

Product	KPM-8, KlimerLite	Applicable Serial Numbers	all
Revision #	R1	Last Reviewed/Updated	10/06/22
Effective Date	11/28/2016	# of Pages	6



**This technical bulletin requires immediate attention. Failure to read this technical bulletin and take immediate steps to comply with its recommendations may lead to injury or death.**

## 1. Purpose

To provide clarification and additional guidance for placement of materials when loading the KPM-8 and KlimerLite Mast Climbing Work Platforms (MCWP). The allowable loads specified in the Operators Manual allow for 2 persons plus the stated materials capacity. When the number of persons exceeds 2 persons the allowable rated loads must be reduced by the reduction factor **LP** for each additional person. Note the values of **LP** increase for longer platform lengths. This technical bulletin is intended to provide clarity for masonry and other applications where loads are concentrated and not uniformly distributed.

**Failure to follow the loading guidelines, improperly loading or overloading the platform system may result in serious consequences including property damage, personal injury or death.**

The current load charts displayed on the KPM-8 and KlimerLite machines and in Klimer’s site specific binders, operator manuals and technical specifications describe the load as being uniformly distributed. Uniformly distributed means that each platform section of the MCWP has the same applied load as all of the other platform sections.

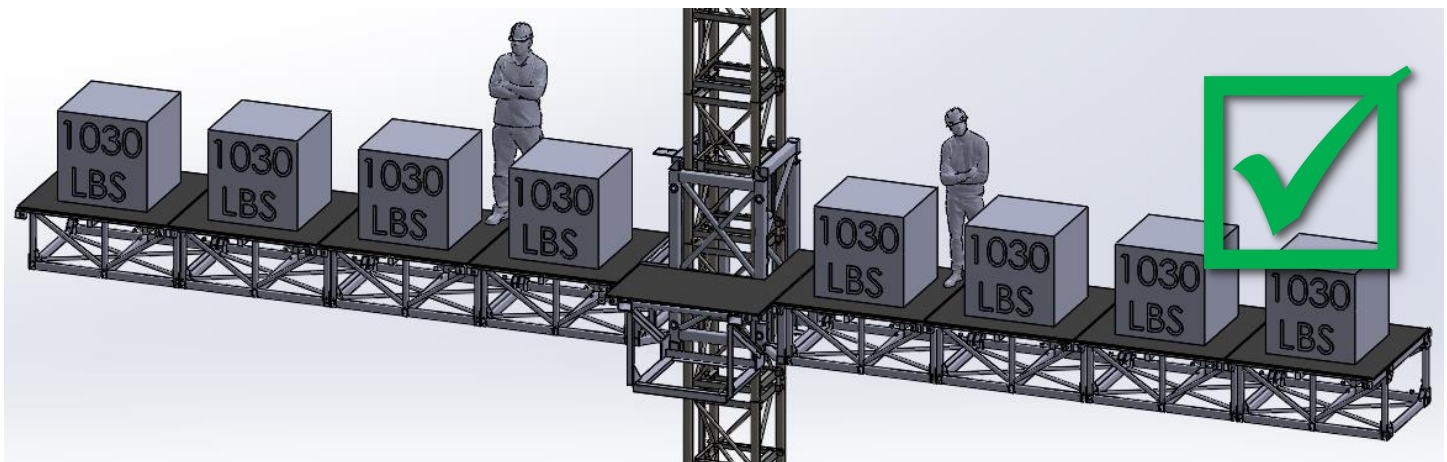


Figure 1: Uniformly Distributed Load (45' KPM-8) With 2 persons plus 8,250 lbs. of material.

Where materials are palletized, the pallet weights often exceed the uniformly distributed per loaded pallet. It is permissible to concentrate loads in the direction of the location of the mast.

## 2. Procedure

When the desired capacity of a platform is greater than the allowable load per platform section (LD), the LD from an adjacent platform section further from the mast can be moved to that platform section.

The loads shall only be moved closer to the mast.

LD is for a full width platform section; the allowable load for a half size platform section is LD/2.

The total load on the platform side shall not exceed the total allowable distributed load for that side.

The total load on the platform shall not exceed the total distributed load for the platform.

