



SLOVENSKI STANDARD SIST EN ISO 16089:2025

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Obdelovalni stroji - Varnost - Nepremični brusilni stroji (ISO 16089:2025)

Machine tools - Safety - Stationary grinding machines (ISO 16089:2025)

Werkzeugmaschinen - Sicherheit - Ortsfeste Schleifmaschinen (ISO 16089:2025)

Machines-outils - Sécurité - Machines à meuler fixes (ISO 16089:2025)

Ta slovenski standard je istoveten z: EN ISO 16089:2025

ICS:

25.080.50 Brusilni in polirni stroji Grinding and polishing machines
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en

EUROPEAN STANDARD
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English Version

Machine tools - Safety - Stationary grinding machines (ISO
16089:2025)

Machines-outils - Sécurité - Machines à meuler fixes
(ISO 16089:2025)

Werkzeugmaschinen - Sicherheit - Ortsfeste
Schleifmaschinen (ISO 16089:2025)

This European Standard was approved by CEN on 15 November 2024.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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EN ISO 16089:2025 (E)

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European foreword

This document (EN ISO 16089:2025) has been prepared by Technical Committee ISO/TC 39 "Machine tools" in collaboration with Technical Committee CEN/TC 143 "Machine tools - Safety" the secretariat of which is held by SNV.

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of an identical text or by endorsement, at the latest by October 2025, and conflicting national standards shall be withdrawn at the latest by October 2025.

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

This document supersedes EN ISO 16089:2015.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Endorsement notice

The text of ISO 16089:2025 has been approved by CEN as EN ISO 16089:2025 without any modification.

Annex ZA (informative)

Relationship between this European Standard and the essential requirements of EU Directive 2006/42/EC aimed to be covered

This European Standard has been prepared under a Commission's standardization request M/396 "Mandate to CEN and CENELEC for standardisation in the field of machinery" to provide one voluntary means of conforming to essential requirements of Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast).

Once this standard is cited in the Official Journal of the European Union under that Directive compliance with the normative clauses of this standard given in Table ZA.1 and application of the edition of the normatively referenced standards as given in Table ZA.2 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive and associated EFTA regulations.

Table ZA.1 — Correspondence between this European Standard and Directive 2006/42/EC

Essential Requirements of Directive 2006/42/EC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
1.1.2 Principles of safety integration		
1.1.2 (a)	5, 6	
1.1.2 (c)	5, 6	
1.1.2 (d)	5, 6	
1.1.2 (e)	5, 6	
1.1.3 Materials and products	5.7.1, 5.7.2, 5.7.3 Annex H Annex I Annex J	
1.1.4 Lighting	5.8 e)	
1.1.5. Design of machinery to facilitate its handling	5.2.6, 7.2.4, 7.2.11	
1.1.6. Ergonomics	5.8	
1.1.7. Operating positions	5.8	
1.1.8. Seating		Not covered
1.2.1. Control Systems; Safety and reliability of control systems	5.12	
1.2.2. Control Devices	5.8	
1.2.3. Starting	5.9	

Essential Requirements of Directive 2006/42/EC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
1.2.4.1. Normal stop	5.12 Table 3	
1.2.4.2 Operational stop	5.12 Table 3	
1.2.4.3 Emergency stop	5.12 c)	
1.2.4.4. Assembly of machinery	7.2.1	
1.2.5. Selection of control or operating modes	5.2.7	
1.2.6. Failure of the power supply	5.11	
1.3.1. Risk of loss of stability	5.14	
1.3.2. Risk of break-up during operation	5.1.2, Annex A	
1.3.3. Risks due to falling or ejected objects	5.13	
1.3.4. Risks due to surfaces, edges or angles	5.1.2, 5.2	
1.3.7. Risks related to moving parts	5.1.2, 5.2, 5.9, 5.12	
1.3.8. Choice of protection against risks arising from moving parts	5.1.2, 5.2, Annex A	
1.3.9. Risks of uncontrolled movements	5.9	
1.4.1 General requirements	5.2.3.2, 5.13.1	
1.4.2.1. Fixed guards	5.2.3.2, 5.13	
1.4.2.2. Interlocking movable guards	5.2.3.2	
1.4.3. Special requirements for protective devices	5.2.3.2 b)	
1.5.1. Electricity supply	5.3	
1.5.2. Static electricity		Not covered
1.5.3. Energy supply other than electricity	5.9, 7.1	
1.5.6. Fire	5.7.3 Annex H, Annex I,	
1.5.7. Explosion	5.7.3 Annex H, Annex I,	
1.5.8. Noise	5.4 Annex E	
1.5.9. Vibrations	5.5, 7.2.7	
1.5.10. Radiation	5.6, 5.9 k)	
1.5.11. External radiation	5.9 k)	
1.5.12. Laser radiation	5.6,	