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Dillon Precision RL550C

Dillon Precision RL550C Reloading Machine User Manual

Model: RL550C

1. OVERVIEW

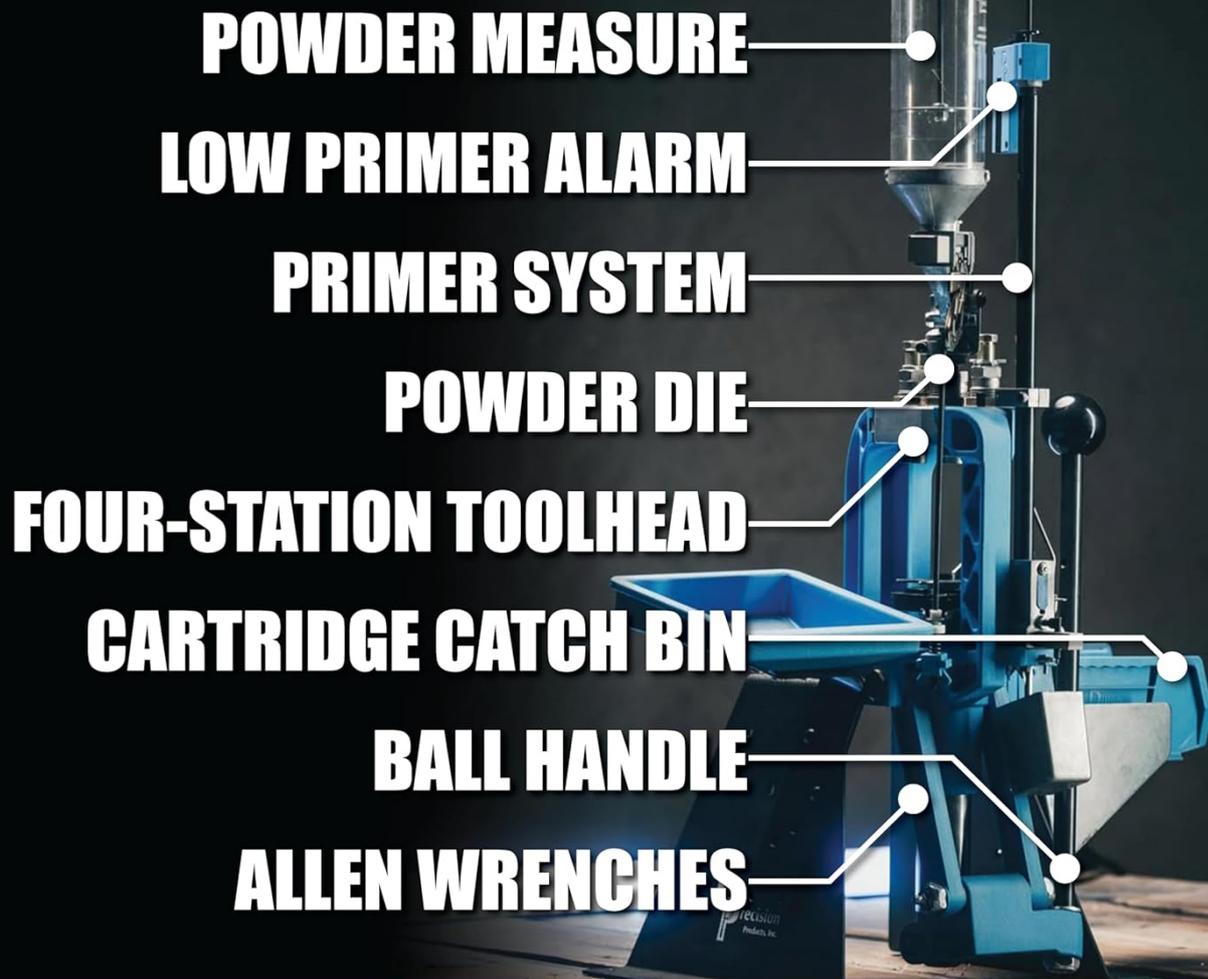
The Dillon Precision RL550C is a progressive reloading machine designed for precision, consistency, and control in ammunition production. It supports reloading for over 160 calibers, including both handgun and rifle cartridges, ranging from .32 ACP to .460 Weatherby Magnum. This machine features a manual indexing system, allowing users to inspect each stage of the reloading process. Its four-station setup facilitates resizing, depriming, priming, powder charging, bullet seating, and crimping in a progressive cycle. The RL550C is equipped with a case-activated powder measure and adjustable seating/crimping dies to ensure precise bullet depth and charge weights. It also offers quick caliber change capabilities through interchangeable toolheads, compatible with standard 7/8" x 14 dies. The RL550C is constructed for durability and is manufactured in the USA.

