



EuroSID-2re (Rib Extension)

Model 175-0000



EuroSID-2 with Rib Extensions (ES-2re)

The EuroSID-2re is a modified version of the EuroSID-2 dummy with Rib Extensions (re). The EuroSID-2re is proposed to replace the SID-H3 in FMVSS 201 testing and the SID in FMVSS 214 testing. On December 14, 2006, the Department of Transportation issued a Final Rule to add the EuroSID-2re to Part 572, Subpart U.

Modifications to the EuroSID-2 include the following:

Rib and Rib Extensions

The geometry of the bent steel in the ribs of the EuroSID-2 was uniform from one side to the other. The rib of the EuroSID-2re has been modified on one side to accept the assembly of the rib extensions. The rib extensions attach to the modified side of the rib and “extend” around to the back of the dummy. The rear edge of the Rib Extension floats freely on rollers contained between the back plate cover and the rib extension back plate.

Back Plate Assembly

The back plate assembly consists of the back plate cover, metal rollers, and nylon washers that assemble to the back plate. This assembles onto the back side of the spine box and provides rolling surface and protection for the free end of the rib extension.

Rib Extension Back Plate

The rib extension back plate mounts to the back plate cover and provides a slot for the free end of the rib to move without any exterior dummy contact.

| 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 |

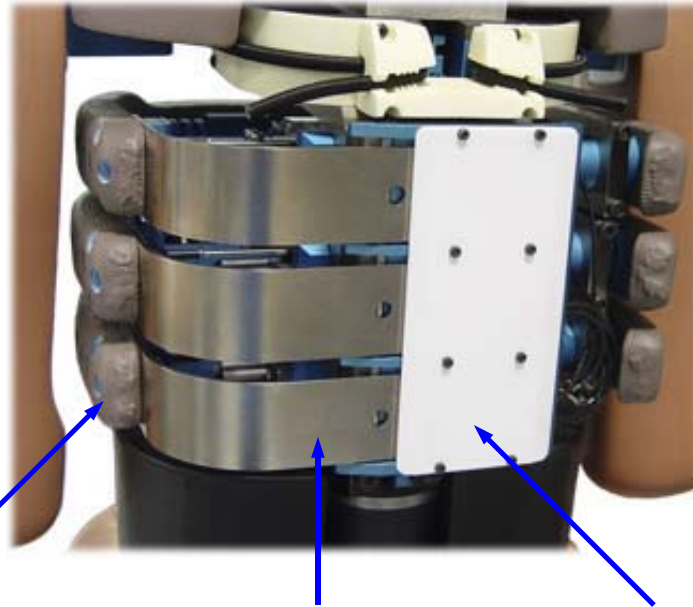
| DIMENSIONS: | Inches | Centimeters |
|------------------------|---------------|--------------------|
| Seat to Shoulder Joint | 22.25 | 56.5 |
| Seat to H-Point | 3.94 | 10.0 |
| Buttock Knee Length | 23.86 | 60.6 |
| Shoulder / Arm Width | 18.51 | 47.0 |
| Pelvis Width | 14.41 | 36.6 |
| Sole to Seat,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

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Modified rib to provide a mounting surface for the Rib Extensions

Rib Extension free end resting on rollers between the back plate cover and the rib extension back plate

Rib extension back plate providing protection to the free end of the Rib Extension

The calibration tests performed prior to the shipment of the ES-2re include:

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

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