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EAST AFRICAN STANDARD

**Slaughter house equipment — Electrical stunning tongs for pigs —
Specification**

EAST AFRICAN COMMUNITY

Foreword

Development of the East African Standards has been necessitated by the need for harmonizing requirements governing quality of products and services in East Africa. It is envisaged that through harmonized standardization, trade barriers which are encountered when goods and services are exchanged within the Community will be removed.

In order to meet the above objectives, the EAC Partner States have enacted an East African Standardization, Quality Assurance, Metrology and Test Act, 2006 (EAC SQMT Act, 2006) to make provisions for ensuring standardization, quality assurance, metrology and testing of products produced or originating in a third country and traded in the Community in order to facilitate industrial development and trade as well as helping to protect the health and safety of society and the environment in the Community.

East African Standards are formulated in accordance with the procedures established by the East African Standards Committee. The East African Standards Committee is established under the provisions of Article 4 of the EAC SQMT Act, 2006. The Committee is composed of representatives of the National Standards Bodies in Partner States, together with the representatives from the private sectors and consumer organizations. Draft East African Standards are circulated to stakeholders through the National Standards Bodies in the Partner States. The comments received are discussed and incorporated before finalization of standards, in accordance with the procedures of the Community.

Article 15(1) of the EAC SQMT Act, 2006 provides that "Within six months of the declaration of an East African Standard, the Partner States shall adopt, without deviation from the approved text of the standard, the East African Standard as a national standard and withdraw any existing national standard with similar scope and purpose".

East African Standards are subject to review, to keep pace with technological advances. Users of the East African Standards are therefore expected to ensure that they always have the latest versions of the standards they are implementing.

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Introduction

In the preparation of this East African Standard, the following sources were consulted extensively:

IS 7909:1993(R2005), *Slaughter House Equipment — Electrical Stunning Tongs for Pigs — Specification*

Codex Alimentarius website: http://www.codexalimentarius.net/mrls/pestdes/jsp/pest_q-e.jsp

USDA Foreign Agricultural Service website: <http://www.mrlatabase.com>

USDA Agricultural Marketing Service website: <http://www.ams.usda.gov/AMSV1.0/Standards>

USDA Plant Inspectorate Service website: http://www.aphis.usda.gov/import_export/plants

European Union: http://ec.europa.eu/sanco_pesticides/public

Assistance derived from these sources is hereby acknowledged.

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Slaughter house equipment — Electrical stunning tongs for pigs — Specification

1 Scope

This East African Standard specifies material, dimensions and other requirements for electrical stunning tongs for pig.

2 Normative references

The following referenced documents are indispensable for the application 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.

ISO 3522, *Aluminium and aluminium alloys — Castings — Chemical composition and mechanical properties*

ISO 6361-1, *Wrought aluminium and aluminium alloy sheets, strips and plates — Part 1: Technical conditions for inspection and delivery*

ISO 6361-2, *Wrought aluminium and aluminium alloy sheets, strips and plates — Part 2: Mechanical properties*

ISO 6361-3, *Wrought aluminium and aluminium alloy sheets, strips and plates — Part 3: Strips — Tolerances on shape and dimensions*

ISO 6361-4, *Wrought aluminium and aluminium alloy sheets, strips and plates — Part 4: Sheets and plates — Tolerances on form and dimensions*

ISO 6362-1, *Wrought aluminium and aluminium alloy extruded rods/bars, tubes and profiles — Part 1: Technical conditions for inspection and delivery*

ISO 6362-2, *Wrought aluminium and aluminium alloy extruded rods/bars, tubes and profiles — Part 2: Mechanical properties*

ISO 6362-3, *Wrought aluminium and aluminium alloy extruded rods/bars, tubes and profiles — Part 3: Extruded rectangular bars — Tolerances on shape and dimensions*

ISO 6362-4, *Wrought aluminium and aluminium alloy extruded rods/bars, tubes and profiles — Part 4: Extruded profiles — Tolerances on shape and dimensions*

ISO 6362-5, *Wrought aluminium and aluminium alloy extruded rods/bars, tubes and profiles — Part 5: Extruded round, square and hexagonal bars — Tolerances on shape and dimensions*

ISO 6362-6, *Wrought aluminium and aluminium alloys — Extruded rods/bars, tubes and profiles — Part 6: Round, square, rectangular and hexagonal tubes — Tolerances on shape and dimensions*

IEC 60245-4, *Rubber insulated cables — Rated voltages up to and including 450/750 V — Part 4: Cords and flexible cables*

3 Materials

The stunning tongs shall be made of cast aluminium alloy or extruded aluminium alloy conforming to ISO 3522 or ISO 6362.

