

Second edition  
2023-09

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# Safety of amusement rides and amusement devices —

## Part 1: Design and manufacture

*Sécurité des manèges et des dispositifs de divertissement —  
Partie 1: Conception et fabrication*



Reference number  
ISO 17842-1:2023(E)

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Published in Switzerland

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## Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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This document was prepared by Technical Committee ISO/TC 254, *Safety of amusement rides and amusement devices*.

This second edition cancels and replaces the first edition (ISO 17842-1:2015), which has been technically revised.

The main changes are as follows:

- the normative references have been updated;
- the terms and definitions have been revised;
- alignment with EN 13814 series from 2019;
- the general risk assessment has been supplemented by the operator-side risk assessment;
- the safety distances of passenger units have been fundamentally revised;
- the requirements for personal restraint systems have been supplemented by additional monitoring;
- new [Annex I](#) contains the acceleration effects on passengers to align with ASTM F2291-21.

A list of all parts in the ISO 17842 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).