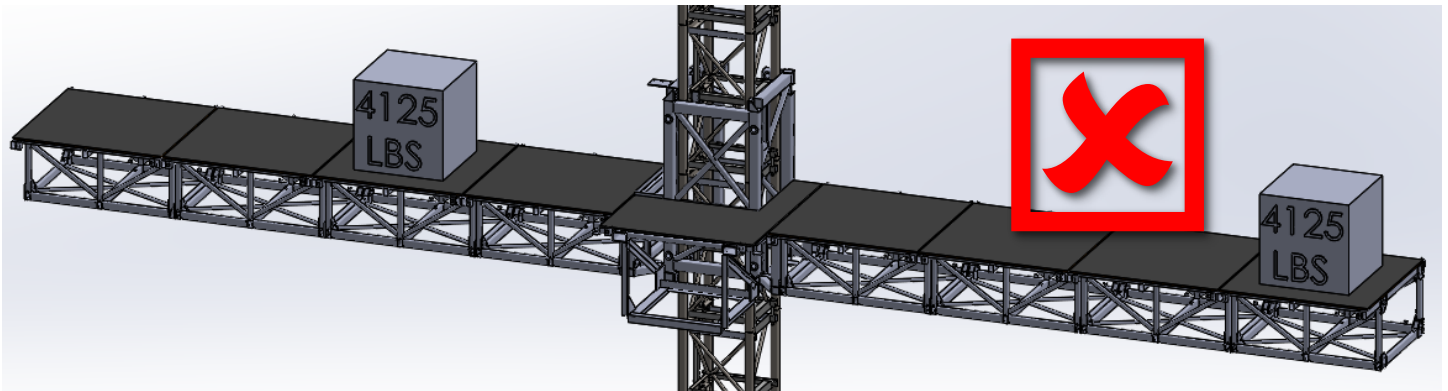


Figure 1: Incorrect Platform Loading

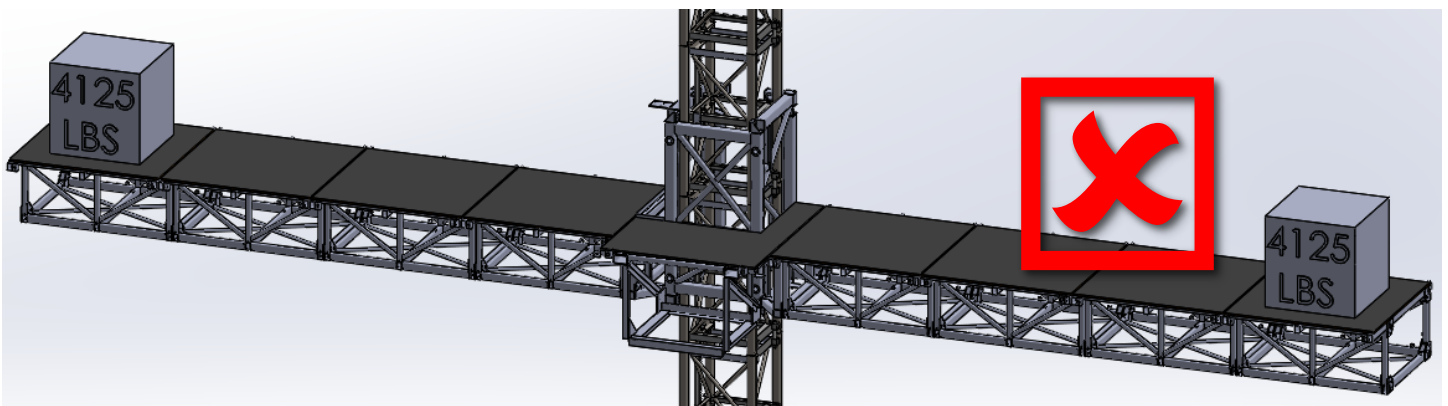


Figure 2: Incorrect Platform Loading

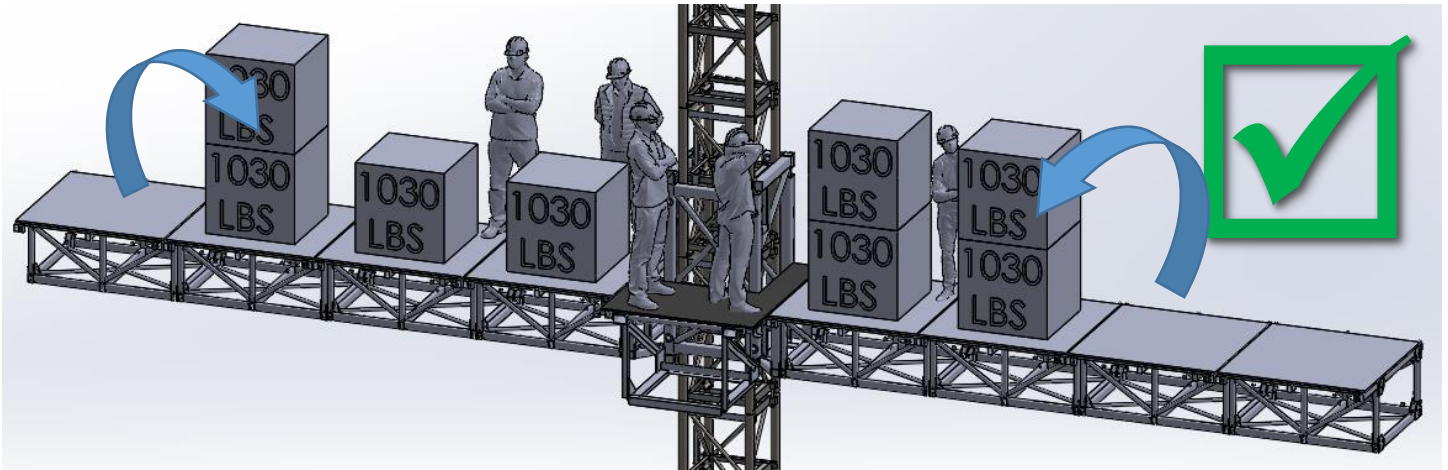


Figure 3: Distributed Load Non-Uniformly (45' KPM-8)

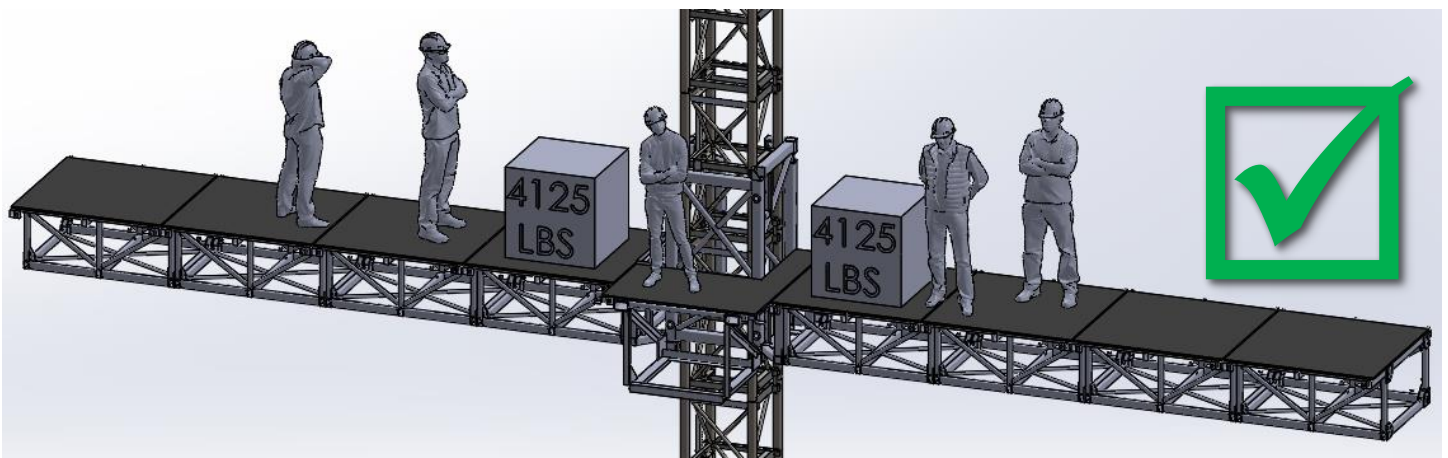


Figure 4. KPM-8 with load concentrated correctly. 45' (13.72m) with 5 persons, allowable materials 8,250 lbs. (3,750 kg.)

### Determining the Allowable load with in excess of 2 persons

**Example:** 55' (16.76m) KPM-8, 5 persons

Allowable distributed load

LT-(# of persons in excess of 2 multiplied by (load reduction per person) LP

=5,250 lbs. – (3 X 500 lbs.)

=3,750 lbs.

Uniformly distributed load per platform section

Total allowable load divided by the # of platform sections

=3,750/10

= 375 lbs.

