



Load handling chart book

LTM 1080/1L

061513

Date : 22.10.2002



Load handling chart book LTM 1080/1L

Address

Address: LIEBHERR-WERK EHINGEN GMBH
Postfach 1361
D-89582 Ehingen / Donau
Tel.(07391)502-0
Telex 71763-0 le d
Fax (07391)502-399

Product identification

Manufacturer: LIEBHERR-WERK EHINGEN GMBH
Product group: Telescope mobile crane
Type: LTM 1080/1L
Machine number: 061513
Date: 22.10.2002



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DANGER: The specifications contained in the operating instructions are of vital importance for crane operation. Failure to observe these instructions may lead to ACCIDENTS!!

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II. LOAD CAPACITY TABLES



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1. Explanations

- 1.1 The load capacity values in the tables are stated in pounds [lbs].
- 1.2 The working radius is the horizontal gravity center distance of the load from the rotational axis of the crane superstructure measured at the ground. The radius stated is valid under load conditions, i.e. including boom flexure.
- 1.3 Boom positions differing from those given in the load capacity tables are not permissible.
- 1.4 Even without a load, the boom may only be moved inside those areas for which load capacity values are stated, otherwise there is a danger of tilting. In normal operation, this hazard is prevented by the overload safety device. After switching to "Assembly" mode (with the "assembly" key-operated switch), the boom must not be lowered or topped outside the range of the working radius.
- 1.5 The stated load capacities contain the weights of the load bearing, lifting and slinging tackle. The possible weight for the load to be lifted is therefore reduced according to the weights of the afore-mentioned tackle.
- 1.6 If the boomnose is mounted on the jib head during crane operation, then the possible load is reduced further corresponding the weight of the boomnose. (144 lbs)

2. Crane operating mode "Crane supported"

- 2.1 Before the crane is raised on its supports, the axle suspension must be blocked.
- 2.2 The sliding arms of the hydraulic support jack must be extended (to a uniform length on both sides) to the extent stated in the applirope load capacity table.
- 2.3 The sliding arms must be secured by pins.
- 2.4 It is necessary to place stable underlay material under the support pads of the support jacks over a large surface area according to ground conditions.
- 2.5 All wheels must be raised clear of the ground.
- 2.6 The crane must be aligned horizontally with the aid of the level gauges. The horizontal crane position must be checked occasionally, and if necessary corrected, during crane operation.



3. Crane operating mode "Free-standing on tires"

The crane can be operated in this mode if the following instructions are observed:

- 3.1 The telescopic boom may be extended to a maximum length of 58 ft.
- 3.2 The ground beneath the crane must be in a position to securely bear the maximum operating weight of the crane supplemented by the weight of the load.
- 3.3 The ground beneath the crane must be level and not sloping.
- 3.4 The suspension of all axles must be locked.
- 3.5 If possible, the sliding arms should be extended and the support jacks, with support pads mounted, lowered to a location slightly above the ground, so that the crane can rest on the supports if the ground gives way.
- 3.6 The air pressure of all tires must conform to the pressure specified for crane operation:.

Tire equipment	air pressure for road travel	air pressure for crane operation
14.00-25	145.0 psi (10 bar)	145.0 psi (10 bar)
16.00-25	130.5 psi (9 bar)	145.0 psi (10 bar)
20.5-25	101.5 psi (7 bar)	116.0 psi (8 bar)

DANGER: Failure to comply with these pressures may lead to accidents

4. Crane travel with load

The crane can be driven with a suspended load if the instructions given under point 3 are observed. The following supplementary rules apply:

- 4.1 The crane must be driven very slowly (1st gear).
- 4.2 Abrupt travel movements must be avoided.
- 4.3 The load must be kept close to the ground and safeguarded against pendulum motion.



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5. There is a danger of overloading or toppling the crane:

- 5.1 if the loads, boom lengths and radius indicated in the appropriate load chart are not strictly adhered to;
- 5.2 if the load begins to swing due to improper control of crane movements;
- 5.3 if loads are pulled at an angle. Pulling diagonally to the boom's longitudinal axis is the most dangerous movement, and must never be carried out. Pulling at an angle is prohibited.
- 5.4 if there is insufficient distance from trenches, cellars, and holes;
- 5.5 if in operating condition "crane supported":
 - 5.5.1 the crane is not properly supported on all 4 hydraulic supports and the crane is not adjusted horizontally;
 - 5.5.2 the sliding outrigger arms are not extended to the exact length stated in the applicable load chart (to a uniform length on both sides);
 - 5.5.3 the sliding arms are not secured with pins;
 - 5.5.4 the support pads are not provided with a suitable foundation of stable material in accordance with the relevant ground conditions;
- 5.6 if in operating condition "crane freestanding on tires, working over rear":
 - 5.6.1 the telescopic boom is extended to a length of more than 58 ft;
 - 5.6.2 the axle suspension is not blocked;
 - 5.6.3 the ground is not capable of bearing the max. operating weight of the crane supplemented by the weight of the load.
 - 5.6.4 the ground is not level and not without inclination;
 - 5.6.5 the crane is driven too fast with a load suspended, and braking or other movements are sudden.

6. Telescopic boom

- 6.1 The lifting capacity of the telescopic boom with its 5 extendable telescopic sections is limited. The loads stated in the load capacity tables must not be exceeded.
- 6.2 The specifications for the telescopic sections to be extended according to load and required boom length must be observed under all circumstances.
- 6.3 As a general rule, the boom should first be extended to the required length, and then loaded. However, it is possible to extend and retract the boom under partial load. The weight of this partial load is dependent on bearing pad lubrication and the available useable lengths of the telescopic sections.
- 6.4 Even without a load, the telescopic boom may only be moved within the working radius ranges for which values are listed in the load capacity table.

DANGER: Failure to observe this regulation may lead to accidents



7. Rope winches

- 7.1 Winch 1 (main hoisting gear)
Winch 1 is designed for a maximum rope tension of 13900 lbs (63 kN). This rope tension must not be exceeded under any circumstances. Accordingly, the minimum number of hoisting rope lines (rope reeving) should be selected according to the weight of the load to be lifted (see Table "Hoisting rope reeving" in Chapter II).
- 7.2 Winch 2 (Auxiliary hoisting gear)
Winch 2 is designed for a maximum rope tension of 13900 lbs (63 kN). This rope tension must not be exceeded under any circumstances. Accordingly, the minimum number of hoisting rope lines (rope reeving) should be selected according to the weight of the load to be lifted (see Table "Hoisting rope reeving" in Chapter II).
- 7.3 Prevention of rope slack formation:
 - 7.3.1 When retracting the telescopic boom, the winch must be operated in the direction of lifting simultaneously, in order to prevent the hook block from descending to the ground and creating rope slack. The speed of the hoisting rope movement should be matched to that used for retraction!
 - 7.3.2 The rope guides on the winches must be supervised by a member of the workforce when additional equipment is being mounted!

8. Hoisting rope reeving

- 8.1 The hoisting rope must be reeved in between boom head and hook block in accordance with the maximum rope tension of the winch and the weight of the load to be lifted.
- 8.2 If several hoisting rope lines are reeved in, the efficiency of the hook block is reduced due to pulley friction and rope flexure.
In consequence, with a rope tension of e.g. 13900 lbs (63 kN), only 67200 lbs (306 kN) can be pulled with a 5-fold line reeving, instead of 69500 lbs (315 kN)
- 8.3 Consult the table "Hoisting rope reeving" in Chapter II of this manual for the maximum loads in dependence on the number of hoisting rope lines.
- 8.4 The number of hoisting rope lines reeved must be set on the control and display unit of the LICCON overload safety device according to the current hoisting rope reeving total.
- 8.5 If the block hook is operated with a higher reeve number than necessary for the respective boom length loads, then the block hook weight will not be sufficient and can slacken the cable when lowering, which can lead to damage to the cable.



9. Changing between material handling and installation operation

9.1 Load carrying capacity of the crane

The load carrying members of the crane have been designed according to the load criteria for installation /set up operations (load collective classification = "light" = Q1 or L1). Stress collective S1 according to DIN 15018 Part 3 and stress margin range N1 according to DIN 15018 Part 1 or ISO 4301, group A1.

If an installaton / set up crane is used material handling, the stress margin rangs increases. Therefore the loads must be reduced since a higher stress group now be applicable. This is especially true if the calculated loads are limited by strength values.

CAUTION: For crane value calculation, it has been assumed that the crane will be utilized as an installation crane (load collective classification = "light" = Q1 or L1). If the crane is also used in material handling application, premature wear of all drive sections must be expected, and cracks may occur in load carrying steel members. We therefore strongly recommend, that if the crane is utilized in material handling application, the load values are reduced by 50 %, as compared to the data given in the corresponding load carrying capacity chart.

For details, have material handling data ready and then contact your Liebherr Service Dept.

The size of the cables as well as drive sections of hoist gears are configured according to the load collectives applicable for installation operation (load collective classification = "light" = Q1 or L1):

ISO 4301/2 or 4308/2
Group A1
Hoist gears M3
Intake gears M2

If an installaton / set up crane is used material handling (load collective classification = "light" = Q1 or L1), the stress margin range increases, the rope runs must therefore be reduced. If this is not assured, then the hoist rope wear out rate will be reached much earlier, and / or the hoist gear must be rebuilt / serviced much earlier.

Please refer to the information regarding wear out criteria for ropes according to DIN 15020, part 2 or ISO 4309 in chapter 8.01 "Repeat crane inspections" in the crane's Operating Instructions.

NOTE: In order to keep wear out rate of hoist ropes as low as possible during material handling operation (load collective classification = "medium" or higher) , we recommend the use of a special length rope, so that during material handling operation the rope is rolled onto drum of the hoist winch in only one rope layer
If several layers are on the rope drum, the wear rate increases. In addition, the winch drive will run cooler; if the crane is operated with only one rope layer.



10. LICCON Overload safety device and Limit switch

If the permissible load moment is exceeded, the electronic LICCON overload safety device shuts down the hoisting, boom topping and boom extension movements. It is possible to decrease the load by means of movements in the opposite direction. The LICCON overload safety device must be checked for correct operation on each occasion before operating the crane.

