

PRODUCT MANUAL FOR HOUSEHOLD ZIG-ZAG SEWING MACHINE HEAD GENERAL REQUIREMENTS ACCORDING TO IS 15449 (Part 1):2004

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure coherence of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations, 2018 for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification licence/certificate.

1.	Product	:	IS 15449 (Part 1):2004				
	Title	:	Household Zig-Zag Sewing Machine Head - General Requirements				
	No. of Amendments	:	Nil				
2.	Sampling Guidelines:						
a)	Raw material	:					
b)	Grouping guidelines	:	Sewing Machine Head of each Design (Single or Twin or Both Needle) shall be tested separately for GoL/CSoL.				
c)	Sample Size	:	One				
3.	List of Test Equipment	:	Please refer ANNEX – A				
4.	Scheme of Inspection and Testing	:	Please refer ANNEX – B				
5.	Possible tests in a day	:	All tests				
6.	Scope of the Licence:						
	Licence is granted to use Standard Mark as per IS 15449 (Part 1):2004 with the following scope:						
	Name of the product	Household Zig-Zag Sewing Machine Head					
	Туре	Single or Twin or Both Needle					

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ANNEX-A

List of Test Equipment

Major test equipment required to test as per the Indian Standard

Sl. No.	Tests used in with Clause	Test Equipment					
	Reference						
1	General measurement, Construction, Cl.3	Vernier caliper, Micrometer, V Block					
2	Painting, 6.2	Hot air Oven					
3	Accuracy requirements, Cl. 8.2	Surface plate, height gauge, puppy dial indicator, feeler gauge, slip gauges, Tachometer, Dial indicator,					
4	Durability requirements, Cl. 8.4	Durability test ring (for durability test)					
5	Sewing requirement, Cl. 8.3	nent, Cl. 8.3 Needles, various types of threads and sewing material.					

The above list is indicative only and may not be treated as exhaustive.

ANNEX B

Scheme of Inspection and Testing

- **1. LABORATORY** A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.
- **1.1** The manufacturer shall prepare a calibration plan for the test equipments.
- **2. TEST RECORDS** The manufacturer shall maintain test records for the tests carried out to establish conformity.
- **3. LABELLING AND MARKING** As per the requirement of IS 15449 (Part 1):2004.
- 4.CONTROL UNIT- Sewing machine heads of same model and design or part thereof manufactured in a day shall constitute a control unit
- **5. LEVELS OF CONTROL** The tests as indicated in column 1 of Table 1 and the levels of control in column 3 of Table 1, shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.
- **5.1** All the production which conforms to the Indian Standards and covered by the licence should be marked with Standard Mark.
- **6. REJECTIONS** Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act, 2016.

TABLE 1

(1)				(2)	(3)		
Test Details				Test equipment	Levels of Control		
Cl.	Requirement	equirement Test Method		requirement	No. of Frequency		Remarks
		Clause	Reference	R: required (or) S: Sub-contracting permitted	Sample		
3	Sewing mechanism	3.1 to 3.9	IS 15449 (Part 1)	R	Ea	ch Machine	
5	Lubrication	5	IS 15449 (Part 1)	R	Each Machine		
6	Workmanship and Finish	6.1, 6.3 to 6.9	IS 15449 (Part 1)	R	Each Machine		
6.2	Painting	6.2	IS 15449 (Part 1)	R	One	Each Control Unit	
8.1	Accuracy requirement		IS 15449 (Part 2)	R	Two	Each Control Unit	If any of the machines fail in any one or more than one requirement, then each machine of the control unit shall be checked for that characteristics in which failure has occurred and only those machines conforming to the characteristics shall be considered for marking.
8.2	Sewing requirements		IS 15449 (Part 3)	R	Two	Each control unit	In case of failure, double the number of machines shall be checked and only when no
8.3	Durability test		IS 15449 (Part 4)	R	Two	Each control unit	failure is observed, machines shall be marked.
9	Accessories in service box	9	IS 15449 (Part 1)	-	Each Machine		
11	Packaging requirements	11	IS 15449 (Part 1)	-	Ea	ch Machine	

Note-1: Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

Note-2: Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval by BO Head.