

WORLDSID-50M EURO NCAP DUAL OCCUPANCY



Service Bulletin

July 2019

Humanetics is committed to continuously develop new products while enhancing existing products with new features and functionalities based on customer feedback. These new features and improvements increase productivity, ease-of-use and ensure that your investment in technology and equipment is maximized. To support this mission, we would like to inform you of the new 2020 Euro NCAP updates to the side assessment protocols using multiple WorldSID-50M ATDs as well as our commitment to support our customers with new purchase and rental options.

Updated Euro NCAP Protocols with Dual WorldSID Occupancy Testing

FAR-SIDE ASSESSMENT, AE-MDB & OBLIQUE POLE SIDE IMPACTS

In the latest update to the Euro NCAP Far Side Occupant & Assessment Procedure (Version 2.0, June 2019), occupant-to-occupant protection is evaluated to demonstrate countermeasures for head protection in occupant interaction. The protocol states where a vehicle is equipped with occupant interaction countermeasure protections, the effectiveness of these countermeasures will be demonstrated using two mid-sized WorldSID dummies in the official Euro NCAP pole impact test. In the interim years of 2020 and 2021, the performance of these occupant-to-occupant countermeasures may be confirmed in an AE-MDB (Advanced European Mobile Deformable Barrier) test (Side Impact Mobile Deformable Barrier Testing Protocol Version 8.1, June 2019) in place of the official Oblique Pole Side Impact test (Version 7.1, June 2019).

During years 2020 and 2021, the head performance of both driver and passenger WorldSID dummies will be solely evaluated using HIC (with direct contact) and 3ms resultant acceleration performance limits. Upper neck and shoulder forces must still be reported during this interim. From 2022 onwards, performance will be evaluated using all the performance limits of the head, upper neck, lower neck, chest, abdomen, and pelvis.

WorldSID-50M Availability

WORLDSID-50M RENTAL PROGRAM

To support our customers during the transition to dual occupancy WorldSID testing under Euro NCAP, Humanetics is making rental ATDs with on-board DAS available to customers needing the extra

dummy. The rental WorldSID dummies shall include at a minimum the instrumentation in Table 1, specified by Euro NCAP for the passenger dummy in dual WorldSID occupancy testing.

NEW WORLDSID-50M DUMMIES FOR SALE

With a consideration for customers wishing to increase their WorldSID dummy fleet, Humanetics is also increasing WorldSID production capacity and making available new dummies for immediate sale in late 2019.

Location	Parameter	Minimum amplitude	Channel count
Head	Linear acceleration, Ax, Ay, Az	250g	3
Upper neck	Forces and moments Fx, Fy, Fz, Mx, My, Mz	5kN, 300Nm	6
Shoulder-Joint	Forces, Fx, Fy, Fz	8kN	3
Spine -T12	Acceleration, Ax, Ay, Az	200g	3
Pelvis	Acceleration, Ax, Ay, Az	200g	3
Pelvis - Pubic	Force	5kN	1
	Total Channels		19

Table 1 - Minimum Euro NCAP instrumentation

For further information please review the new Euro NCAP protocol updates at <https://www.euroncap.com/en/for-engineers/whats-new/> or contact your Humanetics account manager or customer service representative.

Rev 1, July, 2019