

Hand-held electric motor-operated tools —

Part 2: Particular requirements —

Section 2.12 Specification for chain saws —

(Implementation of CENELEC HD 400.3 Section L S2)

IMPORTANT NOTE. Before reading this Section it is essential to read
BS 2769-2.0 “*General introduction and list of Sections*” published separately.

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Light Electrical Engineering Standards Policy Committee (LEL/-) to Technical Committee LEL/161, upon which the following bodies were represented:

- Association for Consumer Research (ACRE)
- Association of Consulting Scientists
- Association of Control Manufacturers TACMA (BEAMA Ltd.)
- Association of Manufacturers of Domestic Electrical Appliances
- British Cable Makers' Confederation
- British Electrotechnical Approvals Board
- British Gas plc
- British Lawn Mower Manufacturers' Federation
- British Retailers' Association
- Catering Equipment Manufacturers' Association
- Consumer Policy Committee of BSI
- Department of Trade and Industry (Consumer Safety Unit, CA Division)
- Electrical Installation Equipment Manufacturers' Association (BEAMA Ltd.)
- Electricity Association
- ERA Technology Ltd.
- Home Office
- Institute of Trading Standards Administration
- Institution of Electrical Engineers
- Lighting Industry Federation Ltd.
- Loss Prevention Council
- Portable Electric Tool Manufacturers' Association
- Rotating Electrical Machines Association (BEAMA Ltd.)
- Royal Society for the Prevention of Accidents
- Small Electrical Appliances Marketing Association
- South of Scotland Electricity Board

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- Association of Manufacturers Allied to the Electrical and Electronic Industry (BEAMA Ltd.)
- Association of Supervisory and Executive Engineers
- Department of Trade and Industry [Mechanical Engineering and Manufacturing Technology Division (Mmt)]
- Health and Safety Executive
- Hire Association Europe
- Radio Electrical and Television Retailers' Association

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Contents

	Page
Committees responsible	Inside front cover
Foreword	ii
1 Scope	1
2 Definitions	1
3 General requirement	1
4 General conditions for the tests	1
5 Rating	1
6 Classification	1
7 Marking	1
8 Protection against electric shock	2
9 Starting	3
10 Input and current	3
11 Heating	3
12 Leakage current	3
13 Radio interference suppression	3
14 Moisture resistance	3
15 Insulation resistance and electric strength	3
16 Endurance	3
17 Abnormal operation	3
18 Mechanical hazards	3
19 Mechanical strength	4
20 Construction	4
21 Components	4
22 Internal wiring	4
23 Supply connection and external flexible cables and cords	5
24 Terminals for external conductors	5
25 Provision for earthing	5
26 Screws and connections	5
27 Creepage distances, clearances and distances through insulation	5
28 Resistance to heat, fire and tracking	5
29 Resistance to rusting	5
Appendix A Thermal cut-outs and overload releases	7
Figure 12.1 — Chain saw dimensions	5
Figure 12.2 — Test probe	6
Figure 12.3 — Handle insulation impact test apparatus	6
Publication(s) referred to	Inside back cover

Foreword

This Section of BS 2769 is technically equivalent to CENELEC HD 400.3 Section L S2 except that it has been amended by declared UK deviations to the harmonization document; these have been included in the text and are indicated by a side line in the margin. It replaces BS 2769-2.12:1984 which is withdrawn.

Product certification. Attention is drawn to the fact that products conforming with this British Standard may be approved by BSI Quality Assurance, and that such certification may be used for the purposes of participation in the CENELEC Certification Agreement. (Details of the BSI certification marks are given on the inside back cover.)

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope

This Section of BS 2769, together with the requirements of Part 1 to which reference is made, specifies requirements, including safety requirements, for hand-held electric motor-operated chain saws. Chain saws operated by two persons are excluded from the scope of this Section.

NOTE The titles of the publications referred to in this standard are listed on the inside back cover.

2 Definitions

The definitions given in BS 2769-1:1984 apply, subject to the following modification to **2.20** and the addition of **2.33** to **2.41**.

Modification

2.20

normal load

the load obtained when the chain saw is operated continuously, the load being such that the input, in watts, is equal to rated input

NOTE 1 The normal load is based on the rated voltage or on the upper limit of the rated voltage range.

NOTE 2 For tests carried out at normal load, the chain and bar may be removed and the driving wheel of the saw chain loaded by means of a brake.

Additions

2.33

chain brake

a device used to stop the saw chain

2.34

drive sprocket

the toothed part that drives the saw chain

2.35

front handle

the support handle located at or towards the front of the chain saw

2.36

guide bar

the part that supports and guides the saw chain

2.37

kickback

the upwards and/or backward motion of the guide bar that may occur when the nose of the saw chain unexpectedly contacts an object

2.38

rear handle

the support handle located at or towards the rear of the chain saw

2.39

saw chain

a loop of chain having cutting teeth that is driven by the motor and is supported by the guide bar

2.40

spiked bumper

a part fixed to the casing, parallel to the guide bar, used as a pivot whilst sawing

2.41

maximum cutting length

the length of the cutting tool measured from the root of the spiked bumper (spike) to the foremost edge of the cutter as indicated in Figure 12.1

3 General requirement

Clause 3 of BS 2769-1:1984 shall apply.

4 General conditions for the tests

Clause 4 of BS 2769-1:1984 shall apply.

5 Rating

Clause 5 of BS 2769-1:1984 shall apply.

6 Classification

Clause 6 of BS 2769-1:1984 shall apply.

7 Marking

Clause 7 of BS 2769-1:1984 shall apply subject to the following additions to **7.1**, **7.6** and **7.13**.

7.1 Chain saws shall be marked with:

- (l) maximum cutting length as shown in Figure 12.1, in millimetres;
- (m) indication of direction of rotation of the chain;
- (n) a warning of the following substance: “**Attention**”. Do not expose this tool to rain, and disconnect from the supply immediately if the supply cable is damaged or cut.

This warning shall be given in English. However, instead of these texts the symbols given in **7.6** expressing the same meaning may be used.

The direction of rotation of the chain shall be clearly indicated by an arrow, raised or sunk, or by any other means no less visible and indelible.

For chain saws other than those of the “ordinary” type of protection the first warning need not be marked on the tool itself; for these designs the instructions as given in **7.13** are deemed to be sufficient.