

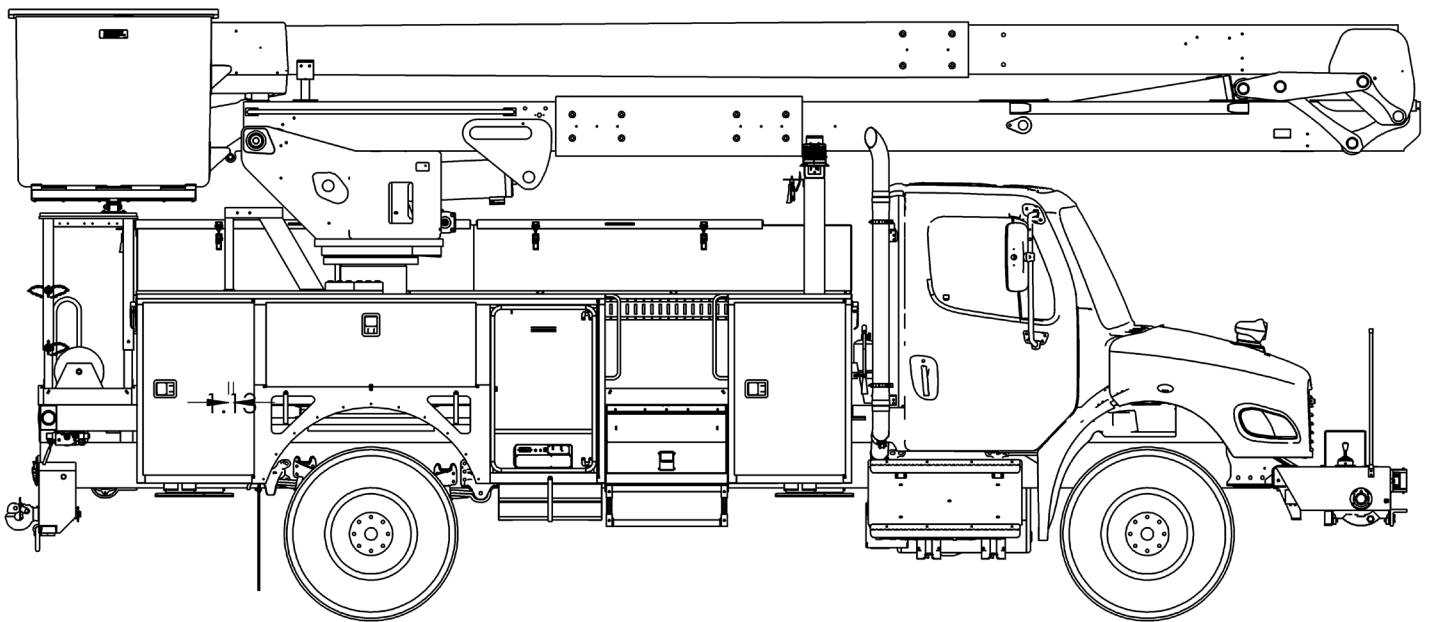


TEREX®

TECH TIPS

CUSTOM SCM55 AERIAL LOAD CHARTS

NO. 224



**GENERAL KNOWLEDGE
AERIAL LOAD CHARTS**



**MODEL(S):
CUSTOM SCM55 AERIAL LOAD
CHART**



**TOOLS NEEDED:
NONE**

TEREX UTILITIES TECHNICAL SUPPORT TEAM

PHONE: 1-844-TEREX4U (1-844-837-3948) | EMAIL: UTILITIES.SERVICE@TEREX.COM



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.



TECH TIP 224 | RELEASED 04.09.2025 | VERSION 1.0
©TEREX UTILITIES. ALL RIGHTS RESERVED

CONTENTS

TECH TIP#224

4

| Transformer weight

INTRODUCTION
STEP 1

5

| Determine weight within platform

STEP 2

6

| Load Radius

STEP 3

7

| Upper Boom Angle

| Unused Platform Capacity

STEP 4

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 430 lbs. Performing a dry run, the operator determined the boom angles required to move and place the transformer.

TEREX UTILITIES					
SCM 55 JIB AND BASKET CAPACITIES					
Maximum Jib Load		2000	1500	750	500
Upper Boom Angle	Basket Capacity	Jib Capacity at Load Radius Shown			
		0	0-2'	2-4'	4-6'
-60	700	2000	1500	750	500
-30	700	1130	1020	750	500
0	700	940	870	750	500
30	700	1080	1040	750	500
60	700	2000	1500	750	500
90	700	2000	1500	750	500
120	700	690	680	660	500
150	700	250	230	220	200
180	700	190	190	180	180
1) Capacities are in pounds, basket capacity is total for all baskets. 2) Jib capacity shown is in addition to basket capacity shown. If the platform capacity rating is different than the basket capacity shown, use the lower value. Maximum winch capacity is 2000 pounds 3) 90% of unused basket capacity may be added to the jib capacity, but do not exceed the maximum jib load shown. 4) If the aerial device is modified in any way or remounted, Terex Utilities must be notified as capacities shown may be affected.					
SN XXXXXXXXXX					

Load Radius	3 feet	Liner	40 lbs.
Operator 1	230 lbs.	Operator 2	210 lbs.
Tools	60 lbs.	Transformer	430 lbs.
Upper Boom Angle	30° to 130°		

STEP 2

Determine if the load in the platform is within capacity.

