Grove RT875CC Manufacturer's specifications

Grove RT875CC specifications

The Grove RT875CC is a rough-terrain crane. The model-specific specifications below are published by RitchieSpecs; I could not verify an original Grove manufacturer-issued specification sheet, so these should be treated as **reference** data rather than certified OEM specifications.

Engine and drivetrain

Specification	Published value
Engine manufacturer	Cummins
Engine model	6CTA 8.3L
Cylinders	6
Aspiration	Turbocharged
Displacement	504.7 cu in / 8.3 L
Gross power	250 hp at 2,500 rpm
Maximum torque	650 lb-ft at 1,800 rpm
Transmission	Full powershift
Forward / reverse gears	6 / 6
Maximum forward speed	24.9 mph

All values above are from the RT875CC-specific listing.

Dimensions and operating weight

Specification	Published value
Transport length	46.3 ft
Transport width	12 ft
Transport height	13.07 ft
Wheelbase	170 in
Ground clearance	1.18 ft
Width with outriggers extended	24 ft
Upperstructure tail-swing radius	14.25 ft
Operating weight	94,501.2 lb

Specification	Published value
Tire size	33.25 × 29–32PR

These are the listing's published dimensions and weight; its equipment configuration is not specified.

Capacities and electrical system

Specification	Published value
Fuel capacity	100 US gal
Hydraulic-system fluid capacity	165 US gal
Cooling-system fluid capacity	44 US gal
Operating voltage	24 V
Maximum boom elevation angle	80°

The source lists these values, including the 44-gallon cooling-system capacity, but I could not independently verify them against Grove documentation.

Boom and lifting specifications: verification needed

The RT875CC listing reports "minimum height at maximum raise angle" as 34.45 ft and "maximum height at maximum raise angle—no jib" as 60.37 ft. These are listed as height measurements, not telescopic boom lengths. The source does not provide a rated lifting capacity or a load chart, so I cannot substantiate those specifications for this exact model.

The RT875E has a separate product guide explicitly labeled RT875E; its specifications should not be substituted for RT875CC data.

For an exact manufacturer specification sheet or lifting chart, what are the crane's year and serial number as shown on its identification plate?
Check boom length and capacity for the RT875CC
The Grove RT875CC has a 34–60 ft telescopic boom and is identified in its technical manual as a 40-ton container crane—not the standard 75-ton RT875 with a 125-ft boom.

Specification	Verified RT875CC information
Main boom length	34–60 ft (approximately 10.4–18.3 m), as labeled on the RT875CC load chart in Appendix F.
Boom construction	Two-section telescopic boom.

Specification	Verified RT875CC information
Nominal capacity designation	40 US tons—80,000 lb, approximately 36.3 metric tonnes—as identified on the operator's manual cover.
Capacity for a particular lift	Determined by the applicable load chart in Appendix F; the equipment-data section explicitly says "Rated Capacity: See Load Chart, Appendix F."

Important distinction

The **correction** to my earlier response is that model-specific technical documentation is available: TM 5-3810-306-10, covering the RT875CC and RT875CCS. Its RT875CC chart is explicitly headed "34′–60′ BOOM … ON OUTRIGGERS – 360°." The earlier 34.45-ft and 60.37-ft database entries should not have been the basis for establishing boom length.

The standard RT875's published 75-US-ton capacity and 41–125-ft boom are for a different configuration and should not be applied to the RT875CC.

For lift planning, treat 40 tons as the manual's nominal crane designation—not a capacity available at every radius or with the boom fully extended. Use the load chart matching the actual crane and its setup; I have not verified the individual capacity cells or the maximum charted hook load here.

Yesterday 11:38 AM

What is the difference between the RT875CC and standard RT875
The RT875CC is a specialized 40-US-ton container-handling crane with a short, two-section boom;