

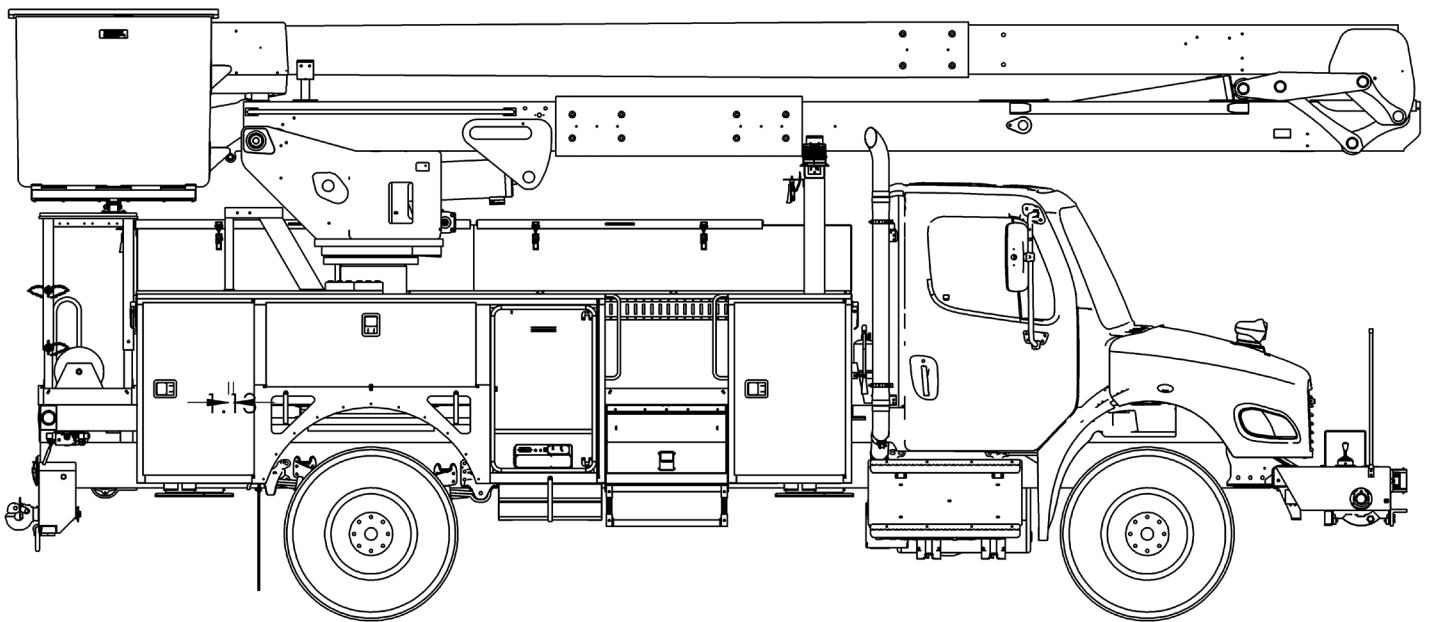


TEREX®

TECH TIPS

AERIAL LOAD CHARTS P/N 627524

NO. 198



GENERAL KNOWLEDGE
AERIAL LOAD CHARTS



MODEL(S):
AERIAL UNITS USING LOAD
CHART 627524



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 if the lift plan can be achieved while remaining within the limits of the load chart.



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

The transformer has a known weight of 285 lbs. Performing a dry run, the operator determined the boom angles required to move and place the transformer.

TEREX UTILITIES				
ZONED JIB LOAD CHART FOR 500 lbs END MT BASKET W/COBRA JIB				
Maximum Jib Capacity		1000	1000	1000
Upper Boom Angle	Boom Extension	BASKET SHAFT TO LOAD LINE		
		0-2'	2-3'	>3'
-25 to 25	No Strip	750	700	700
	Blue Strip visible	450	350	350
	Red Strip visible	200	200	200
25 to 40	No Strip	900	850	800
	Blue Strip visible	600	550	550
	Red Strip visible	200	200	200
40 to 55	No Strip	1000	1000	1000
	Blue Strip visible	900	850	800
	Red Strip visible	500	450	450
55 to 75	All extension	950	900	800
75 to 80	All extension	1000	850	650
80 to 85	All extension	1000	600	450
1) Capacities are in pounds. 2) Jib capacity shown is in addition to basket capacity shown. 3) Maximum jib capacity is 1000 lbs. 4) If the aerial device is modified in any way or remounted, Terex Utilities must be notified as capacities shown may be affected.				
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Load Radius	2 feet	Liner	50 lbs.
Operator	330 lbs.	Tools	50 lbs.
Transformer	285 lbs.	Upper Boom Angle	30° to 60°
Boom Extension	Blue Strip Visible		

STEP 2

Determine if the load in the platform is within capacity.

Using the load chart, the platform capacity is 500 lbs.

The weight of the Operator + Liner + Tools = 330 + 50 + 50 = 430 lbs.

The total weight is less than the platform capacity.

Load Radius	2 feet	Liner	50 lbs.
Operator	330 lbs.	Tools	50 lbs.
Transformer	285 lbs.	Upper Boom Angle	30° to 60°
Boom Extension	Blue Strip Visible		

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	Blue Strip visible	600	550	550
	Red Strip visible	200	200	200
40 to 55	No Strip	1000	1000	1000
	Blue Strip visible	900	850	800
	Red Strip visible	500	450	450
55 to 75	All extension	950	900	800
75 to 80	All extension	1000	850	650
80 to 85	All extension	1000	600	450
<p>1) Capacities are in pounds. 2) Jib capacity shown is in addition to basket capacity shown. 3) Maximum jib capacity is 1000 lbs. 4) If the aerial device is modified in any way or remounted, Terex Utilities must be notified as capacities shown may be affected.</p>				
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STEP 3

The load radius is 2 feet.

Based on this load radius, we'll be using the middle column to determine the jib capacity.

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Upper Boom Angle	30° to 60°	Boom Extension	Blue Strip Visible

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FIGURE 4

STEP 4

The upper boom angle ranges from 30 to 60 degrees. We also know that the boom is extended allowing the blue strip to be visible. Based on this information the minimum jib capacity is 550 lbs.

The 285 lb. transformer can be lifted in this scenerio.

Load Radius	2 feet	Transformer	285 lbs.
Upper Boom Angle	30° to 60°	Boom Extension	Blue Strip Visible

TEREX UTILITIES				
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FOR FURTHER ASSISTANCE,
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