



## ITM-B series

ITM-B series for Charpy tests on metallic materials, fully complying to ISO 148, EN 10045, ASTM E23, with impact energy 150J, 300J and 450J.

➤ Vibration damping cast iron structure, possibility to choose between three versions:

- ITM-BA with analogue dial gauge for impact energy reading
- ITM-BD with analogue dial gauge and touch screen display
- ITM-BC with computer control and software echoTestPilot.



- Impact testing machine structure, weight and height, are precisely designed to ensure high accuracy >High precision bearing for small friction.
- ITM-B equipped with motor-driven hammer raising system, auto-return after impact and with electromagnetic pendulum lock.
- Siemens PLC control unit allows high accuracy pendulum action.
- Round shape pendulum design reduces wind resistance

Model		ITM-BA	ITM-BD	ITM-BC
Max Energy	J	450		
Analog display	-	Included	N/A	N/A
Touch screen	-	N/A	Included	Included
Software and RS232 cable	-	N/A	N/A	Included
Pendulum moment 150J	Nm	80,385		
Pendulum moment 300J		160,770		
Pendulum moment 450J		241,154		
Angle resolution	°	0.025		
Striking angle	°	150±1		
Distance from support axis to percussion center	mm	750		
Striking velocity	m/s	5.2		
Support span	mm	40,000		
Radius of support curvature	mm	2.5		
Angle of support slope	°	0		
Angle of support taper	°	11±1		
Striking edge radius	mm	2-2.5		
Striking thickness	mm	16		
Specimen dimensions	mm	55x10x10		
	mm	55x10x7.5		
	mm	55x10x5		
Motor power	kW	0.8		
Power supply	V-Hz-ph	400-50/60-3		
Dimensions	mm	1950x575x1460		
Weight	kg	700		

**Included accessories**

SIEMENS PLC  
 Full-closed protection cover  
 Pendulum lock/release system  
 Driving system  
 Angle measurement system  
 Anchor bolts  
 Span block  
 Specimen centering block  
 Centering tongs  
 Wedge block

**Optional accessories**

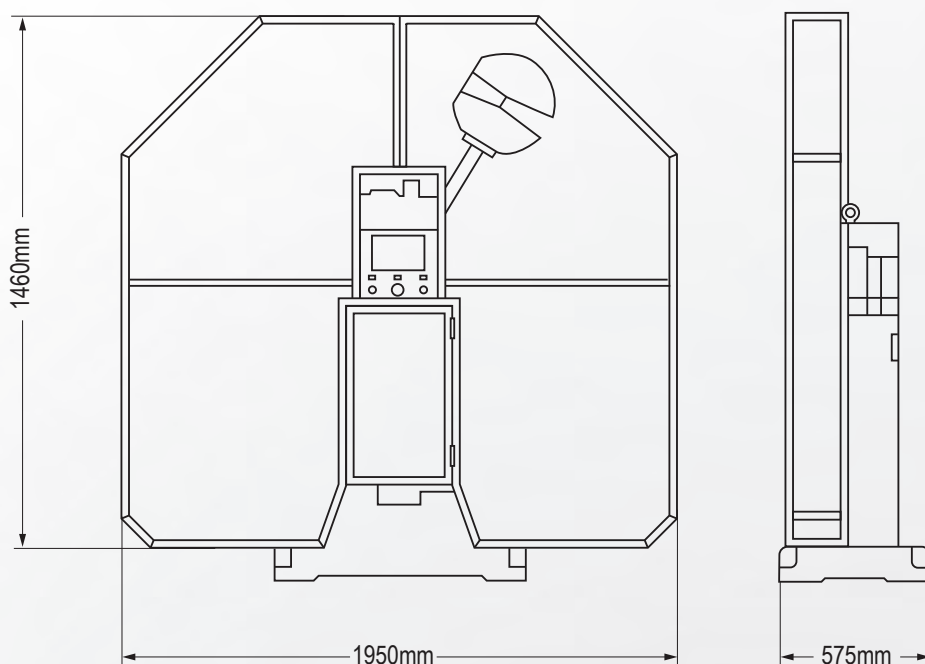
Model	Description
BMA 350	Motorized notching machine
NPP 50	Notch profile projector
CCS 40	Low temperature chamber -40°C
CCS 60	Low temperature chamber -60°C
CCS 80	Low temperature chamber -80°C
CCS 110	Low temperature chamber -110°C

**Accessories**

Model	Description
CPITM-B15	Charpy pendulum without striker knife 150J
CPITM-B30	Charpy pendulum without striker knife 300J
CPITM-B45	Charpy pendulum without striker knife 450J
CSKR2	Charpy striker knife ISO 148, R2
CSKR8	Charpy striker knife ASTM E23, R8

**Computer System**

Computer System	ECHOCS01	Computer
	ECHOCS02	Monitor
	ECHOCS03	Color printer
	ECHOCS04	Mouse
	ECHOCS05	Keyboard





**DEVCO S.r.l.**

Via Marzabotto, 59 20037 Paderno Dugnano (MI)  
Tel +39 0283591153 - Fax. +39 0295441300  
[www.devcosrl.it](http://www.devcosrl.it) - e-mail: [info@devcosrl.it](mailto:info@devcosrl.it)

[www.echo-lab.it](http://www.echo-lab.it)