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भारतीय मानक मसौदा
डेंटल जिंजिवल मार्जिन ट्रिमर — विशिष्टि
[IS 5178 का पहला पुनरीक्षण]

Draft Indian Standard
Dental Gingival Margin Trimmers — Specification
[First Revision of IS 5178]

[ICS 11.060.20]

Dentistry Sectional Committee, MHD 08

Last date for comments:
06 September 2024

FOREWORD

(Formal clause will be added later)

This standard was originally published in 1969 as 'Specification for Gingival Margin Trimmers, Dental, No. GMT 1/2, 3/4, 5/6 and 7/8'. This revision aligns the cross references to the latest standards, incorporates revised designations for steel and revised certification clause.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressing the result of a test or analysis shall be rounded off in accordance with IS 2: 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1 SCOPE

This standard specifies dimensions and requirements of dental gingival margin trimmers, No. GMT 1/2, 3/4, 5/6 and 7/8.

2 REFERENCES

The standards given below contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of these standards.

<i>IS No.</i>	<i>Title</i>
IS 3889 : 1985	Specification for chisels, dental (<i>First Revision</i>)
MHD/08/20630	Cutting Type Dental Instruments — General Requirements (<i>Second Revision</i>)
IS 1068 : 1993	Electroplated coatings of nickel plus chromium and copper plus nickel plus chromium — Specification (<i>Third Revision</i>)

3 SHAPES AND DIMENSIONS

The shape and dimensions shall be as shown in Fig. 1 and 2 (see page 2).

3.1 Handle

The handle shall conform to **4.3** of IS 3887.

4 MATERIAL

The material shall be as given in **5** of IS 3887.

5 WORKMANSHIP AND FINISH

5.1 Cutting Edge - The edge shall be properly sharpened and shall be free from burrs, feathers, nicks and waviness.

5.2 A slight curvature shall be incorporated into the blade of the instrument, the convexity of which shall lie on the same side as the bevel of the cutting edge.

5.3 Stainless steel instruments shall be suitably passivated and finished bright all over. The carbon steel instrument shall be plated chromium over nickel and the plating shall conform to Service Grade No. 2 of IS 1068.

6 HEAT TREATMENT

The stainless steel instrument shall be hardened and tempered throughout to 400 to 480 HV, while in case of carbon steel instruments only working ends of the instruments shall be hardened and tempered to 550 to 600 HV,

7 TESTS

7.1 Performance

The performance test shall be done as given in 8.1 of IS 3889.

7.2 Corrosion Resistance

The corrosion test shall be done as given in 9.1 of IS 3887.

8 MARKING

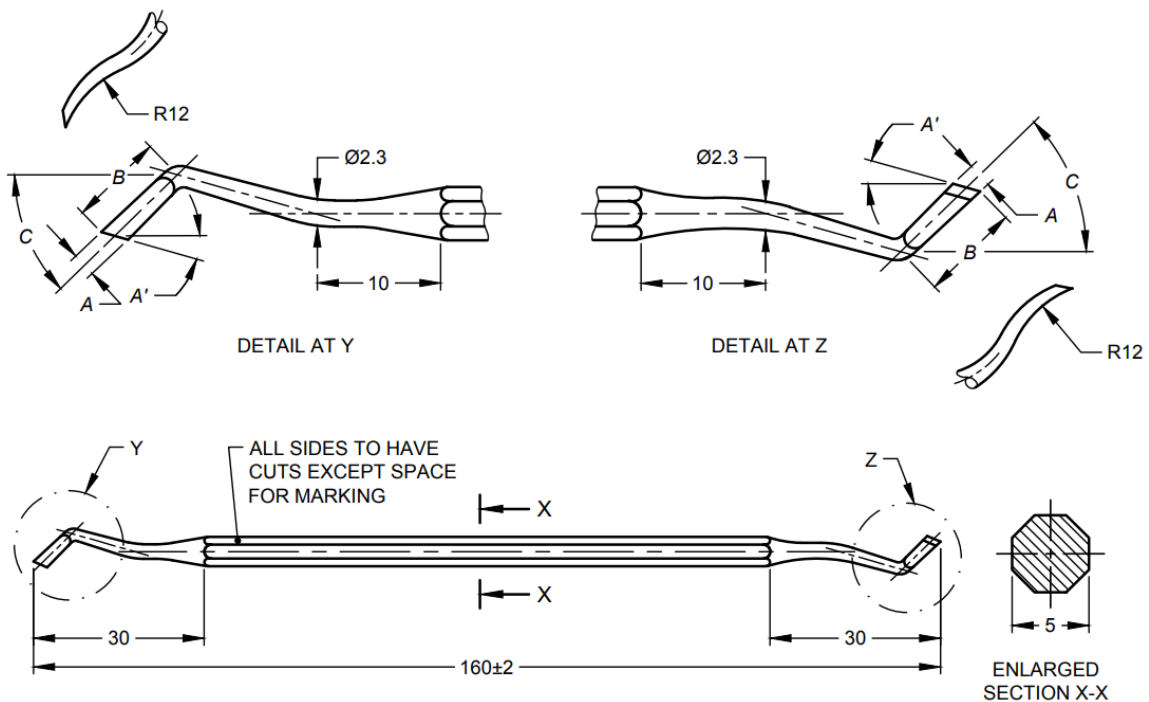
8.1 The space on the handle shall be marked with the number of the instrument, initials or trade-mark and the country of manufacture. Stainless steel instruments shall also be marked with the letters 'SS'.

