

PLASTIC PENDULUM IMPACT TESTING MACHINES (ADVANCED TYPE)

CAN BE CONFIGURED ACCORDING
TO CUSTOMER REQUIREMENT



ITM-G50A

- According to GB/T 1043, GB/T 1843, GB/T 13525, ISO 179, ISO 180, ASTM D6110, ASTM D256
- For impact resistance testing of non-metallic materials including plastics, nylon, rubber, wood, fiberglass, composite plastic pipes and electrical insulating materials
- Easy adjustment and replacement of supports, with strong applicability
- Customizable microcomputer and instrumented models

SPECIFICATION

Code		ITM-G50A	
GB/T 1043 ISO 179	Charpy impact energy	1J, 2J, 4J, 5J 7.5J, 15J, 25J, 50J	
	radius of the pendulum	230mm($\leq 5J$)	395mm($> 5J$)
	impact velocity	2.9m/s	3.8m/s
	angle of the striking edge	$30^{\circ} \pm 1^{\circ}$	
	radius of the striking edge	$2 \pm 0.5\text{mm}$	
	radius of the support	$1 \pm 0.1\text{mm}$	
	front angle of the support	$5^{\circ} \pm 1^{\circ}$	
	rear angle of the support	$10^{\circ} \pm 1^{\circ}$	
	pendulum pre-elevation angle	150°	
	span of the standard support	40mm, 60mm, 62mm, 70mm	
GB/T 1843 ISO 180	Izod impact energy	1J, 2.75J, 5.5J, 11J, 22J	
	radius of the pendulum	335mm	
	impact velocity	3.5m/s	
	angle of the striking edge	75°	
	radius of the striking edge	$0.8 \pm 0.2\text{mm}$	
	rake angle of the cutting edge	5°	
	relief angle of the cutting edge	10°	
	pendulum pre-elevation angle	150°	
Resolution of energy		1/2375FS	
Resolution of angle		0.045°	
Power supply		AC 220V, 50Hz, 0.3kW	
Dimension (LxWxH)		1000×475×780mm	
Weight		140kg	

SPECIFICATION

Code		ITM-G50B
ASTM D6110	Charpy impact energy	2.7J, 5.4J, 10.8J, 21.6J
	radius of the pendulum	327mm
	impact velocity	3.46m/s
	angle of the striking edge	45°
	radius of the striking edge	3.17±0.12mm
	radius of the support	3.17±0.12mm
	pendulum pre-elevation angle	150°
	span of the standard support	95.3mm
ASTM D256	Izod impact energy	2.7J, 5.4J, 10.8J, 21.6J
	radius of the pendulum	335mm
	impact velocity	3.46m/s
	angle of the striking edge	80°
	radius of the striking edge	0.8mm
	pendulum pre-elevation angle	145.2°
	fillet radius of the fixture jaw	0.25°
Resolution of energy		1/2375FS
Resolution of angle		0.045°
Power supply		AC 220V, 50Hz, 0.3kW
Dimension (LxWxH)		1000×475×780mm
Weight		140kg

***OPTION SELECTION TABLE**

Name	Code	Standard	Specification of pendulum	Code	Specification of support	Code
main unit	ITM-G50C (optional model)	GB/T 1043 ISO 179	1J Charpy pendulum	ITM-G-N1	standard Charpy support (with extension block)	ITM-GA-N1
			2J Charpy pendulum	ITM-G-N2		
			4J Charpy pendulum	ITM-G-N3		
			5J Charpy pendulum	ITM-G-N4		
		GB/T 1043 ISO 179	7.5J Charpy pendulum	ITM-G-N5	standard Charpy support	ITM-GA-N2
			15J Charpy pendulum	ITM-G-N6		
			25J Charpy pendulum	ITM-G-N7		
			50J Charpy pendulum	ITM-G-N8		
		GB/T 1843	1J Izod pendulum	ITM-G-N9	standard Izod support	ITM-GA-N3
			2.75J Izod pendulum	ITM-G-N10		
			5.5J Izod pendulum	ITM-G-N11		
		ISO 180	2.75J Izod pendulum	ITM-G-N10	standard Izod support	ITM-GA-N3
			5.5J Izod pendulum	ITM-G-N11		
		GB/T 1843 ISO 180	11J Izod pendulum	ITM-G-N12	standard Izod support	ITM-GA-N3
			22J Izod pendulum	ITM-G-N13		
		ASTM D6110	2.7J Charpy pendulum	ITM-G-N14	ASTM standard Charpy support	ITM-GB-N1
			5.4J Charpy pendulum	ITM-G-N15		
			10.8J Charpy pendulum	ITM-G-N16		
			21.6J Charpy pendulum	ITM-G-N17		
		ASTM D256	2.7J Izod pendulum	ITM-G-N18	standard Izod support	ITM-GB-N2
			5.4J Izod pendulum	ITM-G-N19		
			10.8J Izod pendulum	ITM-G-N20		
			21.6J Izod pendulum	ITM-G-N21		

- * Selection procedure (main unit + pendulum + support):
1. Select the test standard
 2. Select the pendulum corresponding to the test standard
 3. Select the support corresponding to the pendulum

STANDARD DELIVERY

ITM-G50A	main unit	1 pc
	Charpy pendulum	8 pcs
	Izod pendulum	5 pcs
	standard Charpy support (with extension block)	1 pc
	standard Charpy support	1 pc
	standard Izod support	1 pc

STANDARD DELIVERY

ITM-G50B	main unit	1 pc
	ASTM Charpy pendulum	4 pcs
	ASTM Izod pendulum	4 pcs
	ASTM standard Charpy support	1 pc
	standard Izod support	1 pc