

# Charpy Impact Testing Machine *a measurable difference...*

Model: CMT23 Series

**IDM**<sup>®</sup>  
instruments

## Applications:

The Charpy (simple-beam) Impact Testing Machine is mainly used to determine the anti-impact capability of ferrous metal materials with high toughness, especially for steel and iron materials and alloys, under dynamic load impacting. This machine can be operated semi-automatically. The pendulum of the machine can be raised or released automatically by a button press. They are essential testing instruments for quality testing in universities and colleges, research institutions, and for industrial and mining enterprises. The machine can do tests according to ASTM E23 and ISO 148 or other equal standards.



## Features:

- Two Pendulums (big and small) and two scale reading for each testing machine which increased the testing ranges of energy.
- A safety pin guarantees the impact action. The protection shell prevents any damage or debris to the user that comes from the impact testing.
- An electromagnetic clutch holds the raising pendulum. Power-off kill-switch for safety.
- Fully Computerised PCI sockets PCI DSP control card and I/O data processing. Test data, statistical functions are all stored, and printing functionality is available. Dial gauges and software output synchronous test results.

## Key Specifications:

Model	CMT2330	CMT2350	CMT2375
Impact Energy (J):	150J, 300J	250J, 500J	750J
Impact Velocity:	5.2 m/s	5.4 m/s	5.24 m/s
Raising Angle:	150°		
Striker Tip Angle:	30°		
Anvil Taper Angle:	11°		
Pendulum Pole Length:	750mm	800mm	750mm
Standard Sample Span:	40mm		
Round Angle Radius of Grips:	R1-1.5mm		
Round Angle Radius of Striking Edge:	R2-2.5mm as standard, R8mm (on request)		
Power Supply:	3 Phase, ~380/220V, 50/60Hz		