

# Hand-held motor-operated electric tools — Safety —

## Part 2-20: Particular requirements for band saws

The European Standard EN 60745-2-20:2003 has the status of a  
British Standard

ICS 25.140.20

## National foreword

This British Standard is the official English language version of EN 60745-2-20:2003. It was derived by CENELEC from IEC 60745-2-20:2003.

The CENELEC common modifications have been implemented at the appropriate places in the text and are indicated by tags **[C]** **[C]**.

The UK participation in its preparation was entrusted by Technical Committee CPL/61, Safety of household electrical appliances, to Subcommittee CPL/61/6, Portable motor operated tools, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
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### Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 7 and a back cover.

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**Hand-held motor-operated electric tools –  
Safety  
Part 2-20: Particular requirements for band saws  
(IEC 60745-2-20:2003, modified)**

Outils électroportatifs à moteur –  
Sécurité  
Partie 2-20: Règles particulières  
pour les scies à ruban  
(CEI 60745-2-20:2003, modifiée)

Handgeführte motorbetriebene  
Elektrowerkzeuge –  
Sicherheit  
Teil 2-20: Besondere Anforderungen  
für Bandsägen  
(IEC 60745-2-20:2003, modifiziert)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

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**CENELEC**

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## Foreword

The text of the International Standard IEC 60745-2-20:2003, prepared by SC 61F, Safety of hand-held motor-operated electric tools, of IEC TC 61, Safety of household and similar electrical appliances, together with the common modifications prepared by the Technical Committee CENELEC TC 61F, Safety of hand-held and transportable motor-operated electric tools, was submitted to the formal vote and was approved by CENELEC as EN 60745-2-20 on 2003-09-01.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2004-09-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2006-09-01

Other standards referred to in this European standard are listed in Clause 2. Clause 2 lists the valid edition of those documents at the time of issue of this EN.

This standard is divided into two parts:

Part 1: General requirements which are common to most hand-held electric motor operated tools (for the purpose of this standard referred to simply as tools) which could come within the scope of this standard;

Part 2: Requirements for particular types of tools which either supplement or modify the requirements given in Part 1 to account for the particular hazards and characteristics of these specific tools.

This European Standard has been prepared under a mandate given to CEN and CENELEC by the European Commission and the European Free Trade Association and supports the essential health and safety requirements of the Machinery Directive.

Compliance with the clauses of Part 1 together with this Part 2 provides one means of conforming with the essential health and safety requirements of the Directive concerned.

**Warning:** Other requirements and other EC Directives can be applicable to the products falling within the scope of this standard.

This standard follows the overall requirements of EN 292-1 and EN 292-2.

This Part 2-20 is to be used in conjunction with EN 60745-1:2003. When this standard states "addition", "modification" or "replacement", the relevant text of Part 1 is to be adapted accordingly.

Subclauses, tables and figures which are additional to those in Part 1 are numbered starting from 101.

Subclauses, tables and figures which are additional to those in IEC 60745-2-20 are prefixed "Z".

NOTE In this standard, the following print types are used:

- Requirements: in roman type;
- *Test specification: in italic type;*
- Notes: in smaller roman type.

## Endorsement notice

The text of the International Standard IEC 60745-2-20:2003 was approved by CENELEC as a European Standard with agreed common modifications.

# HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS – SAFETY –

## Part 2-20: Particular requirements for band saws

### 1 Scope

This clause of Part 1 is applicable, except as follows:

#### 1.1 Addition:

This standard applies to **band saws**.

### 2 Normative references

This clause of Part 1 is applicable.

### 3 Definitions

This clause of Part 1 is applicable, except as follows:

#### 3.101

##### **band saw**

tool equipped with an endless loop blade

### 4 General requirements

This clause of Part 1 is applicable.

### 5 General conditions for the tests

This clause of Part 1 is applicable.



### 6 Environmental requirements

This clause of Part 1 is applicable except as follows:

#### 6.1.2.4 Modification:

**Band saws** are suspended. The cutting part of the loop blade shall be horizontal.

#### 6.1.2.5 Modification:

**Band saws** are tested at no-load.

#### 6.2.2.4 Modification:

**Band saws** are tested under the conditions specified in 6.1.2.5.

## **7 Classification**

This clause of Part 1 is applicable.

## **8 Marking and instructions**

This clause of Part 1 is applicable except as follows:

**8.1.101** The direction of rotation of the blade shall be indicated on the tool by an arrow, raised or sunk, or by any other means no less visible and indelible.

## **9 Protection against access to live parts**

This clause of Part 1 is applicable.

## **10 Starting**

This clause of Part 1 is applicable.

## **11 Input and current**

This clause of Part 1 is applicable.

## **12 Heating**

This clause of Part 1 is applicable.

## **13 Leakage current**

This clause of Part 1 is applicable.

## **14 Moisture resistance**

This clause of Part 1 is applicable.

## **15 Electric strength**

This clause of Part 1 is applicable.

## **16 Overload protection of transformers and associated circuits**

This clause of Part 1 is applicable.

## **17 Endurance**

This clause of Part 1 is applicable.

## 18 Abnormal operation

This clause of Part 1 is applicable.

## 19 Mechanical hazards

This clause of Part 1 is applicable.

## 20 Mechanical strength

This clause of Part 1 is applicable.

## 21 Construction

This clause of Part 1 is applicable, except as follows:

### 21.18 *Addition:*

Tools with a no-load speed greater than 125 m/min shall not be equipped with a means of locking the switch in the "on" position.

Ⓒ

### 21.Z1 *Addition:*

**Band saws** are not considered to be tools where a considerable amount of dust is produced. Ⓒ

## 22 Internal wiring

This clause of Part 1 is applicable.

## 23 Components

This clause of Part 1 is applicable.

## 24 Supply connection and external flexible cords

This clause of Part 1 is applicable.

## 25 Terminals for external conductors

This clause of Part 1 is applicable.

## 26 Provision for earthing

This clause of Part 1 is applicable.

### **27 Screws and connections**

This clause of Part 1 is applicable.

### **28 Creepage distances, clearances and distances through insulation**

This clause of Part 1 is applicable.

### **29 Resistance to heat, fire and tracking**

This clause of Part 1 is applicable.

### **30 Resistance to rusting**

This clause of Part 1 is applicable.

### **31 Radiation, toxicity and similar hazards**

This clause of Part 1 is applicable.



## **Annexes**

The annexes of Part 1 are applicable except as follows.

### **Annex K (normative)**

#### **Battery tools and battery packs**

This annex of Part 1 is applicable except as follows:

##### **K.1.1 Addition:**

All clauses of this Part 2 apply unless otherwise specified in this annex.

### **Annex L (normative)**

#### **Battery tools and battery packs provided with mains connection or non-isolated sources**

This annex of Part 1 is applicable except as follows:

##### **L.1.1 Addition:**

All clauses of this Part 2 apply unless otherwise specified in this annex.

## **Bibliography**

The bibliography of Part 1 is applicable.

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