

DCS-LD Series Electric Flow Scale

Product Introduction

Equipment Overview

(1) Applications

The DCS-LD Series Electric Flow Scale is a high-speed automatic weighing system specially designed for free-flowing granular materials. It provides accurate and continuous quantitative weighing through stable material feeding control.

It is widely used in:

Grain processing plants

Chemical industries

Grain storage facilities

Ports and bulk material terminals

Other industries requiring continuous weighing of raw materials

Main Components

The DCS-LD Series Electric Flow Scale mainly consists of:

- Feeding Hopper
- Weighing System
- Electrical Control System

Figure 1 DCS-50LD Overall Structure

Figure 2 DCS-100LD Overall Structure

Figure 3 DCS-200LD Overall Structure

Figure 4 DCS-300LD Overall Structure

Figure 5 DCS-400LD Overall Structure

(The drawings show the overall dimensions and machine layout.)

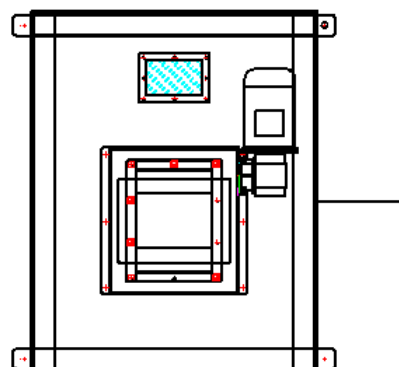
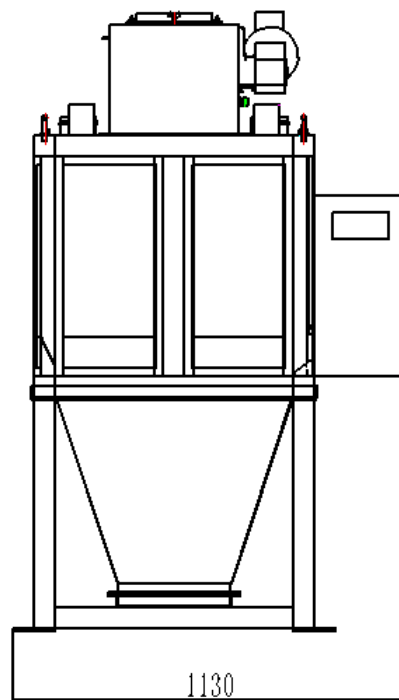
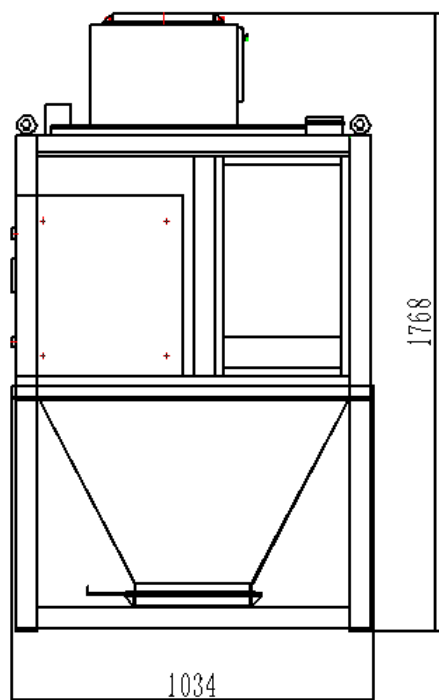


