

crane terex rt 670 manual

Crane Terex RT 670 Manual is an essential resource for operators and technicians who work with the Terex RT 670 rough terrain crane. This powerful machine is designed for versatility and robustness, making it suitable for various applications in construction, infrastructure, and industrial projects. In this article, we will explore the key features, operating guidelines, maintenance practices, and troubleshooting tips for the Terex RT 670 crane, all derived from the comprehensive manual that ensures safe and efficient operations.

Overview of the Terex RT 670 Crane

The Terex RT 670 is a highly regarded rough terrain crane known for its exceptional lifting capabilities and maneuverability. With a maximum lift capacity of 70 tons (63 metric tonnes), the RT 670 is equipped to handle heavy loads even in challenging outdoor environments.

Key Specifications

- Maximum Lift Capacity: 70 tons (63 metric tonnes)
- Maximum Boom Length: 100 feet (30.48 meters)
- Maximum Working Radius: 56 feet (17 meters)
- Engine Type: Tier 4 Final diesel engine
- Travel Speed: Up to 25 mph (40 km/h)
- Overall Dimensions:
 - Length: 30.5 feet (9.3 meters)
 - Width: 10.5 feet (3.2 meters)
 - Height: 10.9 feet (3.3 meters)

These specifications make the Terex RT 670 a valuable asset for jobs that require both strength and flexibility.

Operating the Terex RT 670 Crane

Operating the Terex RT 670 requires a thorough understanding of its controls and safety features. The operator manual provides detailed instructions on how to use the crane effectively while adhering to safety protocols.

Pre-Operation Checks

Before operating the crane, it's crucial to perform the following pre-operation checks:

1. Visual Inspection:

- Check for any visible damage or wear on the crane body, boom, and counterweights.
- Inspect the hydraulic hoses for leaks or cracks.

2. Fluid Levels:

- Ensure that engine oil, hydraulic fluid, and coolant levels are within the recommended ranges.

3. Safety Equipment:

- Verify that all safety equipment, including fire extinguishers and first-aid kits, is present and functional.

4. Control Functionality:

- Test all controls and functions to ensure they operate smoothly and correctly.

5. Load Chart Reference:

- Familiarize yourself with the load charts to understand the crane's lifting capacities under different configurations.

Operating Procedures

When operating the crane, follow these procedures:

- Start-Up:

- Ensure that the area is clear of personnel and obstacles.
- Start the engine and allow it to warm up before engaging in operation.

- Lifting Operations:

- Use proper hand signals or communication devices to coordinate with ground personnel.
- Always be aware of load limits and never exceed the rated capacity.

- Swinging and Moving:

- Move the crane slowly and cautiously, especially when swinging loads.
- Maintain a clear line of sight and avoid moving over personnel.

- Shutting Down:

- After completing operations, lower the boom to the ground and engage the parking brake.
- Turn off the engine and secure the crane.

Maintenance of the Terex RT 670 Crane

Regular maintenance is vital for ensuring the longevity and reliability of the Terex RT 670 crane. The operator manual outlines a comprehensive maintenance schedule and best practices.

Daily Maintenance Tasks

Perform these maintenance tasks daily before operation:

- Fluid Checks:
 - Inspect oil, hydraulic fluid, and coolant levels. Refill as necessary.
- Visual Inspections:
 - Look for signs of wear or damage on the tires, boom, and other mechanical components.
- Greasing:
 - Lubricate moving parts as specified in the manual to minimize friction and wear.

Scheduled Maintenance

Follow the scheduled maintenance outlined in the manual:

- Every 250 Hours:
 - Change engine oil and filter.
 - Inspect hydraulic filters and replace as needed.
- Every 500 Hours:
 - Check and adjust the tension on drive belts.
 - Inspect electrical connections and battery condition.
- Every 1,000 Hours:
 - Conduct a thorough inspection of all major components, including the boom, winch, and hydraulic system.
 - Review the entire crane's operation and performance history.

Seasonal Maintenance

In addition to regular maintenance, consider seasonal checks:

- Winter Preparation:
 - Ensure that the crane is winterized if stored in cold climates.
 - Check battery performance and antifreeze levels.
- Summer Preparedness:
 - Verify that cooling systems are functioning properly to prevent overheating.

Troubleshooting Common Issues

Despite proper maintenance, cranes may encounter operational issues. The Terex RT 670

manual includes troubleshooting tips for common problems.

Hydraulic System Issues

1. Slow or Unresponsive Boom:

- Possible Causes: Low hydraulic fluid level or air trapped in the system.
- Solution: Check fluid levels and bleed the system if necessary.

2. Leakage:

- Possible Causes: Worn or damaged hoses or seals.
- Solution: Inspect hoses and seals for signs of wear. Replace components as needed.

Engine Performance Problems

1. Engine Won't Start:

- Possible Causes: Dead battery or fuel issues.
- Solution: Check battery connections and ensure fuel levels are adequate.

2. Overheating:

- Possible Causes: Blocked radiator or low coolant levels.
- Solution: Inspect the radiator for obstructions and check coolant levels.

Safety Protocols

Safety is paramount when operating heavy machinery like the Terex RT 670. The operator manual emphasizes the importance of following safety protocols to prevent accidents and injuries.

Safety Gear

Always wear appropriate personal protective equipment (PPE):

- Hard hat
- Steel-toed boots
- High-visibility clothing
- Safety glasses
- Hearing protection

Emergency Procedures

In case of an emergency:

- Know the location of emergency shut-off switches.
- Familiarize yourself with evacuation routes.
- Maintain communication with ground personnel at all times.

Conclusion

The Crane Terex RT 670 Manual is a vital tool for anyone involved in the operation and maintenance of this powerful machine. By understanding its features, adhering to operating guidelines, performing regular maintenance, and following safety protocols, operators can ensure the efficient and safe use of the Terex RT 670 crane. With its robust design and versatility, the RT 670 stands as a reliable partner in various lifting applications, making it a favorite among professionals in the field.

Frequently Asked Questions

What is the primary purpose of the Terex RT 670 manual?

The Terex RT 670 manual provides essential information on the crane's operation, maintenance, safety protocols, and troubleshooting guidelines.

Where can I find the Terex RT 670 manual online?

The Terex RT 670 manual can typically be found on the official Terex website, in the support section, or through authorized Terex dealers.

What are some key safety features outlined in the Terex RT 670 manual?

The manual highlights safety features such as load moment indicators, emergency stop buttons, and proper rigging procedures to ensure safe operation.

Does the Terex RT 670 manual include maintenance schedules?

Yes, the manual includes detailed maintenance schedules that specify routine checks, servicing intervals, and recommended practices to keep the crane in optimal condition.

Is there a section on troubleshooting in the Terex RT 670 manual?

Yes, the Terex RT 670 manual contains a troubleshooting section that helps operators identify and resolve common issues that may arise during operation.

What type of technical specifications can I find in the Terex RT 670 manual?

The manual provides technical specifications such as maximum lifting capacity, boom length, operating weight, and dimensions of the Terex RT 670 crane.

Can I download the Terex RT 670 manual in PDF format?

Yes, the Terex RT 670 manual is often available for download in PDF format from the Terex website or other authorized resources.

Are there any updates or revisions to the Terex RT 670 manual I should be aware of?

It is important to check the Terex website or contact your dealer for any updates or revisions to the manual to ensure you have the most current information.

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