Rough-Terrain Cranes
RELIABLE PERFORMANCE ON ANY JOBSITE

GROVE®
by Manitowoc
THE LIFTING LEADER.
Helping your business reach new heights

Grove is a leading manufacturer of the industry’s most reliable rough-terrain cranes — designed to handle the toughest jobsite conditions with lift capacities ranging from 30t (30 USt) to 135t (150 USt). Performance, productivity and operator comfort features allow your operators to work effectively for longer days with less fatigue. Quality, reliability and easy maintenance are built in to every Grove rough-terrain crane, making them the right choice for your business.
PERFORMANCE, PRODUCTIVITY AND OPERATOR COMFORT

Grove rough-terrain cranes use smart technology and innovations so jobs get done as efficiently as possible. These features are designed to enhance your crew’s productivity and help you achieve higher profits.

Highly ergonomic cabs

The cabs on Grove rough-terrain cranes feature more glass on all sides so your operators have a clear view of the load and fewer blind spots. The interior has an automotive-style layout for maximum comfort and includes an ergonomic dashboard, tilting and telescoping steering wheel, heat and air conditioning.
Cab tilt

The Vision cab tilts up to 20 degrees, which is especially beneficial on long boom cranes. Operator comfort and overall visibility of the lift is significantly improved, even when the boom is fully extended and equipped with a jib.
**Exceptional maneuverability**

Maneuvering around the jobsite is easier with Grove rough-terrain cranes. Four-wheel drive capability combined with four steering modes (front only, rear only, crab and coordinated) allows your operators to get closer to the lift regardless of congested areas or adverse ground conditions. All modes are controlled through steering wheel and rocker switches, so there’s no need for operators to stop and align the wheels.

> All Grove rough-terrain cranes offer front and rear cross-axle differential locks, which can be activated when working in difficult terrain.

> Crab mode

> Coordinated mode
Telescoping options

Grove rough-terrain cranes are available in several boom telescoping configurations including: synchronized, sequence synchronized and pinned boom telescoping.

▲ TWIN-LOCK™ boom pinning system

Using only one telescope cylinder to extend the boom sections, the TWIN-LOCK system helps to maximize the crane’s load chart capacity by eliminating weight inside the extended boom.

► Synchronized boom telescoping allows each boom section to be extended simultaneously with a single-lever control.

Sequence synchronized boom telescoping technology maximizes configuration at load radius and weight.

◄ Superior boom design

The MEGAFORM™ boom design incorporates a U-shaped cross-section that provides an exceptional strength-to-weight ratio. This means a MEGAFORM boom can lift more than a traditional square or rectangular boom. Large wear pads offer superior boom alignment when telescoping, providing an excellent transition of weight between sections and allowing you greater lifting capacities at any radius.
JOBSITE FLEXIBILITY MEANS MORE LIFTS FOR GREATER PROFITABILITY

Grove rough-terrain cranes can be reconfigured to fit numerous lifting applications, giving you more lifting versatility. That provides you with the potential to win more jobs for greater profitability and return on investment.
Main boom inserts
Main boom inserts are designed to extend the crane’s reach.

Boom extensions
Boom extensions expand the versatility of your crane enabling you to work on a wider variety of lifts.

Grove offers several boom extensions including:

- Fixed length, offsettable lattice extension
- Telescopic, offsettable lattice extension
- Bi-fold, offsettable lattice extension
INNOVATION DRIVES ENHANCED OPERATION AND EFFICIENCY

Grove utilizes the latest technology to provide the highest work efficiency and safety — all while meeting today’s strict environmental standards. Our innovations ensure reliable crane performance along with operator productivity and comfort.

- Pick-and-carry charts
  Pick-and-carry charts are available for all Grove rough-terrain cranes.

- Engine
  Grove rough-terrain cranes utilize an environmentally-friendly engine that meets current E.P.A. and E.U. emission standards. This engine package is optimized to deliver plenty of power while minimizing fuel consumption and operating costs.

- Crane Control System (CCS)
  The Crane Control System utilizes redundant sensors to monitor all crane movements and structural stresses in real time for ultimate man-to-machine feedback and communication. The user-friendly interface is visible to the operator on two full-graphic displays.