- 10.1 The LICCON overload safety device must be set to the current equipment mode of the crane by means of function keys or by entering the corresponding 3-digit code .
- 10.2 The LICCON overload limit switch is a safety device and must not be used as a shutdown device for operating purposes. The crane operator must assure himself of the weight of a load before attempting to lift it. The fact that the crane is equipped with the LICCON overload safety device does not free the operator from responsibility with regard to operating safety.
- 10.3 The control and display unit of the LICCON overload safety device indicates among other things the working radius, boom length, pulley height, load and degree of crane load utilization. This provides the operator with a constant overview of the working range and crane utilization.
- 10.4 Hoisting limit switches at the head of the telescopic boom and folding fly jib prevent the hook block from running up against the boom head. The hoisting limit switches must be checked for correct operation on each occasion before the crane is operated.
- 10.5 Gear cam limit switches on the rope winches ensure that 3 safety turns remain on the rope drums. When the final rope layer is reached, a visual check is also necessary to ensure that the 3 safety turns are available. If the hoisting gears have been overturned in the lifting direction, or if the hoisting rope has been changed, then the corresponding limit switch must be reset before resuming operation.
- 10.6 The crane operator must check correct operation of the LICCON overload safety device on each occasion before operating the crane. The crane manufacturer will accept no liability for damage to the crane and consequential damage resulting from non-function or disactivation of the LICCON overload safety device.

11. Hook blocks and load hooks

Load		weight		Number of rope pulleys	strings
[t]	[lbs]	[t]	[lbs]		
80	176400	0.430	948	7	14
63	138915	0.330	728	5	10
40	88200	0.400	882	3	7
16	35280	0.235	518	1	3
6	13230	0.110	243	-	1



12. Load capacity reduction with folding jib mounted

- 12.1 The load capacity values stated for the telescopic boom in the load capacity tables apply to the boom without installation of a folding fly jib for transport or operating purposes.
- 12.2 When operating the crane, the folding jib is mounted at an angle from 0° to the telescopic jib, the possible load capacities of the telescopic jib are reduced according to the chart below. The weight of the hook block for TK operation of 530 lbs and 243 lbs respectively, must be considered.

Position of the folding jib	[ft]	T-35	T-47	T-58	T-69	T-80	T-92
Entire folding jib sideways on the jib pivoting section	[lbs]	1764	1323	1103	882	662	662
K- 34 ft on the jib head, the rest on the jib pivoting section	[lbs]	4190	6395	4631	4190	3749	3749
K- 62 ft on the jib head	[lbs]	5733	10143	7056	5733	5292	5292

Position of the folding jib	[ft]	T-103	T-114	T-125	T-136	T-148	T-157
Entire folding jib sideways on the jib pivoting section	[lbs]	662	441	441	441	441	441
K- 34 ft on the jib head, the rest on the jib pivoting section	[lbs]	3749	3528	3528	3528	3528	3308
K- 62 ft on the jib head	[lbs]	5292	4631	4631	4631	4631	4190



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12.3 When operating the crane, the folding jib is mounted at an angle from 20° to the telescopic jib, the possible load capacities of the telescopic jib are reduced according to the chart below. The weight of the hook block for TK operation of 530 lbs and 243 lbs respectively, must be considere.

Position of the folding jib	[ft]	T-35	T-47	T-58	T-69	T-80	T-92
K- 34 ft on the jib head, the rest on the jib pivoting section	[lbs]	4190	6395	5072	4410	4190	4190
K- 62 ft on the jib head	[lbs]	6395	10584	8600	7277	6615	6615

Position of the folding jib	[ft]	T-103	T-114	T-125	T-136	T-148	T-157
K- 34 ft on the jib head, the rest on the jib pivoting section	[lbs]	4190	3749	3749	3749	3749	3528
K- 62 ft on the jib head	[lbs]	6615	5733	5733	5733	5733	5072



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12.4 When operating the crane, the folding jib is mounted at an angle from **40°** to the telescopic jib, the possible load capacities of the telescopic jib are reduced according to the chart below. The weight of the hook block for TK operation of 530 lbs and 243 lbs respectively, must be considered.

Position of the folding jib	[ft]	T-35	T-47	T-58	T-69	T-80	T-92
K- 34 ft on the jib head, the rest on the jib pivoting section	[lbs]	4851	7718	6836	5733	5292	5292
K- 62 ft on the jib head	[lbs]	7718	13451	11907	9702	8600	8600

Position of the folding jib	[ft]	T-103	T-114	T-125	T-136	T-148	T-157
K- 34 ft on the jib head, the rest on the jib pivoting section	[lbs]	5292	4631	4631	4631	4631	3969
K- 62 ft on the jib head	[lbs]	8600	7056	7056	7056	7056	6174



13. Counterweight

The counterweight slabs are marked with their own weights.

DANGER: **The size of the attached counterweight must correspond to the specifications given in the load capacity table - otherwise, accidents may occur!**

nominal counterweight	
4.1 t	9000 lbs
6.6 t	14600 lbs
8.5 t	18700 lbs
12.8 t	28200 lbs
16.1 t	35500 lbs

Note: **The operating instructions for attaching and disattaching the counterweight must be strictly adhered to.**



14. Maximum turning speed of the crane’s superstructure with a nominal load

Boom [ft]	permissible slewing speed in percentage of the maximum slewing speed	permissible slewing speed in $\left[\frac{1}{\text{min}}\right]$
T-35	45	0.90
T-47	45	0.90
T-58	30	0.60
T-69	30	0.60
T-80	30	0.60
T-92	30	0.60
T-103	30	0.60
T-114	30	0.60
T-125	15	0.30
T-136	15	0.30
T-148	15	0.30
T-157	15	0.30
TK-operation	15	0.30
for 85 % lifting capacity tables *	15	0.30

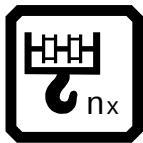
* 85% load capacity charts are marked in the upper left corner with “85%” on the corresponding page of the chart.

On 85% load capacity charts, nominal loads may only be moved with the lowest lifting or luffing speed.

DANGER: If the above is not observed, there is a high risk of serious ACCIDENTS

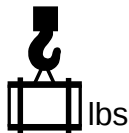


15. Explanation of symbols



Hoisting rope reeving

This symbol appears on the hoisting rope reeving table (1st table of chapter II) and indicates the required number of hoisting rope reevings to achieve a certain load capacity.



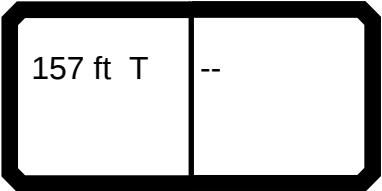
Load capacity in pounds [lbs]

This symbol appears on the hoisting rope reeving table (1st table of chapter II) and indicates the max. permissible load capacity depending on hoisting rope reeving.

Operating mode

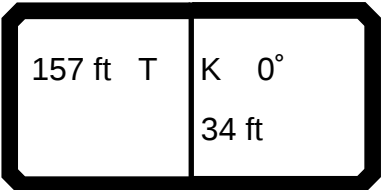
2part symbol
left side = Main boom mode
example:

- Length of the main boom ex. : 157 ft
- Main boom type ex.: T = Telescopic boom

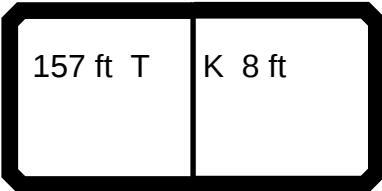


right side = Additional jib mode
example:

- Additional jib type ex.: K = folding fly jib
- Angle of the additional jib ex.: 0° = 0 deg. offset from main boom
- Additional jib length ex.: 34 ft

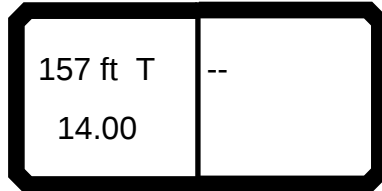


- Additional jib type ex.: K 8 ft = Optional jib type
- Additional jib length ex.: 8 ft



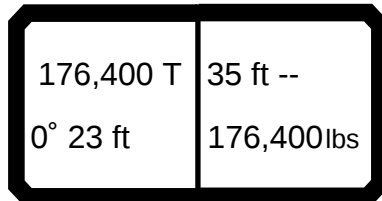
In some additional jib modes of operation, additional information is displayed in the left half of the symbol

- Indication of the tire dimensions ex.: 14.00 = 14.00 R 25



Operating types that can only be operated with accessories!

- Length of the main boom ex.: 35 ft
- Max. load capacity ex.: 176,400 lbs
- Working range ex.: 0° = working range over rear
- Support base ex.: 27 ft x 23 ft



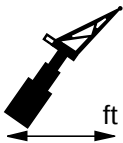


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Working radius of the telescopic boom

The working radius is the horizontal distance of the center of gravity of the load to the slewing axis of the crane superstructure as measured from the ground beneath the load.



Working radius of the additional jib

The working radius is the horizontal distance of the center of gravity of the load to the slewing axis of the crane superstructure as measured from the ground beneath the load.



ft> <lbs

Telescopic boom length /units of measurement

In the row beneath this symbol the different boom length of the crane are indicated in columns. The letters next to the symbol indicate the units of measurement in the actual load chart, par example “ ft> <lbs“ means that all lengths are given in feet [ft] and all weights are given in pounds [lbs].

CODE >001<

Short code

3-digit short code; can be directly entered into the LICCON overload safety device in order to call up the corresponding load chart.

* n *

Hoisting rope reeving

Appears in the load charts as a line below the load capacity values. Indicates the number of hoisting rope reevings required to hoist the maximum load in the corresponding load chart column. If a load capacity value in the column exceeds the load which can be lifted with the maximum reeving, then an exclamation mark (!) is next to the reeving number to signify that special equipment is required to lift this load.

- Loads over 116.870 lbs with auxiliary pulley
- Loads over 138.900 lbs with additional pulley block
- Loads over 156.560 lbs with additional device



Extension conditions of the telescopic boom sections

Indications i percent for the individual telescopic sections (Tele 1 / Tele 2 / Tele 3 / Tele 4 / Tele 5). Indication 0 = completely retracted, 100 = completely extended. Extension conditions other than those specified in the load charts are prohibited. A + symbol after a percentage entry means that the corresponding telescope parts are pinned down. The status indicator "-" next to the extension condition in percentages means that the corresponding telescopic section can be telescoped out under load to the extension condition value shown in percentages (according to the load capacity chart).

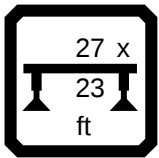


Counterweight

In this symbol, the size of the counterweight is indicated in pounds [lbs] which must be on the crane superstructure in order to achieve the values of the given load chart.



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Crane operations "Crane supported"

Indication of the support base (ex.: 27 ft x 23 ft = length x width). The hydraulic supports of the crane must be extended to the dimensions specified in this symbol and pinned when the corresponding load chart is being worked with.



