



Comprehensive Abrasion Test

TB5000 and TB5005

The Comprehensive Abrasion Test is a universal test machine to test the coating abrasion resistance on beverage cans or flat materials.

The reciprocating motion mimics in-the-field transportation abrasion damage of coatings equivalent to the Gavarti Associates "GV-CAT" system.

Application

The Comprehensive Abrasion Test is used in coating test laboratories for quality control work.

Standards:

- IEC 61326-1 – EMC
- IEC 61340-5-1 – ESD
- IEC 61010-1 – Safety requirements for electrical equipment
- Directive 2011/65/EU, RoHS2

Features:

- Test abrasion resistance of coatings
- Reciprocating motion of beverage cans
- Mimics in-the-field transportation damage
- Menu-driven operation
- Spill drawer

Ordering Information:

Article No. Article Description

TB5000 Comprehensive Abrasion Test 230 VAC

TB5005 Comprehensive Abrasion Test 115 VAC

Scope Of Supply:

- TQC Comprehensive Abrasion Test + Power cord + User and installation manual
- Laptop computer with Windows 10 + CAT control application + USB cable
- Three sets (60, 80 and 100mm) of two side plate assembly + top pressure plate assembly + bottom can carrier plate
- 5 m air tube Ø6mm + 4 mm hexagonal wrench + can positioning bar

Accessories:

Article No. Article Description

TB5282	Set of two side pressure plates *1assembly for small size cans (height: 60 mm/2.36 inch)
TB5280	Set of two side pressure plates *1assembly for medium size cans (height: 80mm/3.15 inch)
TB5281	Set of two side pressure plates *1assembly for large size cans (height: 100mm/3.94 inch)
TB5285	Top pressure plate *1assembly for all size cans
TB5284	Bottom can carrier plate *1assembly for all size cans
TB5329	Set of two foam rubber base sheets for use with TB5282 (height: 60mm/2.36inch)
TB5325	Set of two foam rubber base sheets for use with TB5280 (height: 80mm/3.15inch)
TB5327	Set of two foam rubber base sheets for use with TB5281 (height: 100mm/3.94inch)
TB5337	Set of two foam rubber base sheet for use with fabric woven top sheet on TB5284 or TB5285
TB5330	Set of two fabric woven top sheets for use with TB5282 (height: 60mm/2.36inch)
TB5326	Set of two fabric woven top sheets for use with TB5280 (height: 80mm/3.15inch)
TB5328	Set of two fabric woven top sheets for use with TB5281 (height: 100mm/3.94inch)
TB5336	Set of two fabric woven top sheets for use with TB5284 or TB5285
TB5334	Set of two para rubber top sheets for use with TB5282 (height: 60mm/2.36inch)
TB5332	Set of two para rubber top sheets for use with TB5280 (height: 80mm/3.15inch)
TB5333	Set of two para rubber top sheets for use with TB5281 (height: 100mm/3.94inch)
TB5331	Set of two foam rubber base sheets for use with para rubber top sheet on TB5284 or TB5285
TB5335	Set of two para rubber top sheets for use with TB5284 or TB5285
TB5283	Can positioning bar
TB5117	5m air tube Ø6mm
VF1811	4mm hexagonal wrench
AB5500	Set of four flat panel test blocks
TB5270	Set of six custom can inserts, please specify height and diameter

*1Plate assembly with foam rubber base and fabric woven top sheet

Technical Specification:

Weight	125kg/276lbs
Dimensions	(WxHxD) 1050x790x760mm/ 3.44x2.6x2.5ft
Stroke length	0.5 to 2inch
Frequency	0 to 2.5Hz
Ramp up/down time	0.25Hz per cycle
Test duration	0 to 24 hours
Pressure top cylinder	0 to 6 bar/0 to 87 psi
Pressure side cylinders	0 to 6 bar/0 to 87 psi
Can size	150 to 1000ml 5.07 to 33.8fl. oz. (US) 5.28 to 35.2fl. oz. (UK)
Min/max can height	88 to 205mm/3.5 to 8.1inch
Min/max can diameter	53 to 84mm/2.1 to 3.3inch
Operating temperature	0 to 50°C/32 to 122°F
Operating humidity	0 to 90% rH (non-condensing)
Power supply	115 VAC o3 230 VAC
Max. power consumption	265 Watt
Air supply	8 bar ± 20%
Noise Level	< 70 dB

Special Care:

