

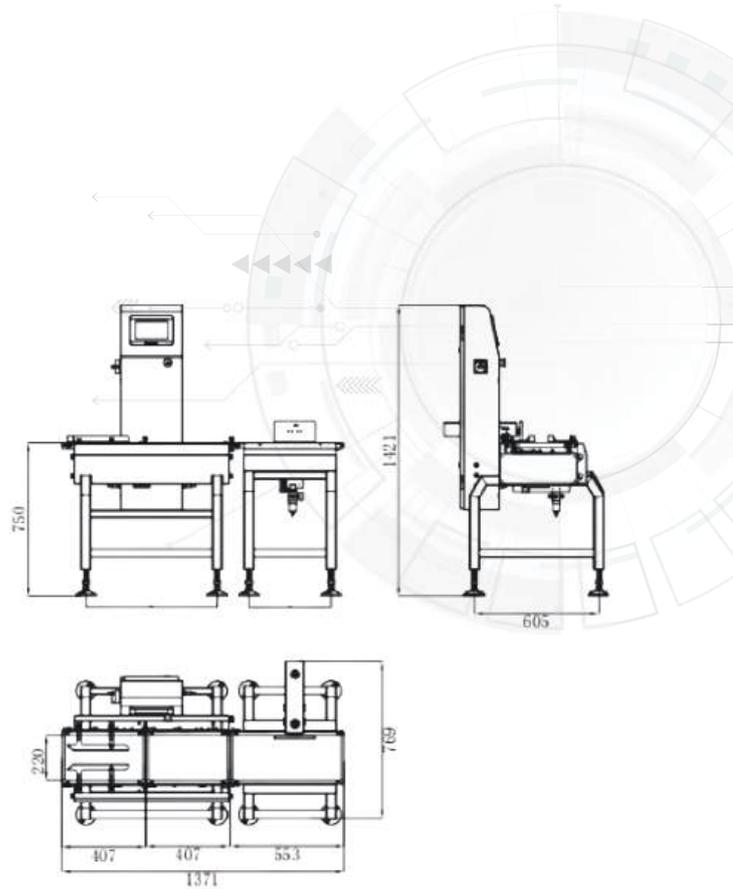
# BD-SCW220

Fully-automatic Checkweigher

MODEL SERIES:

SCOOVA

## Physical Dimension:



## Product Application

This equipment is employed for automated mass measurement, establishing weight classification thresholds, and categorizing items according to specifications across various automated manufacturing operations and distribution networks. It finds extensive application for in-line quality verification in the pharmaceutical, food, toy, hardware, and chemical manufacturing sectors. Furthermore, it successfully substitutes manual weighing procedures, thereby enhancing operational efficiency, measurement consistency, and overall measurement dependability.

## Working Principle

The fully-automatic checkweigher comprises three primary conveyor systems: an intake conveyor, a measurement conveyor, and a discharge conveyor.

**Intake Conveyor :** Accelerates product movement to maintain uniform spacing between individual items and facilitate uninterrupted progression to the measurement section.

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**Measurement Conveyor :** Gathers weight information throughout the measurement process. As items advance across the measurement section, weight readings are continuously recorded, assessed, and processed to establish the item's total mass. Simultaneously, the measurement mechanism evaluates whether the recorded mass falls within the established specifications.

**Discharge Conveyor:** Permits compliant items to proceed along the transport path. When items deviate from the acceptable mass range, the rejection system engages to remove out-of-specification items (either excessively heavy or insufficiently heavy).

