



Class H – Servo-Motor Dual Column Charpy Impact Tester – 300J, 450J, 600J or 750J

Standards: [ISO 148](#), [EN 10045](#), [ASTM E23](#), [ASTM E1820](#), [ASTM E2298](#), [ASTM E74 \(Class AA\)](#)



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Description

The [Class H](#) Metals Impact Tester is a dual column impact testing system designed for Charpy Impact testing according to ASTM E23, ASTM E1820, ASTM E2298, ISO 148 and EN10045 industry standards. Class H is designed for high volume and especially hard materials. This unit has the highest accuracy and can be equipped with a force transducer for precise data sampling and complete measurement system. The Class H has a peak capacity of 750J (553 ft/lbs) with optional pendulums for 300J (221 ft/lbs), 450J (332 ft/lbs), 600J (442 ft/lbs) and 750J (553 ft/lbs). Class H comes standard as a fully enclosed system and allows for impact testing at any pre-set angle.

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Metals Impact Tester – Class H 750J – Dual Column Charpy Impact Tester

Impact Energy

300J (212 ft/lbs), 450J (332 ft/lbs), 600J (442 ft/lbs) or 750J (553 ft/lbs)

This system comes standard with an analog and digital readout for higher accuracy along with the option to add the ability to connect the system to a computer for use with our analysis software. Class H-4 is an instrumented type meaning there is a force transducer inside the striker which enables the determination of characteristic force, energy and displacement parameters such as pre-maximum force energy (W_m), the post maximum force energy, the general yield force (F_{gy}), the force at brittle fracture initiation (F_{bf}) and the arrest force (F_a). [Learn more about Pendulum Impact Testers and Testing.](#)



Main Features

- The heavy cast iron base is mechanically designed to avoid any vibrations having an effect on impact testing results.
- Dual column impact frame
- Standard touch screen display and optional connectivity to a PC for software analysis
- Motor-driven raising of the hammer with auto-return after completion of a test
- Electromagnet locks the pendulum securely
- Fully enclosed testing area for the highest safety while undergoing impact testing
- The pendulum height and weight are precisely designed to ensure high accuracy
- Simple and easy design to exchange the striking knife to meet ISO or ASTM standards
- Designed with a high precision bearing for the most accurate impact results
- Quality PLC controller for precision pendulum testing
- Optional computer with software control is available for a semi-automatic operation. The operator must only change the specimens while the rest is controlled by the PC.
- Optional instrumented version with force transducer within the pendulum for detailed software analysis - enables the user to determine the highest amount of data on their specimens

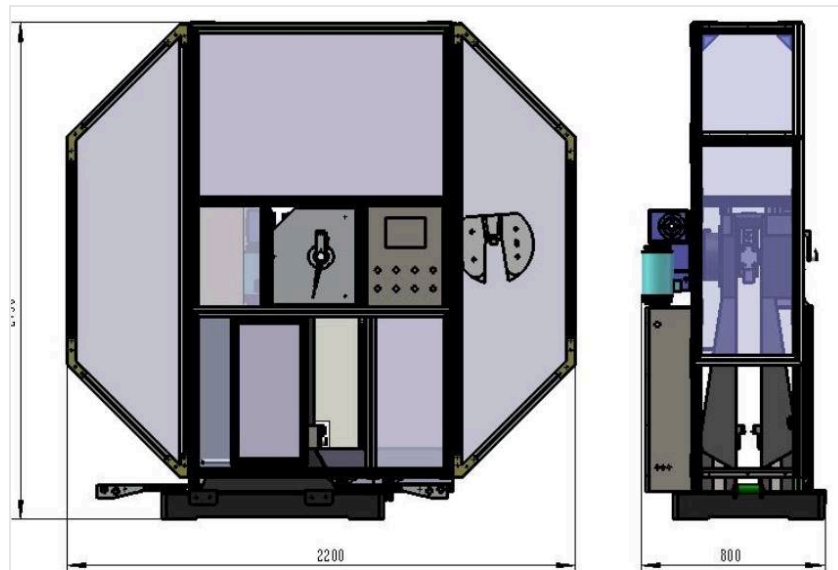


Technical Specifications

NG-Impact Class H	
Model	NG752 Class H and Class G
Maximum Impact Energy	750J (553 ft/lbs)
Optional Pendulum	300J (221 ft/lbs), 450J (332 ft/lbs), 600J (442 ft/lbs) and 750J (553 ft/lbs)
Angle Resolution	0.025°
Angle of Striking	30°-150° ±1° - Adjustable
Distance from Axis of Support to Center of Percussion	29.5" 750 mm
Velocity of Striker	5.24 m/s
Support Span	1.58" 40 mm
Radius of Curvature of Supports	1 mm
Angle of Taper of Supports	11° ± 1°
Radius of Striking Edge	2 mm (R2) and 8 mm (R8)
Angle of Striking Tip	30°
Thickness of Striking	0.63" 16 mm
Force Transducer	30kN, 50kN
A/D Sampling Resolution	16bits



NG-Impact Class H	
Maximum Sampling Frequency	1.25MHz
Frequency Band Width	500kHz
Specimen Dimensions	2.16x0.4x0.4", 2.16x0.4x0.3", 2.16x0.4x0.2" 55x10x10 mm, 55x10x7.5 mm, 55x10x5mm
Overall Dimensions	7.72 x 2.7 x 7.88" 196 x 68 x 200 cm
Weight	1765lbs 800 kg
Power	AC220V±10%, 50Hz, 100W





Configurations

Name	Description	Model		
Machine Frame	NG752 Class H	NG752 H-2	NG752 H-3	NG752 H-4
Framework	Frame	X	X	X
	Pendulum Lock/Release System	X	X	X
	Driving System	X	X	X
	Angle Measurement	X	X	X
	PLC	X	X	X
	Dial Gauge Display	X	X	X
	Touch Screen	X	X	X
	Full Protection Shield	X	X	X
Servo Motor		X	X	X
Software	Gentest		X	X
Accessories	Span Block Specimen Centering Block Centering Tongs Standard Tools Anchor Bolts Wedge Block	X	X	X
PC Connection	RS232		X	X
Instrumented Impact System	Force Transducer in Pendulum for quick plotting of the force-time graph Access to more testing parameters on Gentest software			X

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