- Operational aids
  Grove rough-terrain cranes are equipped with a graphical load moment indicator (LMI) with Work Area Limiter. The intuitive and user-friendly interface provides a virtual representation of your crane configuration and outrigger position. The Work Area Limiter assists operators while lifting and positioning loads.
RELIABILITY AND EASY MAINTENANCE

High-performing cranes and comfortable operators are only the beginning. That’s why Grove cranes include features that improve reliability and minimize maintenance time — all to keep you more profitable.

Transportability

Several models include added features to get you to the jobsite and to get your crew to work sooner. Removable front and rear outrigger boxes and the removable counterweight offer convenient transportability. Outrigger boxes can be quickly installed and removed without the use of an assist crane. In addition, the counterweight is designed for quick and easy installation.
The hydraulic disc brake advantage

Four-wheel hydraulic disc brakes are spring-applied and hydraulically released, resulting in immediate activation as needed. This simple hydraulic system is superior to air or air-over-hydraulic drum brakes on competitive models.

- Eliminates air leaks and problems due to humidity or high temperature variations, and there’s no wait for air pressure to build
- No additional air system is required
- One simple hydraulic system eliminates unnecessary components
Easy access for routine maintenance

Steel or aluminum full-length decking provides large open areas for additional storage and accessibility to crane components. The valve cover is easy to access and remove, the flexible mounted steps reduce transport damage and an anti-slip material on the deck improves footing.

The hoist access platform makes reeving the hoist quick and easy.
Full CAN-Bus wiring

This state-of-the-art, software-based system provides laptop computer troubleshooting and customizable functions that result in easier diagnostics and reduce potential downtime.

Maximizing uptime

CraneSTAR is the most extensive OEM-produced crane asset management system available today. CraneSTAR leads in a new era of data management and planning for crane owners. It was developed to monitor cranes, jobsites and warehouses to increase fleet productivity and to decrease operational costs.

- Notifies you to schedule preventive maintenance
- Increases security, which may lead to reduced insurance costs
- Records crane use resulting in higher resale values
QUALITY

High-quality products last longer and save you money. At Manitowoc, our high-quality components and procedures ensure every rough-terrain crane meets strict standards to protect your investments. As an example, Grove cranes are built and treated to resist rust and other harsh elements to increase the life of the cranes and give you higher resale values.
Comprehensive support

Manitowoc Crane Care is the lifting industry’s most comprehensive and advanced service and support network.

Manitowoc Crane Care™

Manitowoc Crane Care provides:

- Contact centers, available 24/7
- Comprehensive training
- Global access to parts and service
- The EnCORE rebuild, repair, remanufacture and exchange program
- Technical publications and support
Grove rough-terrain cranes provide standard features that other manufacturers simply don’t offer. These features mean you’ll experience more uptime, higher profits and better resale values when you choose Grove cranes.

