



## TEST REPORT

Mechanical & Hardgoods Laboratory

Report No. : TH70116/2017

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Date : AUG. 01, 2017

**The following merchandise was submitted and identified by the applicant as:**

**Product Description:** 17H (3/8" Dr.) & 22H (1/2" Dr.) Insert-Snap Wrench

**We have tested the submitted sample(s) as requested and the following results were obtained:**

**Test Requested:** Durability Test (Life test)

**Test Method:**

- Install the sample in the fixture then secure them on the torque test machine.
- Apply a repeating torque to the sample with requested test conditions, then test until it is damaged or completed the test cycles.

**Test Result:** --See following sheet(s)--

**Date of Receipt:** JUL. 11, 2017

**Testing Period:** JUL. 12, 2017 ~ JUL. 31, 2017

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Signed for and on behalf of  
SGS Taiwan Ltd.



Kaini Chen  
Team Leader



Testing Place: No. 9, 14th Rd., Taichung Ind. Park, Taichung City 40755, Taiwan

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### Test Result:

Sample	Test Conditions	Result (Cycles)	Result
17H (3/8" Dr.) Insert-Snap Wrench	1. Adjustable Position: Clockwise. 2. Test Torque: 60.6 N-m. 3. Test Cycles: 20,000 cycles. 4. Test Frequency: 18 cycles/min.	20,000	No function failed after testing.
	1. Adjustable Position : Counterclockwise. 2. Test Torque: 60.6 N-m. 3. Test Cycles: 20,000 cycles. 4. Test Frequency: 18 cycles/min.	20,000	No function failed after testing.
22H (1/2" Dr.) Insert-Snap Wrench	1. Adjustable Position: Clockwise. 2. Test Torque: 153.6 N-m. 3. Test Cycles: 20,000 cycles. 4. Test Frequency: 18 cycles/min.	20,000	No function failed after testing.
	1. Adjustable Position: Counterclockwise. 2. Test Torque: 153.6 N-m. 3. Test Cycles: 20,000 cycles. 4. Test Frequency: 18 cycles/min.	20,000	No function failed after testing.



Note. 1. The gear mechanism of sample advanced at 15°.

2. Test conditions was provided by the applicant.

3. Test torque follows 30% of min. proof torque of DIN Standard.

(DIN Standard provided by the applicant: 3/8"Dr. Wrench: 202N-m , 1/2"Dr. Wrench: 512N-m)

### – Picture(s) –

	
Photo "A" Appearance of sample -17H (3/8" Dr.) Insert-Snap Wrench	Photo "B" Appearance of sample -22H (1/2" Dr.) Insert-Snap Wrench

--- End of Report ---