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**NATIONAL STANDARD OF THE
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Electric prosthetic ankle

电动踝关节

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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 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 is issued by the Ministry of Civil Affairs of the People's Republic of China.

This document is under the jurisdiction of the National Technical Committee for Standardization of Rehabilitation and Special Equipment for Persons with Disabilities (SAC/TC148).

This document was drafted by: National Rehabilitation Assistive Devices Research Center, Peking University, and Beijing Gongdao Fengxing Intelligent Technology Co., Ltd.

The main drafters of this document are Luo Yimin, Wang Qining, Tu Xiaoguang and Zhu Jinying. Electric ankle joint

1 Scope

This document specifies the structure and composition, technical requirements, inspection rules and marking, packaging, transportation and storage of electric ankle joints, and describes the relevant Appropriate test method.

This document applies to the design, manufacture and testing of electric ankle joints for lower limb amputees weighing no more than 100 kg.

2 Normative references

GB/T 191

GB/T 2423.1

GB/T 2423.3

GB/T 3767

GB/T 4208

GB/T 9174

GB/T 10000

GB/T 13461

GB/T 14191.1

GB 14723

GB/T 17626.2

GB/T 17626.3

GB/T 17626.8

GB/T 18375

GB 31241

3 Terms and Definitions

The terms and definitions defined in GB/T 13461 and GB/T 14191.1 and the following apply to this document.

3.1 A prosthetic ankle joint with adaptive control of motion during the swing or recoil phase

Driven by a motor and a transmission mechanism, the sensor collects the amputee's movement information, and the controller recognizes the walking gait to achieve support.

3.2 ankle output torque

The magnitude of the torque output during active movement of the ankle joint driven by the motor and transmission mechanism.