



**NSAI**  
Standards

Irish Standard  
I.S. EN 16474:2015

# Plastics and rubber machines - Tyre curing machines - Safety requirements

**I.S. EN 16474:2015**

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

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## Plastics and rubber machines - Tyre curing machines - Safety requirements

Machines pour les matières plastiques et le caoutchouc -  
Machines à vulcaniser les pneumatiques - Prescriptions de  
sécurité

Kunststoff- und Gummimaschinen -  
Reifenvulkanisiermaschinen - Sicherheitsanforderungen

This European Standard was approved by CEN on 10 October 2014.

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## **EN 16474:2015 (E)**

### **Foreword**

This document (EN 16474:2015) has been prepared by Technical Committee CEN/TC 145 "Plastics and rubber machines", 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of an identical text or by endorsement, at the latest by October 2015, and conflicting national standards shall be withdrawn at the latest by October 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive 2006/42/EC, see informative Annex ZA, which is an integral part of this document.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## **Introduction**

This European Standard is a type C standard as stated in EN ISO 12100.

The machinery concerned and the extent to which hazards, hazardous situations and hazardous events are covered are indicated in the scope of this European Standard.

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this type C standard take precedence over the provisions of the other standards for machines that have been designed and built in accordance with the provisions of this type C standard.

## EN 16474:2015 (E)

### 1 Scope

This European Standard applies to tyre curing machines having the following configuration.

- crossing flow tyre curing machines, with two cavities with:
  - common curing cycle and common safeguarding; or
  - independent curing cycles and common safeguarding; or
  - independent curing cycles and independent safeguarding;
- tyre curing machines with one cavity;
- tyre curing machines with automatic rear feeding and discharge.

The safety requirements and/or protective measures specified in this European Standard apply to tyre curing machines for passenger vehicle tyres and truck tyres.

This European Standard does not deal with:

- feeding system and discharge system;
- tyre curing machines with manual loading of the green tyre into the mould and manual unloading of the cured tyre from the mould;
- ancillary equipment which is not an integral part of the tyre curing machine, e.g. conveying equipment;
- exhaust systems.

This European Standard deals with all significant hazards, hazardous situations and events relevant to tyre curing machines, when they are used as intended and under conditions of misuse which are reasonably foreseeable by the manufacturer (see Clause 4).

It does not deal with hazards associated with falling of parts of the container or mould.

Some tyre curing machines include pressure vessels, which fall under Directive 97/23/EC [1]; this European standard is not intended to support the Directive 97/23/EC.

This European Standard is not applicable to tyre curing machines which are manufactured before the date of its publication as an EN.

### 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 619:2002+A1:2010, *Continuous handling equipment and systems - Safety and EMC requirements for equipment for mechanical handling of unit loads*

EN 953:1997+A1:2009, *Safety of machinery - Guards - General requirements for the design and construction of fixed and movable guards*



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