

**Lyman®**

# Gen6™

**Compact  
Touch-Screen  
Powder System**



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## WARNINGS AND CAUTIONS:

- Static charges can cause drift! Like most electronic devices housed in plastic cases, it is possible for the scale to pick up a static charge. The Gen 6™ is built with anti-static material, however, in the unlikely event that a static charge is present, the scale's display may move or drift in use. To correct this condition, we recommend wiping the scale down with a paper towel dampened with some window cleaner. This should eliminate any static charge in the scale.
- Many scales can be affected by strong electrical signals given off by items such as cell phones, cordless phones, microwaves, etc. While this scale has advanced circuitry which is shielded to prevent electronic interference from outside sources, we would still recommend that these items not be used close by while the scale is in use.
- When changing powder be sure that **ALL** powder is removed from the scale before new powder is added. In particular, carefully remove and check the powder feed tube and powder box for any remaining powder. Powder will remain in the feed tube after the last charge is dropped. See "Cleaning the Gen 6™" for disassembly instructions.
- If the Gen 6™ does not read zero on the display, ***DO NOT DISPENSE POWDER.*** The scale must be zeroed before use. If powder is dispensed with a scale that does not read zero, the charge will not be correct and could be dangerous.
- Be careful not to get powder between the platform and the scale body. This can affect scale readings. If powder does drop into this area, carefully remove it with the supplied brush. *Do not attempt to remove the platform.*
- The proper power adapter must be used with the scale. The power output of the adapter must be 9V DC and 500mA.

Congratulations on your purchase of the Lyman Gen 6™. This is a precision piece of equipment and should be handled with care. Before using the Gen 6™ Powder Dispenser, please read these instructions fully and become familiar with the key pads and other operating features listed in the diagrams. If you have read the instructions and you still do not understand some of the operations, call us at 1-800-22-LYMAN except AK, HI, CT and foreign, who may call 860-632-2020. This operation manual should be kept with the Gen 6™ at all times for easy reference.

## **Introduction**

Lyman's Gen 6™ combines a Precision 1500 grain Electronic Powder Scale with an advanced Powder Dispenser and state-of-the-art Touch Screen Technology into one easy to use unit. The reduced footprint of the Gen 6™ uses up to 50% less bench space than other powder systems, but has all the accuracy of full sized models. The design of the Gen 6™ allows easy access for both right and left handed reloaders. Its backlit touch screen display is simply to use and easy to read. It dispenses powder quickly and is accurate to + or – 0.1 grains. It can be used as a complete powder dispensing system or as an electronic scale. The compact Gen 6™ is fast, accurate, and works with all types of smokeless powder.

## **Customer Driven Innovations**

With the introduction of the new "Gen6" Compact Touch Screen Powder System, we have incorporated the features our customers asked for, and made this latest generation the best ever in powder systems. An electronic interference shield to resist interference from cell phones and computers, anti-static and anti-drift technology, advanced touch screen and key pad, less warm-up time - these are just a few of the features you requested and we have delivered in the Gen 6™ Touch-Screen Powder System.

## A. Set-Up

1. Select a location for the Gen 6™ that is level and stable. It is recommended that the Gen 6™ be located away from a loading bench equipped with a reloading press. Most benches are not heavy enough to prevent vibrations being transferred to the scale. The scale should also be away from any source of air currents. The Gen 6™ is sensitive enough to have readings affected by any of these conditions.
2. Select the proper plug type and slide it onto the power adapter. Plug the power adapter into a wall outlet and connect it to the dispenser. Install the powder reservoir tube by pressing it into the top of the unit above the feed tube.
3. Remove end cap from powder feed tube.

## B. **ON/OFF** Button

1. Press the **ON/OFF** button to turn on the Gen 6™. It will go into a 3-minute warm up cycle. Once this is complete, the scale will go to zero. If desired, the warm up cycle can be cancelled by pressing **STOP/CANCEL**, however for best result we recommend that the scale be warmed up before use.
2. To turn off the Gen 6™, *press and hold* the **ON/OFF** button. **Always turn off the Gen 6™ using the **ON/OFF** button first, and then unplug the power transformer.**

## C. Calibration

1. We recommend that the scale be calibrated before use. This should be done **without** the powder pan on the platform.
2. Press the **CAL/ZERO** button to reset the scale to zero.
3. **Press and hold** the **CAL/ZERO** button. The LCD will display "Cal 50".
4. Place the 50 gram weight onto the platform and press the **CAL/ZERO** button again. (**Press and Release - Do Not Hold**)
5. The LCD will display **0.0** Remove the 50 gram weight. The LCD will display "-771.6gn" or "-50.00g".
6. Press **CAL/ZERO** one more time to reset zero.

## D. Scale and Dispense Mode

1. The scale and dispenser are now active. Place the powder pan onto the platform and press the **CAL/ZERO** button to zero the scale.
2. Place the desired smokeless powder (**black powder or Pyrodex should NEVER be used**) into the powder reservoir.
3. The scale will read in grains (default) unless changed. To select the weighing unit desired, press the **MODE** button to select the appropriate grains, grams or ounces.
4. Key in the desired charge weight using the keypad. If you make a mistake, press the **CAL/ZERO** button to clear the complete charge weight or press **STOP/CANCEL** to clear the last digit. While the desired charge weight is displayed, press the **ENTER** button to dispense powder. The dispenser will stop automatically when the selected charge weight is reached. We recommend that the first several charges be placed back into the reservoir. This allows the Gen 6™ to fully stabilize and fill the charge tube with powder. After a charge is dispensed, the LCD will display "CT=001" indicating the first charge for 2 seconds. This is a count of the number of charges that have been dispensed.
5. Press the **ENTER** button again to dispense another charge at the selected weight in memory.

