



**NSAI**  
Standards

Irish Standard  
I.S. EN 847-2:2017

# Tools for woodworking - Safety requirements - Part 2: Requirements for the shank of shank mounted milling tools/circular saw blades

**I.S. EN 847-2:2017**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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NSAI  
1 Swift Square,  
Northwood, Santry  
Dublin 9

T +353 1 807 3800  
F +353 1 807 3838  
E standards@nsai.ie  
W NSAI.ie

Sales:  
T +353 1 857 6730  
F +353 1 857 6729  
W standards.ie

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## National Foreword

I.S. EN 847-2:2017 is the adopted Irish version of the European Document EN 847-2:2017, Tools for woodworking - Safety requirements - Part 2: Requirements for the shank of shank mounted milling tools/circular saw blades

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EUROPEAN STANDARD

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English Version

## Tools for woodworking - Safety requirements - Part 2: Requirements for the shank of shank mounted milling tools/circular saw blades

Outils pour le travail du bois - Prescriptions de sécurité  
- Partie 2 : Prescriptions pour les queues des fraises à  
queue

Maschinen-Werkzeuge für Holzbearbeitung -  
Sicherheitstechnische Anforderungen - Teil 2:  
Anforderungen für den Schaft von  
Fräswerkzeugen/Kreissägeblätter

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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

<b>Contents</b>	<b>Page</b>
European foreword.....	3
Introduction .....	4
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions .....	5
4 List of significant hazards .....	6
5 Safety requirements.....	6
5.1 General requirements for cylindrical shank.....	6
5.2 Stability of the shank of shank mounted tools .....	7
5.3 Stability of HSK mounted tools.....	13
6 Marking of tools with cylindrical shank .....	15
Annex A (informative) Examples of calculation.....	17
A.1 Example of calculation of $n_{\text{shank}}$ .....	17
A.2 Examples of calculations of $n_{\text{HSK}}$ .....	18
Annex B (normative) Method of measuring the eccentricity at clamping devices.....	19
Annex C (informative) Recommended minimum clamping forces .....	20
Bibliography.....	21

## **European foreword**

This document (EN 847-2:2017) has been prepared by Technical Committee CEN/TC 142 “Woodworking machines - Safety”, the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2018, and conflicting national standards shall be withdrawn at the latest by May 2018.

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## **EN 847-2:2017 (E)**

### **Introduction**

The content of this European Standard is aimed at eliminating hazards which can lead to overloading of the shank of shank mounted milling tools for woodworking by excessive rotational speeds.



## 1 Scope

This European Standard specifies the determination of the maximum speed for given eccentricity at clamping devices for the shank strength of milling tools with cylindrical and taper shank. It also specifies the marking of the tool. Bore mounted tools e.g. milling tools, circular saw blades which are mounted on an arbor should be considered as a shank mounted tool.

This European Standard complements EN 847-1:2017 and applies also for shank tools with a cutting diameter of less than 16 mm.

This European Standard is not applicable for shanks of tools according to this scope, which are manufactured before the date of its publication.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 847-1:2017, *Tools for woodworking — Safety requirements — Part 1: Milling tools, circular saw blades*

EN ISO 12100:2010, *Safety of machinery — General principles for design — Risk assessment and risk reduction (ISO 12100:2010)*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 847-1:2017 and the following apply.

### 3.1

#### **7/24 shank**

##### **SK**

type of tool holder with a 7/24 cone ratio taper

### 3.2

#### **hollow taper shank**

##### **HSK**

type of tool holder with a short hollow taper with high positioning accuracy and high grade of rigidity that contacts the spindle on two surfaces

### 3.3

#### **arbor**

device to be mounted on the machine spindle interface and which is designed to carry bore type cutting tools

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