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

GB/Z 41084-2021

Carbon fiber dynamic foot

碳纤储能脚

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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 of Standardization Documents" drafted: Please note that some content of this document may be patented: The issuing agency of this document assumes no responsibility for identifying patents: This document is proposed by the Ministry of Civil Affairs of the People's Republic of China: This document is under the jurisdiction of the National Technical Committee on Standardization of Rehabilitation and Special Equipment for Persons with Disabilities (SAC/TC148): This document is drafted by: National Research Center for Rehabilitation Aids, Peking University, Beijing Gongdao Fengxing Intelligent Technology Co., Ltd: The main drafters of this document: Luo Yimin, Wang Qining, Tu Xiaoguang, Zhu Jinying: Carbon fiber storage legs

1 Scope

GB/Z 41084-2021 is the Chinese national standard on carbon fiber dynamic foot, in the field of health care technology. The /Z suffix marks it as a guiding technical document: it does not prescribe requirements that can be certified against, but sets out the technique, the method or the state of the art that the standards bodies recommend following. It was issued on 31 December 2021 by the State Administration for Market Regulation; Standardization Administration of China. As a guiding technical document it carries no separate date of entry into force: it applies from publication. Classification: ICS 11.040.40, CCS C45. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the product structure and product model, size and shape, technical requirements, inspection methods, inspection rules, and standards of carbon fiber energy storage legs: identification, packaging, transportation and storage: This document applies to carbon fiber storage legs in the weight class of 125kg and below:

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, dated citations documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document:

GB/T 191 Graphical signs of packaging, storage and transportation

GB/T 9174 General technical conditions for general cargo packaging

GB/T 10000 Chinese Adult Human Dimensions GB/T 14191:

1 Prosthetics and Orthotics Terminology Part 1: Basic Terminology for External Limb Prosthetics and External Orthotics

GB 14723 General parts for lower limb prostheses

GB/T 18375 (all parts) Structural inspection of prosthetic lower extremity prostheses

GB/T 31181 Requirements and test methods for prosthetic ankle-foot devices and foot components

3 Terms and Definitions

The terms and definitions defined in GB/T 14191:1 and the following terms and definitions apply to this document: 3:1 dynamicfoot A prosthetic foot with built-in elastic keel for energy storage and release: 3:

2 Prosthetic foot with built-in elastic keel made of carbon fiber composite material: 3:3 energy-storingcapability The ratio of energy released to stored energy in a prosthetic foot during one gait cycle: 3:4 lowactivitylevel Low exercise intensity, the prosthetic foot bears weak impact force: Example: walking slowly: 3:5 middleactivitylevel Moderate exercise intensity, the prosthetic foot withstands moderate impact: