# INTERNATIONAL STANDARD

ISO 8430-1

Second edition 2016-01-15

# Resistance spot welding — Electrode holders —

Part 1:

Taper fixing 1:10

Soudage par points par résistance — Porte-électrodes — Partie 1: Cône de fixation 1:10





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#### Foreword

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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 <a href="www.iso.org/directives">www.iso.org/directives</a>).

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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*, Subcommittee SC 6, *Resistance welding and allied mechanical joining*.

This second edition cancels and replaces the first edition (ISO 8430-1:1988), 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

## Resistance spot welding — Electrode holders —

### Part 1:

# Taper fixing 1:10

#### 1 Scope

This part of ISO 8430 specifies the dimensions and tolerances of resistance spot welding electrode holders (type A) without offset and with the facility for cable clamping, and where a male taper 1:10 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 5182:2008, Resistance welding — Materials for electrodes and ancillary equipment

ISO 5183-1, Resistance welding equipment — Electrode adaptors, male taper 1:10 — Part 1: Conical fixing, taper 1:10

ISO 5821, Resistance welding — Spot welding electrode caps

ISO 5822, Spot welding equipment — Taper plug gauges and taper ring gauges

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 A);
- d) the reference diameter, in millimetres;
- e) the total length,  $l_4$ , in millimetres;