ZS Robotics H125 Four-Way Shuttle - Product Data Sheet

Product Overview

The ZS Robotics H125 is an ultra-thin four-way shuttle designed for high-density automated pallet storage applications.

With a 125 mm body height and 1500 kg rated load, the H125 provides flexible pallet handling, stable operation and

efficient warehouse automation.

Key Features

- Ultra-thin 125 mm body design
- Four-way movement capability
- 1500 kg rated payload
- 20-wheel load distribution architecture
- Servo torque feedback based pallet weighing technology
- Designed according to the philosophy: "Safety First. Easy Always."

Technical Parameters

Model: ZS-H125

Product Type: Four-Way Shuttle

Product Dimensions: 1106 x 940 x 125 mm

Applicable Pallet: 1100 <= W <= 1500 mm; 1000 <= D <= 1300 mm

Product Weight: 300 kg

Rated Load: 1500 kg

Performance

Operating Speed: 1.5 - 2.0 m/s

Reversal Time: 2.5 s

Positioning Accuracy: ±2 mm

Battery

Battery Capacity: 50 Ah

Battery Type: Lithium Iron Phosphate

Charging Time: 1 - 2 h

Battery Life: 10 - 12 h

Environment

Applicable Temperature: -10°C ~ 45°C

20-Wheel Architecture

The H125 adopts a 20-wheel architecture consisting of main-channel and sub-channel wheel units.

The increased contact points improve load distribution, reduce concentrated loads and enhance operational stability.

Pallet Weighing Function

The integrated servo torque feedback based weighing technology enables pallet weight detection during lifting.

Weighing Range: 100-1500 kg

Accuracy: ±3%

No additional weighing equipment is required.

Related Innovation Patents

- Servo torque feedback based real-time pallet weighing method and system

- Multi-wheel four-way shuttle structure