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# GB/T 12939-2015

Replacing GB/T 12939-2002

# Rims for Industrial Vehicles

(ISO 3739-3:2008, Industrial Tyres and Rims – Part 3: Rims, NEQ)

工业车辆轮辋规格系列



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**Standardization Administration of PRC.**

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# Foreword

This Standard was drafted as per the rules specified in GB/T 1.1-2009.

This Standard replaced GB/T 12939-2002 *Rims Series for Industrial Vehicles*; compared with 12939-2002, this Standard has the major technical changes as follows:

--- Modified the normative references (see Chapter 2);

--- Modified the terms and definitions (see Chapter 3);

--- Added the rim contour codes and diagrammatic views (see Chapter 4);

--- Increased part of 5° flat base rim (see Table 4, Table 5; Table 17 of 2002 Edition);

--- Increased 15° drop center rim (see 5.4);

--- Deleted part of rims (see 4.6, 4.7, 4.8, 4.11 of 2002 Edition);

--- Deleted Appendix A, Appendix B, and Appendix C from the previous version of standard.

This Standard was prepared through adopting the re-drafting method and referring to ISO 3739-3: 2008 *Industrial Tyres and Rims – Part 3: Rims*; this Standard's consistency degree with ISO 3739-3: 2008 is not equivalent.

This Standard was proposed by China Petroleum and Chemical Industry Federation.

This Standard shall be under the jurisdiction of National Technical Committee for Standardization of Tyres and Rims (SAC/TC 19).

Drafting organizations of this Standard: Zhongce Rubber Group Co., Ltd., Shandong Linglong Tyre Co., Ltd., Shantou Haoda Tyre Test Equipment Co., Ltd., Tianjin Jiurong Wheel Tech Co., Ltd., Beijing Research & Design Institute of Rubber Industry, Triangle Tyre Co., Ltd., and Guizhou Tyre Co., Ltd..

Chief drafting staffs of this Standard: Li Gongwu, He Jian, Chen Shaomei, Chen Xun, Gu Zheng, Mu Shouyong, Hua Yingchun, Qiu Yi, and Chen Manxue.

The historical editions replaced by this Standard are as follows:

--- GB/T 12939-1991, GB/T 12939-2002.

# Rims for Industrial Vehicles

## 1 Scope

This Standard specifies the contour terms, codes, contour shapes and dimensions for rims of industrial vehicles.

This Standard is applicable to the rim specification series used by the pneumatic tyres of the industrial vehicles.

## 2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 2933 Wheels/Rims for Pneumatic Tyres – Nomenclature, Designation and Marking

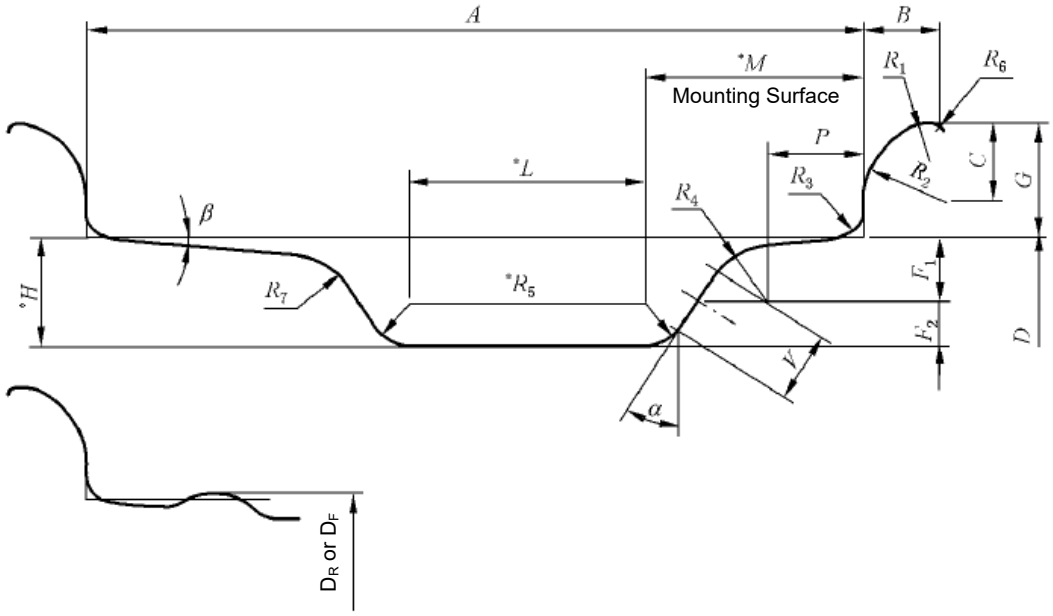
GB/T 6326 Tyre Terms and Definitions

## 3 Terms and Definitions

The terms and definitions stipulated in GB/T 2933 and GB/T 6326 are applicable to this Document.

## 4 Rim Contour Dimension Codes

The rim contour dimension codes can refer to Figure 1.




Instructions:

*A* – rim specified width;
*B* – flange width;
*C* – position dimension of flange radius;
*D* – rim specified diameter;
$F_1$, $F_2$ – position dimension of valve hole on rim;
*G* – flange height;
$D_R$, $D_F$ – bead seat round hump diameter;
*L* – groove bottom width;
*M* – position dimension of groove;
*P* – bead seat width;
$R_1$ – flange bond radius;
$R_2$ – flange radius;
$R_3$ – bead seat radius;
$R_4$ – groove top radius;
$R_5$ – groove bottom radius;
$R_7$ – groove side radius;
*V* – valve hole or groove dimension;
*a* – groove bottom angle;
*β* – bead seat angle.

NOTE 1: all dimensions marked with * are relevant to the mounting and dismounting of tyres on rims; they are the minimum dimension on the groove bottom of rim; *M* indicates limit dimension of the groove bottom position.

NOTE 2: groove top radius $R_4$ and groove bottom angle *a* are the important parameters for the mounting and dismounting of tyres on the rims.

NOTE 3: the mounting surface indicates where the tyre is mounted into the rim or the tyre is dismounted. For multi-piece rims, the mounting surface indicates the side where the flange is removable.

**Figure 1 Rim Contour**

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