

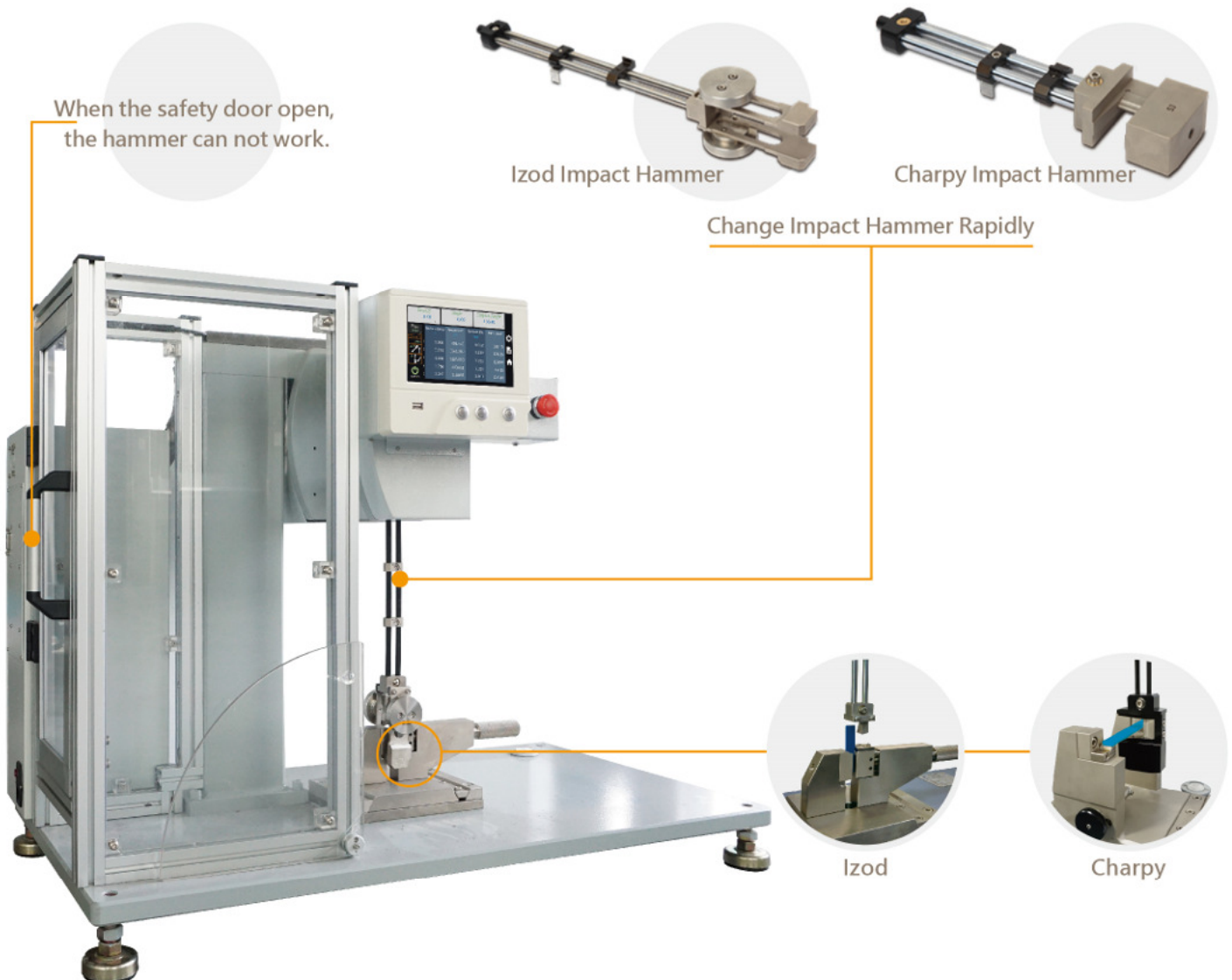
QC-639R(U) Computerized Impact Tester

Standard

ISO13802 · DIN53453 · ASTM D256 · ISO180 · ASTM D6110 · ISO179

Description

Computerized impact tester can be used to determine impact resistance of polymers. It use the energy conversion to calculate the energy absorbed by the sample after impact. The precise of impact hammer will highly affect the center position of its mass and impact speed, which in turn influence the test accuracy. QC-639R/U can lift and release the impact hammer automatically for better test efficiency and operator safety. It is equipped with 7" touch screen. It uses encoder to detect the angle for calculating the energy and has built-in correction system for the loss causing by the friction of wind resistance. For increase the test precise, there is an optional dedicated software to analyze, record and generate report and so on. Izod/Charpy is the most common methods. QC-639R/U can support to change the impact hammer and vise rapidly to satisfy different test condition and standards (ASTM & ISO).



