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Arc welding equipment - Part 8: Gas consoles for
welding and plasma cutting systems

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN IEC 60974-8:2021 sisaldab Euroopa standardi EN IEC 60974-8:2021 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 60974-8:2021 consists of the English text of the European standard EN IEC 60974-8:2021.
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English Version

**Arc welding equipment - Part 8: Gas consoles for welding and
plasma cutting systems
(IEC 60974-8:2021)**

Matériel de soudage à l'arc - Partie 8: Consoles de gaz
pour soudage et systèmes de coupage par plasma
(IEC 60974-8:2021)

Lichtbogenschweißeinrichtungen - Teil 8: Gaskonsolen für
Schweiß- und Plasmaschneidsysteme
(IEC 60974-8:2021)

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European foreword

The text of document 26/719/FDIS, future edition 3 of IEC 60974-8, prepared by IEC/TC 26 "Electric welding" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60974-8:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2022-06-15 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2024-09-15 document have to be withdrawn

This document supersedes EN 60974-8:2009 and all of its amendments and corrigenda (if any).

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

For the relationship with EU Directive(s) / Regulation(s), see informative Annex ZZ, which is an integral part of this document.

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The text of the International Standard IEC 60974-8:2021 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60204-1	NOTE	Harmonized as EN 60204-1
IEC 60974-2	NOTE	Harmonized as EN IEC 60974-2
IEC 60974-3	NOTE	Harmonized as EN IEC 60974-3
IEC 60974-7	NOTE	Harmonized as EN IEC 60974-7
IEC 61010-1:2010	NOTE	Harmonized as EN 61010-1:2010 (not modified)
ISO 3821	NOTE	Harmonized as EN ISO 3821

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-151	2001	International Electrotechnical Vocabulary – Part 151: Electrical and magnetic devices (available at: http://www.electropedia.org)	-	-
IEC 60529	-	Degrees of protection provided by enclosures (IP Code)	EN 60529	1991
			+ corrigendum May	1993
			+ A1	2000
			+ A2	2013
			+ AC	2016
			+ A2:2013/AC	2019
IEC60974-1	2017	Arc welding equipment – Part 1: Welding power source	EN60974-1	2018
IEC60974-1 AMD1	2019	Arc welding equipment – Part 1: Welding power source	EN IEC60974-1 A1	2019

Annex ZZ (informative)

Relationship between this European standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered

This European standard has been prepared under a Commission's standardisation request relating to harmonised standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits [2014 OJ L96].

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 ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding safety objectives of that Directive, and associated EFTA regulations.

Table ZZ.1 — Correspondence between this European standard and Annex I of Directive 2014/35/EU [2014 OJ L96]

Safety objectives of Directive 2014/35/EU	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
(1)(a)	Clauses 12, 13.1, 13.2	
(1)(b)	Clause 9, 13.1	
(1)(c)	Clauses 1, 3, 4	
(2)(a)	Clauses 6.1, 6.2, 6.2.3, 6.2.5, 6.2.6, 6.3, 11	
(2)(b)	Clauses 6.1, 6.2, 6.3, 7, 9.3.3, 11	Hazards arising from electric, magnetic, and electromagnetic fields, other ionizing and non-ionizing radiation are covered in separate standards
(2)(c)	Clauses 9, 9.1, 9.2, 9.3, 10	
(2)(d)	Clause 6.1	
(3)(a)	Clauses 4, 6.2.1, 9, 9.1, 9.2, 9.3, 9.3.3.2, 10, 10.1, 10.2, 10.3, 13.1 b)	
(3)(b)	Clauses 4, 6.2.1, 9, 10	
(3)(c)	Clause 9	

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Arc welding equipment –
Part 8: Gas consoles for welding and plasma cutting systems**

**Matériel de soudage à l'arc –
Partie 8: Consoles de gaz pour soudage et systèmes de coupage par plasma**



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INTERNATIONAL STANDARD

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ARC WELDING EQUIPMENT –

Part 8: Gas consoles for welding and plasma cutting systems

FOREWORD

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International Standard IEC 60974-8 has been prepared by IEC technical committee 26: Electric welding.

This third edition cancels and replaces the second edition, published in 2009. This edition constitutes a technical revision.

The significant technical changes with respect to the previous edition are the following:

- changes induced by the publication of IEC 60974-1:2017;
- requirements for the rating plate as in IEC 60974-1:2017, Clause 15;
- requirements for the instructions in 13.2.

This part of IEC 60974 is to be used in conjunction with IEC 60974-1.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
26/719/FDIS	26/723/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

In this standard, the following print types are used:

- conformity statements: in *italic type*.
- terms defined in Clause 3: in SMALL ROMAN CAPITALS.

A list of all parts of the IEC 60974 series, published under the general title *Arc welding equipment*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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