

Product Information

Zwick 5102 Pendulum Impact Tester



Range of application

Zwick 5102 Pendulum impact testers principally are designed for carrying out tests on plastics up to 5 Joule.

- Determination of the impact energy to Charpy:
DIN EN ISO 179, DIN 50115, DIN 53453,
DIN 53753
- Determination of the impact energy to IZOD:
similar to DIN EN ISO 180
- Impact tensile test:
DIN EN ISO 8256, ISO 8256

Features/Advantages

Zwick 5102 pendulum impact testers have the following characteristics:

- They comply with DIN 51222
- Solid casting
- Low-friction pendulum bearing for interchangeable pendulums
- Release device for releasing the pendulum
- Mounting surfaces for fixing supports and the clamping device

Zwick 5102 pendulum testers are available in four different versions:

- With analogue display Zwick 5102.201
- As „economy“ version
with digital display Zwick 5102 E
- With digital display Zwick 5102.202

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Applicational range	Angle of deflection	Pendulum length	Impact velocity
up to 5 Joule	160°	225 mm	v = 2.93 m/s

Basic models

Description	Order item
Zwick 5102 Pendulum impact tester (basic model with analogue display)	5102.201
Zwick 5102 E Pendulum impact tester (basic model with digital display, „economy“ version) only for Charpy tests	5102 E
Zwick 5102 Pendulum impact tester (basic model with digital display)	5102.202

Included in each basic model are a setting gauge for 40 mm support separation, screwdriver and an instruction manual (English or German).

Pendulum release

Description	Order item
Adjustable pendulum release for Zwick 5102 pendulum impact tester with angle of release 160° to 10°, with scaling in 10° steps	5102.206

Connection units for 5102.202 und 5102 E

Description	Order item
Power supply, 230 V, 50/60 Hz	5102.175
Power supply, 115 V, 50/60 Hz	5102.177

Automatic pendulum detection and pendulum coding for 5102.202 und 5102 E

Description	Order item
Automatic pendulum detection (required once off), sensor for automatic detection of type of test and the pendulum's capacity in conjunction with correspondingly coded pendulums (5102.205 also required)	5102.204
Pendulum coding (required once per pendulum), fixing a coding for automatic pendulum value detection (in conjunction with 5102.204)	5102.205

Test programs *testXpert*[®]

For 5102.202 and 5102E pendulum impact testers a Standard or Master test program for accepting test data from different devices is offered optionally.

Furthermore following supplementary units are available:

- For tests to Charpy: Exchangeable pendulums (0.5 up to 5 Joule),
Abutments with supports (w x h: 15 x 10/6 x 4/12.7 x 12.7/10 x 15/10 x 4/ 4 x 10/3 x 4 mm)
Setting gauge to DIN 53753
- For tests to IZOD: Exchangeable pendulums (0.5 up to 4 Joule)
Specimen clamp and inserts (for specimen height 12.7(1/2")/6.35(1/4")/10/4 mm)
- For impact tensile tests: Exchangeable pendulums (0.5 up to 4 Joule)
Clamping device and yokes (15 or 30 g)