
International Standard



2787

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Rotary and percussive pneumatic tools — Performance tests

Machines pneumatiques rotatives, percutantes et roto-percutantes — Essais de fonctionnement

Second edition — 1984-01-15

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UDC 621.542

Ref. No. ISO 2787-1984 (E)

Descriptors : tools, pneumatic tools, performance tests, definitions, classification, specifications, test results.

Price based on 15 pages

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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 developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized 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.

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.

International Standard ISO 2787 was developed by Technical Committee ISO/TC 118, *Compressors, pneumatic tools and pneumatic machines*, and was circulated to the member bodies in September 1982.

It has been approved by the member bodies of the following countries :

Austria	Germany, F. R.	Spain
Belgium	India	United Kingdom
Czechoslovakia	Mexico	USA
Egypt, Arab Rep. of	Netherlands	
France	Poland	

No member body expressed disapproval of the document.

This second edition cancels and replaces the first edition (i.e. ISO 2787-1974).

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Rotary and percussive pneumatic tools — Performance tests

0 Introduction

This International Standard shows how information on hand-held pneumatic rotary tools, percussive tools and percussive tools with rotation should be obtained and presented.

Such information is valuable for the following purposes :

- a) to enable manufacturers of pneumatic rotary and percussive tools to offer their products under similar technical specifications;
- b) to help users to compare different tools and to select the right type and size for a specific task;
- c) to instruct test personnel about how performance tests shall be carried out, according to specified conditions described in this International Standard.

1 Scope and field of application

This International Standard specifies a method of performance tests and technical conditions for the supply of pneumatic tools and gives detailed instructions on the measurement of power output and air consumption and means of adjusting the measured values to specified conditions.

2 References

- ISO 31, *Quantities, units and symbols*.
- ISO 1000, *SI units and recommendations for the use of their multiples and of certain other units*.
- ISO 1180, *Shanks for pneumatic tools and fitting dimensions of chuck bushings*.¹⁾
- ISO 2944, *Fluid power systems and components — Nominal pressures*.
- ISO 3857/1, *Compressors, pneumatic tools and machines — Vocabulary — Part 1 : General*.
- ISO 3857/3, *Compressors, pneumatic tools and machines — Vocabulary — Part 3 : Pneumatic tools and machines*.
- ISO 5167, *Measurement of fluid flow by means of orifice plates, nozzles and Venturi tubes inserted in circular cross-section conduits running full*.
- ISO 5391, *Compressors, pneumatic tools and machines — Classification*.²⁾
- ISO 5393, *Rotary pneumatic tools for threaded fasteners — Performance test*.
- ISO 6544, *Hand-held pneumatic assembly tools for installing threaded fasteners — Reaction torque and torque impulse measurements*.

1) At present at the stage of draft. (Revision of ISO/R 1180-1970.)

2) At present at the stage of draft.