

BTEK BTF606010KWT103SB

B-Tek BT-F-6060C Floor Scale User Manual

Model: BT-F-6060C (BTF606010KWT103SB)

1. PRODUCT OVERVIEW

The B-Tek BT-F-6060C Floor Scale Platform, also known as the Clydesdale floor scale, is engineered for robust performance in various industrial, commercial, and agricultural environments. This high-capacity scale is designed to accurately measure heavy loads, supporting capacities up to 4500 kg (approximately 10,000 lbs for this specific model, though the product description mentions up to 30,000 lbs for the series and 20,000 lbs for NTEP approved models). Its durable construction ensures reliability and longevity in demanding applications.

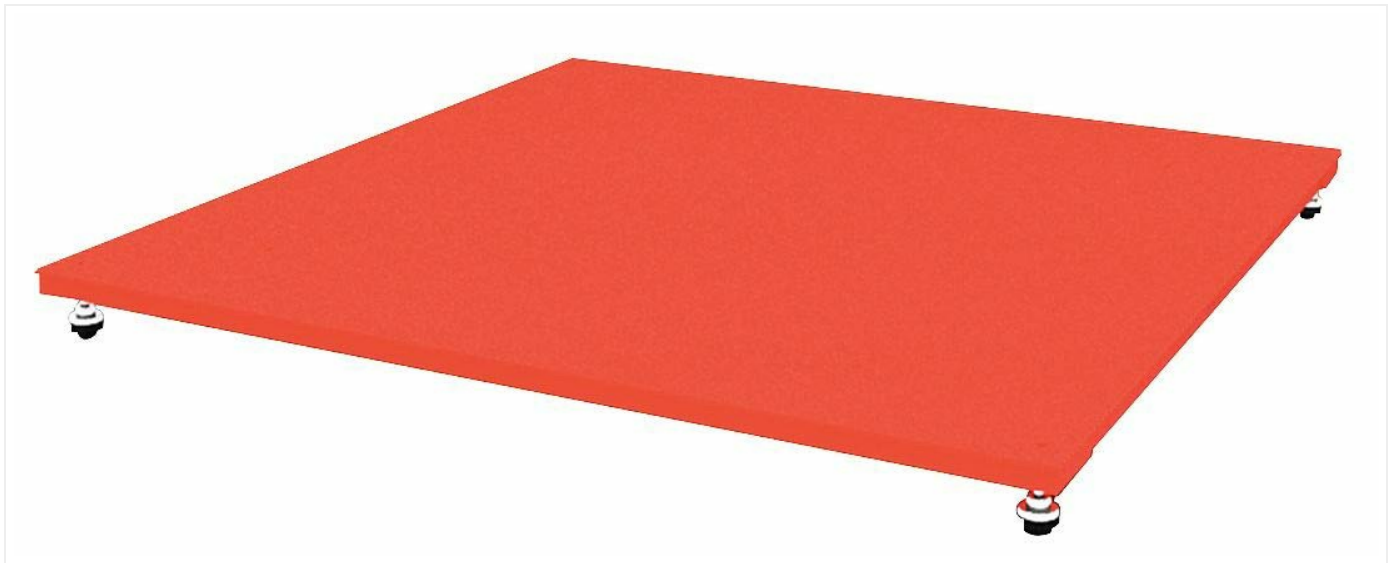


Figure 1: B-Tek BT-F-6060C Floor Scale Platform. This image shows the rectangular scale platform with four adjustable feet, designed for stable and accurate weighing. The platform has a textured surface, indicating a non-slip design suitable for industrial use.

2. KEY FEATURES

- **Installation Versatility:** Designed for both above-ground and pit installations.
- **High Capacity:** NTEP approved capacities ranging from 2,500 to 20,000 lb.
- **Deck Height:** 4-3/8" deck height for 2,500 - 10,000 lb models, and 5-3/8" for 20,000 lb models.
- **Platform Sizes:** NTEP platform sizes available from 2' x 2' to 8' x 10'.
- **Durable Deck:** Features a tread plate deck (smooth plate option available) for enhanced grip and durability.
- **Robust Structure:** Constructed with a formed c-channel sub-structure for superior strength.

- **Easy Access:** Includes a top access junction box (side access option available) for convenient maintenance.
- **Advanced Display:** Configurable White LED backlit display for clear readings.
- **Environmental Protection:** Stainless steel NEMA 4X / IP65 enclosure ensures protection against dust and water.
- **User Interface:** Wear-resistant display panel overlay.
- **Power Supply:** Internal 100-240 VAC power supply and a sealed lead-acid battery providing up to 58 hours of typical single-cell battery operation.
- **Connectivity:** Screw terminals for load cell wiring and one duplex RS232 port.
- **Measurement Units:** Supports Lb., oz., lb. : oz., Kg, and g.
- **Operating Modes:** Includes parts counting mode.
- **Resolution:** Selectable capacity range from 5 to 20,000 units, with a maximum displayed resolution of 20,000 divisions.
- **User-Friendly:** Simple menu navigation and configuration.

3. WHAT'S IN THE BOX

Upon unpacking, verify that all components are present and undamaged. The standard package for the B-Tek BT-F-6060C Floor Scale includes:

- One (1) B-Tek BT-F-6060C Floor Scale Platform
- One (1) Compatible Weight Indicator

Note: Additional accessories or specific cables may be sold separately. Refer to your purchase order for a complete list of included items.

4. SETUP AND INSTALLATION

Proper setup is crucial for accurate and safe operation of your B-Tek floor scale. It is recommended that installation be performed by qualified personnel.

