

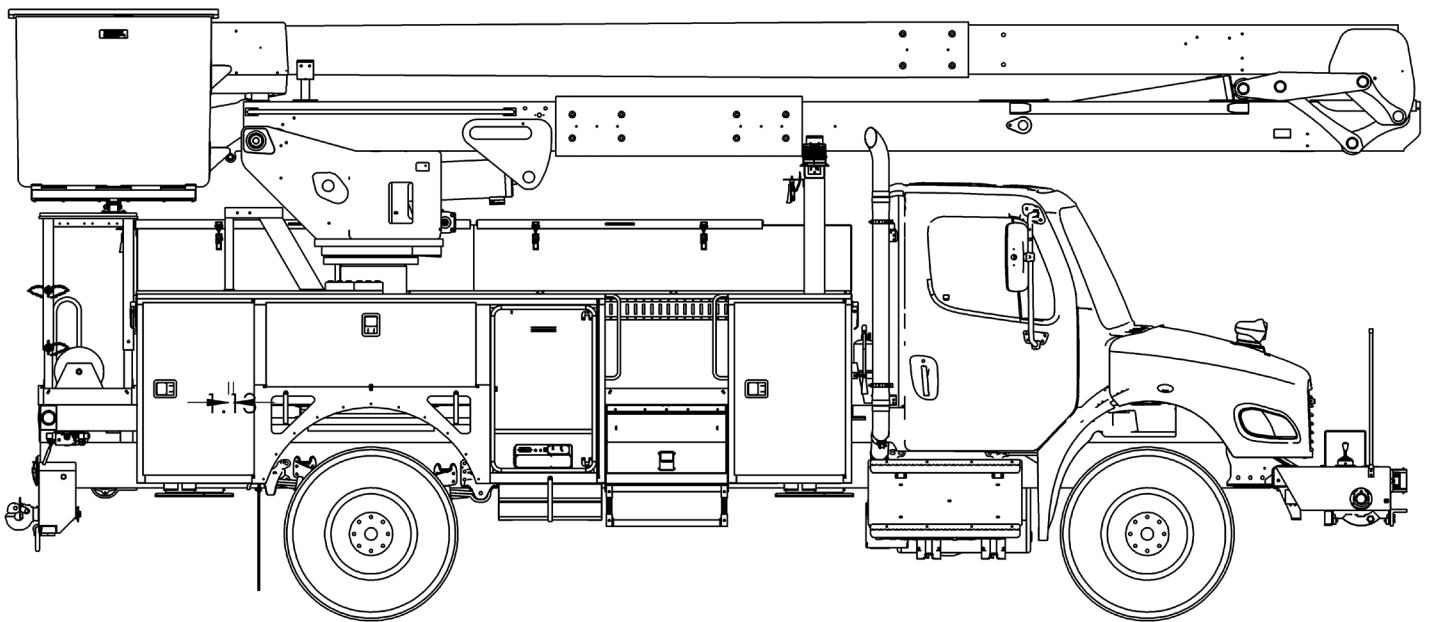


**TEREX®**

# TECH TIPS

**AERIAL LOAD CHARTS P/N 623723**

**NO. 218**



**GENERAL KNOWLEDGE**  
**AERIAL LOAD CHARTS**



**MODEL(S):**  
**AERIAL UNITS USING LOAD**  
**CHART 623723**



**TOOLS NEEDED:**  
**NONE**

**TEREX UTILITIES TECHNICAL SUPPORT TEAM**

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## **DANGER**

Failure to obey the instructions and safety rules in the appropriate Operator's Manual and Service Manual for your machine will result in death or serious injury.

Many of the hazards identified in the Operator's Manual are also safety hazards when maintenance and repair procedures are performed.

## **DO NOT PERFORM MAINTENANCE UNLESS:**

- ✓ You are trained and qualified to perform maintenance on this machine.
- ✓ You read, understand and obey:
  - manufacturer's instructions and safety rules
  - employer's safety rules and worksite regulations
  - applicable governmental regulations
- ✓ You have the appropriate tools, lifting equipment and a suitable workshop.

The information contained in this Tech Tip is a supplement to the Service Manual. Consult the appropriate Service Manual of your machine for safety rules and hazards.



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# INTRODUCTION

An operator will move a transformer from the ground and position it on a pole. Using the information in the following steps, determine the maximum jib capacity for the lift plan.



This tech-tip demonstrates how to use a load chart. Always use the unit specific load chart to determine capacities and to plan the path of the load.

