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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 23342-2009

**Reciprocal internal combustion engines -- Recoil starting
equipment -- General safety requirements**

往复式内燃机 回弹式绳索起动装置 基本安全要求

(English Translation)

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Foreword

This standard is equivalent to using ISO 14314:2004 "Reciprocating internal combustion engine starter rope reengaging the basic safety requirements" (English Version).

This standard is equivalent translation ISO 14314:2004.

For ease of use, this standard made the following editorial changes.

--- Of ISO 14314:2004 international and European standards referenced, our standard has been adopted as standard by our substitute, it has not been adopted as the standard of a direct use of international and European standards;

--- "This International Standard" by "this standard";

--- Remove the foreword to international standards;

--- Deleted international standards Informative Annex A.

The standard proposed by China Machinery Industry Federation.

This standard by the National Standardization Technical Committee of the internal combustion engine.

This standard was drafted. Shanghai Internal Combustion Engine Research Institute, Changzhou Chang Rui days of the Power Machinery Co., Ltd.

Introduction

Safety standards in the field of machinery consists of the following standard components.

a) A Class standard (basic safety standards). the provisions of the basic concepts can be used for all mechanical, design principles and general safety considerations.

b) Class B standard (general safety standard). relates to safety factors can be used in a variety of mechanical or a security guard.

- 1) B1 category. safety standards on certain factors (such as safety distances, surface temperature, noise);
- 2) B2 category. standard safety guards (such as hand control devices, chain devices, pressure sensitive devices, guards) of.
- c) Class C standards (machinery safety standards) relates in detail the safety requirements of a machine or class of machine.

This standard is described in C EN1070 standard.

This standard provides an overview of the machinery and the risk involved, hazardous situations and hazardous events in the scope.

When the Class C and Class A or B standard class standard regulations there are differences, almost to C standards prevail, according to the provisions of the standard design category C and Making machinery.

Basic Concepts Spring-rope starter system is to take measures to avoid reciprocating internal combustion engine with a rope at the start, resulting in two natural Danger.

- a) to prevent the rope from slipping out of control start loosening the pulley, injury to the user;
- b) prevent the operator touches the start of the rotation system components.

GB/T 23342-2009/ISO 14314:2004 Reciprocating internal combustion engines reengaging rope starter Basic safety requirements

1 Scope

This standard specifies the safety requirements for the internal combustion engine with a rope starter reengaging means, be applied to land use, marine and rail traction reciprocating internal Combustion engine, but with the exception of road vehicles and aviation internal combustion engine. This standard is also applicable to the road construction machinery, earthmoving machinery and there is no suitable standard can in internal combustion engines used for other purposes.

In addition to the provisions of the standard safety requirements, including testing methods comply with these requirements.

This standard only relates to the installation and use of spring-type rope starter apparatus of the related risk.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including

errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 1883.1 Reciprocating internal combustion engines - Vocabulary - Part 1. engine design and operation (GB/T 1883.1-2005, ISO 2710-1:2000, IDT) GB/T 1883.2 Reciprocating internal combustion engines - Vocabulary - Part 2. Terms for engine maintenance (GB/T 1883.2-2005, ISO 2710-2:1999, IDT) GB/T 6809.8 reciprocating internal combustion engine components and systems - Part 8. Starting System (GB/T 6809.8-2000, idtISO 7967-8.1994) GB/T 15706.1 Safety of machinery - Basic concepts and general principles for design - Part 1. Basic terminology and methods (GB/T 15706.1-2007, ISO 12100-1:2003, IDT) GB/T 15706.2 Safety of machinery - Basic concepts and general principles for design - Part 2. Technical principles and specifications (GB/T 15706.2-2007, ISO 12100-2:2003, IDT) GB 20651.1 Reciprocating internal combustion engines - Safety - Part 1. Compression ignition engines (GB 20651.1-2006, BSEN1679-1.

1998, IDT)

EN1070 Safety of machinery - Terminology

3 Terms and Definitions

GB/T 1883.1, GB/T 1883.2, GB/T 6809.8, EN1070 and established the following terms and definitions apply to this standard.

Use rope starter reciprocating internal combustion engine, the torque required for the start by only start when the crankshaft pulley associated Transmitted to the crankshaft.

Note 1: After each start, the rope automatically return to the starting position or the parking lot (spring-type).

Note 2: The rope used to start the engine is not a stand-alone device.

Firmly connected to the rope, to provide a secure grip of the handle to the operator.

GB/T 23342-2009/ISO 14314:2004