

BFH SERIES

BAM FALL HAMMER SERIES

The BAM Fall Hammer (also known as BAM Impact Tester or BAM Drop Hammer) is designed to determine the sensitivity of explosive materials to the impact stimuli by a falling drop weight in accordance with the BAM procedure.



OZM Research manufactures four types of standard BAM Fall Hammers for measuring impact sensitivity of solid or liquid energetic materials (primary and secondary high explosives, propellants, pyrotechnics) and also other substances potentially sensitive to impact stimuli in the range of impact energies between 0.25 J and 100 J. Sensitivity of the most sensitive substances such as primary explosives or highly sensitive pyrotechnics can be measured in the range of impact energies from 0.025 J to 20 J on a specially developed BAM Fall Hammer BFH PEx.

APPLICATIONS

The sensitivity to impact stimuli is one of the most important characteristics of energetic materials defining their safety in handling, processing or transportation. Its determination is a necessary part of characterization of new explosives, modified formulations or manufacturing conditions. It is also used for defining influences of impurities or ageing, in the quality control of manufactured explosives, in surveillance of in-service explosives and in transport/storage classification of explosive materials.

ADVANTAGES & FEATURES

- ▶ Unique Drop Weight Exchange Window for safer, quicker and more convenient exchange of drop weights (BFH 12A and BFH 12 only)
- ▶ Automated Lifting Mechanism remotely executes positioning, drop and collection of Drop Weight (BFH 12A only)
- ▶ Wide range of impact energies from 0.25 J to 100 J (six drop weights from 0.25 kg to 10 kg)
- ▶ Drop weights are equipped with brass grooves to lower sliding friction
- ▶ High corrosion resistance of the critical parts
- ▶ Protective housing as a standard accessory
- ▶ Wide range of accessories



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COMPLIANCE

OZM Research manufactures several modifications of this instrument in order to better fit different classes of explosive materials and different standards of testing, such as:

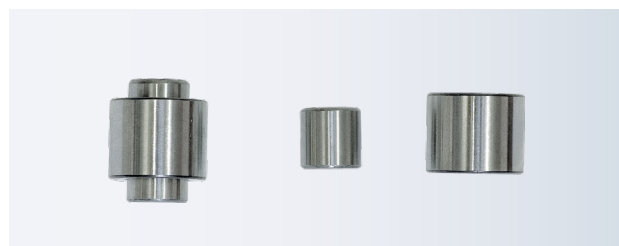
- UN Recommendation on the Transport of Dangerous Goods, Manual of Tests and Criteria – [Test 3(a)(ii)]
- EN 13631-4:2002
- Council Regulation (EC) No 440/2008; A.14
- GB/T 21567-2008
- STANAG 4489
- MIL-STD-1751A, Method 1015
- EMTAP, Manual of Tests, Test No 43
- GOST 4545-88 (BFH 12R only)



Drop Weight Exchange Window



Set of Drop Weights



Steel cylinders and guide rings

BFH 10

BAM FALL HAMMER

The **BFH 10™** is a standard BAM Fall Hammer for the customers who are looking for economic but still high-quality solution. The **BFH 10** fully complies with all relevant international standards listed above.

BFH 12

IMPROVED BAM FALL HAMMER

The **BFH 12™** is an improved version of standard BAM Fall Hammer. It is equipped with a unique Drop Weight Exchange Window for safer, quicker and more convenient exchanges of the drop weights.

BFH 12A

AUTOMATED BAM FALL HAMMER

The **BFH 12A™** is the high-end version of BAM Fall Hammer supplied by OZM Research. It has design features of the innovated **BFH 12** and furthermore it is equipped with automated remotely controlled lifting mechanism for positioning, drop and collection of the drop weight. The **BFH 12A** also introduces a unique Drop Weight Exchange Window for safer, quicker and more convenient exchanges of the drop weights.

BFH 12R

BAM FALL HAMMER GOST TYPE

The **BFH 12R™** is a modified version of the standard BAM Fall Hammer. Its design and functionality fully complies with the Russian standard GOST 4545-88. It is also equipped with a unique Drop Weight Exchange Window for safer, faster and more convenient exchanges of drop weights.



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