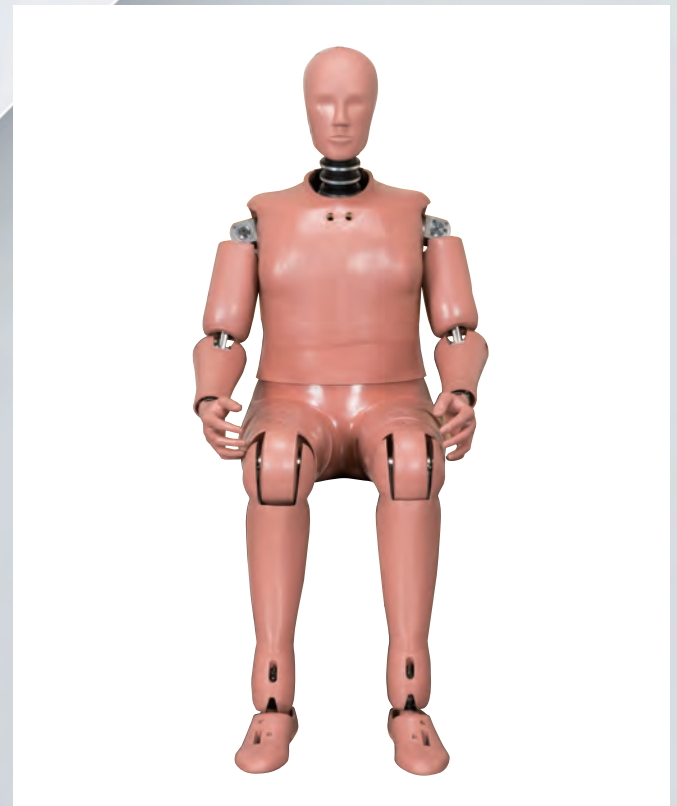
[Application]

This dummy is lightweight, easy-to-handle, and suitable for in-vehicle comfort studies and the like. The range of motion of each part is the same as that of an anthropomorphic test dummy.

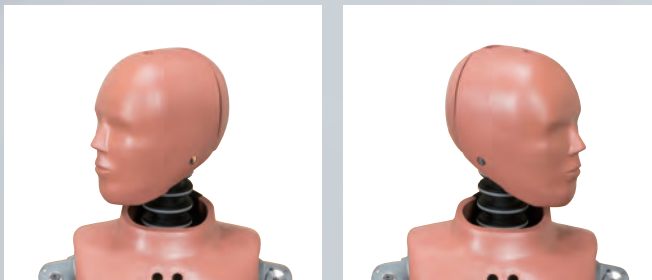
Light weight Hybrid-III
5th Percentile Female Dummy (20 kg)



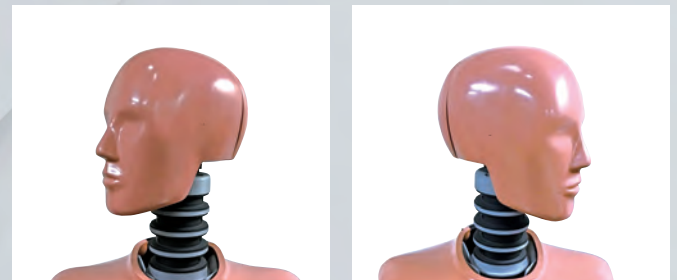
Light weight Hybrid-III
95th Percentile Male Dummy (30 kg)



■ Total weight : 20 kg



■ Total weight : 30 kg



The head can be moved 60° to the left and right.

The pedestrian headform impactors are dummies replicating heads of human bodies used for "pedestrian protection performance tests" required by car assessment programs such as NCAP in each country. They were developed by JASTI in cooperation with JARI and JAMA, and became the new pedestrian protection safety standard, and were later approved by ISO. They are ejected to make a collision mainly with the hood or the windshield of a car to measure the impact value in G and HIC (Head Injury Criteria). That enables measuring a head injury value in a pedestrian accident. They are also used for safety evaluations of playground equipment including mats in places such as playgrounds, and in other automotive safety evaluations.

ISO Type

*EC type products which are in compliance with European laws and regulations are also available.

