Pendulum Impact Test

Pendulum Impact Tester

0.2 to 50 Joule

The Coesfeld Pendulum Impact Tester, PIT covers the full spectrum of plastic impact testing, e.g. Charpy, Izod, Tensile and Dynstat according to ISO and ASTM standards. Optional the system can be fully automated with motorized pendulum return and automated sample feeding system.

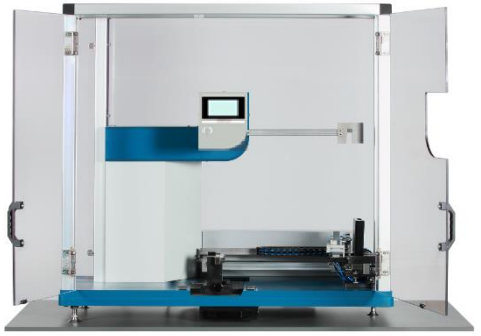
Our Pendulum Impact Tester works fully digital and is controlled from PC. Via Coesfeld WIN-Software measurements can be easily configured, conducted and evaluated. Simultaneously the course of measurement can be observed and controlled via optional touch panel.

Impact energy is immediately displayed and stored after each test. Results can be viewed and printed in predefined report format. Typical for Coesfeld systems raw data can be exported for further digital data processing.

50 Joule – Pendulum Impact Tester

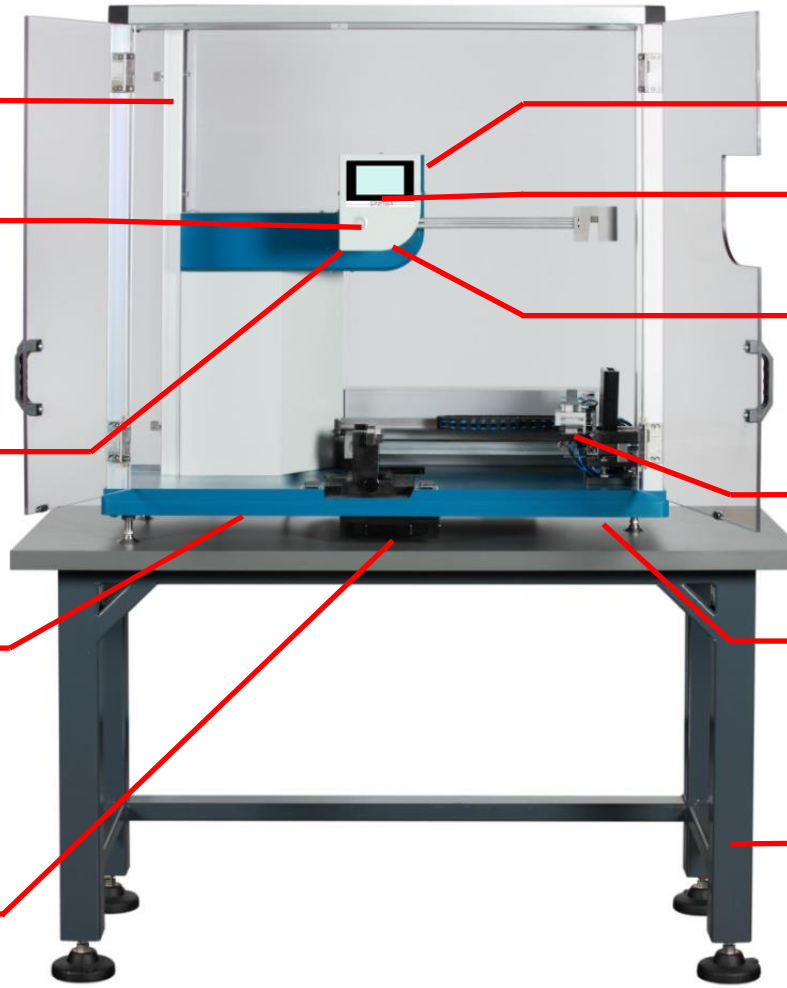
Partially housed

Full safety housing



Fully automated
- Motorized Pendulum Return
- Automatic Sample Feeding

Features



Partial housing
or optional full housing

Release button

Optional pendulum
detection

Solid steel frame

Optional drawer for
sample rest

Electric brake and
optional motor for
pendulum reset

Optional touch panel

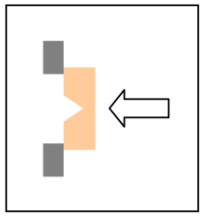
Digital angle encoder

Optional sample
feeder

Three feet for easy
alignment

Optional massive
steel table

Pendulum Impact Test Capabilities

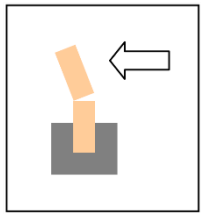


Charpy

ISO 179	0.5 to 5 J	2.9 m/s
	7.5 to 50 J	3.8 m/s
ASTM D 6110	0.5 to 21,6 J	3.46 m/s

