

Tumbling Barrel Test



Note image for Reference only not same one

Application

The Tumbling Barrel Test simulates repeated falls which may occur to such devices as connectors or small remote control units which are normally attached to cables during use.

The Tumbling Barrel Tester is the recommended instrument to perform such a test. A barrel is turned at a rate of three revolutions per minute resulting in ten falls per minute. The sample falls from a height of 1200 mm on to a steel plate that is 3mm / 5mm thick and backed by 19mm thick hardwood. The number of falls is set by the user in accordance to the standard they are meeting. After the tumble barrel procedure, the specimen is checked visually, mechanically, and electrically as prescribed in the relevant specification.

Instrument

The SESS –TBT, Tumbling Barrel Tester is made to the specifications set forth in major international standards. The barrel is made of 1.5mm thick steel as specified. Many competitive barrels are made of wood. The drop height is 1200mm onto a 5mm thick steel plate backed by 19mm thick hardwood. The resting area is backed with chip-resistant rubber and the sliding surface is Formica.

The SESS Tumbling Barrel Tester a large clear acrylic access door for easy viewing and access to the chamber. Models are offered with a standard barrel with a drop height of 1000mm.

Features

- Frame that can accept barrels with higher drop heights
- Impact floors of 5mm steel back with 19mm hardwood
- Rubber block with 80 IRHD hardness in resting areas
- Enclosed motor, gearing, and controls for operator safety
- Large clear acrylic door for easy accessibility and viewing
- User friendly controller with programmable counter and test progress display

Specification

- Barrel – one number in a single machine
- Drive speed from 3 RPM to 20 RPM
- Barrel wall thickness 1.5 mm

Model Selection

TBT	1000	500	B1	Count	5	WW
STD	Fall Height	Chute Length	Barrel Qty	Count – RPM counter based PLC - PLC with HMI Based	In mm Sheet Bottom Impact Surface	WW - With wood 19 mm WOW - Without Wood

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Model : TBT 1000 x 500 / B1/XX

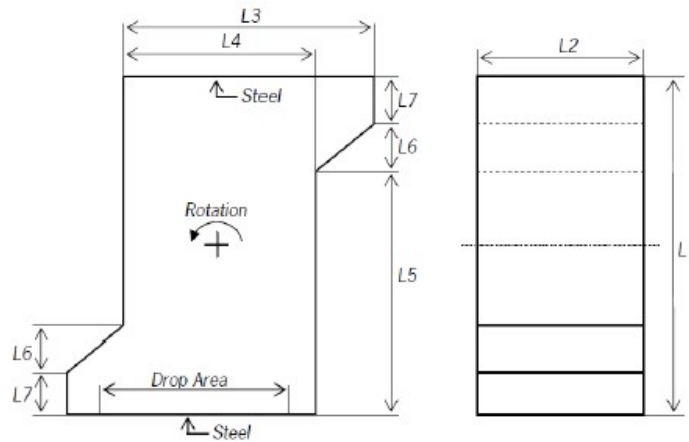
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Drop test (with unused contact housings, see batch size)

See figure 5

To test the stability of the contact housing and the locks, the contact housings (with cables cut off right behind the contact housing) are tested in a rotating drum (see DIN EN 60068-2-31* VDE 0468-2-31):

- Test at RT
- All DUTs are tested at the same time
- Rotational speed: e.g., 3 rpm (the speed must be set so that all parts strike in the drop area)
- Number of rotations: 30
- Thickness of the steel plate in the drop area: ≥ 5 mm



Legend

- | | | | |
|------|----------|-----------|----------|
| L1 = | 1 200 mm | L4 = | 500 mm |
| L2 = | 500 mm | L5 = | 1 000 mm |
| L3 = | 700 mm | L6 = L7 = | 100 mm |

Figure 5 – Drop test in drum

Technical Features:

Model	TBT 1000 x 500 / B1
Power Supply	220V 50Hz or 115V 60Hz
Barrel Wall Thickness	1.5mm
Inner Height	1200 mm
Fall Height	1000 mm
Chute Length	500 mm
Bottom Impact Surface	5 mm steel



Model: TBT 1000 x 500/B2

Introduction:

IEC60068 Mobile Phone Drum Drop Tester is suitable for the mobile phone, PDA, electronic dictionaries, CD, MP3, remote control device and other small portable electronic products which need continuous rotary free falling testing. TBT 1000 x 500/B2 has two testing zones which can do the test at the same time, through the testing times reach to setting, then check the testing samples are damage or not.

