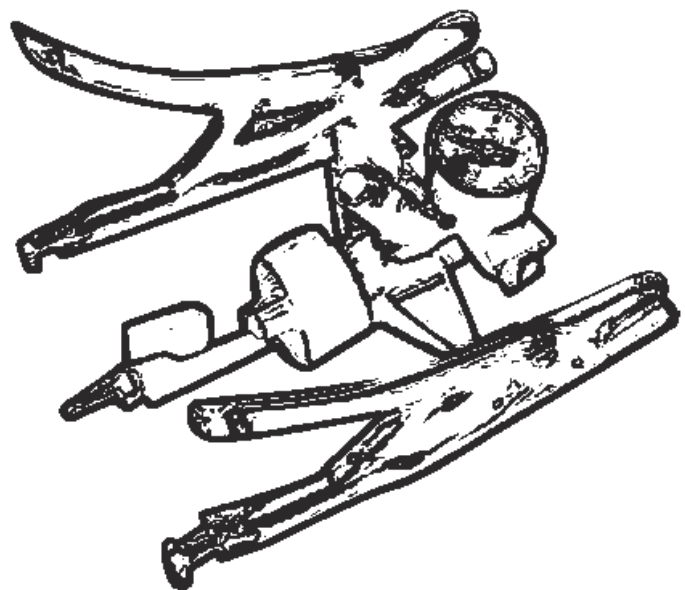


## Test Equipment & Accessories



# Teston



- Output of tensile test curve on the display and printer
- Saving of the data in excel format
- Output on normal printer also possible

The tensile testing devices, Teston and Teston Mini Digital, are small and compact testing devices, designed for examining joints and seams in sealing membranes in peel tests, shear tests and tensile tests on a construction site and/or in the workshop.



# Teston Mini Digital

**Technical data:**

Dimensions (mm) (L/W/H)  
 Weight  
 Voltage (V)  
 Frequency (Hz)  
 Test speed (mm/min)

**Teston**

860 × 430 × 170  
 20  
 100 - 250  
 50/60  
 10 - 150 freely selectable

**Teston Mini Digital**

1120 × 80 × 186  
 10  
 90 - 264  
 50/60  
 10 - 100 mm/min  
 (10 : 20 :50 given fixed)  
 500

**Order No.: 5113061**

**Order No.: 5113058**



### Weld Test Die

With the weld test die, samples with a thickness of 6 mm can be stamped out. The samples are dimensioned according to DVS 2225 part 4 (German Welding Society guidelines).

**Order No.: 5200275**



### Handy Tension Testing Device

- for manual peel and tensile tests of the welding seam
- enables optimal adjustment of the welding machine

**Order No.: 5200171**



### Compressed Air Testing Device DLP -10

- quick and uncomplicated testing of welding seams with testing channel
- complete with tongs, manometer, lever tap, connection for recording device and compressed air connection
- optionally available for accuracy class 1.0

**Order No.: 5201650**



### Compressed Air Testing Device with Test Needle

- quick testing of the welding seam in sealing in : membranes at the construction site
- optionally available for accuracy class 1.0

**Photo above:**

**Order No.: 5201700**

**Photo below:**

**With connection for recording device**

**Order No.: 5201705**



**Order No.: 5201706**  
accuracy class 1.0 and calibration documents



**Test Needle - Stable Version**  
**Order No.: DX073**



**Thickness Measuring Device**

- measurement of material strength of pipes, foils and plastic sealing membranes

**Order No.: 5200172**



**Heat Measurement Station**

- safe method of taking temperature measurements which are exact and reproducible  
 -exact control according to DVS 2207-3 (independent of device and speed welding nozzle)  
 - Scope of delivery: measurement stands, air sensor, retaining pins for 3,4 and 5 mm nozzles

**Order No. 5200173**



**Digital Thermometer**

For checking the hot gas temperature and the temperature of the welding filler; Required according to DVS guideline 2207-4.

**Order No. 5200200**  
 (incl. immersion sensor and case)

**Accessories:**

Insertion probe (dimensions)1.5 mm; length 130 mm

**Order No.: 5200199**

3 mm; length 130 mm

**Order No.: 5200197**

Surface probe

**Order No.: 5200198**



Seam Tester  
**Order No.: 5201320**

<b>Technical Data</b>	<b>GTM 1100</b>
<b>Measuring range</b>	-50 to +1150° C
<b>Measuring accuracy</b>	1° C
<b>Display</b>	13 mm high LCD
<b>Power supply</b>	9 Volt
<b>weight</b>	approx. 200 g



### High-Frequency Spark Tester PST100

- fast and safe testing of the density of welding seams, containers or manufactured coatings
- non-contact spark generation
- maintenance free
- integrated stabilisation switch
- independent operation in case of fluctuations in the mains voltage

