

# *Lantech*<sup>®</sup>

## **CFT-6**

### **Containment Force Tool**



## General Data

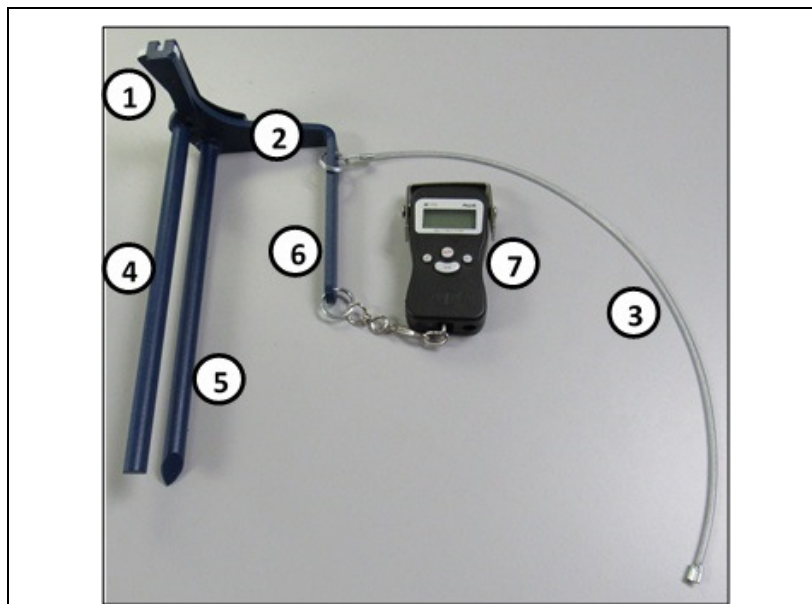
The CFT-6 tool measures the Containment Force (CF) on a wrapped load.

**Containment Force** - The cumulative force on the load from the layers of film, measured at any point. It is the best indicator for load shipment success.

The instructions include:

- CFT-6 Components
- How to use the scale
- Position Indicator
- Where to measure the Containment Force
- Containment Force Chart
- How to measure the Containment Force

## Components



**Figure 1**

1	Position Indicator
2	Top Plate with Decal
3	The Cable to Set the Position to Measure the Containment Force
4	Fulcrum Finger
5	“Piercing” Finger
6	Scale Lever
7	Scale

## How to Use the Scale

### Function Buttons

“On/Off” – The power button.

“Set” – This button sets the mode for the scale display.

- Kg – Kilogram
- Lb – Pound
- Lb/Oz – Pound and ounces

“Hold” – This button sets the “Hold” functions

- “L\_n” – This mode disengages the “Hold” functions.
- “L\_A” – This mode holds the “Peak” value when the value is constant for 1 second.
- “L\_P” – This mode holds the “Peak” value.

“Tare” – This button resets the display to 0.

### Scale Set Up Procedures

1. Push the “On, Off” button to engage the power for the scale.
2. Push the “Set” button until “Lb” (pound) shows on the display.  
This is the setting to measure the Containment Force.
3. Push the “Hold” button until “L\_P” (peak) shows on the display.
4. Push the “Tare” button to set the scale to 0.

Reset the scale display before you measure the Containment Force.

**Note:** The scale keeps the settings for the “Set” and “Hold” functions.



Figure 2 - Scale

## Position Indicator

The position indicator shows the correct position of the CFT-6 to measure the Containment Force.

This is a spring-loaded device that includes:

- A green stripe on the indicator plate.
- A slot to show when the indicator plate is in the correct position to measure the Containment Force.



**Figure 3 – Position Indicator**

## Where to Measure the Containment Force

1. Measure the Containment Force at 3 positions on 1 side of the load. Measure at the top, the approximate middle and the bottom of the load.
2. Measure the Containment Force on the long side of the load, if it is possible.  
Example: If the load is 40" x 48", measure the Containment Force on the 48" side of the load.
3. Measure from the right corner of the load for the 3 positions.