图 1 DCS-100LD 设备总览

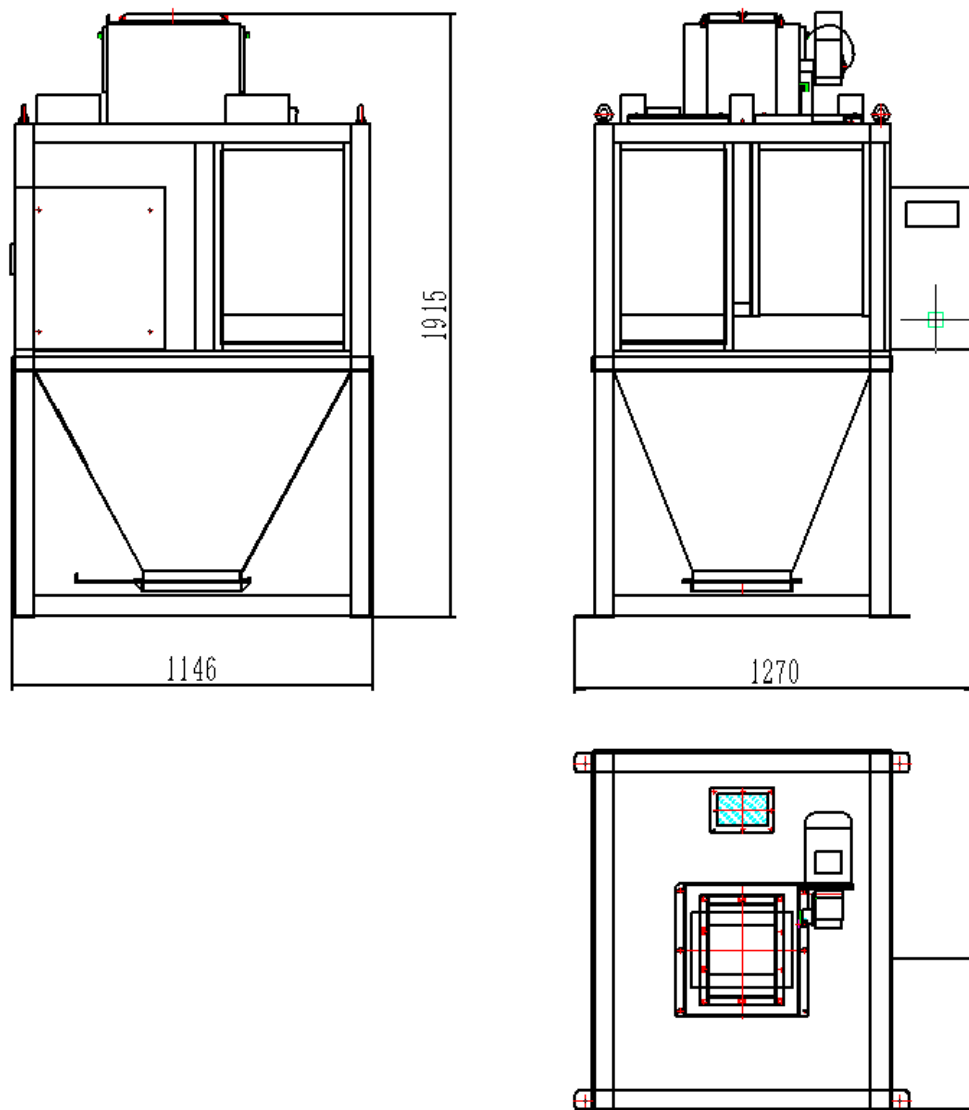


FIGURE 2 DCS-200LD