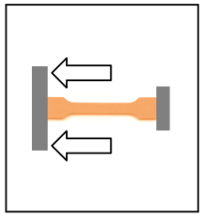
DYNSTAT

DIN 53435	0.2 bis 4 J	2.2 m/s



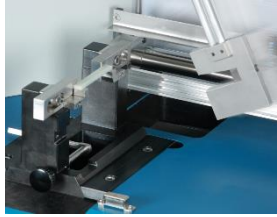
IZOD

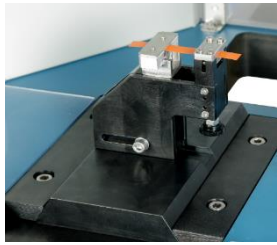
ISO 180	1 to 44 J	3.5 m/s
ASTM D 256	1 to 44 J	3.5 m/s
ASTM D 4812	1 to 44 J	3.46 m/s



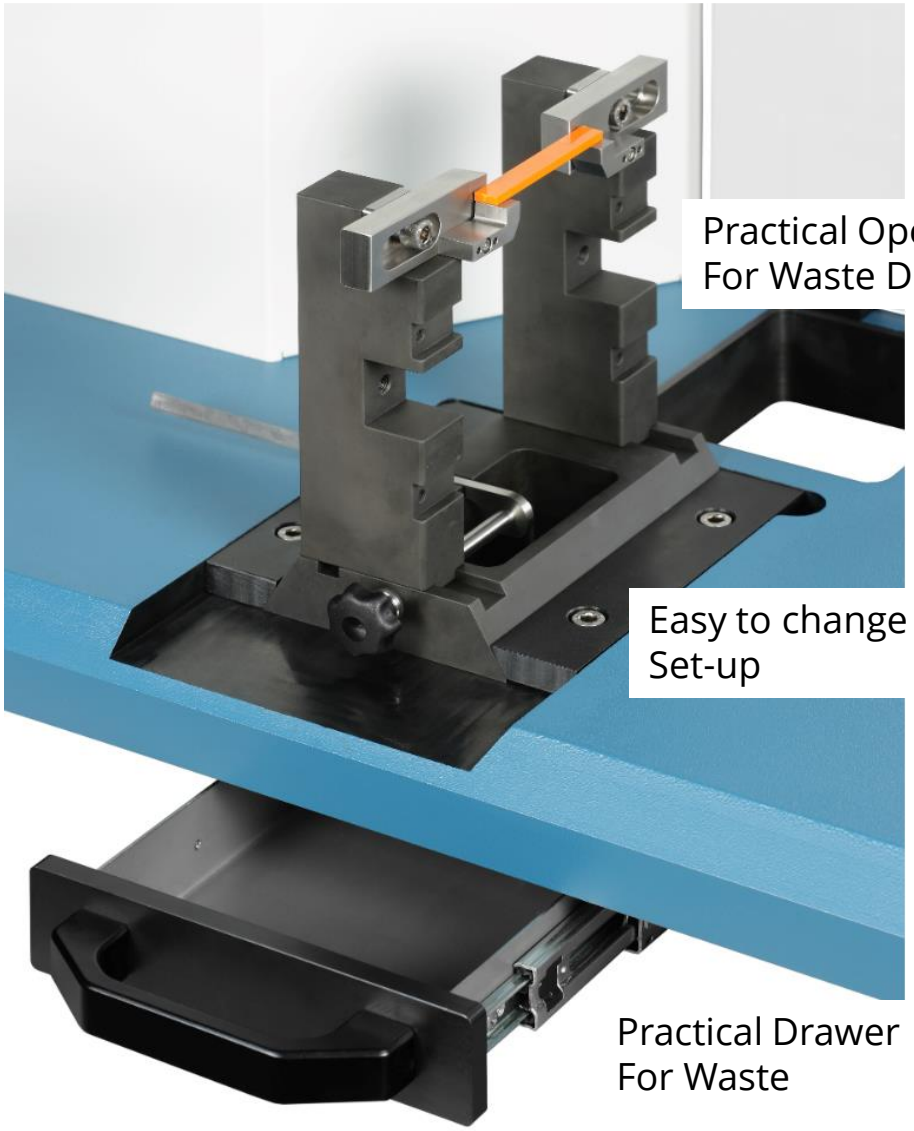
Tensile

ISO 8256-A	2 to 4 J	2.9 m/s
	7.5 to 50 J	3.8 m/s





Test Set-Up

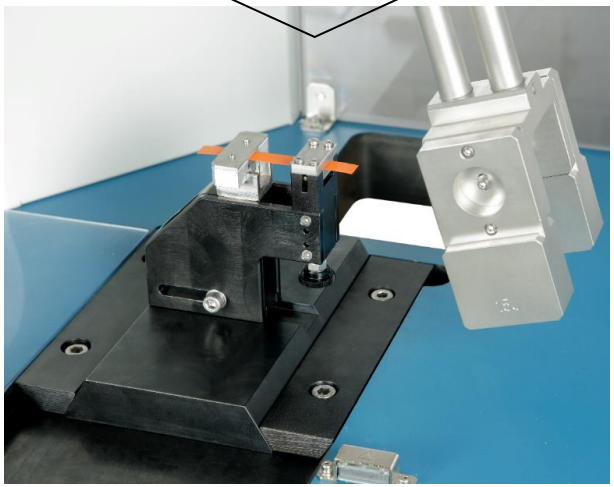


Practical Opening
For Waste Disposal

Easy to change
Set-up

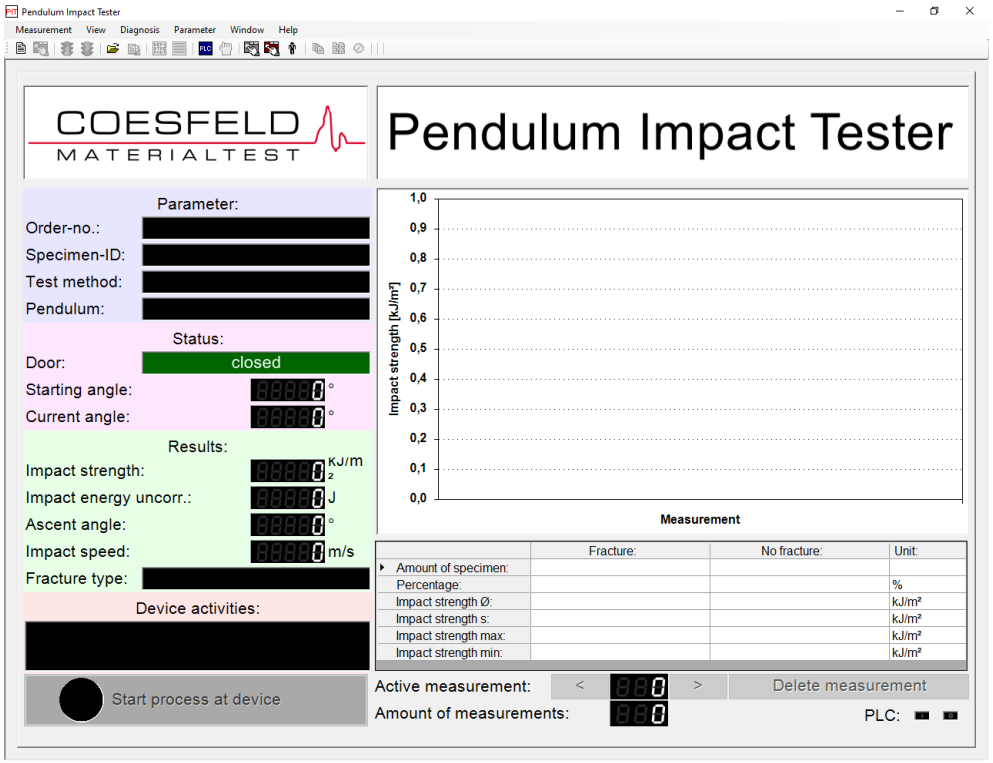
Practical Drawer
For Waste

