

CRANE ELITE

MANITEX

(TSS) LOAD CHART

QUESTIONS

CRANE ELITE PREP SCHOOL
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EQUIPMENT
TRAINING
SOLUTIONS

MOBILE CRANE OPERATOR

MANITEX TSS LOAD CHART QUESTIONS

1. What is the net capacity, lifting off the main boom over the rear?

Outriggers: extended & set
 Counterweight: N/A
 Tires: N/A
 Main boom length: 26 ft.
 Main boom angle: 36°
 Radius: 20 ft.

Block: Double Sheave (4 parts)
 Ball: N/A
 Wire rope: 9/16" Rotation Resistant
 Jib: Stowed
 Jib offset: N/A
 Rigging: 100 lbs.
 Other: Hose reel mounted

- a) 10,350
- b) 9,320
- c) 9,510
- d) 9,800

3. What is the net capacity, lifting off the main boom?

Outriggers: extended & set

Counterweight: N/A

Tires: N/A

Main boom length: 68 ft.

Main boom angle: N/A

Radius: 37 ft.

Block: N/A

Ball: Overhaul

Wire rope: 9/16" 6x25

Jib: Stowed

Jib offset: N/A

Rigging: 100 lbs.

Other: Hose reel mounted

a) 3,200

b) 3,390

c) 3,010

d) 3,130

4. What is the net capacity, lifting off the main boom?

Outriggers: extended & set

Block: N/A

Counterweight: N/A

Ball: Overhaul

Tires: N/A

Wire rope: 9/16" 6x25

Main boom length: 42 ft.

Jib: Stowed

Main boom angle: 50⁰

Jib offset: N/A

Radius: N/A

Rigging: 300 lbs.

Other: Hose reel mounted

a) 3,860

b) 3,600

c) 3,900

d) 3,790

5. What is the net capacity, lifting off the main boom?

Outriggers: extended & set
Counterweight: N/A
Tires: N/A
Main boom length: 38 ft.
Main boom angle: 77⁰
Radius: N/A

Block: Single Sheave (3 Parts)
Ball: N/A
Wire rope: 9/16" 6x25
Jib: Stowed
Jib offset: N/A
Rigging: 300 lbs.
Other: Hose reel mounted

- a) 20,480
- b) 20,370
- c) 20,620
- d) 20,760

6. What is the net capacity, lifting off the jib?

Outriggers: extended & set

Counterweight: N/A

Tires: N/A

Main boom length: 68 ft.

Main boom angle: 41⁰

Radius: N/A

Block: N/A

Ball: Overhaul

Wire rope: 9/16" Rotation Resistant

Jib: 23' Erected

Jib offset: 0⁰

Rigging: 100 lbs.

Other: Hose reel mounted

a) 220

b) 600

c) 310

d) 730

7. What is the net capacity, lifting off the jib?

Outriggers: extended & set

Block: N/A

Counterweight: N/A

Ball: Overhaul

Tires: N/A

Wire rope: 9/16" Rotation Resistant

Main boom length: 68 ft.

Jib: 23' Erected

Main boom angle: 78°

Jib offset: 0°

Radius: N/A

Rigging: 100 lbs.

Other: Hose reel mounted

a) 3,190

b) 3,210

c) 3,280

d) 3,090

8. What is the net capacity, lifting off the jib?

Outriggers: extended & set

Counterweight: N/A

Tires: N/A

Main boom length: 68 ft.

Main boom angle: N/A

Radius: 23 ft.

Block: N/A

Ball: Overhaul

Wire rope: 9/16" 6x25

Jib: 23' Erected

Jib offset: 0°

Rigging: 80 lbs.

Other: Hose reel mounted

a) 3,300

b) 3,110

c) 2,670

d) 2,540

9. What is the net capacity, lifting off the jib?

Outriggers: extended & set

Counterweight: N/A

Tires: N/A

Main boom length: 68 ft.

Main boom angle: N/A

Radius: 40 ft.

Block: N/A

Ball: Overhaul

Wire rope: 9/16" Rotation Resistant

Jib: 40' Erected

Jib offset: 0°

Rigging: 50 lbs.

Other: Hose reel mounted

a) 1,150

b) 1,130

c) 960

d) 920

10. What is the net capacity, lifting off the jib?

Outriggers: extended & set

Block: N/A

Counterweight: N/A

Ball: Overhaul

Tires: N/A

Wire rope: 9/16" Rotation Resistant

Main boom length: 68 ft.

Jib: 40' Erected

Main boom angle: 74°

Jib offset: 0°

Radius: N/A

Rigging: 70 lbs.

Other: Hose reel mounted

a) 1,310

b) 1,180

c) 1,110

d) 1,300

11. What is the maximum jib tip height in feet with boom fully extended?

Outriggers: extended & set

Block: N/A

Counterweight: N/A

Ball: N/A

Tires: N/A

Wire rope: N/A

Main boom length: 68 ft.