### Load Chart Clarification

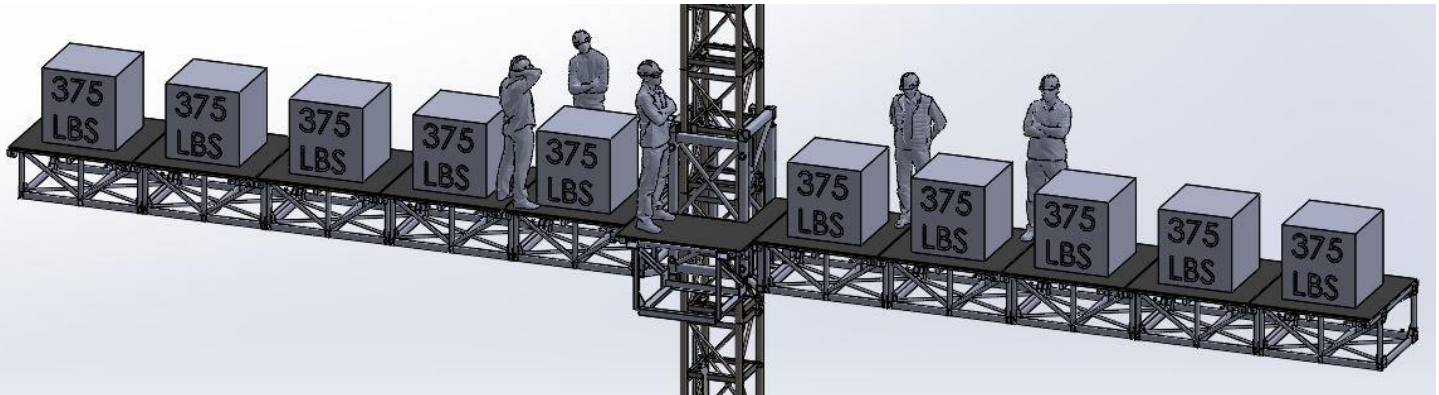


Figure 5. KPM-8 with uniformly distributed load. 55' (13.72m) with 5 persons, allowable materials 3,750 lbs. (1,705 kg.)

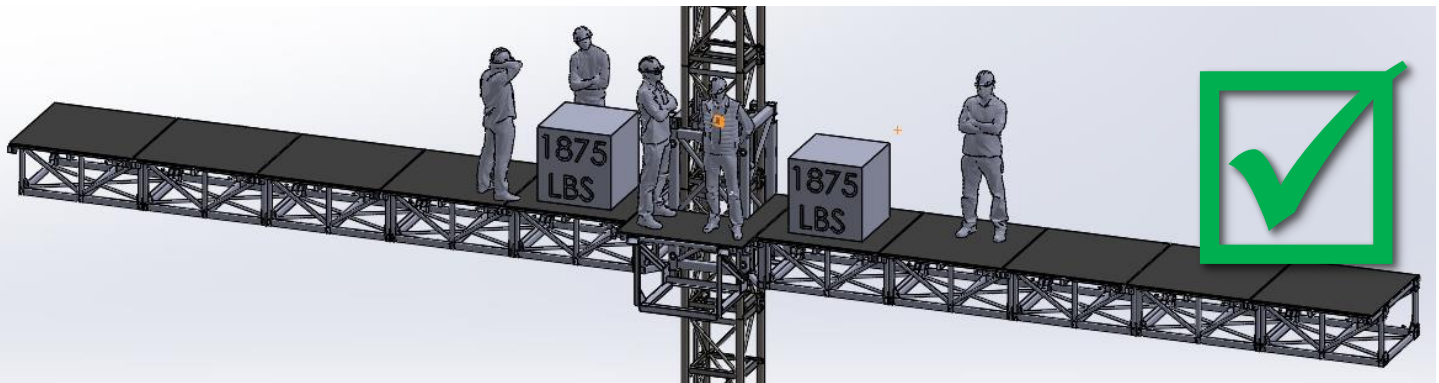


Figure 6. KPM-8 Load Concentrated correctly. 55' long with 5 persons

### Summary

It is permissible to concentrate loads provided that; loads are concentrated closer to the mast, total allowable load for the side is not exceeded, total allowable load for the platform is not exceeded.

Additionally due to reduced loading with longer platforms lengths it is recommended that for masonry applications the platform length not exceed:

KlimerLite: 29' (8.84m)

KPM-8: 50' (15.2m)

KPM-8 with mason platforms: 55' (16.76m)