Using the load chart, the platform capacity is 700 lbs.

The weight of the Operator 1 + Operator 2 + Liner + Tools = 230 + 210 + 40 + 60 = 540 lbs.

The total weight is less than the platform capacity.

Load Radius	3 feet	Liner	40 lbs.
Operator 1	230 lbs.	Operator 2	210 lbs.
Tools	60 lbs.	Transformer	430 lbs.
Upper Boom Angle	30° to 130°		

TEREX UTILITIES					
SCM 55 JIB AND BASKET CAPACITIES					
Maximum Jib Load		2000	1500	750	500
Upper Boom Angle	Basket Capacity	Jib Capacity at Load Radius Shown			
		0	0-2'	2-4'	4-6'
-60	700	2000	1500	750	500
-30	700	1130	1020	750	500
0	700	940	870	750	500
30	700	1080	1040	750	500
60	700	2000	1500	750	500
90	700	2000	1500	750	500
120	700	690	680	660	500
150	700	250	230	220	200
180	700	190	190	180	180
1) Capacities are in pounds, basket capacity is total for all baskets. 2) Jib capacity shown is in addition to basket capacity shown. If the platform capacity rating is different than the basket capacity shown, use the lower value. Maximum winch capacity is 2000 pounds 3) 90% of unused basket capacity may be added to the jib capacity, but do not exceed the maximum jib load shown. 4) If the aerial device is modified in any way or remounted, Terex Utilities must be notified as capacities shown may be affected.					
SN XXXXXXXXXX					

STEP 3

The load radius is 3 feet.

Based on this load radius, we'll be using the 3rd column on the load chart.

Load Radius	3 feet	Transformer	430 lbs.
Upper Boom Angle	30° to 130°		

TEREX UTILITIES					
SCM 55 JIB AND BASKET CAPACITIES					
Maximum Jib Load		2000	1500	750	500
Upper Boom Angle	Basket Capacity	Jib Capacity at Load Radius Shown			
		0	0-2'	2-4'	4-6'
-60	700	2000	1500	750	500
-30	700	1130	1020	750	500
0	700	940	870	750	500
30	700	1080	1040	750	500
60	700	2000	1500	750	500
90	700	2000	1500	750	500
120	700	690	680	660	500
150	700	250	230	220	200
180	700	190	190	180	180
1) Capacities are in pounds, basket capacity is total for all baskets. 2) Jib capacity shown is in addition to basket capacity shown. If the platform capacity rating is different than the basket capacity shown, use the lower value. Maximum winch capacity is 2000 pounds 3) 90% of unused basket capacity may be added to the jib capacity, but do not exceed the maximum jib load shown. 4) If the aerial device is modified in any way or remounted, Terex Utilities must be notified as capacities shown may be affected.					
SN XXXXXXXXXX					

STEP 4

The upper boom angle range was determined to be from 30 to 130 degrees. Using this information the maximum jib capacity is 220 lbs. at 130 degrees.

The load chart does allow 90% of unused platform capacity to be added to the jib capacity up to the Maximum Jib Load. In Step 2, it was determined that 160 lbs. of platform capacity remained.

160 lbs. x 90% = 144 lbs. Adding this to the load chart allows the lifting of up to 364 lbs. The capacity is still too low to lift the 430 lbs. transformer.

Load Radius	3 feet	Transformer	430 lbs.
Upper Boom Angle	30° to 130°		

TEREX UTILITIES					
SCM 55 JIB AND BASKET CAPACITIES					
Maximum Jib Load		2000	1500	750	500
Upper Boom Angle	Basket Capacity	Jib Capacity at Load Radius Shown			
		0	0-2'	2-4'	4-6'
-60	700	2000	1500	750	500
-30	700	1130	1020	750	500
0	700	940	870	750	500
30	700	1080	1040	750	500
60	700	2000	1500	750	500
90	700	2000	1500	750	500
120	700	690	680	660	500
150	700	250	230	220	200
180	700	190	190	180	180
1) Capacities are in pounds, basket capacity is total for all baskets. 2) Jib capacity shown is in addition to basket capacity shown. If the platform capacity rating is different than the basket capacity shown, use the lower value. Maximum winch capacity is 2000 pounds 3) 90% of unused basket capacity may be added to the jib capacity, but do not exceed the maximum jib load shown. 4) If the aerial device is modified in any way or remounted, Terex Utilities must be notified as capacities shown may be affected.					
SN XXXXXXXXXX					



FOR FURTHER ASSISTANCE,
CONTACT THE TEREX UTILITIES TECHNICAL SUPPORT TEAM
PHONE: **1-844-TEREX4U (1-844-837-3948)** | EMAIL: **UTILITIES.SERVICE@TEREX.COM**
