

## Metal Impact Testing



UV Notching

Notch Examining

Cold Condition

Impact Testing



CMT 2230



Digital controller screen

### Model Definition CMT 2 3 30

·CMT·

symbol	Test type
CMT	Metal Charpy
CIT	Nonmetal Charpy
ZIT	IZOD Impact
CZT	IZOD&Charpy
FIT	Falling Impact

·2·

symbol	Machine type
1	Vertical Falling
2	Pendulums

·3·

symbol	Display or control
1	Mechanical Indicate
2	Digital Control
3	Computer Control

·30·

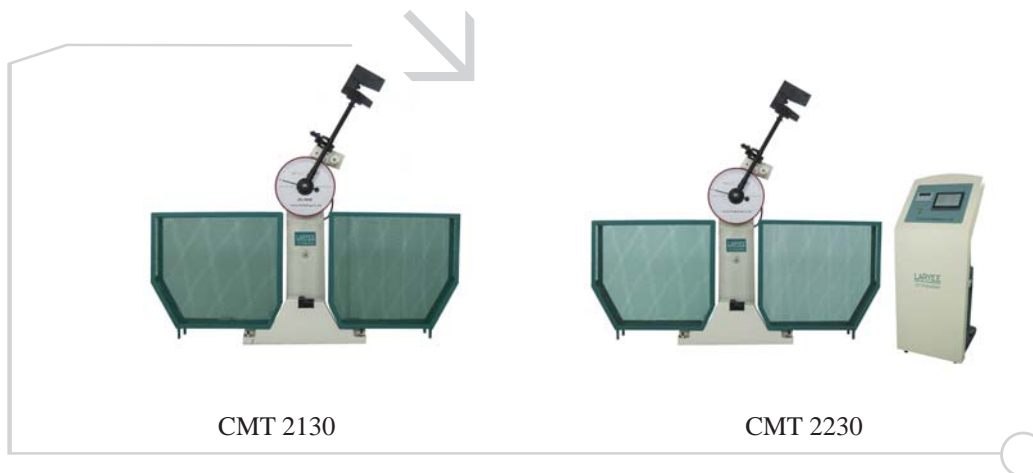
symbol	Energy Capacity
XX	10 × Numeber of Joule for Metal Charpy CMT
XX	Numeber of Joule for other test type

## Charpy Impact Testing machine

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 material and their alloy, under dynamic load impacting. This machine can be operated semi-automatically. The pendulum of the machine is raised or released automatically by button pressed. It is essential testing instrument for quality testing section, university and college, research institution and industrial and mining enterprises. The machine can do the test according to ASTM E23 and ISO 148 or other equal standards.

### Characters

- ※ Two Pendulums (big and small) and two scales reading which enlarge the test range of energy.
- ※ Safety pin guaranties the impact action. Protection shell avoids the hit and break sample splashing.
- ※ Electromagnetic clutch hold the rising pendulum. Power sudden off still in safety.



- ※ CMT21xx series Pendulum rising, impact, free releasing is realized as automatically by control remote.
- ※ CMT22xx series Pendulum rising, impact, free releasing is realized as automatically by control remote and touch LCD controller. Fully PLC control and I/O data processing. Test data store and printing function. Dial gauge and Digital out put synchronous test result.
- ※ CMT23xx Pendulum rising, impact, free releasing is realized as automatically by control remote and computer control software.

Fully Computer PCI sockets PCI DSP control card and I/O data processing.

Test data statistical function, store and printing function.

Dial gauge and software out put synchronous test result.



## Specification

Model	CMT2130	CMT2230	CMT2330	CMT2150	CMT2250	CMT2350	CMT2275	CMT2375
Impact energy	150J; 300J			250J;500J			750J	
Impact velocity	5.2m/s			5.4m/s			5.24m/s	
Raising angle	150°			150°			150°	
Striker tip angle	30°			30°			30°	
Anvil taper angle	11°			11°			11°	
Pendulum pole length	750 mm			800 mm			750	
Standard sample span	40mm			40mm			40mm	
Round angle radius of grips	R1-1.5mm			R1-1.5mm			R1-1.5mm	
Round angle radius of striking edge	R2-2.5mm			R2-2.5mm			R2-2.5mm	
Optional striking edge by order	R8mm			R8mm			R8mm	
Power supply	3 Phase, ~380V/220V, 50Hz/60Hz							
Dimension	2100×650×1900 mm						2450 × 1200 × 2455mm	
Weight(Kg)	500kg	600kg	750kg	900kg	3000kg			
Standard accessories	CMT22xx Series				CMT23xx Series			
	Touch LCD indicator Mini Printer				PC, Printer , Control Carbinet			
	Main Machine, Protect Shell, Manual controller, Anchor Bolts, Jaws (Including support), Pendulum weight, Span specimen plate, Specimen Centering Plate							

Note: Standard specimen size: 10mm×10mm×55mm (U,V notched )

## UV Notching Machine

This machine is designed for providing the specimens used in the impact testing tasks.

Notching may cut notch on the specimen for only one go of the cutter. Besides, it has advantages of high precision, long life, low noise and concise appearance etc.

The Notched samples fulfill the test standard of ASTM E23 and ISO148.



## Specification

Model	UV-1H	UV-2D	UV-2P
Notch type	U or V type	U and V type	
Cutter	Single	Double	Double
Drive method	By hand	By motor	By hydraulic
Cutter hardness	72-75 HRC		
Notch stroke	340mm		
Notch speed	Manually control	2.5m/min	2.0m/min
Size of specimen	10mm×10mm (7.5 or 5mm as special)×55mm		
Power supply	None	3phase, 380/220V, 50/60 Hz	
Machine size	600×500×1200mm		
Weight	120kg	150kg	200kg