**MAIN FUNCTIONS**

Impact resistance is one of the most important properties to consider when designing a part or appliance. The impact pendulum test machine is used to determine the impact strength of a sample against a shock applied to it in accordance with ASTM and ISO standards. Impact pendulum test machines perform precise and repeatable impacts on a wide range of materials to determine the mechanical and physical characteristics of metals, polymers, composites, whether for R&D or quality control in production. Our machines carry out Charpy and Izod tests, which meet international standards.

**APPLICATIONS**

- **SHOCK SPECIMENS**: Standardized specimens for Charpy, Izod impact tests for all materials.
- **TUBES**: Measurement of the impact strength of specimens taken from tubes.
- **WATCHMAKING**: Test of the impact resistance of watches ("shock resistant" standard).

**ADVANTAGES**

- **HIGH-PRECISION SUPPORT**: High precision thanks to a monoblock specimen holder equipped with an automatic centering device.
- **QUICK RELEASE**: Less than 5 seconds between placement and breakage of the specimen.
- **SECURITY**: Total operator safety thanks to redundant security systems.
- **MOTORIZED ARM**: Motorized arm to ensure precise positioning and on-the-fly hooking after the test.

**OPERATING PROCEDURE**

The automatic specimen centering system ensures a simple and effective use of the impact pendulum. The specimens are impacted within 5 seconds following their removal from the temperature unit. The use is simplified thanks to the rapid change of the knife and specimens supports. The motorized impact pendulum is equipped with a pneumatic hammer release system. The hammer resetting process is motorized for a better ease of use. A protective casing protects the operators during the displacement of the hammer.

**TECHNICAL CHARACTERISTICS**

- **Impact pendulum Charpy, Izod impact tests**
- **Impact Pendulum**
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