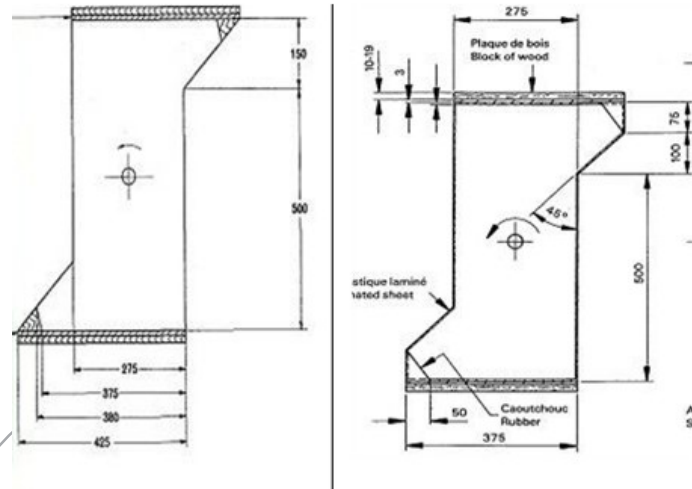
Specification:

Test Speed	5~20 times/min
Drop of Height	500mm and 1000mm
Free Fall Zones	Two
Timer	1~999999 adjustable
Max. Load	5Kg
Power	AC220V
External dimension	1500*1300*1150mm
Weight	about 200Kg





Tumbling Barrel Apparatus IEC60065



Application:

The Tumbling Barrel Test simulates repeated falls which may occur to such devices as connectors or small remote control units which are normally attached to cables during use. The Tumbling Barrel Tester is the recommended instrument to perform such a test. A barrel is turned at a rate of five revolutions per minute resulting in ten falls per minute. The sample falls from a height of 500mm on to a steel plate that is 3mm thick and backed by 19mm thick hardwood. The number of falls is set by the user in accordance to the standard they are meeting. After the tumble barrel procedure, the specimen is checked visually, mechanically, and electrically as prescribed in the relevant specification.

Specification:

Tumbling Barrel Tester is made to the specifications set forth in major international standards. Tumbling Barrel Tester employs a large clear acrylic access door for easy viewing and access to the chamber. Models are offered with a standard barrel with a drop height of 500mm. Barrels of other sizes are available as well for standards such as IEC-60312 or DIN-60312 where a drop height of 800mm (or 1000mm) is required.

Advantages from Auto strong:

- ✓ High quality ,Long life time and Competitive price
- ✓ Best after Service: Professional R&D and technical team support can make OEM & ODM order, and also can provide overall laboratory solutions, and good service.
- ✓ Strict quality control, more than 24hours before shipping and with 1year warrant
- ✓ Short lead time and fast delivery

Technical Parameters:

Model	TBT 500x 275 / B1	TBT 1000 x 275 / B1	TBT 500 /1000 x 275 / B2
Power Supply	220V 50Hz or 115V 60Hz	220V 50Hz or 115V 60Hz	220V 50Hz or 115V 60Hz
Barrel Wall Thickness	1.5mm	1.5mm	1.5mm
Inner Height	650mm	1175mm(for 1m fall height)	675mm or 1175mm(for 1m fall height)
Fall Height	500mm	1000mm	500mm or 1000mm
Chute Length	275mm	275mm	275mm
Bottom Impact Surface	3mm steel	3mm steel backed with 19mm hardwood	3mm steel backed with 19mm hardwood
Dimension (mm)	W*D*H=630x 600x 1250	W*D*H=630x 600x 1250	W*D*H=630x 600x 1250
Conforms to standard	IEC60068-2-31,IEC60068-2-32	IEC60068-2-31,IEC60068-2-32	IEC60068-2-31,IEC60068-2-32

HSN code: 90318000, SAC code: 998719

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