Crane operations "Crane freestanding on tires"

- Indication of the tire dimensions ex.: 16.00 = 16.00-25
- Indication of required tire pressure ex.: 10 = 10 bar



Slewing range

Slewing range data of the crane superstructure for the corresponding load capacity table:

- 360° = unlimited slewing permissible
- ! 0° = working range to the rear
- 0° = working range to the rear

The appearance of ! 0° indicates that a load chart also exists for the 360° working range for the same equipment mode. If the slewing platform locking is not engaged, the LICCON automatically switches to the weaker load chart for the 360° working range. The displayed abbreviated code is different for the ! 0° working range and the 360° working range. If 0° appears, this means that there is no corresponding 360° load capacity table. In this case, if the slewing platform lock is not engaged, crane operation is not possible.



Permissible wind speed

Indication of wind speed in [ft/s] up to which crane operation is permissible depending on boom length. If the wind speed exceeds the indicated value, crane operations must be terminated, and if necessary, equipment must be removed from the crane.



16. Observation of wind conditions

16.1 Wind influence on the LICCON-overload safety device

When working in operation modes involving long boom systems and steeper boom positions in particular, the wind can either increase or ease additional duress on the crane system. The load will then be incorrectly displayed, and the LMB can shut down too early or too late.

16.1.1 Wind from the rear

With wind from the rear the boom system will be under increased duress. The load being displayed is too high. LMB-shutdown occurs with loads smaller than the max. load.

16.1.2 Wind from the front

With wind from the front the boom system will be eased of duress. The load being displayed is too low. LMB-shutdown will only occur with loads greater than the max. load.

DANGER: Wind from the front will not relieve duress from the hook, hoist cable, cable pulleys or the hoisting winch. These units can become overloaded through lifting to the point of LMB-shutdown with wind from the front!

The entire crane can become overloaded when wind from the front eases, if it has previously been loaded to the point of LMB-shutdown!

The operator must therefore be aware of the load weight and may not then exceed the max. load!

There is **SERIOUS RISK OF ACCIDENT** if these points are not observed!



16.2 Permissible wind speed and surface susceptibility to wind

- 16.2.1 Crane operation is permissible up to the wind velocity stated in the load capacity table corresponding to the current boom length.
- DANGER :** **The crane operator must consult the local meterological office for information on the expected wind velocity prior to commencing operations. If unacceptable wind velocities are forecast, it is not permissible to lift a load. Failure to observe this precaution may result in accidents!**
- 16.2.2 The wind surface A_w of the load must not exceed certain values. These values are stated in Diagram 1 (see next page).
If the wind surface of the load exceeds the diagram values, the wind velocity up to which crane operation is permissible is reduced correspondingly (note example below).
- DANGER :** **Even if the wind surface of the load is smaller than the reference surface, it is prohibited to operate the crane if wind velocity exceeds the limits stated in the load capacity tables! Failure to observe this rule will lead to risk of accidents!**

16.2.3 Example:

Weight of the load to be hoisted:
 $m = 50.0 \text{ t (110250 lbs)}$

Permissible wind speed according to load capacity table:
 $v = 9.0 \text{ m/s (29.5 ft/sec)}$

Actual load wind surface area:
 $A_{Wr} = 100.0 \text{ m}^2 \text{ (1076.5 sqft)}$

Permissible load wind surface area, diagram 1:
 $A_{Wz} = 55.0 \text{ m}^2 \text{ (592.1 sqft)}$

Diagram 2 yields for $v = 9 \text{ m/s (29.5 ft/sec)}$ an impact pressure of:
 $p = 50.0 \text{ N/m}^2 \text{ (4.645 N/sqft)}$

Accordingly, a force F acts upon a load with the permissible wind surface area
 $A_{Wz} = 55 \text{ m}^2 \text{ (592.1 sqft)}$:
 $F = \text{impact pressure } p \times \text{wind surface area } A_{Wz}$
 $F = 4.645 \text{ N/sqft} \times 592.1 \text{ sqft} = 2750 \text{ N}$

For the actual wind surface area $A_{Wr} = 1076.5 \text{ sqft}$, a permissible impact pressure p is yielded for the same force F :
 $p = F / A_{Wr} = 2750 \text{ N} / 1076.5 \text{ sqft} = 2.555 \text{ N/sqft}$

A maximum permissible wind speed of $v = 6.7 \text{ m/s (22.0 ft/sec)}$ is yielded for $p = 27.5 \text{ N/m}^2 \text{ (2.555 N/sqft)}$ from diagram 2.



Load handling chart book LTM 1080/1L

Diagramm 1

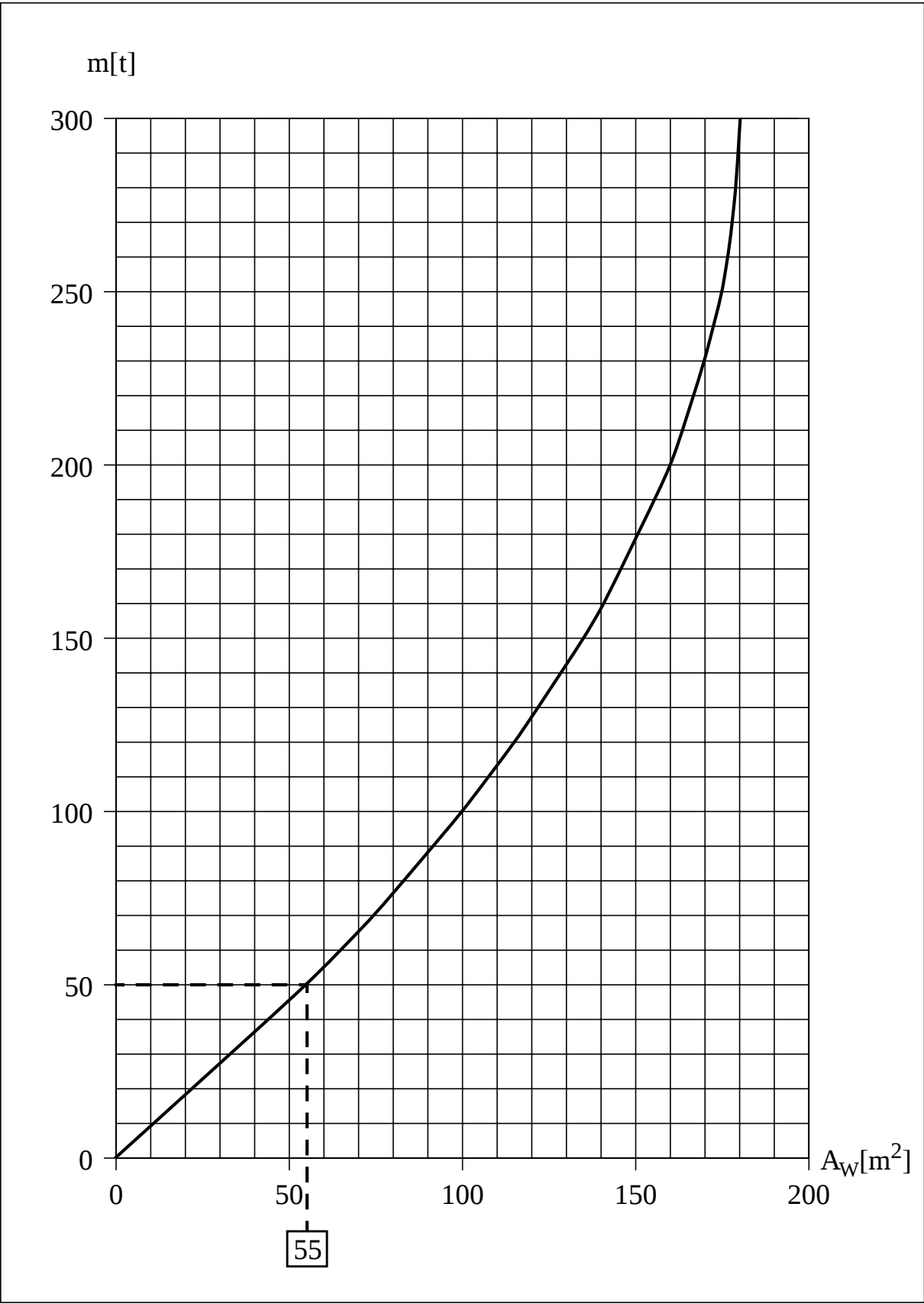
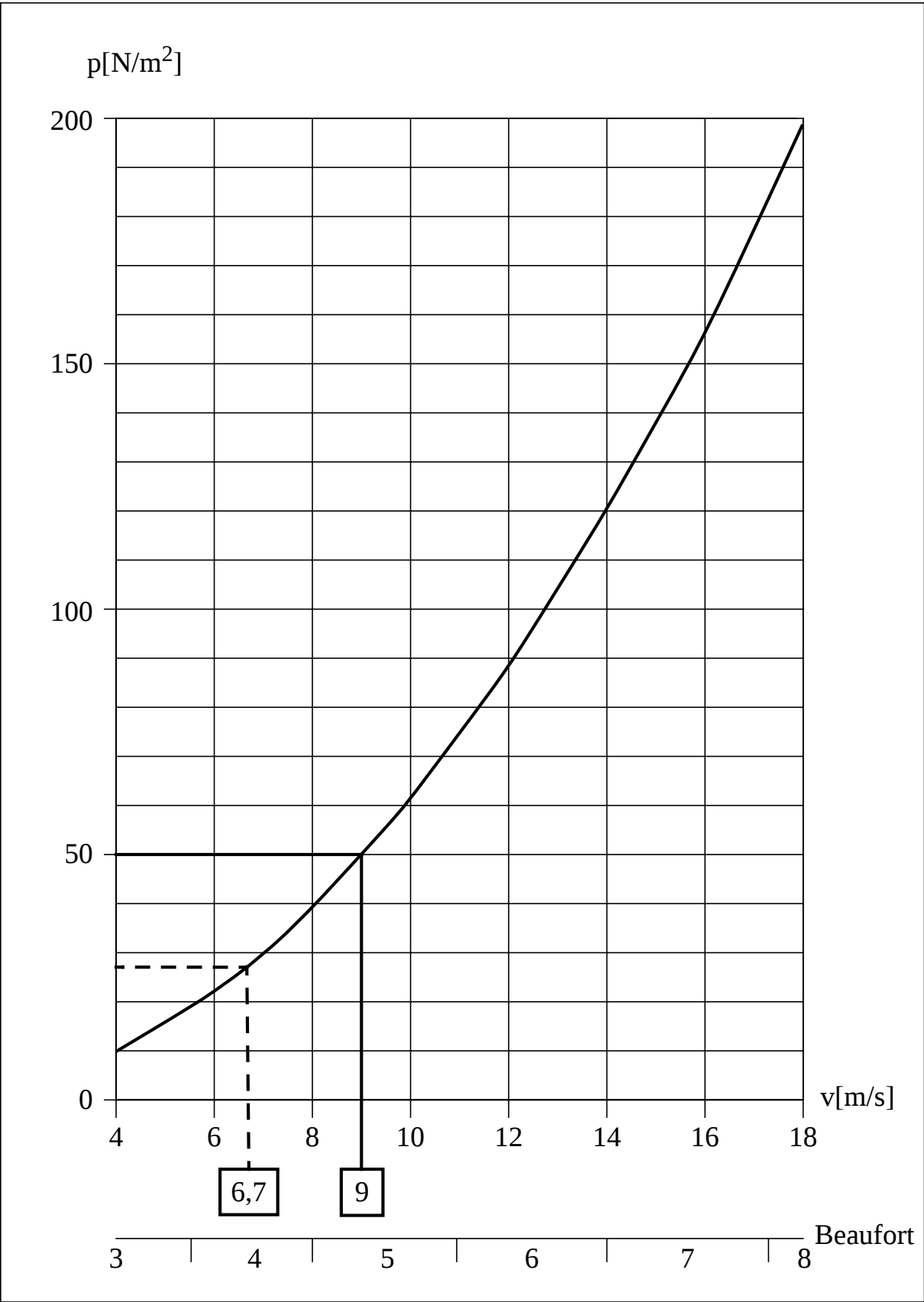
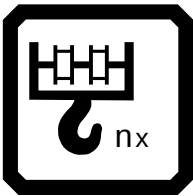


