

**ITEM WRITING FORM
LOAD CHARTS**

Name: Item Writer

Address: Item Drive, Itemsville, IT 90210

Instructions: Please complete one form for each question submitted. Ensure each question is independent of other questions, list all attachments on the crane, and note which load line is handling the load. Reference the particular section of the load chart used for each question. *Be sure to use the exact terminology used in the load chart by the manufacturer.*

Make and model of crane: Grove TMS 300 Telescopic Truck Crane

Configuration: (mark inapplicable items with "n/a")

Outriggers: <i>On outriggers, fully extended</i>	Extension/Jib length: <i>32 ft. ext. + 24 ft. jib</i>
Counterweight: <i>Full</i>	Extension/Jib angle: <i>5 degree offset</i>
Tires: <i>n/a</i>	Block: <i>n/a</i>
Crawlers: <i>extended/retracted n/a</i>	Headache Ball: <i>7.5 ton ball on jib</i>
Main Boom type, length: <i>Fully ext. + 23ft fly</i>	Rigging: <i>50 lbs</i>
Main Boom angle: <i>70 degrees</i>	Wire rope type, length (main boom): <i>n/a</i>
Other:	Wire rope type, length (extension/jib): <i>1/2 in. 19x7 EIPS Strand</i>

Question: What is the net capacity of the jib over the rear?

Answers: 1. 3,950 lbs. 2. 4,650 lbs. 3. 4,300 lbs. 4. 3,300 lbs.
List correct answer first.

Calculation Path:
Show how you arrived at the correct answer as well as the three distractors, including all mathematical calculations, and referencing load chart notes as appropriate. Distractors should be plausible.

Go to jib capacity chart. With main boom angle of 70 degrees and 5 degree jib offset, capacity is 4,300 lbs (see distractor #3). Deduct 300 lbs for the headache ball and 50 lbs for the rigging to give a net capacity of 3,950 lbs. Distractor #2 is jib capacity of 4,300 lbs PLUS the weight of ball and jib. Distractor #4 is jib capacity at 30 degrees offset minus deductions (3,650 - 300 - 50 = 3,300 lbs).

CCO USE ONLY

Verified by: _____ Date: _____