ISO (EC) Adult 4.5 kg



4.5 kg Comp Adult
ISO-A-CS



4.5 kg Adult Skull BIA Type
ISO-A-C-BIA



4.5 kg Skin
ISO-A-S



4.5 kg Skull
ISO-A-C



4.5 kg, 3.5 kg Skin
ISO-AC-S
(Adult Child common)

ISO (EC) Child 3.5 kg



3.5 kg Child Comp
ISO-C-CS



3.5 kg Child Skull BIA Type
ISO-C-C-BIA



3.5 kg Child Skin
ISO-C-S



3.5 kg Child Skull
ISO-C-C

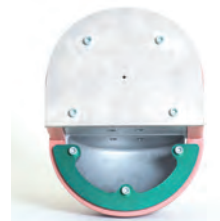
FMVSS201

Free Motion Headform Impactor



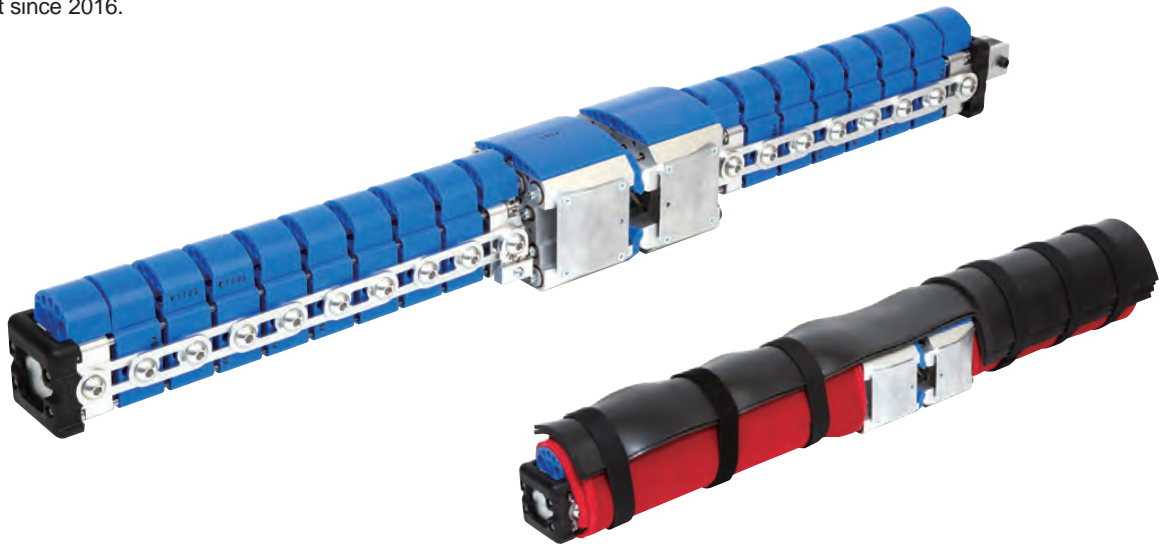
FMVSS226

Mitigation Headform Impactor



Flex PLI - GTR

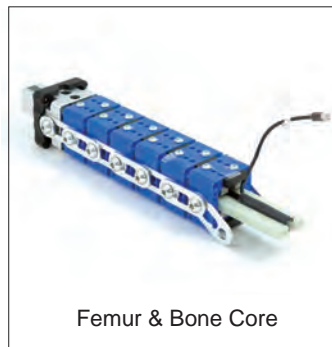
This product was developed with the aim of enabling accurate assessment of lower-limb injuries through biomechanically accurate design, based on the observation that lower-limb injuries tend to be more severe in collisions between pedestrians and vehicles. Following the completion of evaluations both domestically and internationally, we have been manufacturing and selling this product since 2016.



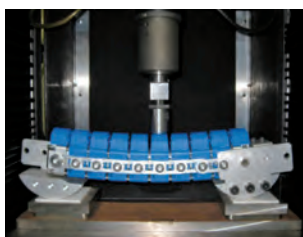
Flex PLI-GTR

The knee joint area is composed of a machined aluminum knee block bonded at the top and bottom by 12 spring wires, and the amount of elongation displacement of the knee joint is measured by four displacement gauges. To facilitate the collection of femur and tibia bending moment data and knee displacement data, data collection functionality is installed inside the knee area.