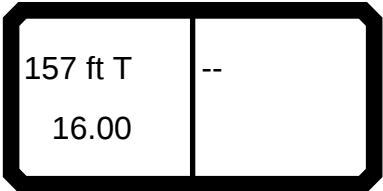


Diagramm 2

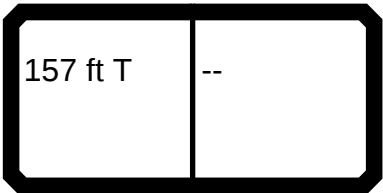




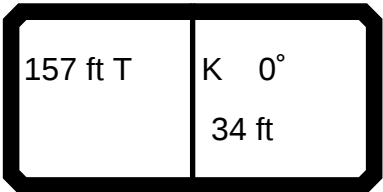
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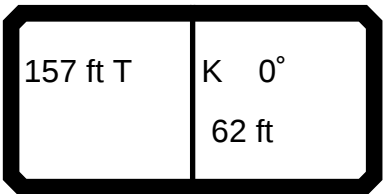
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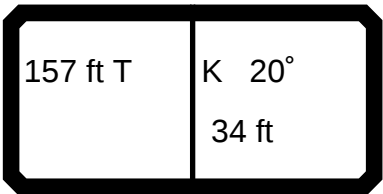
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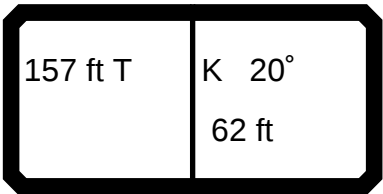
63



67



71



75



157 ft T	K 40° 34 ft
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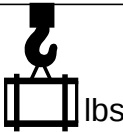
79

157 ft T	K 40° 62 ft
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83



	
1	13900
2	27500
3	41000
4	54200
5	67200
6	80200
7	92800
8	105400
9	116800
10	116800



157 ft T	--
16.00	

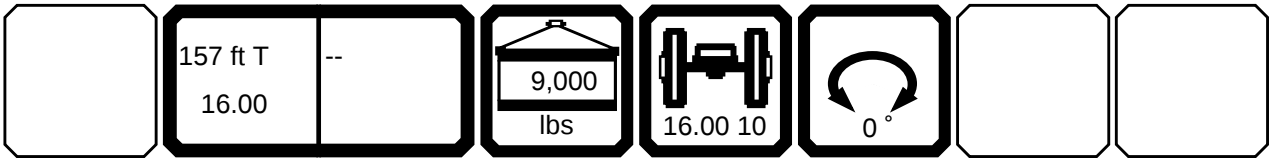
20.02

	157 ft T 16.00	--	0,000 lbs	16.00 10	0°		
--	-------------------	----	--------------	----------	----	--	--



157 ft T	--
16.00	

20.02

[illegible]



157 ft T 16.00	--
-------------------	----

20.02

	157 ft T 16.00	--	 13,700 lbs	 16.00 10	 0°		
--	-------------------	----	--	---	---	--	--



157 ft T 16.00	--
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20.02

	157 ft T 16.00	--	35,500 lbs	16.00 10	0°		
--	-------------------	----	---------------	----------	----	--	--



157 ft T	--
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20.01

Diagram showing a tower structure with a load of 0,000 lbs, a base of 27 x 16 ft, and a rotation of 360°.



157 ft T	--
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20.01

Diagram of a mobile cart with the following components labeled:

- 157 ft T
-
- 0,000 lbs
- 27 x 16 ft
- 360°



ISO DIN

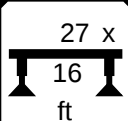
157 ft T	--
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061513

TAB 134013

20.01

 ft		 ft> < lbs		CODE >013<				L134 0500 .x(x)			
		115	125	125	138	138	148	157	46	59	69
10									34,800	31,100	
11									34,800	30,900	
12									34,700	30,800	21,800
13									34,700	30,600	21,500
14									34,700	30,500	21,100
15									34,700	30,400	20,800
16									34,700	30,300	20,500
17									34,000	29,600	20,200
18									32,900	28,600	19,900
20									30,200	26,200	19,400
22									25,900	22,400	18,900
24	20,100								22,200	19,100	17,300
26	18,100								19,200	16,300	14,800
28	16,400	12,800	15,100	12,600	14,200				16,800	14,200	12,800
30	14,900	11,300	13,700	11,200	12,800	11,500	11,000	14,700	12,200	10,900	
32	13,600	10,100	12,500	10,100	11,600	10,300	10,000	13,000	10,600	9,400	
34	12,400	9,100	11,400	9,100	10,600	9,400	9,100	11,500	9,200	8,100	
36	11,400	8,200	10,400	8,200	9,700	8,500	8,300	10,100	8,100	7,000	
38	10,500	7,300	9,500	7,300	8,800	7,700	7,400	8,700	6,900	5,900	
40	9,500	6,400	8,600	6,500	8,000	6,900	6,700		5,800		
45	7,700	4,700	6,900	4,900	6,400	5,300	5,100		3,900		
50	6,300		5,500	3,600	5,000	4,000	3,900				
55	5,100		4,300		3,900						
60	4,100		3,400								
65	3,200		2,500								
70											
75											
* n *	2	1	2	1	2	1	1	3	3	2	
 %	1	0+	92+	0+	92+	46+	92+	100+	0+	46-	92-
	2	46+	92+	92+	92+	92+	92+	100+	46-	46+	46+
	3	92+	92+	92+	92+	92+	92+	100+	0+	0+	0+
	4	92+	46+	92+	92+	92+	92+	100+	0+	0+	0+
	5	92+	46+	92+	46+	92+	92+	100+	0+	0+	0+
 ft/s	23	23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 0,000 lbs	 27 x 16 ft	 360°		
--	----------	----	---	---	---	--	--



157 ft T	--
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20.01

Diagram showing a tower structure with a load of 0,000 lbs, a base of 27 x 16 ft, and a rotation of 360°.



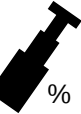
ISO DIN

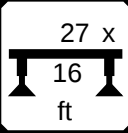
157 ft T	--
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061513

TAB 134013

20.01

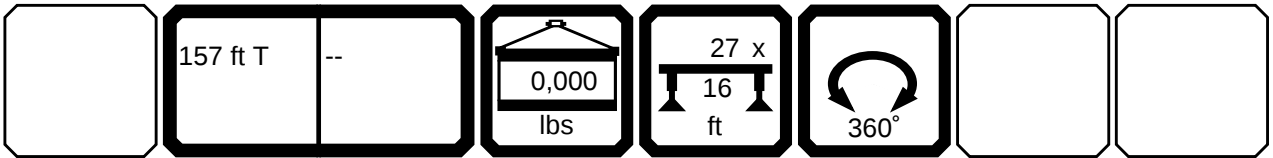
 ft	 ft > < lbs		CODE >013<				L134 0500 .x(x)			
	92	115	138	59	69	79	92	102	115	125
10				32,300						
11				31,900						
12				31,500	38,200					
13				31,100	37,900					
14				30,800	37,600					
15				30,400	37,400	26,600				
16				30,100	37,200	26,200				
17	22,200			29,800	36,200	25,500	31,900			
18	21,800			29,500	34,800	24,600	30,900			
20	21,200			28,800	31,800	23,100	28,800	20,700		
22	20,500			27,200	28,000	22,500	25,600	20,100		
24	19,800	17,500		25,000	24,800	21,700	22,800	19,500	20,100	
26	19,100	16,700		22,000	22,000	20,900	20,500	18,900	18,100	
28	17,400	15,200	12,600	19,700	19,900	19,000	18,600	17,300	16,400	15,100
30	15,600	13,700	11,200	17,600	17,900	17,200	16,800	15,700	14,900	13,700
32	14,200	12,400	10,100	15,900	16,200	15,600	15,300	14,300	13,600	12,500
34	12,900	11,300	9,100	14,400	14,800	14,300	14,100	13,200	12,400	11,400
36	11,800	10,300	8,200	13,100	13,600	13,100	13,000	12,100	11,400	10,400
38	10,800	9,300	7,300	11,800	12,400	12,000	11,900	11,100	10,500	9,500
40	9,800	8,400	6,500	10,600	11,300	10,900	10,800	10,100	9,500	8,600
45	7,800	6,600	4,900	8,300	9,100	8,900	8,900	8,200	7,700	6,900
50	6,300	5,200	3,600		7,400	7,300	7,300	6,700	6,300	5,500
55	5,000	4,000			6,000	5,900	6,000	5,500	5,100	4,300
60	3,900					4,800	5,000	4,400	4,100	3,400
65	3,100					3,800	4,100	3,500	3,200	2,500
70						3,100	3,300	2,800		
75							2,600			
* n *	2	2	1	3	3	2	3	2	2	2
1	0+	0+	92-	0+	0+	0+	0+	0+	0+	0+
2	0+	92-	92+	0+	0+	0+	0+	0+	46-	92-
3	92-	92+	92+	0+	0+	0+	46-	92-	92+	92+
4	92+	92+	92+	0+	46-	92-	92+	92+	92+	92+
5	46+	46+	46+	92-	92+	92+	92+	92+	92+	92+
 ft/s	23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 0,000 lbs	 27 x 16 ft	 360°		
--	----------	----	---	---	---	--	--



157 ft T	--
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061513	TAB 134013	20.01
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[illegible]