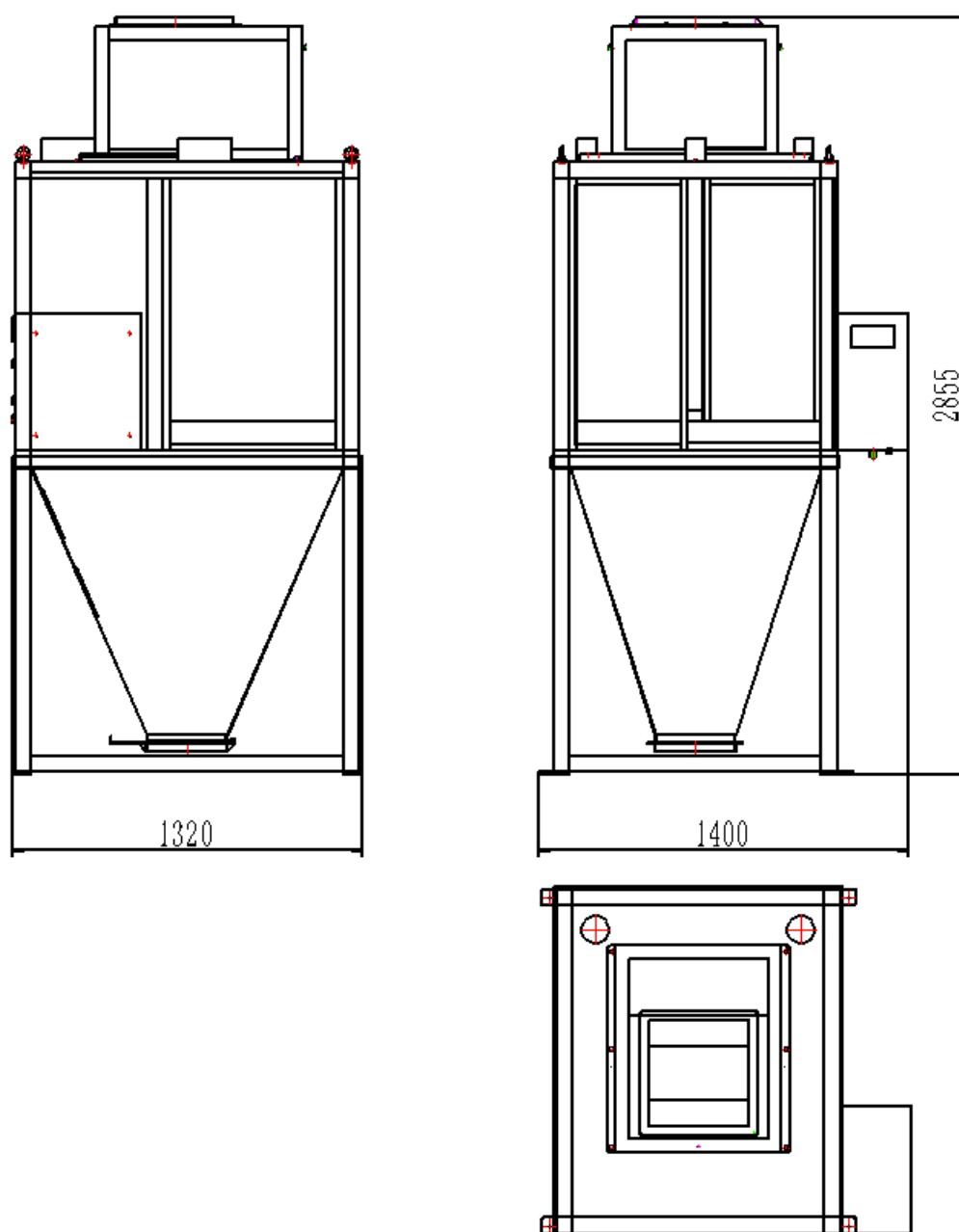


FIGURE 3 DCS-
300LD