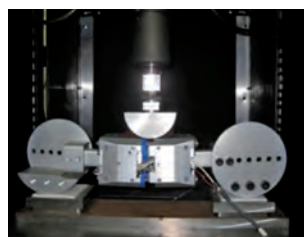
Outer Size (without flesh) (mm)	
Leg Length	982.0
Femur Length to Knee Joint	433.0
Tibia Length to Knee Joint	495.0
Knee Width	118.0
Leg Width	84.0
Knee Depth	108.0
Leg Depth	90.0
Femur Length from Top of Knee Assembly	339.0
Tibia Length from Bottom of Knee Assembly	404.0



Calibration Test on Flex PLI-GTR ————— The calibration test is conducted as indicated below. We also handle Static JIG.



Tibia



Knee



Femur



Pendulum

H-III 50th Ankle Bumper For Non Metal Contact (J2949)

A conventional ankle bumper is attached to an ankle lower shell, but the contact between metal parts of the ball ankle shaft and the lower shell caused noises. To prevent the noise, we offer an ankle bumper integrated with an ankle lower shell. This integrated ankle bumper is the standard specification in Insurance Institute for Highway Safety (IIHS) in the United States.



H-III 50M/5F/95LM Lower Leg Flesh



Zipper Type

Velcro Type

Skin damage test



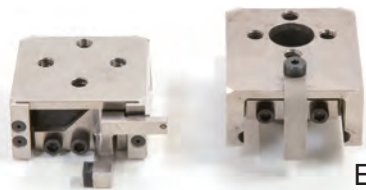
Evaluation equipment A (for adults)



Evaluation equipment A (for children)

For testing if skin gets torn when any body part gets caught

Ball Bearing Knee Slider



Euro NCAP

According to the standard specifications of Hybrid-III 50th Male Dummy and 5th Female Dummy, a friction knee slider is installed in both of them, however, with the newly developed ball bearing knee sliders are also available for the 50th and 5th Hybrid III dummies.

Other Products

Chairs for safekeeping with casters and adjusters

H-III 50M dummy



H-III 5F dummy





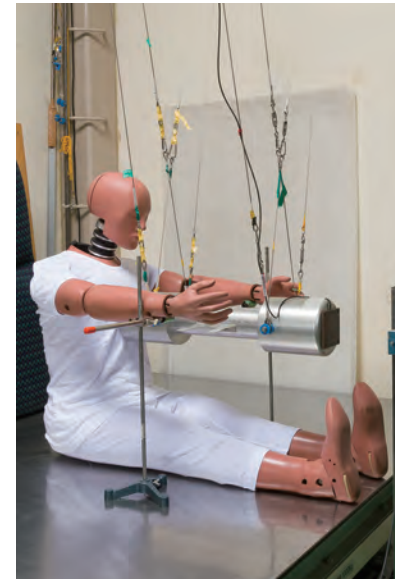
Head Drop Test System

- Test objects
Head Frontal drop test: Hybrid-III 5F/50th/95th,
WorldSID 50th, THOR 50th
Side drop test: ES-2, ES-2re, SID-IIs



Neck Flex/ Extension Test System

- Test objects
Hybrid-III 5F/50th /95 th, ES-2,
WorldSID 50th, THOR 50th



Thorax Impact Test System

- Front impact test dummy
Side impact test dummy



Knee Impact / Share Test



Hip Joint Test System

- Test objects
Hybrid-III 5F/50th

You can see a movie of the test from the QR code on the right.



Torso Flexion Test

- Test objects
Hybrid-III 3YO, 5F/50th/95th

You can see a movie of the test from the QR code on the right.