**Figure 4**

<b>1</b>	<p><b>Top Position</b></p> <p>a. Measure 559 mm (22") from the right corner of the load.</p> <p>b. Measure 64 mm (2 1/2") from the top of the load.</p>
<b>2</b>	<p><b>Middle Position</b></p> <p>a. Measure 559 mm (22") from the right corner of the load.</p> <p>b. Approximate middle of the total load height.</p>
<b>3</b>	<p><b>Bottom Position</b></p> <p>a. Measure 559 mm (22") from the right corner of the load.</p> <p>b. Measure approximately 229 mm (9") from the film cable at the bottom of the load. Make sure that the "piercing" finger extends 13mm (1/2") below the film cable.</p>

## Containment Force Chart

This chart includes the basic Containment Force ranges and the load types.

Containment Force	Load Types
Low – 1 - 2 kg (2 - 5 lb)	Paper Towels, Tissues, Empty Containers, Dust Cover Wrap
Medium – 2 - 3 kg (5 - 7 lb)	Short Cases, Short Trays, Light Display Cases, Beverage Cans, Light Order Pick
High – 3 - 5 kg (7 - 12 lb)	Tall and Heavy Cases, Bags, Case Bottles, Grocery Order Pick
Extreme – 5 - 9 kg (12 - 20 lb)	Concrete Blocks, Bricks, Bottled Water, Tall Bottles in Trays

## Measure the Containment Force

1. Find the correct Containment Force for the load.
  - a. Use the data from the specified wrap profile for the Containment Force setting.
  - b. Refer to the Containment Force chart.
2. Set the mode for the scale. Refer to the Scale Set Up procedures
3. Use the cable on the tool to set the position from the corner of the load.
  - Approximately 559 mm (22”) from the corner of the load.

Make sure that you are on the long side of the load.

- a. Put the end of the cable at the right corner of the load and extend the tool across the load.
- b. Measure the Containment Force at the position of the “Piercing Finger”.

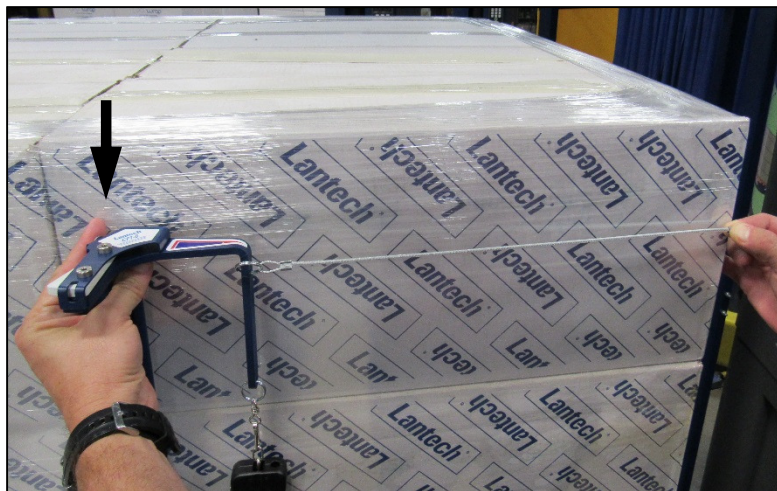


Figure 5 – “Piercing Finger” Position

4. Push the “piercing finger” through the film.
  - a. Make sure that it goes through all layers of the film.
  - b. Use caution to prevent damage to the product with the “piercing” finger.

