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

GB/T 46720-2025

**General technical specification for bogies of urban rail transit
vehicles**

城市轨道交通车辆转向架通用技术条件

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the Ministry of Housing and Urban-Rural Development of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Standardization of Urban Rail Transit (SAC/TC 290). This document was drafted by: China Academy of Railway Sciences (Beijing) Engineering Consulting Co., Ltd., CRRC Qingdao Sifang Co., Ltd., and China Railway... Urban Rail Transit Center of China Academy of Railway Sciences Group Co., Ltd., Locomotive and Rolling Stock Research Institute of China Academy of Railway Sciences Group Co., Ltd. Beijing Jiaotong University, Wuxi Metro Group Co., Ltd., Shenyang Metro Group Co., Ltd., Southwest Jiaotong University, Xi'an Rail Transit Group Limited Liability Company, Beijing Subway Operation Co., Ltd., Beijing Rail Transit Construction Management Co., Ltd., Wenzhou Railway and Rail Transit Investment Co., Ltd. Group Co., Ltd., Guangzhou Metro Group Co., Ltd., Hefei Rail Transit Group Co., Ltd., CRRC Changchun Railway Vehicles Co., Ltd. CRRC Tangshan Locomotive & Rolling Stock Co., Ltd., CRRC Nanjing Puzhen Rolling Stock Co., Ltd., CRRC Zhuzhou Electric Locomotive Co., Ltd., CRRC Dalian Locomotive & Rolling Stock Co., Ltd. Vehicle Company Limited. The main drafters of this document are. Cheng Yongyi, Deng Wenhao, Niu Haiyan, Wang Yunfan, Chen Xinghua, Yu Zhenhua, Zhang Haitao, Zhang Yonggang, and Qiao Yuanwei. Dai Yuanting, Zhang Xiongfei, Cun Dongdong, Wang Lindong, Guo Yanhui, Zhu Shiyong, Shang Zhijian, Yue Xun, Ji Cheng, Chu Wanxi, Luo Ren, Wu Chunhui, Zhang Jin, Zhang Guannan Liu Xiao, He Zhiping, Hao Xiaowu, Xi Jiangfei, Xue Shihai,

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1 Scope

GB/T 46720-2025 is the Chinese national standard covering the metro bogie - the frame and its fatigue strength, the primary and secondary suspension, the wheelsets and axle boxes, the traction link and the brake mounting, and the tests a bogie has to pass before it carries anyone. First edition, under the Ministry of Housing and Urban-Rural Development, in force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026.

This document specifies the general requirements, component characteristic requirements, installation requirements, test methods, and inspection procedures for urban rail transit vehicle bogies. Rules, quality assurance and marking, packaging, transportation and storage. This document applies to newly designed and manufactured urban rail transit vehicles with steel wheel and steel rail systems and a maximum operating speed not exceeding 160 km/h. Vehicle bogies, including. Type A, Type B, and Type LB metro vehicle bogies; Type C-I and Type LC light rail vehicle bogies; and urban rapid rail vehicle bogies. Bogies. The same applies to bogies for other steel wheel and rail systems used in urban rail transit vehicles.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are listed below. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB 146.1 Standard gauge railway clearances - Part