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STANDARD

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**Agricultural machinery — Equipment for
working the soil — S-tines: test method**

*Matériel agricole — Matériel de travail du sol — Méthode d'essai des
dents de cultivateurs de type S*



Reference number
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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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 8947 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 5, *Equipment for working the soil*.

Annex A forms an integral part of this International Standard.

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Agricultural machinery — Equipment for working the soil — S-tines: test method

1 Scope

This International Standard specifies the test method for S-type cultivator tines used in working the soil. The aim of the test is to give reproducible results to compare the quality of S-tines.

It applies to S-tines as specified in ISO 5678; the test method can also be used to test other similar products.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 5678:1993, *Agricultural machinery — Equipment for working the soil — S-tines: main dimensions and clearance zones*.

ISO 5680:1979, *Equipment for working soil — Tines and shovels for cultivators — Main fixing dimensions*.

3 Test procedure

Not less than 20 tines of the same type and manufacturer are needed for the tests. The tines should preferably be taken from the batch by test staff.

The tests shall be carried out with tines without shovels, except for the variation in working depth (see 3.4). Results reported shall be the averages of three tines tested in each case. The tests indicated in 3.1 to 3.6 shall be carried out.

3.1 Dimensions

Check the dimensions of five tines for compliance with the dimensions given in ISO 5678 and ISO 5680. Report any deviations.

3.2 Bending in direction of travel

Attach the tine to the test rig, in accordance with the manufacturer's instructions, so that the tine position will be as in the working position. Use those attachments which are delivered with the tine. Apply a horizontal load on the front side mid-point of the shovel lower fixing hole (see figure 1).

Apply the following static loadings, F , in newtons:

50; 100; 200; 300; 400; 500; 600; 700; 800; 900;
1 000

Measure and record the distance the tine bends, a , in the loading direction, for each loading. This distance a is measured at the centre of the shovel lower fixing hole, on the front side of the tine.

3.3 Lateral bending

Attach the tine to the test rig and apply a load perpendicular to the tine on the front side mid-point of the shovel lower fixing hole (see figure 2).

Apply the following static loadings, F , in newtons:

50; 100; 200; 300; 400; 500; 600

Measure and record the distance the tine bends, b , in the loading direction, for each loading.