SEATTLE SAFETY

Child Restraint System Side Impact Fixture

Enables testing to new NHTSA Child Restraint System (CRS) Side Impact regulation (2014 amendment of FMVSS 213)

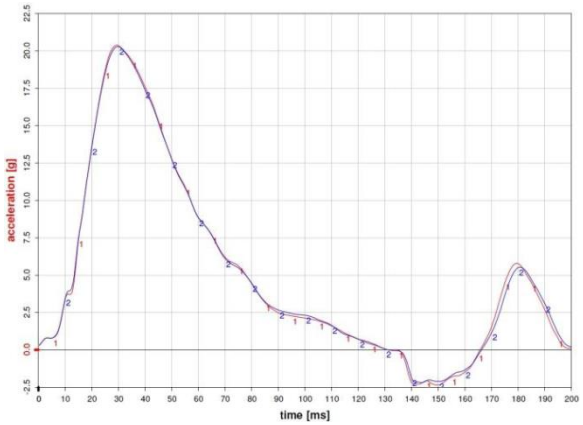
- Proven design already produced and in use with CRS manufacturers
- Easily attached to existing sled test systems
- Simple design allows for easy installation, use, and tear down

Technical Description

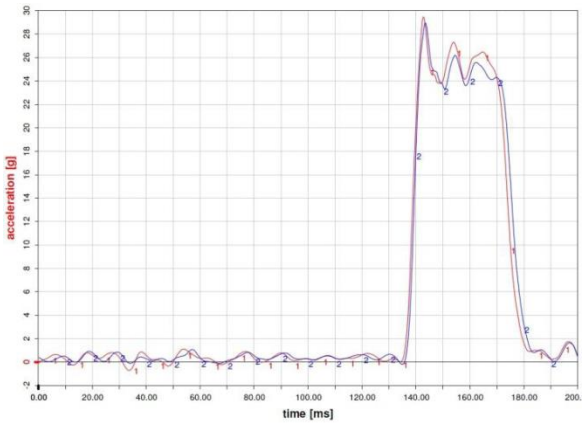
The CRS Side Impact Fixture is mounted to the primary sled, which controls the velocity of the impact frame. The CRS is mounted to the secondary sled.

The primary sled is accelerated to the target velocity causing the impact frame to strike the CRS. A representative primary sled pulse and resulting secondary sled pulse are shown below [1]. The pulse characteristics can be tuned by the selection of honeycomb and the mass of the secondary sled.

Primary Sled



Secondary Sled



1) Reference Brelin-Fornari, J, Janca, S (2014). *Pulse Sensitivity of a Child Restraint System, Near-Side Impact Fixtures. SAE Paper No. 2014-01-0538.*

Product Specifications	
Overall Fixture Dimensions (W x L)	1.2 m x 2.4 m
Overall Fixture Weight	625 kg
Secondary Sled Dimensions (W x L)	750 mm x 800 mm
Secondary Sled Weight	115 kg
Mounting Hole Pattern	Configurable

Seattle Safety – Europe
August-Exter-Straße 37
81245 München
Germany

+49 (0) 172-1492610
info@seattlesafety.com

Seattle Safety – Headquarters
4502 B Street NW #1
Auburn, WA 98001
USA

+1 (253) 395-4321
info@seattlesafety.com

www.seattlesafety.com

Any performance data herein is operating-condition dependent.