8.2 BIS Certification Marking

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed there under, and the product(s) may be marked with the Standard Mark.

9 PACKING

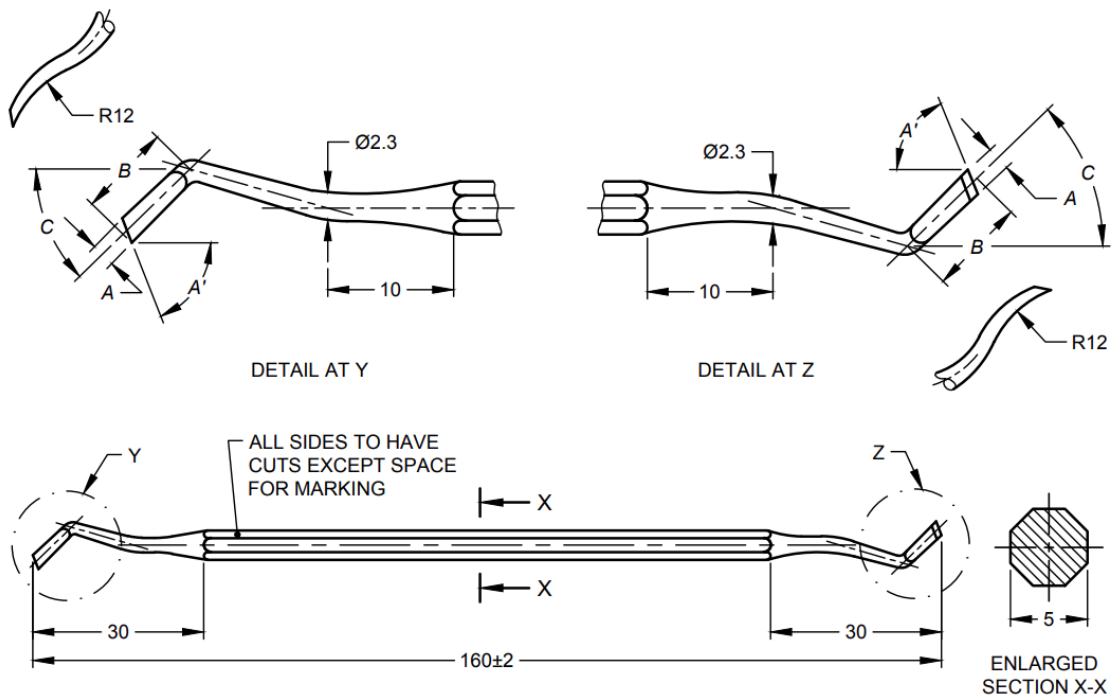
The packing shall be done as specified in 11 of IS 3887.



	A	A'	B	C
GMT 1/2	2	20°	9	45°
GMT 3/4	1.5	20°	8	45°

All dimensions in millimetres.

Fig. 1 Gingival Margin Trimmers, Dental, No. GMT 1/2 And 3/4



	A	A'	B	C
GMT 5/6	2	70°	9	45°
GMT 7/8	1.5	70°	8	45°

All dimensions in millimetres.

Fig. 2 Gingival Margin Trimmers, Dental, No. GMT 5/6 And 7/8