#### Order No.

5200228 PST100 with rod electrode  
5200229 PST100 set in case

		<b>PST 100</b>
<b>Voltage</b>	V	230
<b>Frequency</b>	Hz	50 - 60
<b>Power</b>	W	30
<b>Output voltage</b>	KV	5 - 55
<b>Output frequency</b>	KHz	100
<b>Weight</b>	Kg	1.0
<b>Marking</b>		CE



### Picolino Vacuum Pump

- for operation of the test bells
- pumping speed of 8 m<sup>3</sup>/h with a clear intake
- complete with carriage, main switch, 2 m connection cable with plug

Order No.: 5226100

#### Technical Data Picolino

<b>Voltage</b>	V	230
<b>Power</b>	kW	0.35
<b>Air output</b>	l/min	133
<b>Static pressure</b>	bar	0.15
<b>Negative pressure ./. 0.85</b>		90% vacuum
<b>Weight</b>	kg	11.5
<b>Air connection</b>		banjonet coupling
<b>Dimensions</b>	mm	230 × 150 × 250

The vacuum test bells were originally developed in the industrial sector for the seam testing of plastic sealing membranes. These devices then found other applications like the testing of plastic or steel containers and plastic or steel tubs.

The tightness testing of apparatus and installations using the ventilation method with vacuum bells pertains to the preferred applied tightness test according to information sheet ZfP1 of DECHEMA (Society for Chemical Engineering and Biotechnology).

In the industrial sector, the guidelines of the DVS 2225 part 4 para. 6.5.3 (German Welding Society) are valid. The detection sensitivity of the ventilation method with vacuum bells is between  $10^{-3}$  to  $5 \cdot 10^{-4}$  mbar · l · s<sup>-1</sup> and is therefore more exact than tightness testing with liquids or high voltage.

For comparison: The detection sensitivity with water, possibly with addition of colouring is approx.  $0.5$  mbar · l · s<sup>-1</sup>, that with petroleum or oil is around  $10^{-1}$  mbar · l · s<sup>-1</sup>.

The test method with vacuum is applicable in nearly all cases, even in instances where, for reasons of the stability of the test object, testing according to the positive pressure method is no longer possible.

Apart from that, the tightness test dealt with here is a non-destructive material test.

The determination of the leakage rate with this kind of tightness test requires further steps.

The usual unit used for the leakage rate of gasses is "millibar times Liter per second" (mbar · l · s<sup>-1</sup>).

Leakage rates in liquids are given, for example, in cm<sup>3</sup> · s<sup>-1</sup> or sometimes g · s<sup>-1</sup>. A leak with a leakage rate of  $1$  mbar · l · s<sup>-1</sup> exists, for example, if, in the case of an evacuated space with a capacity of  $1$  l, the pressure per second increases by  $1$  mbar (prerequisite of constant temperature).

To determine the leakage rate, the testing head must be equipped with a tightly closing shut-off device, for example, a ball valve on the vacuum connection. Then the test bells are placed on the area to be tested and evacuated as usual. After reaching the testing pressure, the shut-off device is closed and the vacuum pump is switched off at the same time.

The time is measured with the closing of the shut-off device. Depending on the size of the leak, the pressure increase will be read off the Manometer in a time span of  $10$  to  $30$  s. The capacity of the test bell No. 305 is  $8$  l in testing state.

The specific leakage rate can be calculated from the measured values according to the following formula:

$$L = \frac{\Delta p \cdot V}{t}$$

$\Delta p$  = measured difference in pressure in mbar

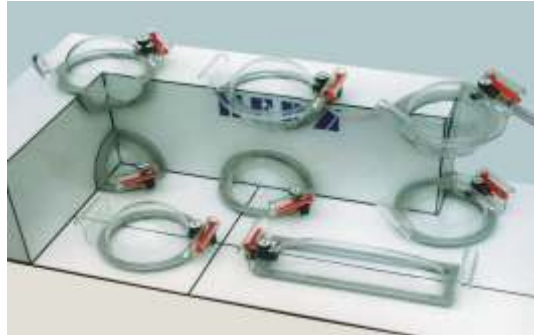
$V$  = content of test bell in testing state (No. 305:  $8$  l)

$t$  = measured time in sec.

Vacuum seam testing systems are used for testing any container surfaces and sealings. Thanks to the highly elastic seal, testing of mutually perpendicular surfaces is possible also in the case of minor angular misalignment.

A tissue-reinforced PVC hose is available as a connecting piece between the vacuum compressor and the test bell jars.

**Order no.: 5200340**



700x220 mm long  
**Order no: 5200300**



360 mm round  
**Order no: 5200305**



Inside corner, bottom 1/8  
**Order no: 5200310**

**All testing bells also available with 1.0 accuracy.**



Fillet weld, inside 2/8  
**Order no: 5200315**



Outside corner, bottom 3/8  
**Order no: 5200320**



Inside corner, top 5/8  
**Order no: 5200325**



Outside edge 6/8  
**Order no: 5200330**



Outside corner, top 7/8  
**Order no: 5200335**



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