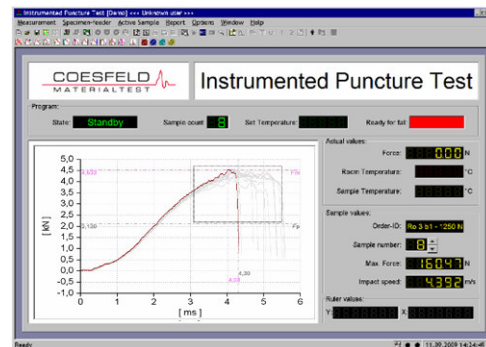




42-400 Instrumented Impact Tester

Standards

DIN EN ISO 6603-2, DIN EN ISO 7765-2, ASTM D 3763
CAI: ASTM D 7316, DIN 65561, ISO 18352, EN 6038



Application

Instrumented impact resistance tester for testing foils, plastics and parts.

Features

Fully automated impact tester with PC-control and data recording as well as a practical manual operation via direct buttons and touch panel. The robust steel frame achieves high rigidity and stiffness even at high impact energies. The system measures impact speed and the precisely triggered, high resolved force curve obtained during penetration. Characteristic points as maximum value are automatically detected, but can also be altered by the operator. Up to 35 Curves can be simultaneously loaded. A full data export enables an individual analysis if desired. Numerous accessories as tempering, anti-rebound for compression after impact tests (CAI), acceleration for high speeds for automobile standards and drop frames, impactors or clamping devices make the drop tower very versatile. The trigger system can also be used to start a high speed camera system.

Technical Data

Drop Height	50 to 1.300 mm
Impact Speed	1 to 5 m/s (<i>higher speeds with acceleration system, up to 20 m/s</i>)
Impact Weight	2.5 to 80 kg
Impact Energy	32 to 1020 J (<i>higher energies with acceleration system</i>)
Temperature	+45 to + 200 °C (<i>lower temperatures with external cooling</i>)
Temp.-Setting Accuracy	0.1 °C
Temp.-Control Accuracy	+/- 2 °C up to +150 °C
Cooling	Heat Exchanger (Chiller, LN2)



Dimensions and Connection

Dimensions (HxWxD)	approx. 2600 x 1000 x 1200 mm (<i>depends on configuration</i>)
Weight	approx. 1200 kg
Mains	230 V / 50 Hz
Power	2,500 VA
Interfaces	Ethernet
Air	6-10 bar hoses connection 6 mm outer diameter
Cooling	in-/ outlet hoses connection 12.5 mm / 0.5 inch inner diameter

Accessories

incl.	Article	Description
-	42-400-040	Tempering Chamber 150°C
-	42-400-042	LN2 Valve
-	42-400-A15	Acceleration System 15 m/s
-	42-400-A25	Acceleration System 25 m/s
-	42-400-AR	Anti-Rebound System
-	42-400-P22	Piezoelectric force transducer 22 kN for impact body
-	42-400-PTE	Piezoelectric force transducer 22 kN for clamping body
-	42-400-PCAI	Piezoelectric force transducer 80 kN for CAI
-	42-400-DF25	Drop Frame 3-25 kg
-	42-400-DF80	Drop Frame 10-80 kg
-	42-400-DF	Drop Frame on request
-	42-400-IB10	Impact Body 10 mm (ISO 6603)
-	42-400-IB13	Impact Body 12,7 mm (ASTM D 3763)
-	42-400-IB16	Impact Body 16 mm (CAI: ASTM D 7136)
-	42-400-IB20	Impact Body 20 mm (ISO 6603)
-	42-400-IB	Impact Body on request
-	42-400-SF40	Specimen Clamp 40 mm (ISO 6603)
-	42-400-SF76	Specimen Clamp 76 mm (ASTM D 3763)
-	42-SFCAI1	Specimen Clamp 3x5 inch (CAI: ASTM D 7136)
-	42- SFCAI2	Specimen Clamp 75x125 mm (CAI: ISO 18352)
-	42-400-SF	Specimen Clamp on request
-	42-400-IZOD	Impact Body and Clamp IZOD (ISO 180/ ASTM D 256)
-	42-400-CHA	Impact Body and Clamp Charpy (ISO 179/ ASTM D 6110)
-	42-400-TEN	Impact Body and Clamp Tensile Test (ISO 8256)
-	42-400-PTE	Impact Body and Clamp Peeling Wedge Test (ISO 11343)