**Important:** There are well over a hundred types of smokeless powder currently available. The flow rate of each type will vary when dropped from the scale. The scale and feed tube are designed to give the fastest drop time while still accurately controlling the charge weight. Extensive testing has shown that a few powders may flow too quickly however and trickle past your selected charge weight. If this occurs, please install the supplied restrictor plug into the end of the powder feed tube. This is most likely to occur with several large

granule, stick type powders such as H50BMG and H4831SC. The restrictor will slow the flow rate and allow the scale to drop an exact charge with these few types, without requiring that the scale be run slower and increase the drop time for the majority of powders used. To install the restrictor, simply hold on to the powder feed tube with one hand and thread the restrictor into the end of the tube with the other.

6. To pause the dispenser while a charge is being dropped, press the **ENTER** button. Press the **ENTER** button again to resume charging.
7. The dispenser will continue to drop the selected weight until it is changed. To change the selected weight, key in a new weight on the keypad and press the **ENTER** button. The dispenser will drop the new selected charge weight.
8. Auto Repeat

To use the Auto Repeat function, press the **AUTO REPEAT** key once and icon “AUTO REPEAT” will appear on LCD. This icon tells you that you are in the auto repeat mode. With the auto repeat mode on you should be able to enter in the desired charge weight and hit the **ENTER** key. The scale will then drop the selected charge and beep, flash AUTO01 and then show the charge weight. When the pan is emptied and returned to the scale, the scale will zero out the pan and drop the same load again. If the pan is not fully emptied, the scale will show the weight in the pan and the Auto Repeat function will not work. The pan must be emptied fully before the scale will drop another load. The scale will repeat the same load until you either enter in a new load or exit the auto repeat function.

To exit the auto repeat function, press the **AUTO REPEAT** key, it will exit the auto repeat mode and “AUTO REPEAT” will disappear from the LCD.

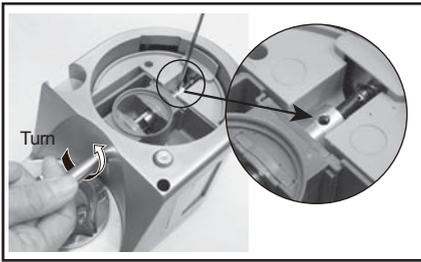
## Cleaning the Gen 6™

**Caution: Do not turn unit upside down and shake as this could harm the load cell.**

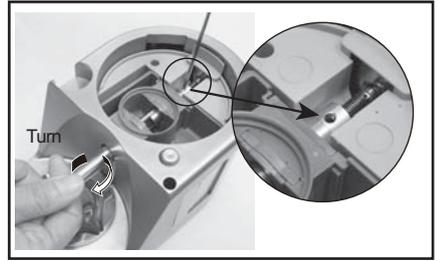
The cleaning procedure listed below may seem difficult, but after you become familiar with the dispenser it is relatively easy. The Gen 6™ was designed to be sufficiently disassembled for thorough cleaning.

The Gen 6™ must be cleaned after use or when changing the type of powder. It is **Strongly** recommended that powder **NOT** be left in the powder dispenser when finished loading or when putting it away as you may forget what kind of powder was used last. **This is extremely dangerous.** To begin cleaning the dispenser, lower the powder cleaning chute on the powder reservoir. Be certain that you have a container under the chute to catch all the powder from the reservoir and powder box. Lift the powder shut-off door to allow the powder to flow out. The cleaning brush can be used to remove any remaining powder. When empty, remove the reservoir tube and reservoir base by pressing the release button on top of the Dispenser. Tilt the reservoir base away from the release button and lift it off the scale. Place the rubber cap on the end of powder tube to prevent powder spillage. Powder feed tube can be easily removed by inserting J shaped rod in small hole in the motor coupling as shown in Figure A. Then unscrew powder-dispensing tube by turning in counter clockwise direction. Be careful to catch any remaining powder that may still be in the tube. Now with the powder chute closed, press in the powder box from the back and release it. The box will pop out slightly for easy removal and cleaning. Before reassembly, BE SURE all powder is removed from the feed tube and the powder box. To reassemble the dispenser, push the powder box back in until it clicks in, slide the powder tube back through the bushings in the powder box and screw it to the motor shaft until finger tight. Insert J shaped rod in small hole to assist in aligning the powder feed tube to the coupling threads. (See Figure B.) Snap the reservoir base back inside the powder box and lock in with the sliding latch.

Reinstall the reservoir tube.



**Figure A**



**Figure B**

## **Suggestions / Tips**

1. If exposed to a sudden change in temperature , allow the Gen 6™ 30 minutes to stabilize to the new location before use.
2. The removeable dust cover can be lifted off for ease of use. If lowered into place during use, however, it will prevent any air drafts from affecting the accuracy of the scale.  
We recommend storing the Gen 6™ with the dust cover on and covering the platform as added protection to prevent anything from hitting the platform and damaging the load cell.



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