4 Requirements

4.1 The dimensions of the electrical stunning tongs shall be as shown in Figure 1.

4.2 Other requirements

4.2.1 The tongs shall be capable of working in the range of 90 to 150 volts.

4.2.2 The cable connections shall be held firmly by cable glands.

4.2.3 The cable shall be of multicore flexible cord of sufficient current-carrying capacity. The cable shall conform to IEC 60245-4.

4.2.4 Both the tongs shall be attached, with the pivot on screw which shall be covered by the detachable upper and lower caps. The space between these two caps, shall be suitably packed with grease.

4.2.5 The wiring and other electrical system shall be so arranged as to be shock-proof to the operator even in wet condition.

4.2.6 The tong shall be provided with insulated rubber grips. In addition, a suitable insulation shall be provided up to the pivot point as shown in the figure.

4.2.7 The electrodes shall be made of aluminium alloy, suitably serrated and provided with flexible sponge in order to provide intimate electrical contact on the animal.

4.2.8 A press-type control switch shall be provided on inner side of the right-hand sided handle and within the reach of the operator.

4.2.9 The total weight of the electrical stunning tongs shall not exceed 3 kg.

5 Workmanship and finish

5.1 The tongs shall be free from pits, burrs and other visual manufacturing defects which are detrimental to its working.

5.2 The metal parts shall be properly anodized.

5.3 The tongs shall not develop any loose contact during operation.

6 Marking

6.1 The following particulars shall be legibly marked on the tongs:

- a) Manufacturer's name, and
- b) Batch or code number.

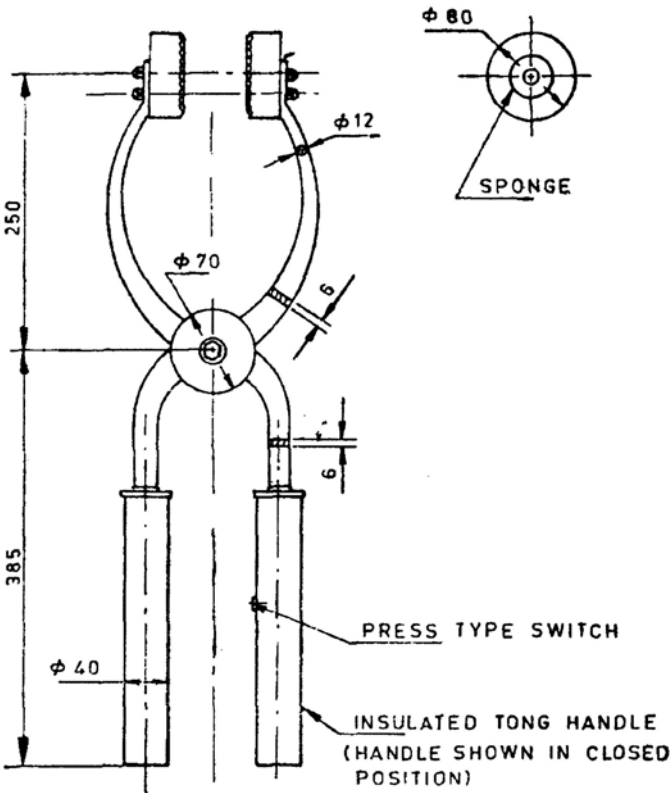
6.2 **Certification marking** — The product may be marked with a certification mark.

7 Packing

As agreed to between the purchaser and the supplier.

8 Sampling

Sampling shall be done as agreed to between the purchaser and the vendor.



All dimensions in millimetres
Figure 1 — Typical electrical stunning tong for pigs

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