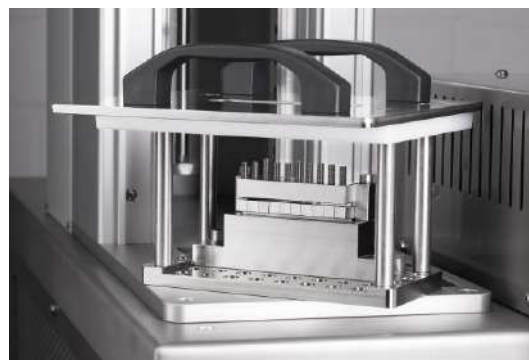




## 24-901-100 Brittleness Temperature Tester

### Standards

ISO 812, ISO 974, ASTM D746, ASTM D2137



### Application

Determination of the temperature at which plastics, which are not rigid at normal ambient temperature, exhibit brittle failure under specified impact conditions

### Features

The machine consists of two components: The drop tower and the cooling unit.

Temperature is set directly on the front-panel of the cooling unit. The unit works with a continuous running, ozone friendly compressor and an electrical heater, which controls the temperature.

The input module holding the sample fixture is equipped with a floating guard and is inserted into the cooling bath. Via mechanical trigger the impactor is released to free fall accelerating to a drop speed of 2 m/s. The drop mass of 15 kg and thus energy of about 30 Joules assures that the drop speed will remain constant throughout the impact process.

### Technical Data

Drop Height	up to 240 mm
Drop Speed	2 m/s
Sample Holder	exchangeable
Temperature	-85°C to +20°C
Cooling Time	approx. 120 min (+20°C to – 80°C)
Temp. Set Accuracy	0.1 K
Temp. Control Accuracy	+/- 0.05 K
Cooling Media	e.g. Methanol
Capacity	11 l
Coolant	CFK/ HCFK free



## Dimensions and Connection

Dimension (HxWxD)	approx. 1,470 x 380 x 780 mm
Weight	approx. 120 kg
Mains	230 V / 50 Hz (optional: 230 V / 60 Hz)
Power	2,600 Watt
Air	6 bar

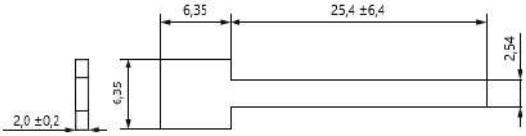
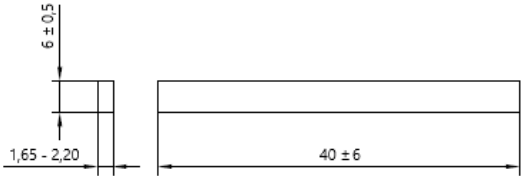
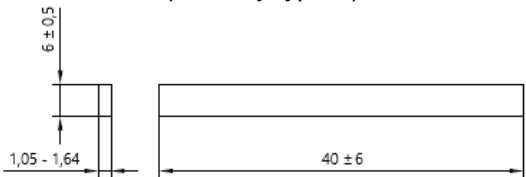
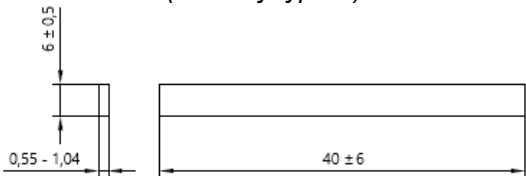
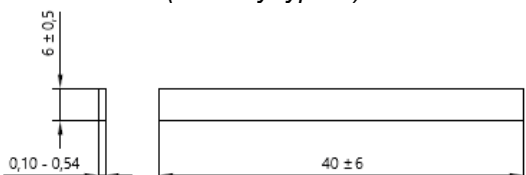
## Accessories

Item no.	Description
9-915-847	Clamping Fixture type A without stop <i>ASTM D746</i>
9-915-849	Clamping Fixture type A with stop <i>ASTM D2137 &amp; ISO 812</i>
9-915-850	Clamping Fixture type A, 5.7 mm <i>ASTM D2137 for specimen thickness 1.05 to 1.64 mm</i>
9-915-851	Clamping Fixture type A, 5.2 mm <i>ASTM D2137 for specimen thickness 0.55 to 1.04 mm</i>
9-915-852	Clamping Fixture type A, 4.8 mm <i>ASTM D2137 for specimen thickness 0.10 to 0.54 mm</i>
9-915-196	Clamping Fixture type A, for 10 specimens <i>ASTM D 746</i>
9-915-846	Clamping Fixture type B for 15 specimens <i>ASTM D 746 &amp; ISO 974</i>



Configuration	Standard	Specimen	Fixture
	ISO 812	<p>Type A</p>	<p>Type A, 5 specimens</p> <p>9-915-849</p>
		<p>Type B</p>	<p>Type A, 5 specimens</p> <p>9-915-849</p>
	ISO 974	<p>Type B</p>	<p>Type B, 15 specimens</p> <p>9-915-846</p>
	ASTM D746	<p>Type I</p>	<p>Type A, 5 specimens</p> <p>9-915-847</p> <p>Type A, 10 specimens</p> <p>9-915-196</p>
		<p>Type II</p>	<p>Type A, 5 specimens</p> <p>9-915-847</p> <p>Type A, 10 specimens</p> <p>9-915-196</p>
		<p>Type III</p>	<p>Type B, 15 specimens</p> <p>9-915-846</p>



Standard	Specimen	Fixture
<b>ASTM D2137</b>	<p style="text-align: center;">Type A <i>(formerly type B)</i></p> 	<p style="text-align: center;">Type A, 5 specimens 9-915-849</p> <p style="text-align: center;">Type A, 10 specimens <i>(possible with method C)</i> 9-915-196</p>
	<p style="text-align: center;">Type B, 1.65 - 2.20 mm <i>(formerly type A)</i> (standard)</p> 	<p style="text-align: center;">Type A, 5 specimens 9-915-849</p>
	<p style="text-align: center;">Type B, 1.05 - 1.64 mm <i>(formerly type A)</i></p> 	<p style="text-align: center;">Type A, 5 specimens 9-915-850</p>
	<p style="text-align: center;">Type B, 0.55 - 1.04 mm <i>(formerly type A)</i></p> 	<p style="text-align: center;">Type A, 5 specimens 9-915-851</p>
	<p style="text-align: center;">Type B, 0.10 - 0.54 mm <i>(formerly type A)</i></p> 	<p style="text-align: center;">Type A, 5 specimens 9-915-852</p>