

Press release

New milestone for side-impact crash testing and global vehicle safety assessment

Euro NCAP approves the WorldSID-50M crash test dummy developed by Kistler and Cellbond

Heidelberg, March 2026

The Kistler Group and Cellbond announce that the jointly developed WorldSID-50M crash test dummy has been officially approved for use in Euro NCAP testing. Formal updates to the G002-2 protocol on the Euro NCAP website are expected in the coming weeks, while approval for use has already been granted.

This approval marks an important milestone for both organizations and reinforces their shared commitment to supporting the highest standards of vehicle safety testing and performance assessment across Europe and beyond.

Advanced crash test dummy (ATD) for side-impact safety evaluation

The WorldSID 50th percentile male (WorldSID-50M) crash test dummy is primarily used in side-impact crash testing to evaluate vehicle safety and occupant protection. With its high biofidelity and advanced instrumentation, the dummy enables precise measurement of loads and accelerations acting on the human body during a crash. This makes it suitable for regulatory testing, consumer safety programs, and research applications. Automotive manufacturers use the WorldSID-50M crash test dummy in the development and validation of side airbags, seat structures and restraint systems. The ATD also plays a key role in certification tests and is widely adopted in global safety programs.

High-precision measurement technology and flexible configuration

The WorldSID-50M crash test dummy features modular construction, detailed sensing capabilities and compatibility with digital data acquisition systems, allowing engineers to capture highly accurate measurement data during vehicle safety testing. The ATD is a critical tool in both compliance testing and innovative safety engineering and is configured in accordance with ISO 15830 and UN ECE R135 requirements for side-impact testing. It is available with integrated Digital Transducer Interface (DTI) technology of Kistler as well as additional configurations through Cellbond.

Key characteristics of the WorldSID 50th percentile male (WorldSID-50M) include:

- High biofidelity for realistic human injury simulation
- Advanced sensor integration for precise biomechanical measurements
- Compatibility with digital data acquisition systems
- Modular configuration for various test scenarios

Strengthening a long-standing engineering partnership in vehicle safety

Alexander Schmitt, Head of Business Unit Passive Safety at Kistler, said: “Achieving Euro NCAP approval for the WorldSID-50M is a key milestone and an important step for Kistler and Cellbond in supporting the most demanding safety assessment programs worldwide. This accomplishment reflects the strong partnership between our teams, built on shared engineering rigor and mutual trust. Kistler’s core strength lies in uniting state-of-the-art instrumentation with crash test dummy development, enabling highly accurate and repeatable measurement solutions. With our established competence in the design and manufacture of adult crash test dummies, we are pleased to support the continuous evolution of side-impact safety standards.”

Oliver Khabiri, ATD Business Unit Manager at Cellbond ATD, added: “We are delighted that Euro NCAP has approved the Cellbond/Kistler WorldSID-50M for use in its testing program. This approval reflects rigorous validation, engineering excellence, and close collaboration between our teams. We remain committed to providing high-quality ATDs that enable accurate, repeatable and robust safety assessments in line with evolving industry requirements.”

Image material (please name the Kistler Group as picture source)



The WorldSID-50M crash test dummy (ATD) jointly developed by Kistler and Cellbond has been officially approved for use in testing by Euro NCAP. Its high biofidelity and advanced instrumentation make it suitable for regulatory testing, consumer safety programs, and research applications.

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About the Kistler ATD GmbH

Kistler is one of the world's leading system providers and supplies specific measurement equipment for automotive safety and crash tests. Our range includes high-precision sensors, reliable data acquisition systems, crash test dummies (ATD), comprehensive application software for complex measurements in the automotive sector and customized services.

About Cellbond

Cellbond is a leading global manufacturer of Anthropomorphic Test Devices (ATDs) and crash test barriers. With decades of experience in automotive safety engineering, Cellbond supplies innovative, high-quality products and technical expertise to vehicle manufacturers, test laboratories, and regulatory bodies worldwide.