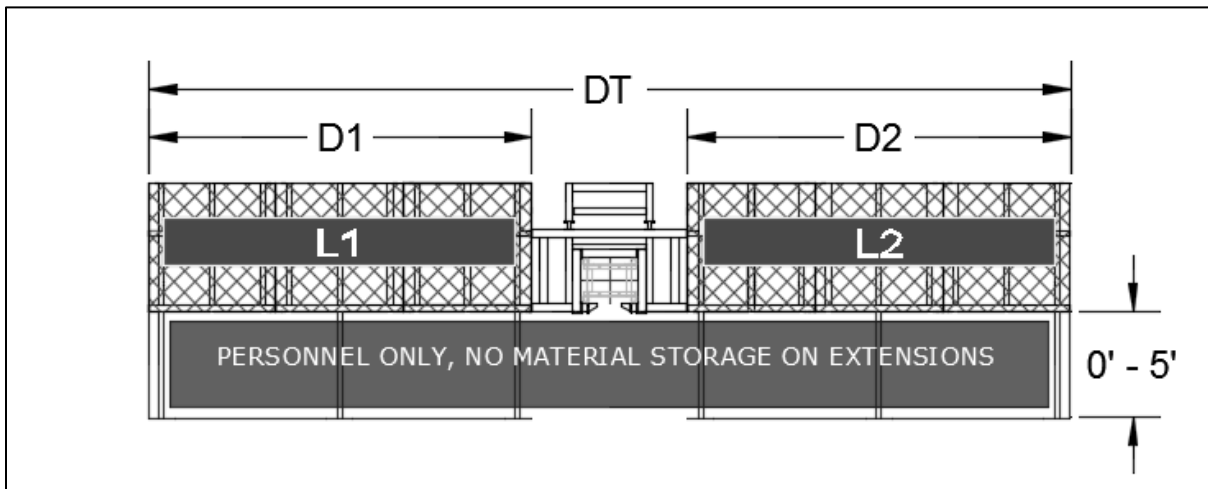


Figure 7: Load Diagram

LENGTH						LOAD							
DT		D1, D2				LT		L1, L2		LD		LP	
Feet	Meters	5' (1.5m) platforms	2.5' (0.8m) platforms	Feet	Meters	Pounds (lbs)	Kilograms (kg)	lbs	kg	lbs	kg	lbs	kg
15	4.57	1	-	5	1.52	11,500	5,225	5,750	2,610	5,750	2,610	250	110
20	6.10	1	1	7.5	2.29	11,000	5,000	5,500	2,500	3,666	1,666	250	110
25	7.62	2	-	10	3.05	10,750	4,875	5,375	2,438	2,688	1,220	250	110
30	9.14	2	1	12.5	3.81	10,500	4,770	5,250	2,383	2,100	1,050	250	110
35	10.67	3	-	15	4.57	10,250	4,650	5,125	2,325	1,708	775	250	110
40	12.19	3	1	17.5	5.33	10,000	4,535	5,000	2,268	1,428	648	500	230
45	13.72	4	-	20	6.10	9,750	4,425	4,875	2,213	1,218	608	500	230
50	15.24	4	1	22.5	6.86	8,250	3,740	4,125	1,870	916	415	500	230
55	16.76	5	-	25	7.62	5,750	2,610	2,875	1,305	575	260	500	230

Table 1: KPM-8 Single Mast - Equal Platform Length with 0 - 5ft (0 - 1.5m) Extensions

LENGTH						LOAD							
DT		D1				LT		L1, L2		LD		LP	
Feet	Meters	4' (1.2m) platforms	2' (0.6m) platforms	Feet	Meters	Pounds (lbs)	Kilograms (kg)	lbs	kg	lbs	kg	lbs	kg
9	2.74	0	1	2	0.61	6,320	2,865	3,160	1,433	3,160	1,433	250	110
13	3.96	1	-	4	1.22	6,000	2,720	3,000	1,360	3,000	1,360	250	110
21	6.40	2	-	8	2.44	5,500	2,495	2,750	1,248	1,375	624	250	110
29	8.84	3	-	12	3.66	4,750	2,155	2,375	1,078	792	359	250	110
37	11.28	4	-	16	4.88	4,000	1,815	2,000	908	500	227	250	110
45	13.72	5	-	20	6.10	3,000	1,360	1,500	680	300	136	500	230

Table 2: KlimerLite Single Mast - Equal Platform Length with 0 - 5ft (0 - 1.5m) Extensions

#### 4. References

Operators Instruction Manual – KPM-8 Mast Climbing Work Platform  
 Operators Instruction Manual – KLIMERLITE Mast Climbing Work Platform  
 KPM-8 Load Chart Package  
 KlimerLite Load Chart Package  
 Klimer Occupant Training documents  
 Klimer Operator Training documents  
 Klimer Installer Training documents

#### 5. Definitions

MCWP = Mast Climbing Work Platform  
 LD = Uniformly Distributed Load per platform module  
 LP = Load reduction per person