

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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**Arc welding equipment –  
Part 5: Wire feeders**

**Matériel de soudage à l'arc –  
Partie 5: Dévidoirs**



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## CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references .....	6
3 Terms and definitions .....	6
4 Environmental conditions.....	7
5 Tests.....	7
5.1 Test conditions.....	7
5.2 Measuring instruments .....	7
5.3 Conformity of components.....	8
5.4 Type tests .....	8
5.5 Routine tests.....	8
6 Protection against electric shock .....	8
6.1 Insulation .....	8
6.2 Protection against electric shock in normal service (direct contact) .....	8
6.2.1 Protection provided by the enclosure.....	8
6.2.2 Capacitors .....	9
6.2.3 Automatic discharge of supply circuit capacitors.....	9
6.2.4 Isolation of the welding circuit.....	9
6.2.5 Welding circuit touch current .....	9
6.2.6 Touch current in normal condition.....	9
6.3 Protection against electric shock in case of a fault condition (indirect contact) .....	10
6.3.1 Protective provisions .....	10
6.3.2 Isolation between windings of the supply circuit and the welding circuit .....	10
6.3.3 Internal conductors and connections.....	10
6.3.4 Isolation of the welding circuit from the frame .....	10
6.3.5 Touch current in fault condition.....	10
6.4 Supply voltage.....	10
6.5 Protective provisions .....	10
6.6 Overcurrent protection of the supply circuit.....	11
6.7 Cable anchorage .....	11
6.8 Auxiliary power supply.....	11
6.9 Inlet openings.....	11
6.10 Control circuits .....	11
6.11 Isolation of hanging means.....	11
7 Liquid cooling system .....	11
8 Shielding gas supply.....	11
9 Thermal requirements.....	12
10 Mechanical provisions .....	12
10.1 Wire feeder .....	12
10.2 Enclosure strength .....	12
10.3 Handling means .....	13
10.4 Drop withstand .....	13
10.5 Tilting stability .....	13
10.6 Filler wire supply .....	13

10.6.1 Filler wire supply mounting .....	13
10.6.2 Wire spool retaining device.....	13
10.6.3 Filler wire over-run .....	13
10.7 Feeding .....	14
10.8 Protection against mechanical hazards.....	14
11 Rating plate .....	15
11.1 General .....	15
11.2 Description .....	15
11.3 Contents.....	15
12 Indication of wire-feed speed.....	16
13 Instructions and markings.....	16
13.1 Instructions .....	16
13.2 Markings .....	17
Annex A (normative) Determination of the variation in wire-feed speed.....	18
Annex B (informative) Example for a rating plate of a stand-alone wire feeder .....	20
Bibliography.....	21
Figure 1 – Principle of the rating plate of stand-alone wire feeder .....	15
Table 1 – Minimum degree of protection .....	9

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**ARC WELDING EQUIPMENT –****Part 5: Wire feeders**

## FOREWORD

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International Standard IEC 60974-5 has been prepared by IEC technical committee 26: Electric welding.

This third edition cancels and replaces the second edition published in 2007 and constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- changes induced by the publication of IEC 60974-1:2012;
- addition of a new symbol for hot surface (as specified in Clause 9);
- determination of the maximum load in accordance with 10.7.

The text of this standard is based on the following documents:

FDIS	Report on voting
26/503/FDIS	26/507/RVD

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

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

This standard shall be used in conjunction with IEC 60974-1.

The list of all the parts of IEC 60974, under the general title *Arc welding equipment*, can be found on the IEC web site.

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

## ARC WELDING EQUIPMENT –

### Part 5: Wire feeders

#### 1 Scope

This part of IEC 60974 specifies safety and performance requirements for industrial and professional equipment used in arc welding and allied processes to feed filler wire.

The wire feeder may be a stand-alone unit which may be connected to a separate welding power source or one where the welding power source and the wire feeder are housed in a single enclosure.

The wire feeder may be suitable for manually or mechanically guided torches.

This part of IEC 60974 is not applicable to spool-on torches that are covered by IEC 60974-7.

This part of IEC 60974 is not applicable to wire feeders which are designed mainly for use by laymen and design in accordance with IEC 60974-6.

NOTE 1 Typical allied processes are electric arc cutting and arc spraying.

NOTE 2 This standard does not include electromagnetic compatibility (EMC) requirements.

#### 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.

IEC 60050-195, *International Electrotechnical Vocabulary (IEV) – Part 195: Earthing and protection against electric shock*

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

IEC 60974-1:2012, *Arc welding equipment – Part 1: Welding power sources*

IEC 60974-7, *Arc welding equipment – Part 7: Torches*

IEC 60974-10, *Arc welding equipment – Part 10: Electromagnetic compatibility (EMC) requirements*

IEC 61140, *Protection against electric shock – Common aspects for installation and equipment*

#### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050-195, IEC 60974-1, and IEC 60974-7, as well as the following apply.