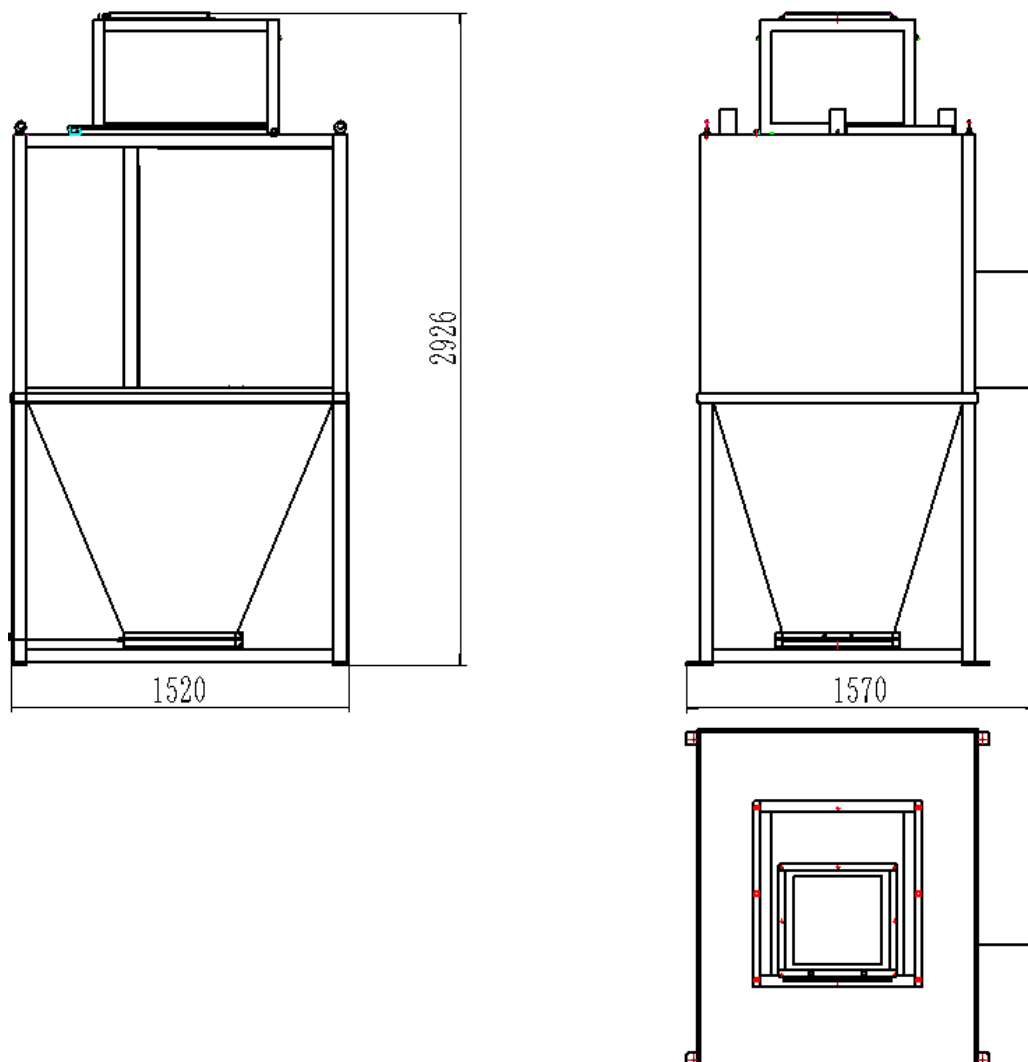
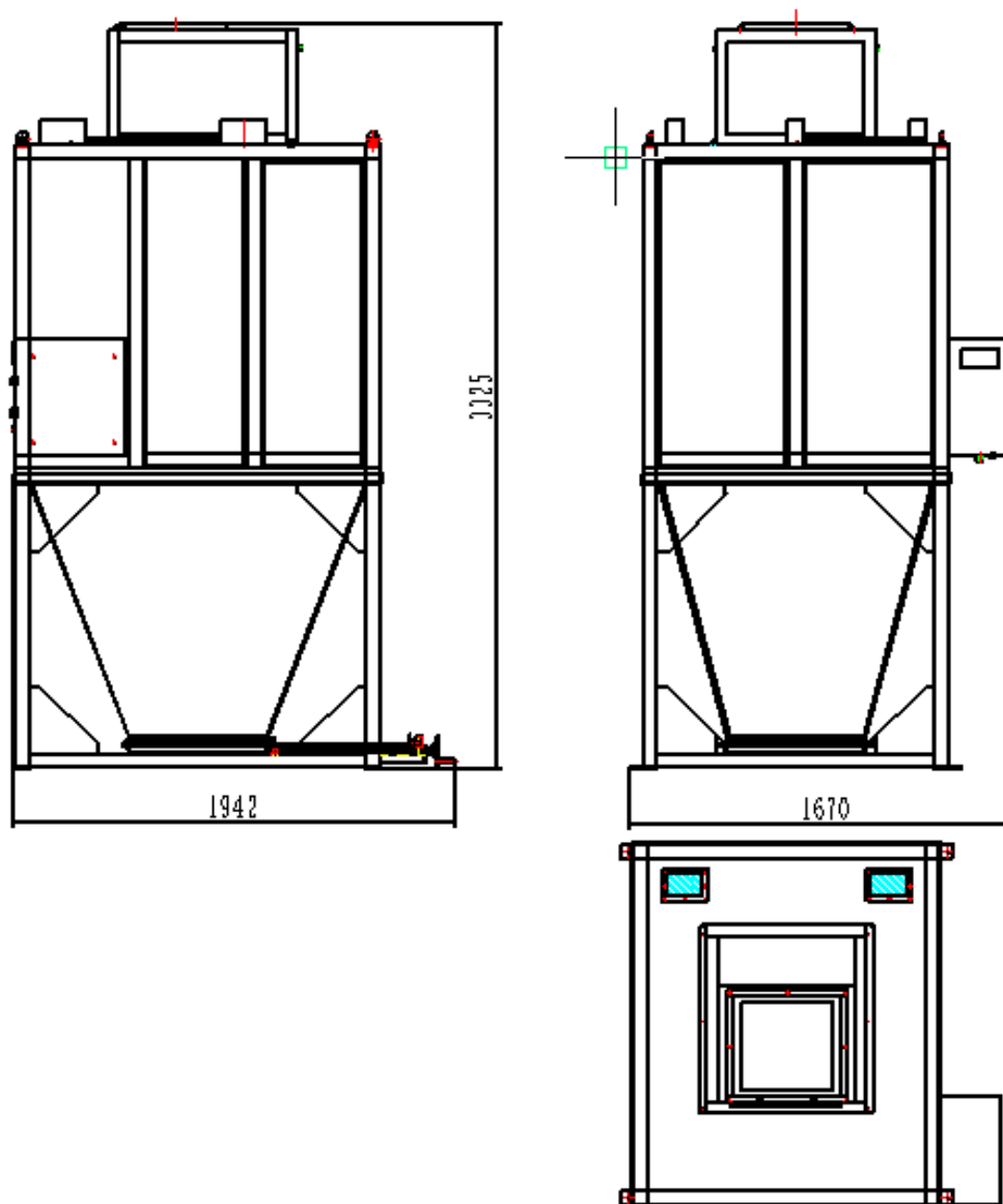