Jib: 40' Erected

Main boom angle: 66°

Jib offset: 0°

Radius: N/A

Rigging: N/A

Other: N/A

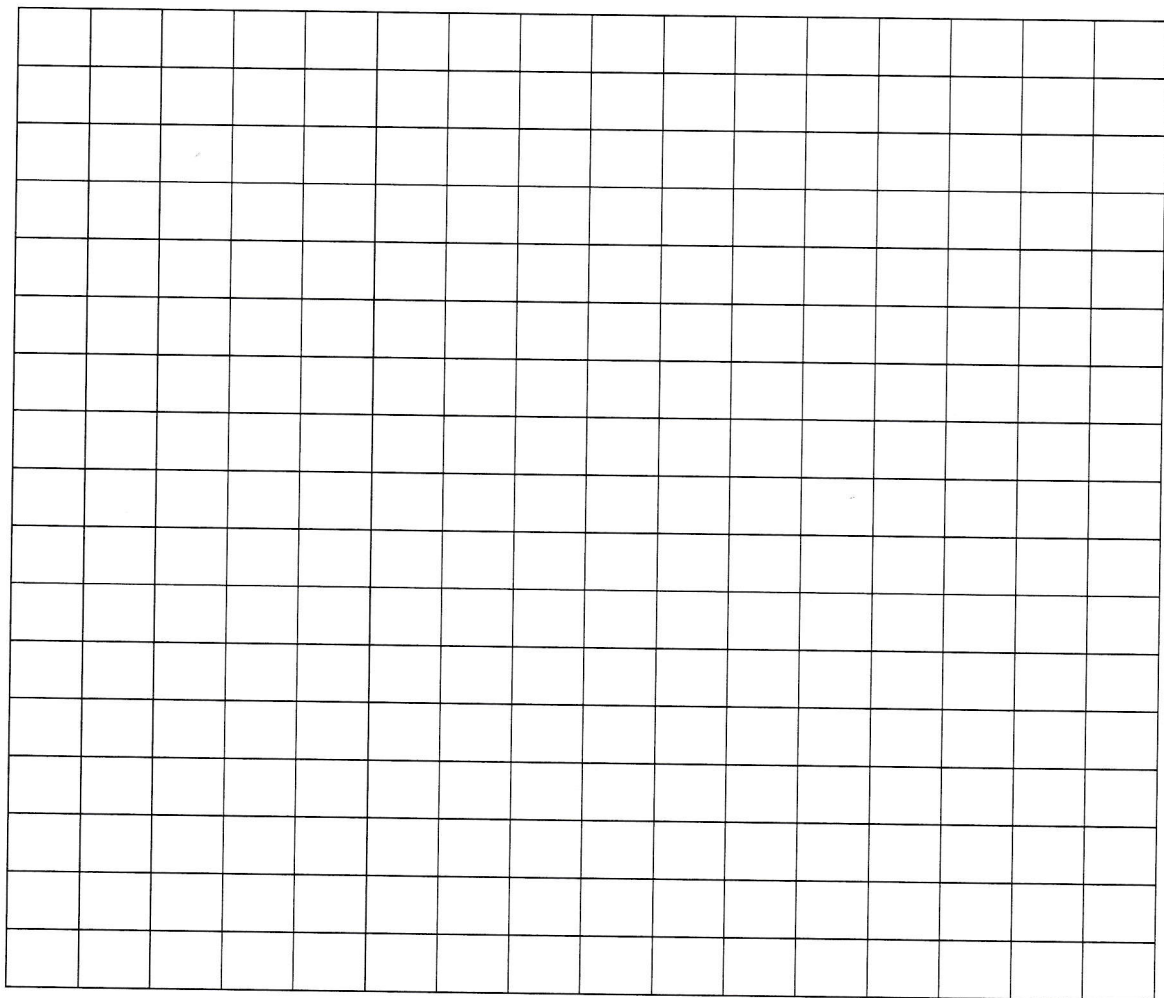
- a) 105
- b) 110
- c) 115
- d) 118

12. What is the net capacity lifting off the main boom point?

Outriggers: extended & set
Counterweight: N/A
Tires: N/A
Main boom length: 29 ft.
Main boom angle: 72°
Radius: N/A

Block: N/A
Ball: Overhaul
Wire rope: $9/16''$ 6x25
Jib: 23' Erected
Jib offset: 0°
Rigging: 100 lbs.
Other: Hose reel mounted

- a) 16,010
- b) 16,420
- c) 16,770
- d) 0



13. How many wraps of wire rope must be on the hoist drum at all times?

- Outriggers: extended & set
- Counterweight: N/A
- Tires: N/A
- Main boom length: N/A
- Main boom angle: N/A
- Radius: N/A
- Block: N/A
- Ball: N/A
- Wire rope: N/A
- Jib: N/A
- Jib offset: N/A
- Rigging: N/A
- Other: N/A

- a) 4
- b) 3
- c) 2
- d) 1

14. What is the maximum main boom length allowed at this boom angle?

Outriggers: extended & set Block: N/A
Counterweight: N/A Ball: N/A
Tires: N/A Wire rope: N/A
Main boom length: Jib: 23 ft. Erected
Main boom angle: 0° Jib offset: 0°
Radius: N/A Rigging: N/A
Other: N/A

- a) 26 ft.
- b) 38 ft.
- c) 48 ft.
- d) 58 ft.

15. What is the operating radius in this configuration?

Outriggers: extended & set

Counterweight: N/A

Tires: N/A

Main boom length: 38 ft.

Main boom angle: 15°

Radius: N/A

Block: N/A

Ball: 120 lbs.

Wire rope: N/A

Jib: 23 ft. Stowed

Jib offset: N/A

Rigging: 100 lbs.

Other: Hose reel mounted

a) 25 ft.

b) 35 ft.

c) 45 ft.

d) 55 ft.

16. _____ ?

Outriggers: extended & set

Block: _____

Counterweight: N/A

Ball: _____

Tires: N/A

Wire rope: _____

Main boom length: _____ ft.

Jib: _____

Main boom angle: _____

Jib offset: _____

Radius: _____

Rigging: _____

Other: _____

Answer) _____

17. _____ ?

Outriggers: extended & set
Counterweight: N/A
Tires: N/A
Main boom length: _____ ft.
Main boom angle: _____
Radius: _____

Block: _____
Ball: _____
Wire rope: _____
Jib: _____
Jib offset: _____
Rigging: _____
Other: _____

Answer) _____