2. WHAT'S INCLUDED

Your Dillon Precision RL550C Reloading Machine package includes the following components:

- RL550C Reloading Machine
- .223 Caliber Conversion Kit
- Powder Measure
- Low Primer Alarm
- Primer System
- Powder Die
- Four-Station Toolhead
- Cartridge Catch Bin
- Ball Handle
- Allen Wrenches

WHATS INCLUDED:



EVERYTHING YOU NEED TO START RELOADING

Figure 2.1: Included components of the RL550C Reloading Machine, featuring the powder measure, low primer alarm, primer system, powder die, four-station toolhead, cartridge catch bin, ball handle, and Allen wrenches.

3. SETUP

Proper setup is crucial for safe and efficient operation of your RL550C. Ensure the machine is securely mounted to a sturdy workbench. The RL550C features a greaseable lower pivot pin; apply grease as needed during initial setup and routine maintenance to ensure smooth operation. Install the appropriate caliber conversion kit for your desired cartridge. The interchangeable toolheads allow you to pre-set dies for quick caliber changes. Dies are sold separately and should be installed according to their specific instructions and the RL550C manual.

THE MOST VERSITILE DILLON RELOADER

THE MANUAL INDEXING
OPERATION OF THE RL550C
ALLOWS FOR THE WIDEST
RANGE OF CALIBERS,
ACCOMMODATING MOST
RIFLE & PISTOL CALIBERS.



RELOAD CALIBERS FROM .32 ACP UP TO .460 WEATHERBY

Figure 3.1: The RL550C is designed for versatility, accommodating a wide range of rifle and pistol calibers through its manual indexing operation.

4. OPERATING INSTRUCTIONS

The RL550C operates with a manual indexing system, providing the user full control over each stage. The four-station setup allows for the following sequence:

1. **Station 1: Resizing and Depriming** - The case is resized, and the spent primer is removed.
2. **Station 2: Priming** - A new primer is seated into the case.
3. **Station 3: Powder Charging** - The case-activated powder measure dispenses the precise amount of powder.
4. **Station 4: Bullet Seating and Crimping** - The bullet is seated to the correct depth, and the case is crimped.

Advance the shell plate manually after each stage to move the case to the next operation. This manual control allows for inspection at every step, ensuring quality and safety. The case-activated powder measure ensures powder is dispensed only when a case is present, preventing spills and waste.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your RL550C. Keep the machine clean from powder residue and other debris. Lubricate moving parts, especially the greaseable lower pivot pin, as recommended in the full product manual. Inspect dies and other components for wear or damage before each use. Proper care will maintain the machine's durability and consistency.



**BUILT FOR DURABILITY
AND CONSISTENCY**

The RL550C is purpose-built to be durable, consistent, and precise, all without sacrificing reloading speed.

MINIMAL MAINTENANCE, EXTENDED MACHINE LIFE

Figure 5.1: The RL550C is built for durability and consistency, requiring minimal maintenance for extended machine life.

6. TROUBLESHOOTING

If you encounter issues with your RL550C, refer to the following general troubleshooting tips:

- **Feeding Issues:** Ensure cases and bullets are correctly oriented and free of deformities. Check that the shell plate is properly aligned and rotating smoothly.
- **Primer Seating Problems:** Verify that the primer system is clean and primers are loaded correctly. Adjust the primer seating depth as needed.
- **Inconsistent Powder Charges:** Clean the powder measure and ensure it is properly adjusted for the specific powder and charge weight. Check for any obstructions.

- **Bullet Seating Depth:** Adjust the bullet seating die to achieve the desired overall cartridge length. Ensure the die is securely tightened.
- **Machine Sticking/Rough Operation:** Lubricate all moving parts, especially the main shaft and pivot points, with appropriate reloading press lubricant.

For detailed troubleshooting steps or persistent issues, consult the comprehensive manual provided with your machine or contact Dillon Precision customer service.

7. SPECIFICATIONS

Feature	Specification
Model Name	RL550C
Press Type	Manual Index Progressive Reloading Press
Number of Stations	4
Caliber Compatibility	Over 160 calibers (e.g., .32 ACP to .460 Weatherby Magnum)
Die Compatibility	Standard 7/8" x 14 dies
Material	Aluminium
Color	Blue
Package Weight	27 Pounds
Manufacturer	Dillon Precision Products, Inc.
Country of Origin	USA

8. WARRANTY AND SUPPORT

The Dillon Precision RL550C Reloading Machine is backed by a **Lifetime Warranty**. For any questions, technical assistance, or warranty claims, please contact Dillon Precision customer service. You can find contact information and additional resources on the official Dillon Precision website or through your authorized dealer.

**PROUDLY MADE
IN THE USA**

**ALL OF OUR RELOADING
MACHINES ARE PROUDLY
MADE RIGHT HERE
IN AMERICA.**



Figure 8.1: Dillon Precision reloading machines are proudly manufactured in the USA, reflecting a commitment to quality and craftsmanship.