

KingPo IEC 60601-2-52 Medical Bed Load and Impact Test System Supports Mechanical Safety Testing

KingPo KP-6061C helps laboratories evaluate medical bed dynamic loading, mattress platform impact, body-weight simulation and stability-related loading.

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/EINPresswire.com/ -- HONG KONG, June 25, 2026 — KingPo Technology Development Limited is highlighting its KP-6061C [Medical Bed Load and Impact Test System](#) to support laboratories, medical bed manufacturers and quality control teams performing IEC 60601-2-52 related mechanical safety testing for medical beds, hospital beds, nursing beds and rehabilitation beds.

Medical beds are used in hospitals, nursing homes, rehabilitation centers and long-term care

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KingPo Technical Team

environments. During daily use, a medical bed may be raised, lowered, moved, locked, loaded, adjusted and cleaned repeatedly by patients, nurses and caregivers. Because these products are closely related to patient safety and caregiver operation, medical bed evaluation should not rely only on visual inspection or a simple static load check. The KP-6061C Medical Bed Load and Impact Test System is designed to help users evaluate mechanical strength, durability and stability-related performance under controlled laboratory conditions. The system supports selected test applications related to IEC 60601-2-52, YY 9706.252-2021 and GB 9706.1-2020, including dynamic loading, mattress support platform impact, body-weight load simulation and



Complete medical bed testing equipment solution including loading pad, wedge tool, impactor, 30 mm diameter test tool and side rail strength reliability tester.

pressure loading tests.

“Medical bed testing is not only about whether the bed can hold weight once,” said KingPo Technical Team.

“Laboratories need to evaluate repeated loading, platform impact, structural response and stability-related behavior so that manufacturers can better understand how the bed performs under realistic use conditions.”

One important application of the KP-6061C is dynamic loading from persons. In real clinical use, the mattress support platform is repeatedly loaded by patients with different body weights, movements and positions. Dynamic loading tests help laboratories review whether the bed structure, support platform and related components can maintain mechanical integrity during repeated loading conditions.

The system also supports mattress support platform impact testing. Impact loading is important because a medical bed may experience sudden loading when a patient sits, lies down, changes position or is transferred by caregivers. Controlled impact testing helps evaluate the bed platform’s resistance to deformation, loosening or structural damage. Body-weight load simulation is another key function. Instead of relying only on theoretical calculations, laboratories can use controlled loading conditions to simulate the mechanical effect of patient weight on the medical bed. This helps manufacturers and testing teams review whether the product design provides sufficient mechanical strength and durability for its intended use environment.

The KP-6061C can also support stability-related pressure loading tests. Stability is an important safety consideration for medical beds, especially when the bed is adjusted, moved, loaded unevenly or used with accessories. By applying defined loading conditions, laboratories can evaluate whether the bed remains mechanically stable under selected test scenarios.

The system is suitable for medical bed manufacturers, third-party testing laboratories, certification-oriented quality departments, hospital equipment suppliers and research and development teams. Typical applications include product development verification, pre-



Close-up view of the medical bed side rail reliability test system, showing the actuator mechanism, control unit and bed interface used for repeated mechanical testing.



KingPo medical bed testing equipment solution for durability, safety, functional and reliability testing of medical beds in laboratory and certification environments.

compliance evaluation, production quality control, incoming inspection, design comparison and documentation support for medical bed safety testing projects.

Before selecting a medical bed test system, KingPo recommends that users confirm the target standard version, bed type, maximum sample size, required test modules, loading force range, impact height, fixture configuration, reporting requirements and laboratory space conditions. These details help ensure that the selected equipment configuration matches the actual test plan.

IEC 60601-2-52 remains a widely used engineering and search term for medical bed safety testing. However, new medical bed projects should also confirm whether updated or related standards apply, depending on the intended bed type, user group and target market. KingPo can support customers in reviewing the required test equipment package according to their specific project scope.

For laboratories that need a standard-oriented overview before equipment selection, KingPo provides a dedicated [IEC 60601-2-52 medical bed test equipment](#) resource at:

<https://www.dgkingpo.com/Standards/iec-60601-2-52-medical-bed-test-equipment/>

For engineers comparing test items, fixture requirements and related medical bed testing equipment, KingPo also provides a practical application guide at:

<https://www.dgkingpo.com/iec-60601-2-52-medical-bed-testing-equipment-guide/>

In many cases, a complete medical bed mechanical safety test program may require more than one machine. Dynamic loading, platform impact, side rail strength, latch reliability, rough handling, footboard force application and entrapment evaluation may involve different test systems, tools and fixtures. KingPo provides medical bed testing equipment solutions that can be configured according to the required clauses, sample structure and laboratory workflow. The KP-6061C is part of KingPo's broader medical device testing equipment portfolio. Through DGKingPo.com, KingPo continues to publish product information, technical guides and application resources for laboratories and manufacturers working with IEC, ISO, UL, EN, GB and YY related testing requirements.

For more information about the Medical Bed Load and Impact Test System, visit:

<https://www.dgkingpo.com/product/medical-bed-load-and-impact-test-system/>

For medical bed testing equipment configuration support,

visit: <https://www.dgkingpo.com/contact-us/>

About KingPo Technology Development Limited

KingPo Technology Development Limited is a manufacturer of standards-based testing equipment for product safety, environmental reliability, electrical safety, medical device testing, battery testing and laboratory compliance applications. Through DGKingPo.com, KingPo provides test equipment solutions related to IEC, ISO, UL, EN, GB and YY standards, including medical test equipment, environmental test chambers, IP waterproof and dust test systems, electrical safety testers, flame test equipment, standard gauges, test probes and customized laboratory testing systems.

Media Contact

KingPo Technology Development Limited

Website: www.dgkingpo.com

Email: sales@kingpo.hk

Bruce
Kingpo Technology Development Limited
137 1222 5112

[email us here](#)

Visit us on social media:

[LinkedIn](#)

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