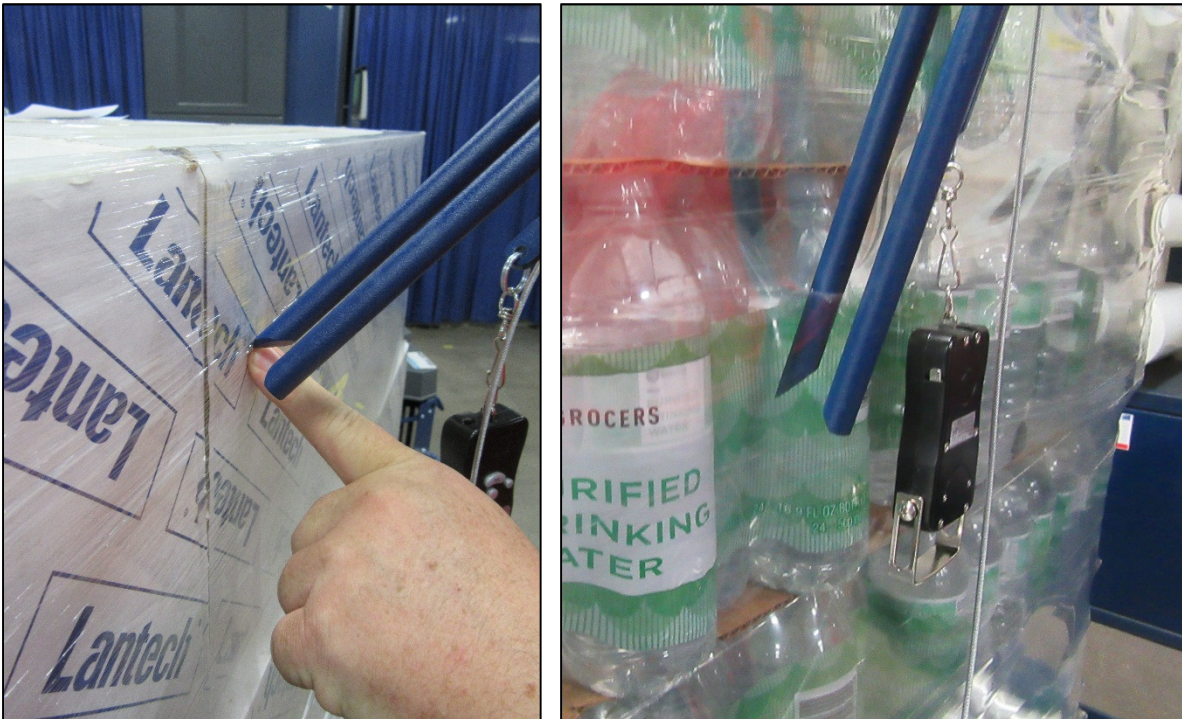
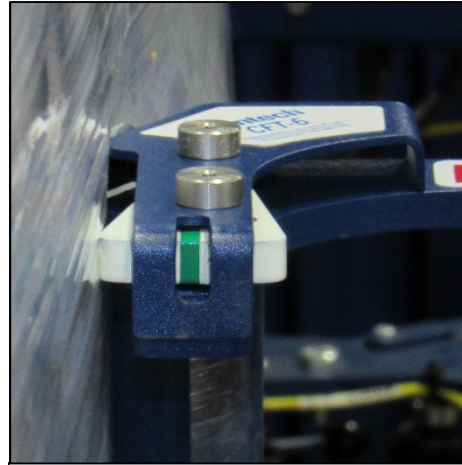


Figure 6 – “Piercing” Finger

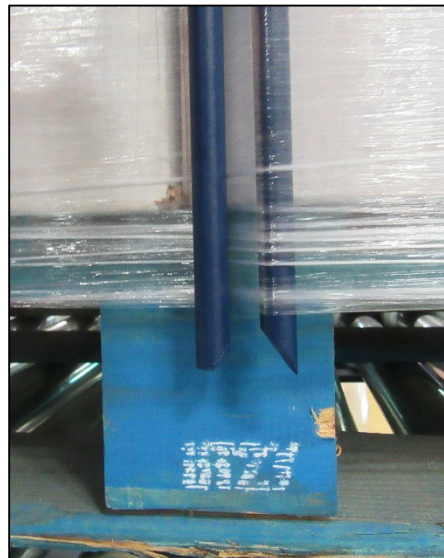
5. Pull the scale to the left.
  - a. Make sure that the film is approximately 6 mm (1/4") below the top plate of the tool.  
Do not let the tool set on the film.
  - b. Make sure that you pull the scale in the horizontal direction (level).
6. Slowly pull the scale until the green indicator shows in the slot and then release the tension on the scale.  
The scale display holds the "peak" value on the display.
7. Record the data on the scale display.
8. Do steps 1-7 to measure the Containment Force for the middle and the bottom of the load.  
Make sure that the "Piercing Finger" extends 13 mm (1/2") below the film cable when you measure the bottom of the load.



**Figure 7**



**Figure 8 – Position Indicator**



**Figure 9 – Piercing Finger Position on the Film Cable.**