Quick and Precise Change of Test Set-Up

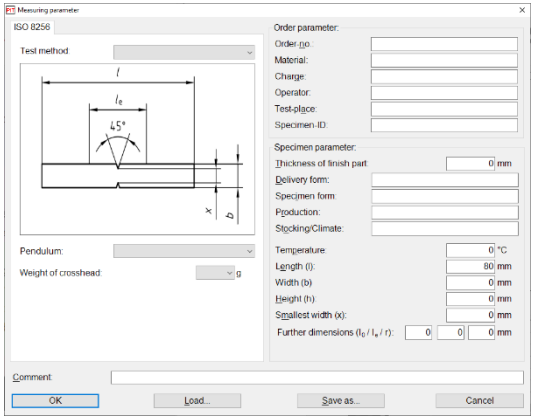


Intuitive Software

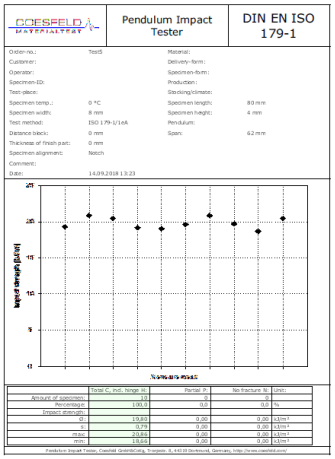
- All Data is automatically stored after each impact
- Pendulum verification tests are integrated
- Individual set-up according to test standards



Main Screen – Measurement Status/ Operation/ Results



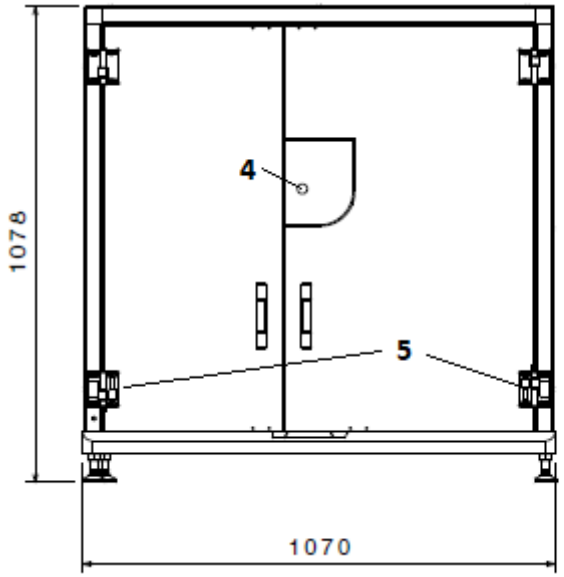
Measurement Set-Up

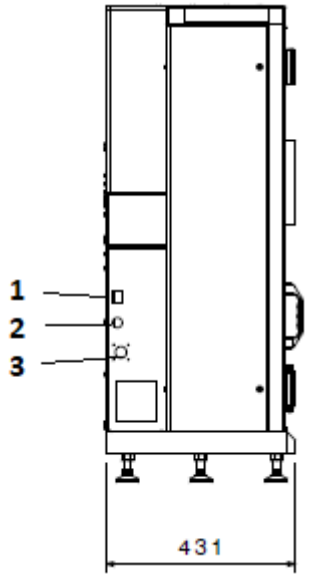


Automatic Report Generation

Technical Data

The system runs fully electric. Control and measuring electronics are fully integrated. Pressure air is only required for automatic sample feeding systems.





Potential Energy	0.2 to 50 Joule
Automatic Drop Release	o
Automatic Brake	o
Speed Measurement at Impact	o
PC Data Evaluation and Software	o
Integrated Sample Gauge	optional
Temperature External Cooling Box	Accessory
Notch Cutter	Accessory
Automatic Pendulum Detection	optional
Automatic Sample Feeding	optional
Motorized Pendulum Return	optional
Weight	300 kg
Dimensions in mm (D x W x H)	431 x 1070 x 1078
Mains	230 V, 50/ 60 Hz, 2000 VA

