

ICS 53.100
CCS P 97



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

GB/T 45047-2024

**Earth-moving machinery-Battery electric wheel
loaders-Technical requirements**

土方机械 纯电动轮胎式装载机 技术要求

Issued on: November 28, 2024

Implemented on: June 1, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

Preface	III
1 Scope	1
2 Normative references	1
3 Terms and Definitions	2
4 Parameter	2
5 Technical Requirements	2
6 Test methods	6
7 Inspection Rules	6
8 Marking, packaging, transportation and storage	8
Appendix A (Informative) Main parameters of electric loaders	10
Reference	11
Figure 1 High voltage warning mark	4
Table 1 Inspection Items	6
Table A.1 Main parameters of electric loader Table.....	10

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the China Machinery Industry Federation.

This document is under the jurisdiction of the National Technical Committee for Standardization of Earthmoving Machinery (SAC/TC334).

This document was drafted by: Guangxi Liugong Machinery Co., Ltd., XCMG Engineering Machinery Co., Ltd. Technology Branch, Shantui Engineering Machinery Co., Ltd., SINOMACH Changlin Co., Ltd., China Railway Changan Heavy Industry Co., Ltd., Xiamen XGMA Machinery Co., Ltd.

Company, Longgong (Shanghai) Machinery Manufacturing Co., Ltd., Xiamen XGMA Zhonglixing Intelligent Technology Co., Ltd., Sany Heavy Machinery Co., Ltd., Boreton Technology Technology Co., Ltd., Shandong Changlin Machinery Group Co., Ltd.,

Zhengzhou Yutong Mining Equipment Co., Ltd., Sichuan-Tibet Railway Technology Innovation Center Co., Ltd., Shanghai Qiyuanxin Power Technology Co., Ltd., Lovol Heavy Industry Group Co., Ltd., Fujian Jingong New Energy Technology Co., Ltd., Aiqidi Modern Diwanlun Engineering Machinery Co., Ltd., Zhongcha New Energy Heavy Industry (Shandong) Co., Ltd., Beijing Institute of Technology, Shandong Provincial Community Engineering Machinery Machinery Co., Ltd., China Automotive Parts (Xiamen) Co., Ltd., Tangshan Dingshi Automobile Manufacturing Co., Ltd., Qingzhou Inno Heavy Industry Machinery Co., Ltd.

Company, Tianjin Engineering Machinery Research Institute Co., Ltd.

The main drafters of this document are: Zhu Quanming, Han Bin, Huang Yajun, Shi Wei, Zhou Wei, Zou Zifan, Liu Pan, Zheng Cong, Gao Pengfei, Qiu Mingzhe, Gao Gongru, Li Xue, Liu Naisheng, Shuanzhu, Zhang Liang, Liu Rongguang, Lei Ming, Ji Quanliang, Wang Zhifu, Xu Jindong, Xiong Xiaoxin, Wang Liqun, Han Zhiguang, Chen Shuqiao, Mo Xiongchao, Lu Pan.

Earthmoving machinery electric wheel loader Technical requirements

1 Scope

This document specifies the parameters, technical requirements, inspection rules, marking, packaging, transportation and storage of pure electric wheel loaders for earth-moving machinery.

The corresponding test methods are described.

This document applies to the manufacture and inspection of pure electric wheel loaders.

2 Normative references

GB/T 2900.1

GB/T 4208-2017

GB/T 5226.1

GB/T 8419

GB/T 8498

GB/T 8595

GB/T 14711

GB/T 16935.1-2023

GB/T 16937

GB/T 18488

GB/T 19666

GB/T 20178

GB/T 20234.1

GB/T 20234.2

GB/T 20234.3

GB/T 20234.4

GB/T 20418

GB/T 20953

GB/T 21152-2018

GB/T 22358

GB/T 22359.1

GB/T 25602

GB/T 25604

GB/T 25684.3-2021

GB/T 27930