## Features

1. Extended-size color LCD interactive screen interface featuring straightforward controls and clear visual representation.
2. Accommodates numerous interface languages with customizable selections; standard options include Mandarin and English.
3. Incorporates photoelectric sensing for identification of vacant containers; enables variable conveyor belt acceleration.
4. Multi-tier access codes for parameter adjustment, restricted to authorized supervisory personnel.
5. Item mass information transmissible via universal serial bus connection.
6. Backup power functionality maintains settings in the event of unforeseen electrical interruption.
7. Retains configurations for up to 100 distinct product varieties for convenient accessibility.
8. Statistical analysis function: Tracks cumulative items meeting standards/items falling below specifications/items exceeding specifications throughout defined periods.
9. Uncomplicated mechanical architecture with snap-connection conveyor belt allowing convenient disassembly, sanitization, and servicing. Meets GMP and HACCP compliance requirements.
10. Intelligent real-time modification and progressive reference-point positioning, incorporating zeroing methodology throughout ongoing equipment operation, to guarantee dependable detection precision.
11. Visual representation presenting the analytical distribution of categorization findings, displaying the last 10 categorization result figures.
12. Incorporates patented methodology, proprietary microcontroller framework, proprietary signal-conditioning methodology, demonstrating superior accuracy and stability. Guarantees equipment durability.

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## Configuration List:

Component	Manufacturer
Load cell	GERMAN HBM
Inverter	Mitsubishi
Touch screen	Wilton
Conveyor belt	Habasit , Switzerland
Pneumatic components	AirTAC
Photoelectric sensors	Sick
Bearing	Japan NSK
Motor belt	MITSUBOSHI
Switch	Schneider
Machine material	Stainless steel SU304

## Basic Parameter:

Model	BD-SCW220 (SCOOVA)	
Weighing Range	5-1500 g	
Accuracy	±0.5 g-1 g (Depend on product)	
Division Scale	0.1 g	
Speed	50 pcs/min	
Limited of Product	Length	300 mm
	Width	220 mm
	Width	3-200 mm
Operation Method	Touch screen	
Operation Interface	7 inch touch screen	
Rejector	Push rejector	
The height from Belt to ground	750±50mm (Can be customized according to customer requirements)	
Main Material	Stainless steel (SUS304)	
Power Supply	AC220V 50-60HZ	
Power	About 200W	

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## Operation screen:



The primary operational display presents a simplified interface with essential information and control buttons positioned for convenient access. The subsequent display shows the analytical interface presenting statistical measurements and trend information.

## Main Operation Menu

The functions of the control buttons and indicators are outlined as follows:

**SET** : Enters configuration mode, enabling modification of essential settings including weight thresholds, reference specifications, product identification, sequence numbers, pace settings, ejection duration, and data file handling. This button becomes inaccessible during active operation; availability is limited to powered-down conditions for user protection.

**ZERO** : Resets the measurement platform reading to establish a baseline reference point (zero-point calibration).

**W-W** : Alternates between the primary operational display and the analytical statistics display.

**CE**: Removes all current display statistics (archived data remains preserved).

**START**: Engages and disengages conveyor belt operation.

**ID**: This device accommodates 100 distinct configuration collections, permitting customized product standards assignments with corresponding numerical designations. Designated numbers can be conveniently retrieved during subsequent sessions.

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**NAME :** Designations can be customized without limitation, leveraging alphanumeric characters, simplifying documentation and monitoring, with naming elements consisting of numerals and characters.

**TOTAL :** Denotes the cumulative count of items processed in the present manufacturing run.

**Qualified :** Expresses the percentage ratio of acceptable items relative to rejected items in the present manufacturing run.