ISO DIN

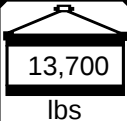
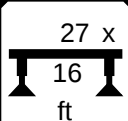
157 ft T	--
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061513

TAB 134011

20.01

 ft		 ft > < lbs		CODE >011<			L134 0600 .x(x)				
		36	46	46	59	59	59	69	69	69	79
10		116,000	116,000	82,500	113,000	67,500	58,700				
11		109,000	109,000	79,500	98,000	64,000	56,300				
12		102,000	99,000	76,000	86,000	61,500	54,100	76,500	50,700	50,700	
13		96,000	87,000	72,500	76,000	58,500	51,900	68,000	48,800	48,800	
14		87,500	78,000	70,000	68,500	55,800	49,900	62,000	46,900	47,000	
15		79,000	70,000	67,000	62,000	53,200	47,800	56,000	45,100	45,200	52,100
16		71,000	63,500	64,500	56,300	50,700	45,900	51,300	43,400	43,500	47,900
17		65,000	58,300	61,000	51,800	48,600	44,300	47,300	41,700	41,800	44,400
18		59,900	53,900	56,800	47,900	46,900	42,800	43,800	40,100	40,200	41,300
20		50,200	45,400	48,800	40,500	43,400	40,000	37,300	37,000	37,000	35,300
22		43,200	39,600	42,700	35,300	39,800	37,700	32,500	34,800	34,800	31,000
24		37,100	34,600	37,600	30,800	36,000	35,200	28,400	32,700	32,700	27,200
26		31,700	30,400	33,400	27,000	32,000	32,500	25,000	30,900	30,800	24,000
28			27,200	29,700	24,000	28,900	29,600	22,200	28,300	28,800	21,400
30			24,200	26,400	21,300	26,100	26,800	19,700	25,800	26,700	19,000
32			21,400	23,600	19,100	23,800	24,400	17,600	23,600	24,500	17,100
34			19,200	21,300	17,300	21,800	22,400	15,900	21,700	22,600	15,400
36			17,400	19,400	15,700	19,900	20,400	14,300	20,100	21,000	13,900
38			15,500	17,500	14,100	18,000	18,500	12,800	18,500	19,300	12,500
40					12,600	16,400	16,800	11,400	17,000	17,800	11,200
45					9,600	13,200	13,700	8,800	13,900	14,600	8,600
50								6,700	11,600	12,200	6,600
55								5,000	9,600	10,300	4,900
60											
65											
70											
75											
80											
85											
90											
95											
100											

	157 ft T	--	 13,700 lbs	 27 x 16 ft	 360°		
--	----------	----	--	---	---	--	--



157 ft T	--
----------	----

20.01

Diagram of a mobile cart with the following components labeled:

- 157 ft T
-
- 13,700 lbs
- 27 x 16 ft
- 360°



ISO DIN

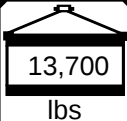
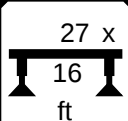
157 ft T	--
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061513

TAB 134011

20.01

 ft		 ft > < lbs		CODE >011<				L134 0600 .x(x)			
		115	125	125	138	138	148	157	46	59	69
10									34,800	31,100	
11									34,800	30,900	
12									34,700	30,800	21,800
13									34,700	30,600	21,500
14									34,700	30,500	21,100
15									34,700	30,400	20,800
16									34,700	30,300	20,500
17									34,700	30,200	20,200
18									34,700	30,100	19,900
20									34,700	30,000	19,400
22									34,700	29,900	18,900
24	28,400								33,200	28,800	18,400
26	26,800								30,300	26,800	17,900
28	24,700	20,700	23,100	20,300	21,900				27,200	24,000	17,500
30	22,600	18,800	21,200	18,500	20,100	18,500	18,000	24,200	21,300	17,200	
32	20,800	17,200	19,500	16,900	18,500	17,000	16,500	21,400	19,100	16,800	
34	19,300	15,800	18,100	15,600	17,200	15,800	15,300	19,200	17,300	15,800	
36	18,000	14,600	16,800	14,400	16,000	14,600	14,200	17,400	15,700	14,300	
38	16,700	13,300	15,500	13,200	14,700	13,500	13,100	15,500	14,100	12,800	
40	15,400	12,200	14,400	12,100	13,600	12,400	12,100		12,600	11,400	
45	13,000	9,900	12,100	9,900	11,400	10,300	10,000		9,600	8,800	
50	11,100	8,100	10,200	8,200	9,600	8,600	8,400			6,700	
55	9,500	6,500	8,600	6,700	8,100	7,100	6,900			5,000	
60	8,100	5,200	7,300	5,400	6,800	5,900	5,700				
65	6,900	4,100	6,200	4,300	5,700	4,800	4,700				
70	6,000	3,200	5,300	3,400	4,800	3,900	3,800				
75	5,100		4,400	2,700	4,000	3,100	3,000				
80	4,400		3,700		3,300						
85	3,700		3,100		2,600						
90	3,100		2,500		2,100						
95	2,600		2,000								
100	2,100										
* n *	3	2	2	2	2	2	2	3	3	2	
 %	1	0+	92+	0+	92+	46+	92+	100+	0+	46-	92-
	2	46+	92+	92+	92+	92+	92+	100+	46-	46+	46+
	3	92+	92+	92+	92+	92+	92+	100+	0+	0+	0+
	4	92+	46+	92+	92+	92+	92+	100+	0+	0+	0+
	5	92+	46+	92+	46+	92+	92+	100+	0+	0+	0+
 ft/s	23	23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 13,700 lbs	 27 x 16 ft	 360°		
--	----------	----	--	---	---	--	--



157 ft T	--
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20.01

Diagram of a mobile cart with the following components labeled:

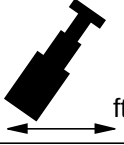
- 157 ft T
-
- 13,700 lbs
- 27 x 16 ft
- 360°

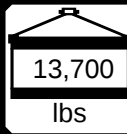
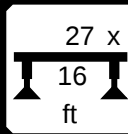


ISO DIN

157 ft T	--
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061513 TAB 134011 20.01

 ft	 ft > < lbs		CODE >011<				L134 0600 .x(x)			
	92	115	138	59	69	79	92	102	115	125
10				32,300						
11				31,900						
12				31,500	38,200					
13				31,100	37,900					
14				30,800	37,600					
15				30,400	37,400	26,600				
16				30,100	37,200	26,200				
17	22,200			29,800	36,600	25,500	32,300			
18	21,800			29,500	35,900	24,600	32,000			
20	21,200			29,000	34,500	23,100	31,500	20,700		
22	20,500			28,500	34,000	22,500	30,700	20,100		
24	19,900	17,600		28,000	32,700	21,900	29,400	19,500	27,700	
26	19,300	17,100		27,600	30,800	21,300	27,800	18,900	26,700	
28	18,800	16,500	14,300	27,200	28,800	20,800	26,400	18,300	24,700	16,300
30	18,300	16,000	13,800	26,500	26,700	20,300	25,000	17,800	22,600	15,700
32	17,900	15,500	13,300	24,400	24,500	19,900	23,000	17,300	20,800	15,200
34	17,400	15,000	12,500	22,400	22,600	19,300	21,300	16,900	19,300	14,800
36	17,000	14,600	11,600	20,400	21,000	18,700	19,900	16,400	18,000	14,300
38	16,600	14,100	10,800	18,500	19,300	18,100	18,400	16,000	16,700	13,900
40	15,900	13,600	10,100	16,800	17,800	17,300	17,000	15,500	15,400	13,300
45	13,300	11,800	9,300	13,700	14,600	14,600	14,400	13,500	13,000	11,300
50	11,200	10,000	8,000		12,200	12,200	12,300	11,600	11,100	9,900
55	9,400	8,400	6,700		10,300	10,300	10,400	9,900	9,500	8,600
60	7,900	7,000	5,400			8,600	8,700	8,500	8,100	7,300
65	6,700	5,900	4,300			7,400	7,500	7,300	6,900	6,200
70	5,700	4,900	3,400			6,300	6,500	6,300	6,000	5,300
75	4,800	4,100	2,700				5,700	5,400	5,100	4,400
80		3,300						4,600	4,400	3,700
85		2,700						3,800	3,700	3,100
90		2,200						3,200	3,100	2,500
95									2,600	2,000
100									2,100	
* n *	2	2	2	3	3	2	3	2	3	2
1	0+	0+	92-	0+	0+	0+	0+	0+	0+	0+
2	0+	92-	92+	0+	0+	0+	0+	0+	46-	92-
3	92-	92+	92+	0+	0+	0+	46-	92-	92+	92+
4	92+	92+	92+	0+	46-	92-	92+	92+	92+	92+
5	46+	46+	46+	92-	92+	92+	92+	92+	92+	92+
 %										
 ft/s	23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 13,700 lbs	 27 x 16 ft	 360°		
--	----------	----	--	--	--	--	--



ISO DIN

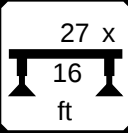
157 ft T	--
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061513

TAB 134011

20.01

 ft	 ft > < lbs			CODE >011<			L134 0600 .x(x)			
	138	148	157							
10										
11										
12										
13										
14										
15										
16										
17										
18										
20										
22										
24										
26										
28	21,600									
30	20,100	13,800	9,500							
32	18,500	13,300	9,100							
34	17,200	12,600	8,700							
36	16,000	11,700	8,400							
38	14,700	10,800	8,000							
40	13,600	10,100	7,700							
45	11,400	9,400	6,900							
50	9,600	8,300	6,200							
55	8,100	7,100	5,600							
60	6,800	5,900	5,100							
65	5,700	4,800	4,600							
70	4,800	3,900	3,800							
75	4,000	3,100	3,000							
80	3,300									
85	2,600									
90	2,100									
95										
100										
* n *	2	1	1							
 %	1	46-	92-	100-						
	2	92+	92+	100-						
	3	92+	92+	100-						
	4	92+	92+	100-						
	5	92+	92+	100-						
 ft/s		23	23	23						

	157 ft T	--	 13,700 lbs	 27 x 16 ft	 360°		
--	----------	----	--	---	---	--	--



ISO DIN

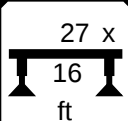
157 ft T	--
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061513