<table>
<thead>
<tr>
<th>Model features</th>
<th>RT530E-2</th>
<th>RT540E</th>
<th>RT550E</th>
<th>RT600E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum capacity</td>
<td>30 t (30 USt)</td>
<td>35 t (40 USt)</td>
<td>45 t (50 USt)</td>
<td>40 t (40 USt) / 45 t (50 USt)</td>
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<tr>
<td>Boom length</td>
<td>29 m (95 ft)</td>
<td>31 m (102 ft)</td>
<td>39 m (128 ft)</td>
<td>32 m (105 ft)</td>
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<tr>
<td>Maximum tip height</td>
<td>45 m (148 ft)</td>
<td>47 m (154 ft)</td>
<td>49 m (161 ft)</td>
<td>49 m (161 ft)</td>
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<tr>
<td>Gross vehicle weight (base unit)</td>
<td>26 419 kg (58,244 lb)</td>
<td>27 950 kg (61,618 lb)</td>
<td>28 500 kg (62,832 lb)</td>
<td>33 026 kg (72,809 lb)</td>
</tr>
<tr>
<td>Vision cab</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Tilt cab</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Full CAN-Bus</td>
<td>●</td>
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<tr>
<td>Tier 4F engine</td>
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<td>Inverted outrigger jacks</td>
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<tr>
<td>Hoist access platform</td>
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<td>Removable outrigger box</td>
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<tr>
<td>Hydraulically installed/removable counterweight</td>
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<td>Full-length decking</td>
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<td>CraneSTAR</td>
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<tr>
<td>MEGAFORM™ boom design</td>
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<tr>
<td>Four-section boom</td>
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<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Five-section boom</td>
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<tr>
<td>Six-section boom</td>
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</tr>
<tr>
<td>TWINLOCK™ pinned boom system</td>
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<tr>
<td>Full power boom</td>
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<td>Main boom inserts</td>
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<td>Graphic LMI with Work Area Definition System</td>
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<td>Crane Control System</td>
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<tr>
<td>Model</td>
<td>Maximum Capacity (t, USt)</td>
<td>Boom Length (m, ft)</td>
<td>Maximum Tip Height (m, ft)</td>
<td>Gross Vehicle Weight (kg, lb)</td>
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<tr>
<td>RT765E-2</td>
<td>60 t (65 USt)</td>
<td>33,5 m (110 ft)</td>
<td>45 m (148 ft)</td>
<td>26,419 kg (58,244 lb)</td>
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<td>RT770E</td>
<td>65 t (70 USt)</td>
<td>39 m (128 ft)</td>
<td>50 m (161 ft)</td>
<td>27,950 kg (61,618 lb)</td>
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<tr>
<td>GRT880</td>
<td>80 t (80 USt)</td>
<td>32 m (105 ft)</td>
<td>50 m (161 ft)</td>
<td>28,500 kg (62,832 lb)</td>
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<td>GRT8100</td>
<td>90 t (100 USt)</td>
<td>39 m (128 ft)</td>
<td>65,2 m (214 ft)</td>
<td>33,026 kg (72,809 lb)</td>
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<tr>
<td>RT9130E-2</td>
<td>120 t (130 USt)</td>
<td>42 m (138 ft)</td>
<td>67,3 m (221 ft)</td>
<td>40,529 kg (89,349 lb)</td>
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<td>RT9150E</td>
<td>135 t (150 USt)</td>
<td>47 m (154.3 ft)</td>
<td>68,0 m (223.3 ft)</td>
<td>42,063 kg (92,731 lb)</td>
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</table>

- **Vision cab**:●
- **Tilt cab**:●
- **Full CAN-Bus**:●
- **Tier 4F engine**:●
- **Inverted outrigger jacks**:●
- **Hoist access platform**:●
- **Removable outrigger box**:●
- **Hydraulically installed/removable counterweight**:optional
- **Full-length decking**:●
- **CraneSTAR**:optional
- **MEGAFORM™ boom design**:●
- **Four-section boom**:●
- **Five-section boom**:●
- **Six-section boom**:●
- **TWINLOCK™ pinned boom system**:●
- **Full power boom**:●
- **Main boom inserts**:optional
- **Boom extensions**:optional
- **Graphic LMI with Work Area Definition System**:●
- **Crane Control System**:●
Regional headquarters

**Americas**
Manitowoc, Wisconsin, USA  
Tel: +1 920 684 6621  
Fax: +1 920 683 6277

Shady Grove, Pennsylvania, USA  
Tel: +1 717 597 8121  
Fax: +1 717 597 4062

**Europe, Middle East, Africa**
Dardilly, France - TOWERS  
Tel: +33 (0)4 72 18 20 20  
Fax: +33 (0)4 72 18 20 00

Wilhelmshaven, Germany - MOBILE  
Tel: +49 (0) 4421 294 0  
Fax: +49 (0) 4421 294 4301

**China**
Shanghai, China  
Tel: +86 21 6457 0066  
Fax: +86 21 6457 4955

**Greater Asia-Pacific**
Singapore  
Tel: +65 6264 1188  
Fax: +65 6862 4040

Dubai, UAE  
Tel: +971 4 8862677  
Fax: +971 4 8862678/79

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Form No. RT Features and Benefits  
Part No. 12-004/0117/1M  
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