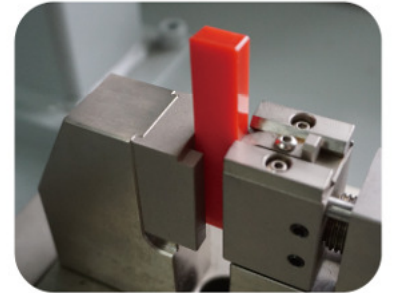
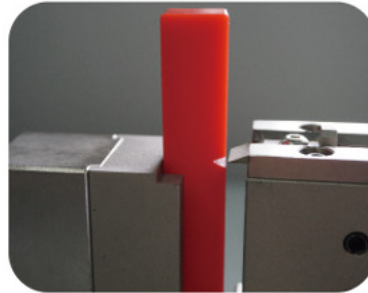
Specification

Model	QC-639R	QC-639U
Test Method	IZOD · CHARPY	
Initial Angle	150°	
Test Capacity	Izod 1~22J ASTM Charpy 1~22J ISO Charpy 1~5J	Izod 1J-50J Charpy 1J-50J
	20-80% of the max. capacity is the suggested test range.	
Energy Accuracy	0.01J	
Angle	Min. display angle is 0.05 degree.	
Operation	<ul style="list-style-type: none"> ■ With 7" touch screen to show the impact energy value. ■ Able to save over 50 results. ■ The vise has position mechanism to ensure the sample position. ■ Able to change vises for Izod/Charpy to satisfy different test standards. ■ Provide multi-unit to display. ■ Auto lift and release functions. ■ Safety door sensor. 	
Accessories	Calibration table for hammer, Manual, Hex Wrench Set	
Optional Items	<ul style="list-style-type: none"> ■ Impact hammers for different energy test and different vises ■ QC-640 Impact Specimen V-notcher ■ Optional analysis software 	
Power Supply	110~240V / 5A	
Dimension	Full Cover 110 x 50 x 110 cm Half Cover 110 x 50 x 77 cm	Full Cover 114 x 50 x 117 cm Half Cover 114 x 50 x 84 cm
Weight	Full Cover 140 Kg Half Cover 110 Kg	Full Cover 400 Kg Half Cover 370 Kg

Positioning Mechanism

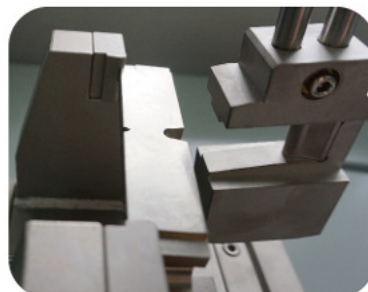
Izod

Triangular positioning block will ensure the specimen placing accuracy.



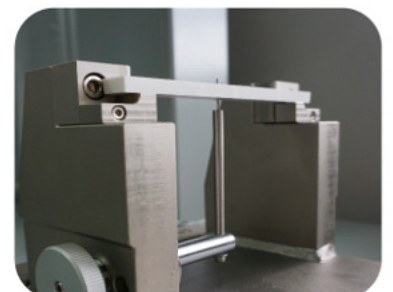
Charpy

Positioning vise can ensure the impact place is at the center of samples.



Charpy

Positioning pin can ensure the sample be placed at the impact center.



Display (Standard)

- Data Information: able to save with USB
- Test Setting: with built-in ISO and ASTM standards, support the test by changing the relative impact hammers and vises.
- Language: Chinese, English, Japanese
- Metric/Imperial units switching
- Able to check the resistance and do the loss energy correction.

Energy	Angle	Impact Angle		
0.00	0.00	136.40		
Time 1.013	Specimen Energy J	Specimen E/T J/m	Specimen E/A J/mm ²	Impact Angle J/mm ²
1	1.006	304.842	0.030	143.15
2	3.731	1141.090	0.112	134.25
3	4.020	1225.590	0.121	120.90
4	0.756	230.551	0.023	66.15
5	0.381	116.091	0.011	136.40

Calibration

Resistance Test

Angle 5.85 Cycle 0 Time 0.000

ANGLE zero

Previous Next Finish Cancel

Test

Sample Thickness 000003.28 mm Sample Width 000010.16 mm

Test Type IZod Test Specification ASTM

Energy 5.5J Language English

Finish Cancel

Calibration

Cycle 03 Energy Consumption 00.042, 148.43°

Real Time Information

Angle 0.00

ANGLE zero

Previous Next Finish Cancel

Unit

Energy J Gravity m/s²

Mass kgf Length mm

Specimen E/T J/m Specimen E/A J/mm²

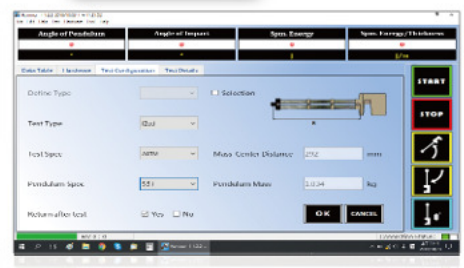
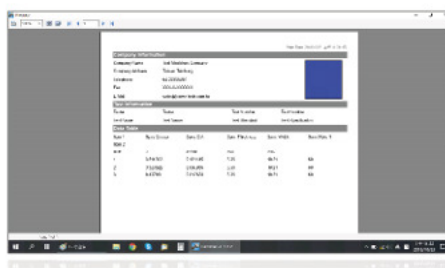
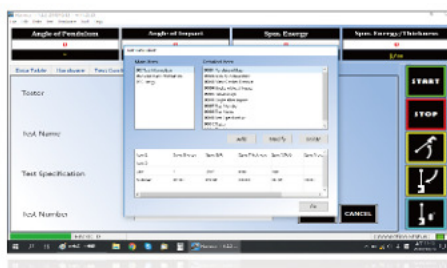
Previous Next Finish Cancel

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Previous Next Delete Test

Software (Optional)

- Data Information: able to save with USB
- Test Setting: with built-in ISO and ASTM standards, support the test by changing the relative impact hammers and vises.
- Able to check the resistance and do the loss energy correction.
- Modularize the test setting.
- Standard report table.



*Cometech reserves ultimate modification right of product specification.



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