TAB 134008

20.01

 ft		 ft > < lbs		CODE >008<			L134 0900 .x(x)				
		36	46	46	59	59	59	69	69	69	79
10		120,000	120,000	82,500	119,000	67,500	58,700				
11		112,000	112,000	79,500	111,000	64,000	56,300				
12		106,000	105,000	76,000	105,000	61,500	54,100	99,500	50,700	50,700	
13		99,500	99,000	72,500	98,500	58,500	51,900	97,000	48,800	48,800	
14		94,000	94,000	70,000	93,000	55,800	49,900	91,000	46,900	47,000	
15		89,000	89,000	67,000	88,000	53,200	47,800	84,500	45,100	45,200	76,000
16		84,500	84,500	64,500	83,500	50,700	45,900	78,000	43,400	43,500	72,000
17		80,500	80,500	62,500	78,500	48,600	44,300	72,500	41,700	41,800	68,000
18		77,000	76,500	60,000	73,000	46,900	42,800	67,500	40,100	40,200	63,500
20		70,000	69,000	56,100	62,500	43,500	40,000	58,100	37,000	37,000	55,100
22		63,000	60,500	52,500	55,100	40,700	37,700	51,400	34,800	34,800	48,900
24		55,700	53,600	49,200	48,800	38,000	35,500	45,600	32,700	32,700	43,600
26		48,100	47,700	46,000	43,400	35,600	33,500	40,700	30,900	30,800	39,100
28			42,400	43,000	39,200	33,300	31,600	36,800	29,200	29,100	35,400
30			37,500	39,800	35,400	31,200	29,900	33,200	27,700	27,500	32,100
32			33,700	35,800	32,300	29,200	28,200	30,300	26,200	26,000	29,300
34			30,600	32,700	29,500	27,600	26,900	27,800	24,800	24,600	26,900
36			28,000	30,000	26,900	26,400	25,800	25,600	23,500	23,200	24,900
38			25,400	27,400	24,400	25,100	24,800	23,500	22,200	21,900	22,800
40					22,100	23,900	23,800	21,500	21,100	20,700	20,900
45					17,900	20,900	21,300	17,600	19,200	18,700	17,300
50								14,400	17,400	17,000	14,400
55								11,700	15,600	15,300	12,000
60											9,800
65											8,000
70											6,500
75											
80											
85											
90											
95											
100											
105											
110											
115											
120											
* n *		10!	10!	7	10!	6	5	8	4	4	6
1		0+	0+	0+	46+	0+	0+	92+	0+	0+	92+
2		0+	46+	0+	46+	0+	0+	46+	0+	0+	92+
3		0+	0+	0+	0+	0+	0+	0+	0+	0+	0+
4		0+	0+	0+	0+	46+	0+	0+	92+	46+	0+
5		0+	0+	46+	0+	46+	92+	0+	46+	92+	0+
 %											
 ft/s		23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 35,500 lbs	 27 x 16 ft	 360°		
--	----------	----	--	---	---	--	--



157 ft T	--
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20.01

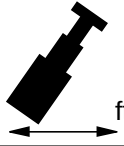
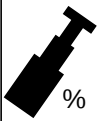
Diagram illustrating the tower structure and load capacity. The tower is labeled "157 ft T". The load capacity is indicated as "35,500 lbs". The base dimensions are "27 x 16 ft". The rotation is indicated as "360°".

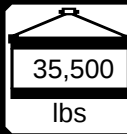
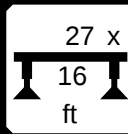


ISO DIN

157 ft T	--
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061513 TAB 134008 20.01

 ft	 ft > < lbs		CODE >008<					L134 0900 .x(x)			
	115	125	125	138	138	148	157	46	59	69	
10								34,800	31,100		
11								34,800	30,900		
12								34,700	30,800	21,800	
13								34,700	30,600	21,500	
14								34,700	30,500	21,100	
15								34,700	30,400	20,800	
16								34,700	30,300	20,500	
17								34,700	30,200	20,200	
18								34,700	30,100	19,900	
20								34,700	30,000	19,400	
22								34,700	29,900	18,900	
24	28,800							34,700	29,900	18,400	
26	27,800							34,700	29,900	17,900	
28	26,800	31,900	25,600	27,600	24,600			34,700	29,900	17,500	
30	25,800	30,300	24,800	26,900	24,100	23,600	19,000	34,400	29,900	17,200	
32	24,800	28,100	23,900	26,300	23,600	23,200	18,600	32,800	29,900	16,800	
34	23,900	26,100	23,200	25,100	23,000	22,700	18,200	30,600	28,500	16,500	
36	23,000	24,400	22,400	23,600	22,500	22,100	17,700	28,000	26,300	16,200	
38	22,100	22,600	21,700	22,200	21,900	21,500	17,300	25,400	24,200	16,000	
40	21,300	21,000	20,900	20,800	21,200	20,700	16,900		22,100	15,700	
45	19,500	17,800	19,000	17,700	19,000	17,900	15,900		17,900	15,300	
50	17,800	15,300	17,100	15,200	16,700	15,500	14,700			13,700	
55	16,100	13,100	15,200	13,100	14,600	13,500	13,200			11,700	
60	14,200	11,300	13,400	11,400	12,800	11,700	11,500				
65	12,600	9,800	11,800	9,900	11,300	10,300	10,100				
70	11,100	8,500	10,400	8,600	10,000	9,000	8,900				
75	9,800	7,300	9,200	7,500	8,800	7,900	7,800				
80	8,700	6,300	8,100	6,500	7,800	7,000	6,800				
85	7,700	5,500	7,200	5,600	6,900	6,100	6,000				
90	6,900	4,700	6,400	4,900	6,100	5,400	5,200				
95	6,200	3,900	5,700	4,200	5,400	4,700	4,500				
100	5,500	3,300	5,000	3,600	4,800	4,000	3,900				
105		2,600	4,400	3,000	4,100	3,500	3,400				
110		2,100	3,900	2,500	3,600	3,000	2,900				
115				2,000	3,100	2,500	2,400				
120					2,600						
* n *	3	3	2	3	2	2	2	3	3	2	
 %	1	0+	92+	0+	92+	46+	92+	100+	0+	46-	92-
	2	46+	92+	92+	92+	92+	92+	100+	46-	46+	46+
	3	92+	92+	92+	92+	92+	92+	100+	0+	0+	0+
	4	92+	46+	92+	92+	92+	92+	100+	0+	0+	0+
	5	92+	46+	92+	46+	92+	92+	100+	0+	0+	0+
 ft/s	23	23	23	23	23	23	23	23	23	23	

	157 ft T	--	 35,500 lbs	 27 x 16 ft	 360°		
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ISO DIN

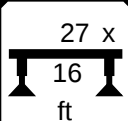
157 ft T	--
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061513

TAB 134008

20.01

 ft		 ft > < lbs		CODE >008<			L134 0900 .x(x)				
		79	92	102	115	46	59	79	102	125	69
10						42,400	39,500				
11						42,400	39,300				
12						42,300	39,100				28,900
13						42,300	38,900				28,500
14						42,300	38,800				28,100
15	19,900					42,300	38,600	25,100			27,700
16	19,500					42,300	38,500	23,700			27,300
17	19,200	18,600				42,300	38,400	22,900			26,900
18	18,800	18,300				42,300	38,200	22,500			26,600
20	18,200	17,600	17,300			42,300	38,000	21,900	19,200		25,900
22	17,600	17,000	16,600			42,300	37,900	21,300	18,600		25,300
24	17,100	16,400	16,000	15,700		42,300	37,000	20,700	18,000		24,200
26	16,600	15,800	15,400	15,100		42,300	35,500	20,200	17,400		22,700
28	16,100	15,300	14,900	14,500		41,400	33,300	19,700	16,900	14,500	22,100
30	15,600	14,800	14,400	14,000		39,800	31,200	19,300	16,300	14,000	21,700
32	15,200	14,300	13,900	13,500		35,800	29,200	18,800	15,900	13,500	21,300
34	14,800	13,900	13,200	12,800		32,700	27,600	18,400	15,400	12,700	21,000
36	14,400	13,500	12,300	11,900		30,000	26,400	18,100	15,000	11,800	20,700
38	14,100	13,100	11,300	11,000		27,400	25,100	17,700	14,600	10,900	20,400
40	13,700	12,600	10,600	10,300			23,900	17,300	14,200	10,200	20,000
45	13,000	10,600	9,900	9,500			20,900	16,600	13,300	9,500	19,000
50	11,400	9,700	9,300	8,900				16,000	11,600	8,800	17,400
55	10,400	9,200	8,700	8,300				15,000	10,400	8,200	15,600
60	9,800	8,800	8,300	7,700				13,500	9,900	7,700	
65	8,000	8,400	7,800	7,300				11,800	9,500	7,200	
70	6,500	7,100	7,400	6,900				10,300	9,100	6,800	
75		5,800	6,600	6,400					8,400	6,400	
80			5,400	5,700					7,400	6,000	
85			4,500	4,800					6,400	5,400	
90			3,700	4,000					5,600	4,700	
95				3,200						3,900	
100				2,600						3,300	
105										2,600	
110										2,100	
115											
120											
* n *	2	2	2	2	4	3	2	2	2	2	3
 %	1	92-	92-	92-	92-	0+	0+	0+	0+	92-	0+
	2	92-	92-	92-	92-	0+	0+	0+	92-	92+	0+
	3	0+	46-	46-	92-	0+	0+	92-	92+	92+	0+
	4	0+	0+	46-	46-	0+	46-	46+	46+	46+	92-
	5	0+	0+	0+	0+	46-	46+	46+	46+	46+	46+
 ft/s	23	23	23	23	23	23	23	23	23	23	23

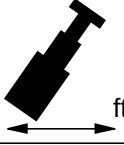
	157 ft T	--	 35,500 lbs	 27 x 16 ft	 360°		
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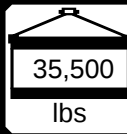
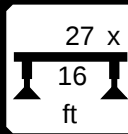