**Speed :** Documents the throughput quantity processed within a defined timeframe during present operations.

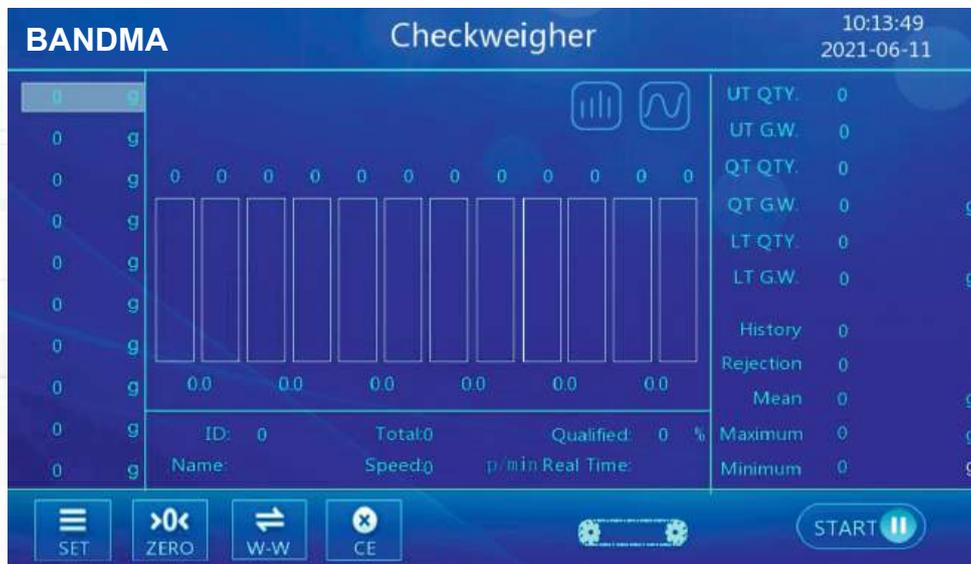
**Upper Limit :** Specifies the ceiling threshold for permissible mass. Items surpassing this specification display their measured mass with a crimson background.

**Reference :** Designates the target mass specification. Items corresponding to this specification show measured mass with a blue background.

**Lower Limit :** Specifies the baseline threshold for permissible mass. Items falling short of this specification display their measured mass with a yellow background.

**Remark :** During powered-down conditions, the displayed figure represents the actual scale reading. During powered-on operation, the displayed figure represents the preceding item's measurement, updating solely upon subsequent product detection.

## Statistical Operation Interface



Preceding 10 measurements appear on the left side with information renewing sequentially in a descending manner. Selecting removal button resets values to nil.

**Real Time :** Displays the measured mass value sensed by the present measurement stage.

**UTQTY:** Cumulative count of items exceeding the top threshold.

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**UTG.W.:** Total mass of items exceeding the top threshold.

**QTQTY:** Cumulative count of items within acceptable parameters.

**QTG.W.:** Total mass of items within acceptable parameters.

**LTQTY:** Cumulative count of items beneath the baseline threshold.

**LTG.W.:** Total mass of items beneath the baseline threshold.

**History :** The comprehensive count for this manufacturing run (the compilation of top threshold + qualified items + baseline threshold).

**Rejection :** The comprehensive count of non-compliant items for this manufacturing run (top threshold + baseline threshold).

**Mean:** The mathematical average spanning all items in this manufacturing run.

**Max.:** The greatest figure encountered throughout all items in this manufacturing run.

**Min.:** The lowest figure encountered throughout all items in this manufacturing run.

The operational approach is user-friendly, intelligent, and expeditious. Following standard configuration and specification of upper and lower parameters alongside reference-point information, the device accomplishes its function through multiple automatic adjustments utilizing standardized reference items.

## After Sales Service

Customer satisfaction and post-purchase assistance represent the paramount considerations for clientele and demonstrate the competency of solution providers. Following successful equipment deployment, we deliver comprehensive assistance, encompassing periodic facility evaluations, telecommunications aid, and supplementary methodologies. Our organization has built a team of technical consultants to oversee our clientele's systems in a unified manner, thereby ensuring operational continuity with complete confidence.

As a manufacturing-oriented business, we possess confidence regarding our product's dependability; nevertheless, we acknowledge that all products necessitate post-purchase assistance.

**Warranty Service :** Equipment receives comprehensive protection spanning 12 calendar months beginning from the activation date.

**Maintenance Service :** If complications occur during device use that surpass your problem-solving capability, reach out to our technical experts at any moment via telecommunications or distance-based consultation to address concerns. For on-location post-purchase assistance, we dispatch trained experts to your installation after notification (within 24 hours for same-region deliveries and within 48 hours for distant locations, subject to exemptions for extraordinary situations).

**Lifetime Service :** Following completion of the initial protection duration, lasting assistance continues indefinitely for your system. Comprehensive component availability is furnished regularly at advantageous pricing.

**File Service :** Comprehensive documentation is established for each purchaser. This facilitates continuous observation of system functionality and encompasses continuous tele-communications assistance.

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