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

GB/T 24811.2-2009

**Cranes and lifting appliances -- Selection of wire ropes -- Part 2:
Mobile cranes -- Coefficient of utilization**

起重机和起重机械 钢丝绳选择 第2部分：流动式起重机 利用系数

(English Translation)

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Foreword

GB/T 24811 "Cranes and Lifting rope selection" is divided into two parts.

--- Part 1. General;

--- Part 2. Mobile cranes utilization factor.

This section GB/T 24811 Part 2.

This part identical with ISO 4308-2. 1988 "Cranes and lifting appliances Selection of wire ropes - Part 2. Mobile cranes Utilization factor "(in English).

This section is equivalent translation ISO 4308-2. 1988.

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

--- The term "this part of ISO 4308" with the words "GB/T 24811 in this section";

--- Delete ISO 4308-2. 1988 Foreword and Introduction;

"," --- With a decimal point instead of a comma as the decimal point, "";

--- For ISO 4308-2. 1988 international standard references, use has been adopted as the equivalent of the standard instead of the corresponding international standards, the other is not identical with direct reference to international standards for our standards.

This part is proposed by China Machinery Industry Federation.

This part of the National Standardization Technical Committee crane (SAC/TC227) centralized.

This section is drafted. XCMG Xuzhou Heavy Machinery Co., Ltd., Changsha Zoomlion Heavy Industry Science and Technology Development Co., Ltd.

1 Scope

This section GB/T 24811 specifies the general wire rope for mobile cranes lines and the actual utilization of the minimum twist rope barrier Value Z_p (as defined in GB/T 24811.1).

This section applies to all defined in ISO 4306-2 mobile crane.

2 Normative references

The following documents contain provisions which, through reference GB/T 24811 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 20863.2 crane classification - Part 2. Mobile cranes (GB/T 20863.2-2007, ISO 4301-2.

1985, IDT)

GB/T 24811.1 cranes and crane Selection of wire ropes - Part 1. General (GB/T 24811.1-2009, ISO 4308-1:2003, IDT) ISO 4306-2 Cranes - Terminology - Part 2. Mobile cranes

3.1 General Rope

According to GB/T 20863.2 crane machine grading and institutions, the minimum utilization factor generally rope Z_p Table 1.

Table 1 General a rope

crane

Working conditions

Crane Machine

Working level

Rope sports

Hoisting and luffing telescopic mechanism Working level Z_p mechanism Working level Rope work Z_p Installation of rope Z_p Static rope Rope work Z_p Installation of rope Z_p General use Regular use Heavy use A1 A3 A4 M3 M4 M5 3.55 4.00 4.50 M2 M3 M3 3.35 3.55 3.55 3.05 3.05 3.05 2.73 2.73 2.73 a well known, depends on the safe use of wire rope wire rope inspection and discard criteria of application.

3.2 Rotating wire rope barrier

Rotating wire rope barrier is an outer layer 8 8 shares or shares over which the inner strands and twist to the opposite rope. according to Classification GB/T 20863.2, minimum utilization factor hindered rotation rope Z_p Table 2.

GB/T 24811.2-2009/ISO 4308-2. 1988