ISO DIN

157 ft T	--
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061513 TAB 134008 20.01

 ft	 ft > < lbs		CODE >008<				L134 0900 .x(x)			
	92	115	138	59	69	79	92	102	115	125
10				32,300						
11				31,900						
12				31,500	38,200					
13				31,100	37,900					
14				30,800	37,600					
15				30,400	37,400	26,600				
16				30,100	37,200	26,200				
17	22,200			29,800	36,600	25,500	32,300			
18	21,800			29,500	35,900	24,600	32,000			
20	21,200			29,000	34,500	23,100	31,500	20,700		
22	20,500			28,500	34,000	22,500	30,700	20,100		
24	19,900	17,600		28,000	32,700	21,900	29,400	19,500	27,900	
26	19,300	17,100		27,600	30,800	21,300	27,800	18,900	27,400	
28	18,800	16,500	14,300	27,200	29,100	20,800	26,500	18,300	26,700	16,300
30	18,300	16,000	13,800	26,900	27,500	20,300	25,200	17,800	25,800	15,700
32	17,900	15,500	13,300	26,600	26,000	19,900	24,100	17,300	24,800	15,200
34	17,400	15,000	12,500	26,100	24,600	19,500	23,100	16,900	23,900	14,800
36	17,000	14,600	11,600	25,300	23,200	19,100	22,200	16,400	23,000	14,300
38	16,600	14,100	10,800	24,600	21,900	18,700	21,200	16,000	22,100	13,900
40	16,200	13,700	10,100	23,800	20,700	18,200	20,300	15,600	21,300	13,300
45	15,300	12,800	9,300	21,300	18,700	16,200	18,300	14,700	19,500	11,300
50	14,600	11,200	8,600		17,000	14,500	16,500	13,900	17,800	10,400
55	14,000	10,000	8,000		15,300	13,200	15,100	13,200	16,100	9,800
60	13,300	9,500	7,500			12,100	14,000	12,400	14,200	9,200
65	12,100	9,000	7,000			11,200	12,900	10,900	12,600	8,700
70	10,700	8,600	6,500			10,200	11,500	10,400	11,100	8,300
75	9,400	8,200	6,100				10,200	9,700	9,800	7,900
80		7,700	5,700					8,900	8,700	7,500
85		6,800	5,400					7,900	7,700	7,200
90		6,000	4,800					7,000	6,900	6,400
95		5,200	4,200						6,200	5,700
100		4,600	3,600						5,500	5,000
105			3,000							4,400
110			2,500							3,900
115			2,000							
120										
* n *	2	2	2	3	3	2	3	2	3	2
1	0+	0+	92-	0+	0+	0+	0+	0+	0+	0+
2	0+	92-	92+	0+	0+	0+	0+	0+	46-	92-
3	92-	92+	92+	0+	0+	0+	46-	92-	92+	92+
4	92+	92+	92+	0+	46-	92-	92+	92+	92+	92+
5	46+	46+	46+	92-	92+	92+	92+	92+	92+	92+
 %										
 ft/s	23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 35,500 lbs	 27 x 16 ft	 360°		
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ISO DIN

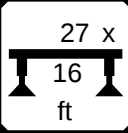
157 ft T	--
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061513

TAB 134008

20.01

 ft	 ft > < lbs			CODE >008<		L134 0900 .x(x)				
	138	148	157							
10										
11										
12										
13										
14										
15										
16										
17										
18										
20										
22										
24										
26										
28	22,400									
30	22,100	13,800	9,500							
32	21,700	13,300	9,100							
34	21,300	12,600	8,700							
36	21,000	11,700	8,400							
38	20,700	10,800	8,000							
40	20,300	10,100	7,700							
45	18,900	9,400	6,900							
50	16,700	8,700	6,200							
55	14,600	8,100	5,600							
60	12,800	7,500	5,100							
65	11,300	7,000	4,600							
70	10,000	6,600	4,200							
75	8,800	6,100	3,800							
80	7,800	5,800	3,400							
85	6,900	5,400	3,000							
90	6,100	5,100	2,800							
95	5,400	4,600	2,500							
100	4,800	4,000	2,200							
105	4,100	3,500	2,000							
110	3,600	3,000	1,800							
115	3,100	2,500								
120	2,600									
* n *	2	1	1							
 %	1	46-	92-	100-						
	2	92+	92+	100-						
	3	92+	92+	100-						
	4	92+	92+	100-						
	5	92+	92+	100-						
 ft/s		23	23	23						

	157 ft T	--	 35,500 lbs	 27 x 16 ft	 360°		
--	----------	----	--	---	---	--	--



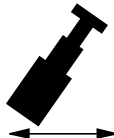
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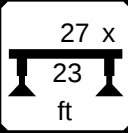
157 ft T	--
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061513

TAB 134062

20.01

 ft		 ft > < lbs		CODE >007<			L134 1000 .x(x)				
		36	46	46	59	59	59	69	69	69	79
	10	147,000	146,000	90,500	137,000	74,000	64,500				
	11	138,000	138,000	87,000	131,000	70,500	62,000				
	12	130,000	130,000	83,500	126,000	67,500	59,500	110,000	55,800	55,800	
	13	122,000	122,000	80,000	121,000	64,500	57,100	107,000	53,600	53,700	
	14	116,000	115,000	76,500	109,000	61,500	54,800	96,500	51,600	51,700	
	15	109,000	108,000	73,500	96,000	58,500	52,600	85,500	49,600	49,700	78,000
	16	102,000	96,500	71,000	84,500	55,800	50,500	76,000	47,700	47,800	70,000
	17	94,000	86,500	68,500	76,000	53,500	48,700	68,500	45,900	46,000	63,500
	18	85,500	78,500	66,000	69,000	51,600	47,100	62,500	44,100	44,200	58,100
	20	70,000	62,500	61,500	55,600	47,900	44,000	50,900	40,700	40,800	48,000
	22	58,900	53,000	55,100	47,200	44,800	41,500	43,400	38,200	38,300	41,200
	24	50,100	45,100	48,800	40,200	41,800	39,100	37,100	36,000	36,000	35,400
	26	43,400	38,800	42,300	34,600	39,100	36,800	32,000	34,000	33,900	30,700
	28		34,200	37,600	30,400	35,600	34,800	28,200	32,200	32,000	27,100
	30		30,100	33,400	26,600	32,200	32,600	24,700	30,300	30,200	23,900
	32		26,900	30,100	23,700	29,000	29,600	21,900	28,300	28,600	21,300
	34		24,300	27,300	21,200	26,400	27,100	19,600	26,200	26,700	19,100
	36		22,000	24,800	19,200	24,300	24,900	17,700	24,100	24,800	17,200
	38		19,700	22,400	17,100	22,100	22,700	15,700	22,000	22,800	15,300
	40				15,200	20,100	20,700	13,900	20,100	21,100	13,700
	45				11,700	16,100	16,600	10,700	16,600	17,500	10,500
	50							8,200	13,700	14,600	8,100
	55							6,200	11,300	12,200	6,100
	60										4,500
	65										3,200
	70										
	75										
	80										
	85										
	90										
	95										
	100										
	* n *	10!	10!	7	10!	6	5	9	5	5	6
 %	1	0+	0+	0+	46+	0+	0+	92+	0+	0+	92+
	2	0+	46+	0+	46+	0+	0+	46+	0+	0+	92+
	3	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+
	4	0+	0+	0+	0+	46+	0+	0+	92+	46+	0+
	5	0+	0+	46+	0+	46+	92+	0+	46+	92+	0+
 ft/s		23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 0,000 lbs	 27 x 23 ft	 360°		
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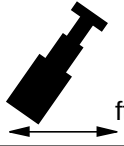
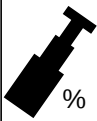
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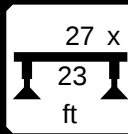
157 ft T	--
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061513

TAB 134062

20.01

 ft		 ft> < lbs		CODE >007<			L134 1000 .x(x)				
		79	79	92	92	92	102	102	102	115	115
10											
11											
12											
13											
14											
15	57,700	41,800									
16	55,800	40,300									
17	54,000	39,000	59,900	45,300	39,400						
18	52,200	37,700	55,100	44,100	38,300						
20	48,800	35,100	46,000	41,700	36,100	44,500	45,000	35,200			
22	45,700	32,800	39,800	39,300	34,200	38,800	41,200	33,700			
24	41,800	30,600	34,500	37,000	32,300	33,900	37,200	32,200	32,800	34,700	
26	37,100	28,500	30,100	34,800	30,500	29,800	33,000	30,700	29,000	32,100	
28	33,300	27,000	26,700	32,100	29,100	26,600	29,700	29,300	25,900	29,200	
30	29,800	25,600	23,700	29,300	27,800	23,700	26,700	27,900	23,200	26,300	
32	27,000	24,400	21,200	26,600	26,500	21,300	24,300	26,200	20,900	24,000	
34	24,700	23,200	19,100	24,400	25,000	19,300	22,200	24,400	19,000	22,000	
36	22,700	22,200	17,300	22,500	23,400	17,600	20,400	22,600	17,400	20,300	
38	20,700	21,100	15,500	20,600	21,700	15,800	18,600	20,800	15,700	18,600	
40	19,000	20,000	13,900	18,900	20,100	14,300	17,000	19,100	14,200	17,100	
45	15,600	17,000	10,800	15,700	16,800	11,300	14,000	16,000	11,300	14,100	
50	13,000	14,400	8,400	13,200	14,300	9,000	11,600	13,500	9,100	11,800	
55	10,700	12,000	6,500	11,000	12,100	7,100	9,600	11,500	7,200	9,800	
60	8,800	9,900	4,900	9,100	10,100	5,500	8,000	9,800	5,700	8,200	
65	7,400	8,500	3,600	7,700	8,600	4,200	6,600	8,300	4,400	6,900	
70	6,400	7,400		6,600	7,500	3,100	5,500	7,200	3,300	5,800	
75				5,600	6,500		4,600	6,200		4,900	
80							3,700	5,300		4,000	
85							3,000	4,600		3,300	
90							2,300	3,900		2,700	
95										2,100	
100											
* n *	5	4	5	4	3	4	4	3	3	3	
 %	1	0+	0+	92+	0+	0+	92+	0+	0+	92+	0+
	2	0+	0+	92+	0+	0+	92+	92+	0+	92+	92+
	3	92+	0+	46+	92+	46+	46+	92+	92+	92+	92+
	4	46+	92+	0+	92+	92+	46+	46+	92+	46+	92+
	5	46+	92+	0+	46+	92+	0+	46+	92+	0+	46+
 ft/s	23	23	23	23	23	23	23	23	23	23	

	157 ft T	--	 0,000 lbs	 27 x 23 ft	 360°		
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85%

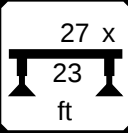
157 ft T	--
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061513

