International Standard 7855

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Torque wrenches — Test method

Clés dynamométriques — Méthode d'essai

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

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Torque wrenches — Test method

1 Scope and field of application

This International Standard specifies the test method for torque wrenches within the torque ranges given in ISO 6789.

It applies to deflecting beam type and torque setting type torque wrenches, listed under Nos. 258 and 259 in ISO 1703.

2 References

ISO 1703, *Assembly tools for screws and nuts — Nomenclature.*

ISO 6789, *Assembly tools for screws and nuts — Torque wrenches — Torque ranges and tolerances.*

3 Torque wrench positioning in the test device

Set the test device to zero before putting the wrench into position.

Apply a force, F, within the limits specified in figures 1 and 2.

Apply the force to the centre of the handle either

- by using a special device, or
- by gripping the handle firmly.

4 Test procedure

When approximately 75 % of the set torque value is reached, the tightening velocity shall not exceed two degrees of angle per second.

Test each torque wrench three times at each of the three following measuring points:

- at the lowest point (that is at 20 % of the maximum capacity of the torque wrench);
- at the halfway point;
- at the highest point (that is at the maximum capacity of the torque wrench).

When testing torque setting type and self-adjusting wrenches, the tester may carry out a release test without taking a measurement reading.

All three readings taken at the same measuring point shall be within the tolerance as specified in ISO 6789.

5 Accuracy of the test device

The test device shall be accurate to ±1 % of the measured value.

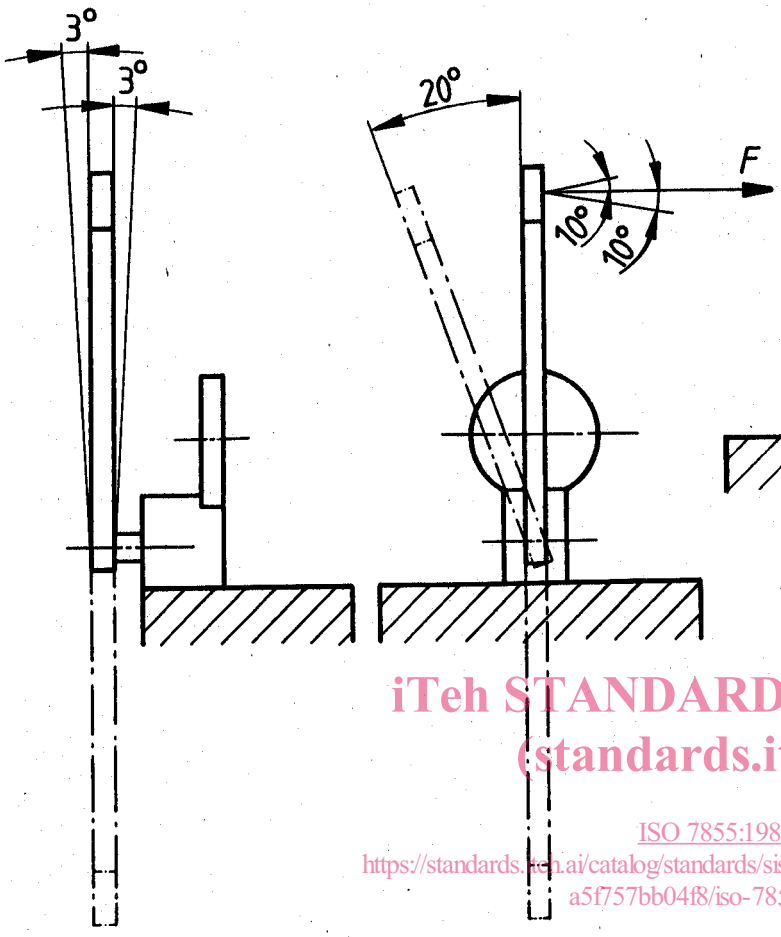

Figure 1 — Wrench vertical

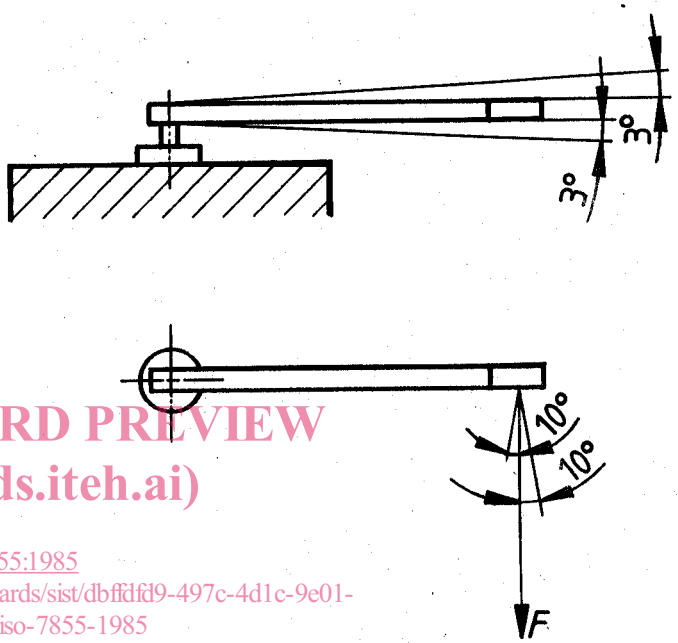

Figure 2 — Wrench horizontal