## STEP 1

Using the information provided in the table, determine the maximum jib capacity.

TEREX UTILITIES					
OPTIMA HR55 JIB CAPACITIES					
Upper Boom Angle	JIB CAPACITY AT LOAD RADIUS SHOWN				
	Zone A			Zone B	
	Lower Boom to 110 deg			LB Over 110 Deg	
	0-2'	2-4'	4-6'	0-2'	2'+
-60	1380	750	500	880	500
-30	590	560	500	150	140
0	570	550	500	0	0
30	720	690	500	230	220
60	1500	750	500	1150	500
90	1500	750	500	1230	500
120	210	210	210	210	210
150	0	0	0	0	0
180	0	0	0	0	0
1) Capacities are in pounds 2) Load radius is the horizontal distance from basket shaft to winch line 3) See lower boom angle indicator for correct zone 4) If upper boom is between angles shown, use lower jib capacity 5) Plaform capacity is 600. Capacities are independent of platform load					
PN 623723B					

Load Radius	2.5 feet	Liner	60 lbs.
Operators	400 lbs	Tools	65 lbs.
Upper Boom Angle	15 to 60 degrees	Lower Boom Angle	70 to 112 degrees

## STEP 2

Determine if the load in the platform is within capacity. Using the load chart, the platform capacity is 600 lbs. The weight of the Operators + Liner + Tools = 400 + 60 + 65 = 525 lbs. The total weight is within the platform capacity. Note that the platform capacity is independent of the jib capacity as indicated in the notes.

Load Radius	2.5 feet	Liner	60 lbs.
Operators	400 lbs	Tools	65 lbs.
Upper Boom Angle	15 to 60 degrees	Lower Boom Angle	70 to 112 degrees

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90	1500	750	500	1230	500
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150	0	0	0	0	0
180	0	0	0	0	0
1) Capacities are in pounds 2) Load radius is the horizontal distance from basket shaft to winch line 3) See lower boom angle indicator for correct zone 4) If upper boom is between angles shown, use lower jib capacity 5) Platform capacity is 600. Capacities are independent of platform load					
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## STEP 3

The lower boom angle ranges from 70 to 112 degrees. Since the lower boom is greater than 110 degrees, Zone B on the load chart must be used. The capacities in Zone B are reduced over the Zone A capacities.

Load Radius	2.5 feet		
Upper Boom Angle	15 to 60 degrees	Lower Boom Angle	70 to 112 degrees

TEREX UTILITIES					
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Upper Boom Angle	JIB CAPACITY AT LOAD RADIUS SHOWN				
	Zone A			Zone B	
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120	210	210	210	210	210
150	0	0	0	0	0
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1) Capacities are in pounds 2) Load radius is the horizontal distance from basket shaft to winch line 3) See lower boom angle indicator for correct zone 4) If upper boom is between angles shown, use lower jib capacity 5) Platform capacity is 600. Capacities are independent of platform load					
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FIGURE 3

## STEP 4

The load radius is 2.5 feet. Based on this load radius, we will be using the last column in Zone B for a radius of 2'+.

Load Radius	2.5 feet	Upper Boom Angle	15 to 60 degrees
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TEREX UTILITIES					
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	Zone A			Zone B	
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60	1500	750	500	1150	500
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120	210	210	210	210	210
150	0	0	0	0	0
180	0	0	0	0	0
1) Capacities are in pounds 2) Load radius is the horizontal distance from basket shaft to winch line 3) See lower boom angle indicator for correct zone 4) If upper boom is between angles shown, use lower jib capacity 5) Platform capacity is 600. Capacities are independent of platform load					
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FIGURE 4

# STEP 5

Using the range of upper boom angles, the lowest capacity throughout the entire range must be used. The jib capacity in this situation is 0 lbs. The lift cannot be performed without changing the proposed path of the load.

**Note:** Since 15 degrees is between 0 degrees and 20 degrees on the load chart, we must use the lower capacity at 0 degrees.

Load Radius	2.5 feet	Upper Boom Angle	15 to 60 degrees
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OPTIMA HR55 JIB CAPACITIES					
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120	210	210	210	210	210
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1) Capacities are in pounds 2) Load radius is the horizontal distance from basket shaft to winch line 3) See lower boom angle indicator for correct zone 4) If upper boom is between angles shown, use lower jib capacity 5) Plaform capacity is 600. Capacities are independent of platform load					
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FIGURE 5





FOR FURTHER ASSISTANCE,  
CONTACT THE TEREX UTILITIES TECHNICAL SUPPORT TEAM  
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