

1



Dongguan Hust Tony Instruments Co.,Ltd

东莞华科东尼仪器有限公司

Addr: No. 1 Tech 9 Road, High - New Tech Development Zone, Songshan Lake,
Dongguan City 523808, China

Tel: 86-769-23010657

Fax: 86-769-23010667

Email: Addams@tonyhk.hk

ASTM Flexure Tester TW-247A-Manufacturer-Hust Tony



Product Introduction

Bending splints are used to test whether wire or other metal materials that add rigidity or fix appearance in toys are dangerously sharp tips or sharp edge protrusions due to breakage during bending (or abuse).

It is a toy abuse test project.

Bending test splint product information

- 1.Made of stainless steel
- 2.American, European and Chinese national standards have different requirements for the size of the test board.
- 3.**Application:** Bending test splint is used to test whether the metal wire or rod that plays a soft support role in the toy is dangerous due to fracture during bending and use.

Technical Parameters

Model	TW-247A	
Material	Made of stainless steel	
Test Angle	120 degrees	
Dimensions	100mm×88mm×25mm	
Weight	50g	
Standards	ASTM F963 2011.8.12	
Optional Accessories	IMADA FB-200N Push-Pull Scale	1 Set
	TW-220 Sharp Edge Tester	1 Set
	TW-221 Sharp Point Tester	1 Set
	TW-003 Bench Vice	1 Set

Scope of application

Toys containing wire and rods for soft support for children 96 months and younger.

How to use and understand the flexure test splint?

1. Attach the toy to a vise fitted with a curved splint, test the part vertically, and flex the wire 120° in the opposite direction.

2. The 2in position of the test object is bent vertically with 60°, if the size is not enough for the 2in force to select the chart of the test;

Age Group	United States Standard	European Standard	Chinese Standards
Test all forces	Test all forces	Test all forces	Test all forces
0 ~ 18 months	10±0.5LBS	70±20N	70 N ±2 N
18~36 months	15±0.5LBS	70±20N	70 N ±2 N
36~96 months	10±0.5LBS	70±20N	70 N ±2 N

3. Regardless of whether the metal wire or rod is wrapped with other materials (plastic, rubber), it must be subjected to a deflection test.

4. During the test, pay attention to the frequency of deflection. If the deflection speed is too fast, the accuracy of the test results will be affected.

5. **The rod antenna used in remote control toys does not need to perform this test.** This test applies to the metal wires and rods that play a soft support role. The rod antenna has a certain rigidity and is not soft.

Judgment: If the test object has sharp edges, sharp points, and small objects (under three years old), it is considered unqualified.

Standards:

ASTM F963 2011.8.12