

ICS 11.180
CCS C 45



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

GB/T 14728-1993

Replacing GB/T 14728.1-2006

**Assistive products for walking manipulated by both arms -
Requirements and test methods - Part 1: Walking frames
(English Translation)**

Issued on: September 29, 2024

Implemented on: October 1, 2025

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

Preface	
Introduction	
1 Scope	
2 Normative references	
3 Terms and Definitions	
4 Equipment	
5 Test conditions	
6 General requirements and test methods	
6.1 Risk Analysis	
6.2 Detachable frame walker	
6.3 Fasteners	
6.4 User mass/maximum load	
6.5 Structural requirements	
6.6 Brakes	
6.7 Handle	
6.8 Legs and feet	
7 Materials	
7.1 General	
7.2 Flammability	
7.3 Biocompatibility and toxicity	
7.4 Infection and microbial contamination	
7.5 Corrosion resistance	
8 Liquid enters	
9 Temperature of the part in contact with human skin	
10 Safety of moving parts	
10.1 Squeeze	
10.2 Mechanical wear	
11 Prevent body parts from getting stuck	
11.1 Holes and gaps	
11.2 V-shaped opening	
12 Folding, adjusting and locking device	
12.1 General	

12.2	Folding device
12.3	Locking device
13	Lifting and carrying handles
13.1	General
13.2	Requirement
13.3	Test method
14	Surfaces, Angles and Edges
15	Static stability
15.1	Static stability requirements
15.2	Static stability test method
16	Static load strength
16.1	Static load strength of frame type walker
16.2	Static load strength of legs with foot pads
17	Durability test
17.1	General requirements
17.2	Durability requirements
17.3	Durability test method
18	Ergonomic principles
19	Packaging
20	Information provided by the manufacturer
20.1	General
20.2	Information marked on the product
20.3	User Manual
20.4	Inspection Report
Appendix A (Informative) Hazard factors to be considered when designing products	
A.1	General Principles
A.2	Expected risks and factors of general rehabilitation assistive devices
A.3	Hazards of ergonomic factors for different users
A.4	Hazards caused by mechanical damage, inadequate maintenance and/or aging
Appendix B (Informative) General Recommendations	
B.1	Article 7.2 - Flammability
B.2	Article 7.4.2 - Cleaning and disinfection
B.3	Chapter 18 - Ergonomic Principles
B.4	Chapter 19 - Packaging
Reference	

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.

This document is part 1 of GB/T 14728 "Requirements and test methods for dual-arm operated walkers". GB/T 14728 has been published the following parts.

--- Part 1: Frame type walkers;

--- Part 2: Wheeled walkers;

--- Part 3: Desktop walkers.

This document replaces GB/T 14728.1-2006 "Dual-arm-operated walkers - Requirements and test methods - Part 1: Frame-type walkers" Compared with GB/T 14728.1-2006, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) The definition of frame-type walker has been changed (see 3.16, 3.14 of the 2006 edition), and brakes (see 3.1), parking brakes (see 3.9), terms and definitions of pressure brake (see 3.10), service brake (see 3.13), and wheel width (see 3.17);
- b) Added a chapter on "Equipment" (see Chapter 4);
- c) The test conditions have been changed (see Chapter 5, 5.1 of the 2006 edition);
- d) Added "Risk analysis" (see 6.1), "Detachable frame walker" (see 6.2), "Fasteners" (see 6.3), "User quality/maximum "Large load" (see 6.4), "brake" (see 6.6);
- e) Changed "reference index" to "structural requirements" and added wheel size requirements (see 6.5, 4.3 of the 2006 edition);
- f) The requirements for handles (see 6.7, 4.4 of the 2006 edition) and the requirements for legs and foot pads (see 6.8, 4.5 of the 2006 edition) have been changed;
- g) Changed "materials and finished products" to "materials" in the "General Principles" (see 7.1, 4.7 of the 2006 edition);
- h) Added "flammability", "biocompatibility and toxicity", "infection and microbial contamination" and "corrosion resistance" (see 7.2 to 7.5);
- i) Added a chapter on "Liquid Ingress" (see Chapter 8);
- j) Added a chapter on "Temperature of parts in contact with human skin" (see Chapter 9);
- k) Added a chapter on "Safety of Moving Parts" (see Chapter 10);
- l) Added a chapter on "Preventing various parts of the body from getting stuck" (see

Chapter 11);

m) Changed "adjustment device" to "folding, adjusting and locking device" (see Chapter 12, 4.6 of the 2006 edition);

n) Added a chapter on "Lifting and carrying handles" (see Chapter 13);

o) Added a chapter on "Ergonomics Principles" (see Chapter 18);

p) Added a chapter on "Packaging" (see Chapter 19);

q) Added "General Principles" (see 20.1) and "User Manual" (see 20.3);

r) Changed "marking and labeling" to "information marked on the product" (see 20.2, Chapter 6 of the 2006 edition);

s) The inspection report requirements have been changed (see 20.4, Chapter 7 of the 2006 edition).

This document is equivalent to ISO 11199-1:2021 "Dual-arm-operated walkers - Requirements and test methods - Part 1: Frame-type walkers" "Instrument".

Introduction

A frame walker is a type of two-arm operated walker. People who need help walking can use a frame walker.

The device can provide stable support when people walk and stand, and reduce the risk of falling.

GB/T 14728 "Requirements and test methods for dual-arm operated walkers" is intended to consist of three parts.

--- Part 1: Frame-type walkers. The purpose is to provide requirements and test methods for frame-type walkers.

--- Part 2: Wheeled walkers. The purpose is to provide requirements and test methods for wheeled walkers.

--- Part 3: Desktop walkers. The purpose is to provide requirements and test methods for desktop walkers.

Requirements and test methods for dual-arm operated walkers Part 1: Frame-type walkers

1 Scope

This document defines the terms and definitions of frame-type walkers and specifies the use of frame-type walkers without accessories (unless specified in a special test procedure).