
Varnost strojev - Splošna načela načrtovanja - Ocena tveganja in zmanjšanje tveganja (ISO/DIS 12100:2025)

Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO/DIS 12100:2025)

Sicherheit von Maschinen - Allgemeine Gestaltungsleitsätze - Risikobeurteilung und Risikominderung (ISO/DIS 12100:2025)

Sécurité des machines - Principes généraux de conception - Appréciation du risque et réduction du risque (ISO/DIS 12100:2025)

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Foreword

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This document was prepared by Technical Committee ISO/TC 199, *Safety of machinery*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 114, *Safety of machinery*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition of ISO 12100 cancels and replaces ISO 12100:2010, ISO/TR 22100-1:2021 and ISO/TR 22100-2:2013.

The main changes are as follows:

- the Scope has been modified;
- additional normative references were added to [Clause 2](#);
- terms and definitions have been modified in [Clause 3](#);
- new [Figure 1](#) added, and [Figure 4](#) from previous edition replaced by a new [Figure 5](#);
- requirements for control systems moved to [6.3.5](#);
- reference to self-evolving behaviour of applied artificial intelligence added to [5.4](#), b) 2);
- new subclause “Hygiene aspects” added as [6.2.14](#);
- subclause “Safeguarding to reduce emissions” shortened on general aspects only;
- subclause on “Software aspects” completely rewritten;
- updates made to requirements for guards and protective devices ([6.3.2](#))
- new subclauses “Remote control” and “Remote software updates” added as [6.3.5.11](#) and [6.3.5.12](#), respectively;
- new subclause “Cybersecurity and protection against corruption” added as [6.3.5.15](#);
- ISO/TR 22100-1 and ISO/TR 22100-2 incorporated as new [Annexes C](#) and [D](#).