Rib Drop Test Equipment

- Test objects
ES-2, ES-2re



Foot Impact Test

- ECE R94



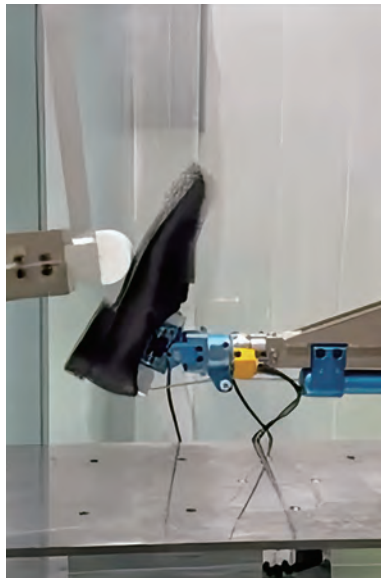
Foot Compression Test

- CFR PART572
Subpart E



**THOR 50th
Thorax Impact Test
System**

- Test objects
THOR 50th



**THOR 50th
Leg Impact Test System**

- Test objects
THOR 50th

Sensor

- H-III 50M·5F·95LM Dummy
Chest Rotary Potentiometer



- Knee Potentiometer & String



We offer a wide range of solutions, from various sensors to calibration equipment. Please feel free to contact us for more information.

Remarkable Features of JASTI's Dummy Products

Safety of Mold Products

Since the company started manufacturing, JASTI has used DINA and DINP instead of DOP as plasticizers for molded products, which provide a high degree of safety, however, according to requirements for environmental assessment in Europe (RoHS 2), the cancer-causing property of these plasticizers was concerning because they contain phthalic acid. We switched to a new phthalic acid free plasticizer in 2015. That makes JASTI's PVC products much safer.



Damping Material

JASTI developed a new damping material which has a performance that is equal to conventional products. The combination of steel ribs and this new damping material enables issuing a Low/High Speed Impact Certification for displacement of a thorax.



Rib unit test

Features of Rubber Products

Dummies require a high degree of biofidelity and are made up of many kinds of rubber materials to use their properties of flexion, extension, etc.

JASTI offers parts with different hardness for Lumbar Spine, Nodding Block, and Knee Flesh Insert, based on information on drawings. In a calibration test of a dummy, adjustment and calibration are possible by combining these parts with different hardness. You are welcome to try and please feel free to contact us.

Different Hardness Types of Rubber Products

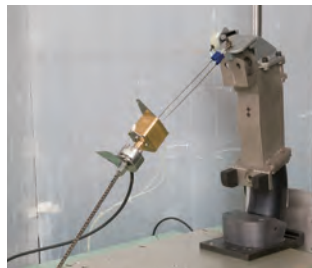
Lumbar Spine

Lumbar Spine is based on rubber materials, has a role of the lumbar spine of a human body, and absorbs an impact on the thorax by deforming.

Performance requirements of the Lumbar Spine include not only surface hardness, but also repeatability, reproducibility, and durability. Specially, a surface hardness test is required for Hybrid-III 50th Male, and a torso flexion test is required for 5th Female, and Chest Jacket, Rib Assembly, and Lumbar Spine, which are basic components of the dummies, largely relate to the displacement of the thorax and limit its properties. Therefore, the precision of each component is obviously important and improving the precision and reliability of each component secures the reliability of a dummy. For this reason, we always conduct various unique tests in the pursuit of reliability, durability, and reproducibility.



●Reliable Lumbar Spine



●Test on Lumbar Spine



●Debond test

Fine adjustment in a neck flexion/extension test



● Nodding Blocks with different hardness for fine adjustment in a neck flexion/extension test



Fine adjustment in a knee impact test

The legal drawing requires a hardness of 40 to 50 (Shore A), and JASTI offers a Knee Flesh Insert with a hardness of 45, which is the intermediate value, as the standard product. If a required impact force cannot be obtained in a performance test, replace the Knee Flesh Insert with another one with different hardness for adjustment. JASTI offers 3 different types of Knee Flesh Insert: Low, Middle, and High. When a required value cannot be met in a knee impact test, we recommend to use another type of Knee Flesh Insert which differs in hardness.



Low

Middle

High



Japan Automotive Safety Testing Innovations
Jasti Co., Ltd.



For any inquiries,
please scan QR code.



Head Office

2-4-3 Miyoshi, Koto-ku, Tokyo 135-0022, Japan
TEL: +81-(0)3-5245-3661 / FAX: +81-(0)3-5245-8596

Technical Center

6-29 Ashitaka, Numazu, Shizuoka 410-0001, Japan
TEL: +81-(0)55-955-8620 / FAX: +81-(0)55-955-8623



JASTI CO., LTD.
You can make it with JASTI
JASTI will cooperate with your every
demand for the human safety.