- Clean leakage and spill from beverages with hand warm water and if required use a mild soap
- Do not use solvents or chemicals to clean the machine and/or high-pressure wash
- Always clean the instrument after use. Sugar and other ingredients form a sticky or hard layer on the inner components of the machine, which eventually may lead to malfunctioning
- Clean the instrument using a soft dry cloth or moderate moistened towel. Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This, like the use of aggressive cleaning agents may cause permanent damage
- Do not use compressed air to clean the instrument
- Make sure that no grinding, liquid or any other material is left behind in the test compartment

Disclaimer:

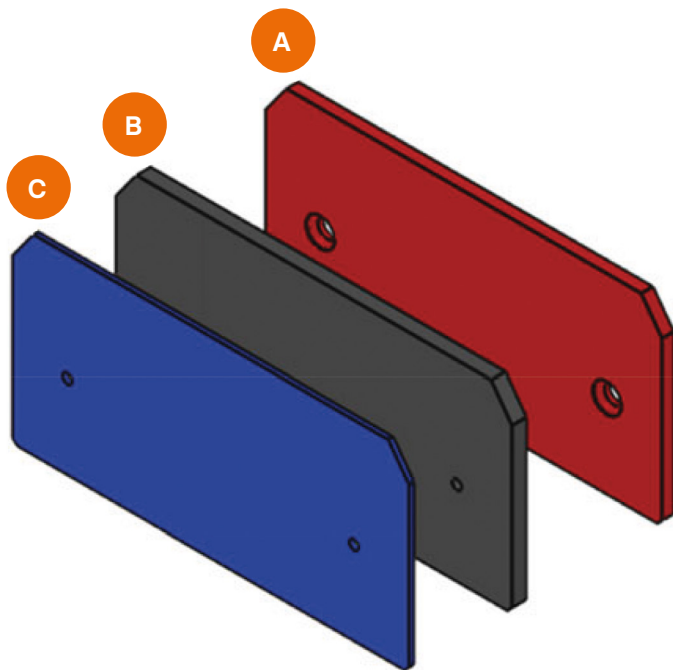
The right of technical modifications is reserved.

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Annex A – Side Pads Configuration:

Foam rubber base and fabric woven top sheet:

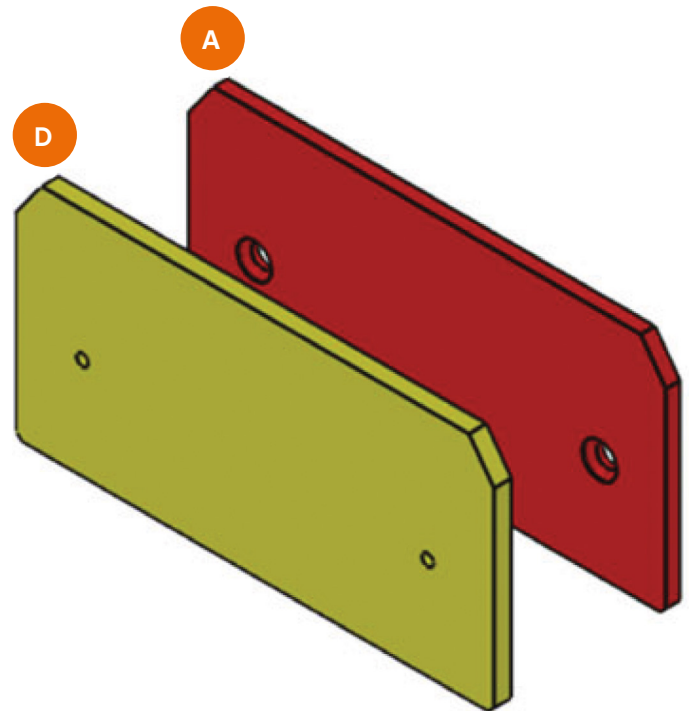
A	TB5290	Height: 60mm/2.36inch
A	TB5288	Height: 80mm/3.15inch
A	TB5289	Height: 100mm/3.94inch
B	TB5329	Height: 60mm/2.36inch
B	TB5325	Height: 80mm/3.15inch
B	TB5327	Height: 100mm/3.94inch
C	TB5330	Height: 60mm/2.36inch
C	TB5326	Height: 80mm/3.15inch
C	TB5328	Height: 100mm/3.94inch



Annex B – Top And Bottom Pad Configuration:

Para rubber top sheet:

A	TB5290	Height: 60mm/2.36inch
A	TB5288	Height: 80mm/3.15inch
A	TB5289	Height: 100mm/3.94inch
D	TB5334	Height: 60mm/2.36inch
D	TB5332	Height: 80mm/3.15inch
D	TB5333	Height: 100mm/3.94inch



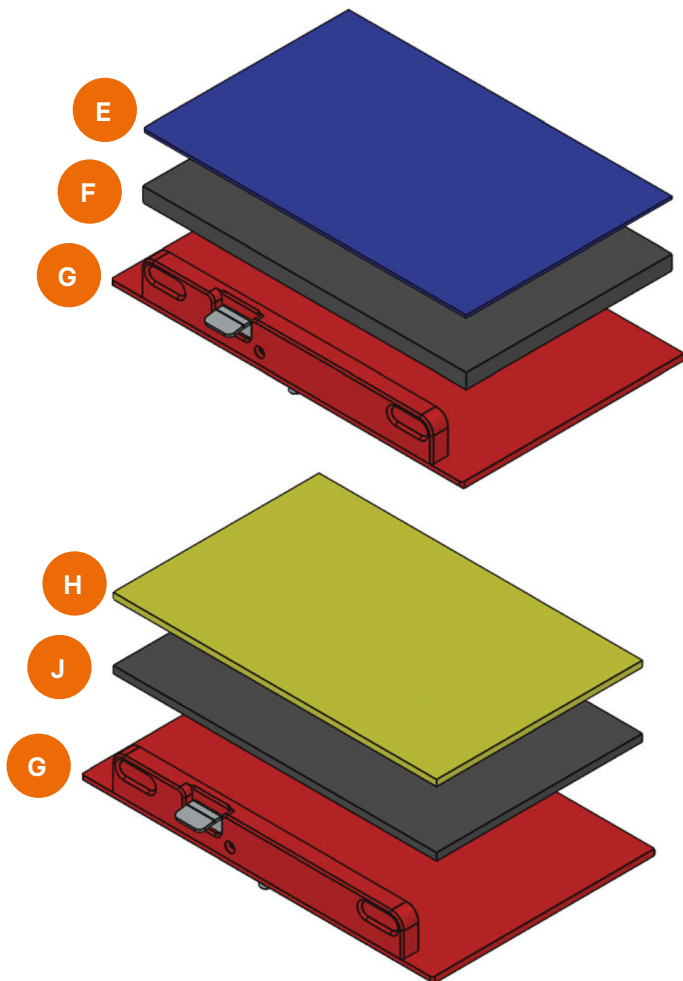
Annex B – Top And Bottom Pad Configuration:

Foam rubber base and fabric woven top sheet:

- E TB5336** Set of two fabric woven top sheets for use with bottom-plate or top-plate
- F TB5337** Set of two foam rubber base sheet for use with bottom-plate or top-plate
- G TB5299** Bottom can carrier plate without sheets

Para rubber top sheet:

- H TB5335** Set of two para rubber top sheets for use with TB5284 or TB5285
- J TB5331** Set of two foam rubber base sheets for use with para rubber top sheet on TB5284 or TB5285
- G TB5299** Bottom can carrier plate without sheets



Annex C – Can Inserts:

As can dimensions vary, TQC supplies custom size can inserts for your cans.

- K TB5270** Set of six custom can inserts K

Technical Specification:

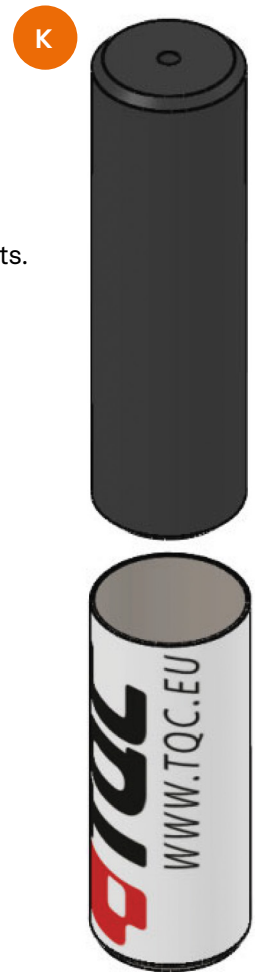
Diameter: Please specify

Height: Please specify

Material: POM

To get an exact fit please send us an example of your cans.

This will allow TQC to produce a set of perfect sized can-inserts.



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