4.1 Site Preparation

- **Surface:** Ensure the installation surface is level, stable, and capable of supporting the maximum rated capacity of the scale plus the weight of the scale itself.
- **Environment:** Avoid locations with excessive vibration, extreme temperature fluctuations, or direct exposure to strong air currents, which can affect weighing accuracy.
- **Power:** Verify that a suitable 100-240 VAC power outlet is available within reach of the indicator's power cable.

4.2 Scale Placement

1. Carefully position the floor scale platform in the desired location.
2. Adjust the four leveling feet on the underside of the platform until the scale is perfectly level. Use a spirit level across the length and width of the platform to ensure accuracy.
3. Ensure all feet are firmly in contact with the ground and the platform does not rock.

4.3 Indicator Connection

1. Connect the load cell cable from the scale platform's junction box to the designated load cell input on the weight indicator. Refer to the indicator's specific manual for detailed wiring instructions, especially for screw terminals.

2. Connect the power cable to the indicator and then to a suitable power outlet.
3. Power on the indicator. It should perform a self-test and display a zero reading.

4.4 Calibration

Calibration is essential for accurate weighing. This process typically involves placing known weights on the scale and adjusting the indicator to match. Refer to the specific weight indicator's user manual for detailed calibration procedures, as these can vary significantly between models. It is recommended to use certified test weights for calibration.

5. OPERATING INSTRUCTIONS

This section provides general operating guidelines. For detailed instructions on specific functions, consult the manual for your B-Tek weight indicator.

5.1 Basic Weighing

1. Ensure the scale is powered on and displays a stable zero. If not, press the **ZERO** or **TARE** button to zero the scale.
2. Carefully place the item to be weighed in the center of the scale platform.
3. Wait for the weight reading on the indicator to stabilize. The stable weight will be displayed.
4. Remove the item from the platform. The display should return to zero or a negative value if tare was applied.

5.2 Changing Units

Your indicator supports various units including pounds (Lb.), ounces (oz.), pounds:ounces (lb.:oz.), kilograms (Kg), and grams (g). Typically, a **UNIT** button or a menu option allows you to cycle through or select the desired unit of measurement.

5.3 Parts Counting Mode

To use the parts counting feature:

1. Enter the parts counting mode on your indicator (refer to indicator manual).
2. Place a known quantity of items (e.g., 10, 20, 50 pieces) on the scale.
3. Input the quantity of the sample into the indicator. The indicator will calculate the average piece weight.
4. Remove the sample and place the bulk quantity of items on the scale. The indicator will display the total count.

6. MAINTENANCE AND CARE

Regular maintenance ensures the longevity and accuracy of your B-Tek floor scale.

6.1 Cleaning

- Disconnect the power to the indicator before cleaning.
- Wipe down the scale platform and indicator with a damp cloth and mild detergent.
- Do not use abrasive cleaners, solvents, or high-pressure water jets, as these can damage the finish or internal components.
- Ensure no liquids enter the junction box or indicator housing. The NEMA 4X / IP65 enclosure provides protection against splashes, but direct immersion or strong jets should be avoided.

6.2 Inspection

- Periodically inspect the load cell cables for any signs of wear, fraying, or damage.

- Check the leveling feet to ensure they are secure and the scale remains level.
- Ensure the area around and under the scale is clear of debris that could interfere with weighing.

6.3 Battery Care

If your indicator uses a sealed lead-acid battery, ensure it is regularly charged to maintain its lifespan. Avoid fully discharging the battery frequently.

7. TROUBLESHOOTING

This section addresses common issues you might encounter. For more complex problems, contact B-Tek customer support.

Problem	Possible Cause	Solution
No display on indicator	No power; loose power cable; faulty power supply.	Check power connection; ensure outlet is live; check internal battery charge.
Inaccurate readings	Scale not level; debris under platform; damaged load cell; needs calibration.	Level the scale; clear debris; inspect cables; perform calibration.
Fluctuating readings	Vibration; air currents; unstable surface; faulty load cell.	Relocate scale to stable area; shield from drafts; check load cell connections.
"OVERLOAD" or "ERROR" message	Weight exceeds capacity; damaged load cell; incorrect calibration.	Remove excess weight; inspect load cells; recalibrate.

8. SPECIFICATIONS

Attribute	Detail
Model Number	BTf606010KWT103SB (BT-F-6060C)
Brand	BTEK
Weight Limit	4500 Pounds (approx. 2041 kg)
Material	Stainless Steel (for certain components, likely the enclosure)
Item Weight (Scale Only)	350 Pounds (approx. 158.7 kg)
Package Dimensions	60 x 60 x 10 inches
Manufacturer	B-TEK
First Available	December 9, 2015
NTEP Capacities	2,500 - 20,000 lb. (model specific)
Deck Height	4-3/8" (2,500 - 10,000 lb models), 5-3/8" (20,000 lb models)
Platform Sizes (NTEP)	2' x 2' - 8' x 10' (model specific)

Attribute	Detail
Display	Configurable White LED backlit
Enclosure Rating	Stainless steel NEMA 4X / IP65
Power Supply	Internal 100-240 VAC, Sealed lead-acid battery (58-hour typical operation)
Connectivity	(1) duplex RS232 port
Max Displayed Resolution	20,000 divisions

9. WARRANTY AND SUPPORT

B-Tek products are manufactured to high standards of quality and reliability. Specific warranty terms and conditions for the BT-F-6060C Floor Scale are typically provided at the time of purchase or can be found on the official B-Tek website. It is recommended to register your product to ensure full warranty coverage.

For technical support, service, or warranty claims, please contact B-Tek customer service directly. Have your model number (BTF606010KWT103SB) and purchase date ready when contacting support.

Note: No official seller videos were provided in the product data for this manual. For visual guides or demonstrations, please check the manufacturer's official website or authorized distributors.

