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BS EN ISO 8430-3:2016



BSI Standards Publication

Resistance spot welding — Electrode holders

Part 3: Parallel shank fixing for end thrust

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This British Standard is the UK implementation of EN ISO 8430-3:2016. It supersedes BS EN 28430-3:1992 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee WEE/29, Resistance welding.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Published by BSI Standards Limited 2016

ISBN 978 0 580 89283 7

ICS 25.160.20; 25.160.30

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 March 2016.

Amendments/corrigenda issued since publication

Date	Text affected
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EUROPÄISCHE NORM

February 2016

ICS 25.160.30

Supersedes EN 28430-3:1992

English Version

Resistance spot welding - Electrode holders - Part 3: Parallel shank fixing for end thrust (ISO 8430-3:2016)

Soudage par points par résistance - Porte-électrodes -
Partie 3: Emmanchement cylindrique pour poussée en
bout (ISO 8430-3:2016)

Widerstandspunktschweißen - Elektrodenhalter - Teil
3: Zylindrische Befestigung für gerade Beanspruchung
(ISO 8430-3:2016)

This European Standard was approved by CEN on 30 December 2015.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

European foreword

This document (EN ISO 8430-3:2016) has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" in collaboration with Technical Committee CEN/TC 121 "Welding and allied processes" the secretariat of which is held by DIN.

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 August 2016, and conflicting national standards shall be withdrawn at the latest by August 2016.

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

This document supersedes EN 28430-3:1992.

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

Endorsement notice

The text of ISO 8430-3:2016 has been approved by CEN as EN ISO 8430-3:2016 without any modification.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 documents 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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 44, *Welding and allied processes*, SC 6, *Resistance welding and allied mechanical joining*.

This second edition cancels and replaces the first edition (ISO 8430-3:1988), which has been technically revised. The following changes have been made:

- in [Clause 5](#), the second paragraph has been updated and there is no longer a reference to ISO 1642;
- the figures have been updated to comply with the latest ISO style and to reflect the latest edition of ISO 1302.

ISO 8430 consists of the following parts, under the general title *Resistance spot welding — Electrode holders*:

- *Part 1: Taper fixing 1:10*
- *Part 2: Morse taper fixing*
- *Part 3: Parallel shank fixing for end thrust*

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Resistance spot welding — Electrode holders —

Part 3: Parallel shank fixing for end thrust

1 Scope

This part of ISO 8430 specifies the dimensions and tolerances of resistance spot welding electrode holders (type C) without offset and with a facility for cable clamping, and where a clamp is used to fix the holder directly to the welding cylinder in multiple spot welding equipment.

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.

ISO 1302, *Geometrical Product Specifications (GPS) — Indication of surface texture in technical product documentation*

ISO 3601-1, *Fluid power systems — O-rings — Part 1: Inside diameters, cross-sections, tolerances and designation codes*

ISO 5182:2008, *Resistance welding — Materials for electrodes and ancillary equipment*

ISO 5183-2, *Resistance spot welding — Electrode adaptors, male taper 1:10 — Part 2: Parallel shank fixing for end-thrust electrodes*

ISO 5821, *Resistance welding — Spot welding electrode caps*

ISO 5828, *Resistance welding equipment — Secondary connecting cables with terminals connected to water-cooled lugs — Dimensions and characteristics*

ISO 7285, *Pneumatic cylinders for mechanized multiple spot welding*

ISO 9313, *Resistance spot welding equipment — Cooling tubes*

3 Dimensions

The dimensions shall be in accordance with [Figure 1](#) and [Table 1](#).

4 Designation

The designations of electrode holders which comply with this part of ISO 8430 shall comprise the following information in the order given:

- a) the description block (i.e. "spot welding electrode holder");
- b) a reference to this part of ISO 8430;
- c) the type of electrode holder (type C);
- d) the diameter, d_1 , in millimetres;