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GB/T 14212-2010 / ISO 10190:2008

Replacing GB/T 14212-2003

Motorcycle Chains – Characteristics and Test Methods

(ISO 10190:2008, IDT)

摩托车链条 技术条件和试验方法

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Foreword

This Standard uses translation method to equivalently adopt international standard ISO 10190:2008 *Motorcycle Chains – Characteristics and Test Methods*.

This Standard replaced GB/T 14212-2003 *Motorcycle Chains – Characteristics and Test Methods*.

Compared with GB/T 14212-2003, the major technical changes of this Standard are as follows:

- Add a new table of contents page and ISO introduction;
- Made technical revisions to Figures 1, 2 and 3; and delete a double-row structural diagram;
- Made technical revisions to 3.4.3, adjusting the original pre-tension load value from 1/3 of the minimum tensile strength value to 30%;
- Made technical revisions to 3.4.4, adjusting the original tolerance of the chain measurement length from ${}^{+0.15}_0\%$ of the nominal length of the chain to ${}^{+0.25}_0\%$;
- Cancel the original standard's requirements for dynamic load test;
- Made technical revisions to Table 1, adding dynamic load strength F_d , and cancelling the original standard's provisions for maximum load F_1 and minimum load F_2 for fatigue test;
- Adopt all new ISO chain numbers in Table 1; add seven new chain specifications, namely: 219H, 415MH, 420MH, 520MH, 525, 525MH, 530MH; cancel 08MB-2 double-row chain; adjust some data in the original Table 1;
- "(0.0009 d_f +0.08), up to 1.14mm" in ISO 10190:2008 Annex A Clause A.7, because the diameter of motorcycle sprockets is not too large, delete "up to 1.14mm" in this Standard adoption;
- Partially adjust and rewrite the NOTE of Table 1;
- Move the Annex A of the original standard to Annex B;
- Add new Annexes A and C.

The Annexes A and C of this Standard are normative; while Annex B is informative.

This Standard was proposed by China Machinery Industry Federation.

This Standard shall be under the jurisdiction of National Technical Committee on Chain Transmission of Standardization Administration of China.

Motorcycle Chains – Characteristics and Test Methods

1 Scope

This International Standard specifies the dimensions and mechanical properties of roller and bush chains together with details of associated chain sprockets (see Annex A), in the range 6.35 mm to 19.05 mm pitch, for use in motorcycle applications. These chains are suitable for external drives (e.g., rear drives).

It covers dimensions, tolerances, length measurement, preloading, minimum tensile strength and minimum dynamic strength.

2 Normative References

The provisions in following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrigendum) or revisions do not apply to this Standard, however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 1243 Short-pitch Transmission Precision Roller and Bush Chains, Attachments and Associated Chain Sprockets (GB/T 1243-2006, ISO 606:2004, IDT)

GB/T 1800.2 Geometrical product specifications (GPS) - Limits and fits - Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts (GB/T 1800.2-2009, ISO 286-2:1988, ISO System of limits and fits – Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts, MOD)

GB/T 20736 Fatigue test method for transmission precision roller chain (GB/T 20736-2006, ISO 15654:2004, IDT)

3 Motorcycle Chains

3.1 Nomenclature of assemblies and components

The nomenclature of chain assemblies and their component parts shall be as illustrated in Figures 1 and 2; the figures do not define the actual form of the chain plates.

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