Advantages

Modular Design

- Adjustable to International Standards

Integrated Electronics

- No Additional Set-Up Space

Massive Steel Frame

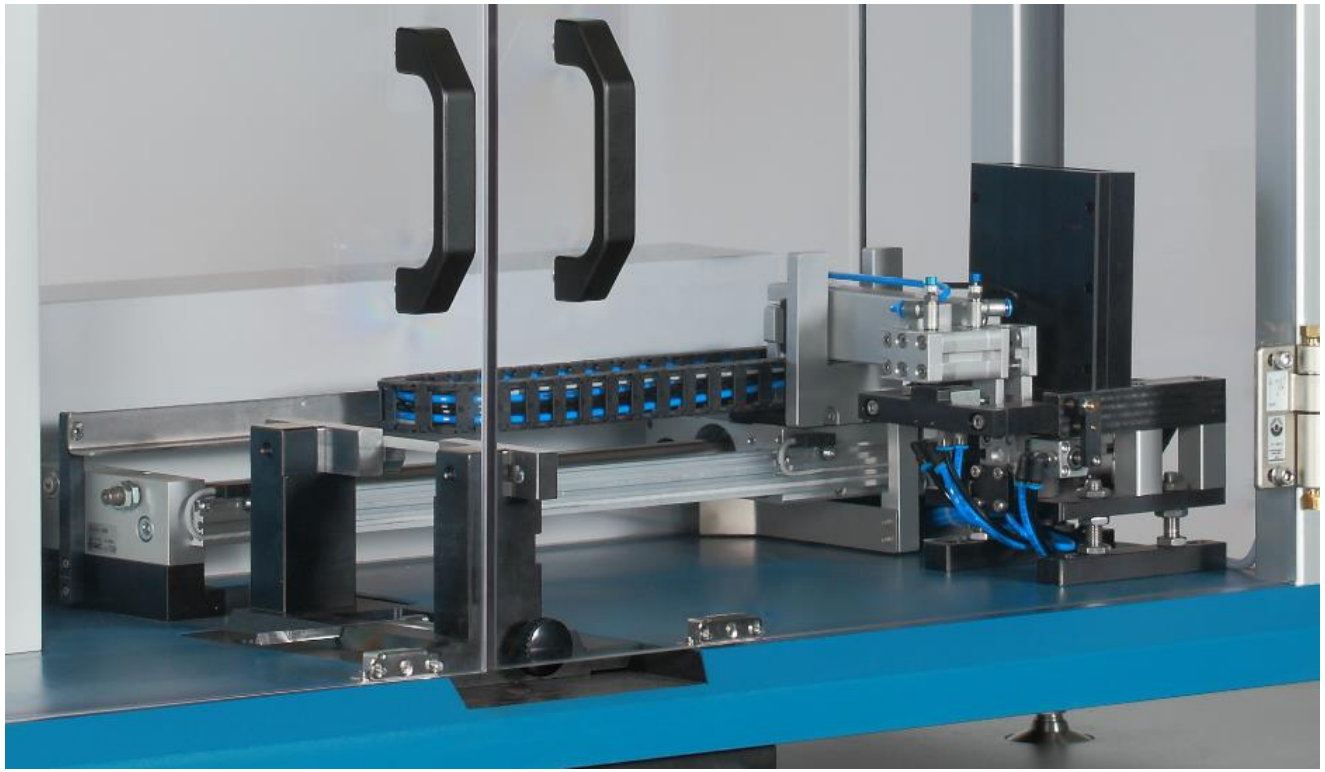
- High Impact Energy
- Low Vibration and Disturbance

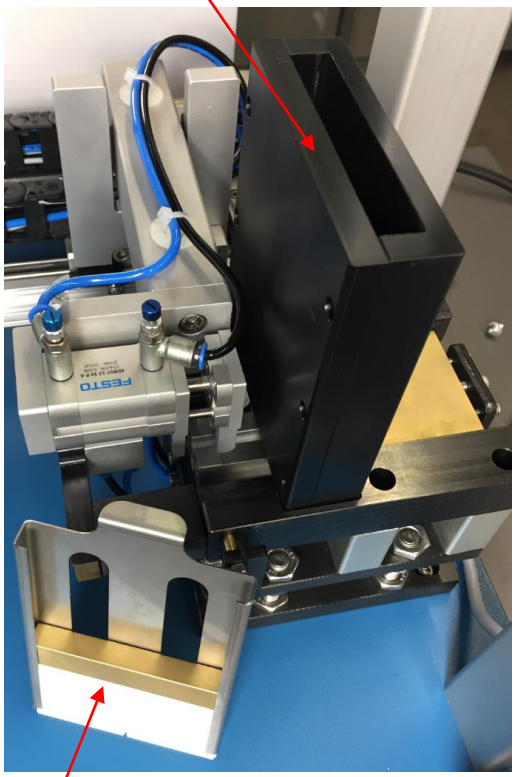
Electric Brake

- Safe Operation
- Programmable Stop Angle (in rise, return, safe position)
- Flexible Start Angle
- No Pressure Air Required

Automatic Sample Feeding

- full integration into safety housing
- Still good accessibility for manual operation





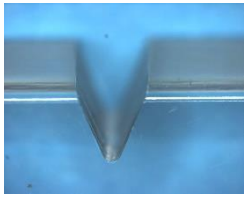
Accessories

Punching

Gauge

Milling

Notching



Cooling

COESFELD
MATERIALTEST

DAkkS
Deutsche
Akkreditierungsstelle
D-K-15093-01-00

TESTING EQUIPMENT

for Plastics and Rubber

www.coesfeld.com

Coesfeld GmbH & Co. KG

Tronjestr. 8
44319 Dortmund

T +49 231 91 29 80-0
F +49 231 17 98 85

mail@coesfeld.com