FIGURE 4 DCS-400LD



Main Technical Specifications

Model	DCS-50LD	DCS-100LD	DCS-200LD	DCS-300LD	DCS-400LD
Display	Intelligent Digital Weighing Controller				
Capacity per Batch	50 kg	100 kg	200 kg	300 kg	300 kg
Graduation	10 g	10 g	20 g	20 g	50 g
Weighing Capacity	≤20,000 kg/h (Paddy Rice)	≤40,000 kg/h	≤60,000 kg/h	≤80,000 kg/h	≤100,000 kg/h
Accuracy Class	Class 0.5				
Operating Temperature	0–40°C				
Relative Humidity	<90%				
Power Supply	AC220V ±5%, 50Hz / AC380V ±5%, 50Hz				
Installed Power	0.9 kW	0.9 kW	1.1 kW	1.1 kW	1.1 kW
Dimensions (L×W×H)	1034×1130×1768 mm	1146×1270×1915 mm	1320×1400×2855 mm	1520×1570×2926 mm	1670×1942×3325 mm

Note: The above data are measured using paddy rice under standard testing conditions.

Features

- Three-Load Cell Support Structure

A specially designed three-load-cell support system eliminates measurement errors caused by uneven material distribution inside the weighing hopper, ensuring high weighing accuracy.

- Fully Sealed Load Cell Chamber

The load cells are installed inside a sealed protective chamber that effectively prevents dust, rice powder, and moisture from entering, greatly extending service life and reducing maintenance.

- Motor-Driven Feeding Mechanism

The feeding mechanism is driven entirely by electric motors.

No compressed air is required, reducing operating costs and simplifying installation.

- Manual & Automatic Operating Modes

Both manual and automatic modes are available.

Manual mode allows independent control of feeding and discharge mechanisms for convenient cleaning and blockage removal.

Once the target weight is set, pressing the AUTO button starts continuous automatic weighing and discharge.

- High-Precision Weighing Control

Equipped with high-quality load cells and an advanced weighing controller featuring a high-performance A/D converter, ensuring:

High accuracy

Excellent stability

Reliable long-term operation

- Data Management Functions

Supports:

Automatic production statistics

Printing

Data communication

for easy production management.

- Stainless Steel Contact Parts

All material-contact components are made of stainless steel, providing:

Excellent corrosion resistance

Long service life

Compliance with food industry requirements

Main Components

Component	Brand
Weighing Controller	GEMAN
Load Cell	Mettler Toledo (USA) or HBM (Germany)
Gear Reducer	Tsinghua Unigroup
Proximity Switch	ELCO (Switzerland)
Relay	IDEAC (Japan)