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Internal combustion engines — Determination and method for the measurement of engine power — General requirements

*Moteurs à combustion interne — Détermination et méthode de mesure de
la puissance du moteur — Exigences générales*



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 15550 was prepared by Technical Committee ISO/TC 70, *Internal combustion engines*.

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Introduction

This International Standard establishes the framework for ISO engine power measurement standards. By applying this framework the disadvantages of the existence of many similar, but different, ISO standards for the definition and determination of engine power can be avoided.

This framework uses the “Core” and “Satellite” approach. The “Core” standard contains the requirements that are common to all engine applications described in the scope and the “Satellite” standards contains those requirements that are necessary to tailor power measurement and declaration to suit a particular engine application.

This International Standard is only applicable in conjunction with a particular “Satellite” standard in order to completely specify the requirements for the particular engine application. The “Core” standard therefore, is not a document that can stand alone but only represents addenda to a particular “Satellite” standard used to create a complete standard together with the said “Satellite” standard.

The advantage of this approach is that the use of standards for the same or similar engines used in different applications will be rationalized and the harmonization of standards in the course of revision or development will be ensured.

This International Standard is the “Core” standard.

This International Standard was prepared in order to serve as the “Core” standard for making engine power measurements. It was drafted in close co-operation with technical committees ISO/TC 22 *Road vehicles*, ISO/TC 23 *Machinery for forestry and agriculture*, ISO/TC 127 *Earth moving machinery* and ISO/TC 188 *Small craft*. The prerequisite for any future modification of ISO 15550 will be the formal approval of all the above technical committees. Together with the “Satellite” standard for each engine application, the “Core” standard serves as the basis for engine power declaration and measurement. Each technical committee is fully responsible for the administration of its own “Satellite” standard(s).

If requirements from the regulations of any other authority (e.g. inspecting and/or legislative authority) have to be met, the relevant authority must be confirmed by the customer prior to placing the order.

Any further requirements are subject to agreement between the manufacturer and customer.