



EuroSID-2 (ES-2)

(Model 455-0000)



The EUROSID-2 is a Side Impact test device designed to the specifications stated in EURO NCAP. The EUROSID-2 was developed to evaluate occupant protection during lateral impacts.

The EUROSID-2 represents a 50th percentile adult male without lower arms. The head is modified from the Hybrid III 50th percentile dummy and the legs are modified from the Hybrid II 50th. The shoulder has low-friction sliding clavicles that carry the half arm. The thorax consists of three identical rib modules which can be assembled onto the spine box for either left or right side impacts. The rib modules consist of a spring and damper design. The abdomen is constructed of a polyurethane foam that incorporates curved, weighted rubber slabs. The shape of the pelvis assembly is representative of the human pelvis at points impacted in a side impact, and at points where the car seat and the belt interact with the pelvis. The removable iliac wings are constructed of special polyurethane plastic. A straight rubber lumbar is used. A Neoprene® suit covers the thorax, upper arms and lower pelvic region.

The EUROSID-2 is tested to the prevailing E.C.E. corridors specified for this device.

The calibration tests performed prior to shipment include:

- Head Drop (lateral)
- Neck Pendulum (lateral)
- Shoulder Impact
- Abdominal Impact
- Lumbar Pendulum
- Pelvis Impact
- Rib Module Assembly Drop Tower Test

Standard equipment included in the base price of this device:

- Chest Deflection Potentiometers
- Accelerometer mounts for head, T1, T12 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	8.8	4.0
Neck	2.2	1.0
Thorax	49.4	22.4
Arm	2.87	1.3
Abdomen	11.0	5.0
Pelvis	26.5	12.0
Leg	28.0	12.7
Total Weight	158.7	72.0

DIMENSIONS:	Inches	Centimeters
Seat to Shoulder Joint	22.25	56.5
Seat to H-Point	3.94	10.0
Buttock Knee Length	23.86	60.6
Shoulder / Arm Width	18.51	47.0
Pelvis Width	14.41	36.6
Sole to Seat, Sitting	17.41	44.2
Seated Height	35.79	90.9

Denton ATD, Inc. 10317 U.S. Highway 250 North, Milan, Ohio 44846-9570
 Tel (419) 625-5200 * Fax (419) 625-5335 * email: info@dentonatd.com * www.dentonatd.com

Creating the New Standard in ATDs

Revision: 06/19/06