TAB 134062

20.01

 ft		 ft > < lbs		CODE >007<				L134 1000 .x(x)			
		115	125	125	138	138	148	157	46	59	69
10									38,300	34,200	
11									38,300	34,000	
12									38,200	33,800	24,000
13									38,200	33,700	23,600
14									38,200	33,500	23,300
15									38,200	33,400	22,900
16									38,200	33,300	22,500
17									38,200	33,200	22,200
18									38,200	33,100	21,900
20									38,200	33,000	21,300
22									38,200	32,900	20,700
24	31,700								38,200	32,800	20,200
26	30,500								38,100	32,800	19,700
28	29,300	26,000	27,700	25,500	26,300				34,200	29,900	19,300
30	27,700	23,400	26,100	23,000	24,800	23,000	20,800	30,100	26,600	18,900	
32	25,300	21,200	23,800	20,900	22,700	21,000	20,000	26,900	23,700	18,500	
34	23,400	19,400	22,000	19,200	20,900	19,300	18,800	24,300	21,200	17,600	
36	21,600	17,800	20,300	17,600	19,300	17,800	17,400	22,000	19,200	16,400	
38	19,900	16,200	18,700	16,100	17,700	16,300	15,900	19,700	17,100	15,200	
40	18,300	14,800	17,200	14,700	16,300	15,000	14,600		15,200	13,900	
45	15,300	11,900	14,300	12,000	13,600	12,400	12,100		11,700	10,700	
50	13,000	9,700	12,000	9,900	11,400	10,300	10,000			8,200	
55	11,000	7,900	10,100	8,100	9,600	8,500	8,300			6,200	
60	9,400	6,400	8,600	6,600	8,000	7,100	6,900				
65	8,100	5,100	7,300	5,300	6,800	5,800	5,700				
70	6,900	4,000	6,200	4,300	5,700	4,800	4,700				
75	5,900	3,100	5,300	3,400	4,800	3,900	3,800				
80	5,100		4,400		4,000	3,100	3,000				
85	4,300		3,700		3,300	2,400	2,300				
90	3,700		3,100		2,700						
95	3,100		2,500		2,100						
100	2,600										
* n *	3	2	3	2	2	2	2	3	3	2	
 %	1	0+	92+	0+	92+	46+	92+	100+	0+	46-	92-
	2	46+	92+	92+	92+	92+	92+	100+	46-	46+	46+
	3	92+	92+	92+	92+	92+	92+	100+	0+	0+	0+
	4	92+	46+	92+	92+	92+	92+	100+	0+	0+	0+
	5	92+	46+	92+	46+	92+	92+	100+	0+	0+	0+
 ft/s	23	23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 0,000 lbs	 27 x 23 ft	 360°		
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85%

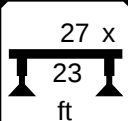
157 ft T	--
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061513

TAB 134062

20.01

		ft > < lbs					CODE >007<		L134 1000 .x(x)		
		79	92	102	115	46	59	79	102	125	69
10						46,700	43,500				
11						46,600	43,300				
12						46,500	43,000				31,800
13						46,500	42,800				31,300
14						46,500	42,700				30,900
15	21,900					46,500	42,500	27,600			30,400
16	21,500					46,500	42,300	26,000			30,000
17	21,100	20,500				46,500	42,200	25,200			29,600
18	20,700	20,100				46,500	42,100	24,800			29,200
20	20,000	19,300	19,000			46,500	41,800	24,100	21,100		28,500
22	19,400	18,700	18,300			46,500	41,700	23,400	20,400		27,800
24	18,800	18,000	17,600	17,300		44,900	40,700	22,800	19,800		26,600
26	18,200	17,400	17,000	16,600		41,900	39,000	22,200	19,100		25,000
28	17,700	16,800	16,400	16,000		37,600	35,600	21,700	18,500	16,000	24,400
30	17,200	16,300	15,800	15,400		33,400	32,200	21,200	18,000	15,400	23,900
32	16,700	15,800	15,300	14,900		30,100	29,000	20,700	17,400	14,800	23,500
34	16,100	15,300	14,500	14,100		27,300	26,400	20,300	17,000	14,000	22,800
36	15,300	14,900	13,500	13,100		24,800	24,300	19,900	16,500	13,000	22,000
38	14,600	14,400	12,500	12,100		22,400	22,100	19,400	16,000	12,000	21,100
40	13,700	13,700	11,700	11,300			20,100	18,800	15,500	11,300	20,100
45	10,500	10,800	10,900	10,500			16,200	15,600	13,700	10,400	16,600
50	8,100	8,400	9,000	8,900				13,000	11,600	9,300	13,700
55	6,100	6,500	7,100	7,200				10,700	9,600	7,900	11,300
60	4,500	4,900	5,500	5,700				8,800	8,000	6,400	
65	3,200	3,600	4,200	4,400				7,400	6,600	5,100	
70			3,100	3,300				6,400	5,500	4,000	
75									4,600	3,100	
80									3,700		
85									3,000		
90									2,300		
95											
100											
* n *	2	2	2	2	4	4	3	2	2	3	
	1	92-	92-	92-	92-	0+	0+	0+	0+	92-	0+
	2	92-	92-	92-	92-	0+	0+	0+	92-	92+	0+
	3	0+	46-	46-	92-	0+	0+	92-	92+	92+	0+
	4	0+	0+	46-	46-	0+	46-	46+	46+	46+	92-
	5	0+	0+	0+	0+	46-	46+	46+	46+	46+	46+
	ft/s	23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 0,000 lbs	 27 x 23 ft	 360°		
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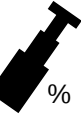
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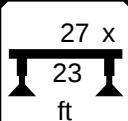
157 ft T	--
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061513

TAB 134062

20.01

 ft	 ft > < lbs		CODE >007<				L134 1000 .x(x)			
	92	115	138	59	69	79	92	102	115	125
10				35,500						
11				35,100						
12				34,600	42,000					
13				34,200	41,700					
14				33,800	41,400					
15				33,500	41,100	29,300				
16				33,100	40,900	28,800				
17	24,400			32,800	40,300	28,100	35,500			
18	24,000			32,500	39,500	27,100	35,200			
20	23,300			31,900	38,000	25,400	34,600	22,800		
22	22,600			31,300	37,400	24,700	33,700	22,100		
24	21,900	19,400		30,800	36,000	24,100	32,300	21,400	30,700	
26	21,300	18,800		30,400	33,900	23,400	30,500	20,800	30,200	
28	20,700	18,200	15,700	30,000	32,000	22,900	29,100	20,200	29,100	17,900
30	20,200	17,600	15,100	29,500	30,200	22,400	27,800	19,600	27,700	17,300
32	19,600	17,000	14,600	28,700	28,600	21,900	26,500	19,100	25,300	16,700
34	19,200	16,500	13,800	27,100	26,700	21,400	25,000	18,600	23,400	16,200
36	18,700	16,000	12,800	24,900	24,800	21,000	23,400	18,100	21,600	15,800
38	18,200	15,600	11,800	22,700	22,800	20,600	21,700	17,600	19,900	15,300
40	17,700	15,100	11,100	20,700	21,100	19,900	20,100	17,100	18,300	14,700
45	15,500	13,800	10,300	16,600	17,500	16,900	16,800	15,700	15,300	12,400
50	13,200	11,800	9,300		14,600	14,400	14,300	13,500	13,000	11,300
55	11,000	9,800	8,100		12,200	12,000	12,100	11,500	11,000	10,100
60	9,100	8,200	6,600			9,900	10,100	9,800	9,400	8,600
65	7,700	6,900	5,300			8,500	8,600	8,300	8,100	7,300
70	6,600	5,800	4,300			7,400	7,500	7,200	6,900	6,200
75	5,600	4,900	3,400				6,500	6,200	5,900	5,300
80		4,000						5,300	5,100	4,400
85		3,300						4,600	4,300	3,700
90		2,700						3,900	3,700	3,100
95		2,100							3,100	2,500
100									2,600	
* n *	2	2	2	3	4	3	3	2	3	2
1	0+	0+	92-	0+	0+	0+	0+	0+	0+	0+
2	0+	92-	92+	0+	0+	0+	0+	0+	46-	92-
3	92-	92+	92+	0+	0+	0+	46-	92-	92+	92+
4	92+	92+	92+	0+	46-	92-	92+	92+	92+	92+
5	46+	46+	46+	92-	92+	92+	92+	92+	92+	92+
 %										
 ft/s	23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 0,000 lbs	 27 x 23 ft	 360°		
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85%

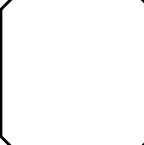
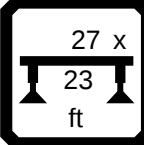
157 ft T	--
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061513

TAB 134062

20.01

 ft	 ft > < lbs			CODE >007<			L134 1000 .x(x)			
	138	148	157							
10										
11										
12										
13										
14										
15										
16										
17										
18										
20										
22										
24										
26										
28	24,700									
30	24,000	15,200	10,400							
32	22,400	14,600	10,000							
34	20,900	13,800	9,600							
36	19,300	12,800	9,200							
38	17,700	11,900	8,800							
40	16,300	11,100	8,400							
45	13,600	10,300	7,600							
50	11,400	9,600	6,900							
55	9,600	8,500	6,200							
60	8,000	7,100	5,600							
65	6,800	5,800	5,100							
70	5,700	4,800	4,500							
75	4,800	3,900	3,800							
80	4,000	3,100	3,000							
85	3,300	2,400	2,300							
90	2,700									
95	2,100									
100										
* n *	2	2	1							
 %	1	46-	92-	100-						
	2	92+	92+	100-						
	3	92+	92+	100-						
	4	92+	92+	100-						
	5	92+	92+	100-						
 ft/s		23	23	23						

	157 ft T	--	 0,000 lbs	 27 x 23 ft	 360°		
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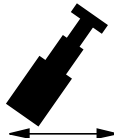
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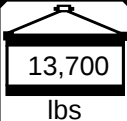
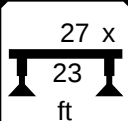
157 ft T	--
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061513

TAB 134060

20.01

 ft		 ft> < lbs		CODE >005<			L134 1100 .x(x)				
		36	46	46	59	59	59	69	69	69	79
	10	148,000	148,000	90,500	137,000	74,000	64,500				
	11	140,000	139,000	87,000	131,000	70,500	62,000				
	12	132,000	132,000	83,500	126,000	67,500	59,500	110,000	55,800	55,800	
	13	125,000	125,000	80,000	121,000	64,500	57,100	107,000	53,600	53,700	
	14	118,000	118,000	76,500	116,000	61,500	54,800	104,000	51,600	51,700	
	15	112,000	112,000	73,500	111,000	58,500	52,600	101,000	49,600	49,700	84,000
	16	106,000	106,000	71,000	105,000	55,800	50,500	98,000	47,700	47,800	81,500
	17	101,000	100,000	68,500	98,500	53,500	48,700	93,000	45,900	46,000	78,500
	18	95,500	95,500	66,000	91,500	51,600	47,100	85,500	44,100	44,200	75,000
	20	85,500	84,500	61,500	78,000	47,900	44,000	71,500	40,700	40,800	67,500
	22	77,000	73,000	57,800	66,500	44,800	41,500	61,500	38,200	38,300	58,600
	24	68,500	63,500	54,100	57,400	41,800	39,100	53,400	36,000	36,000	51,000
	26	61,000	55,100	50,600	49,900	39,100	36,800	46,700	34,000	33,900	44,800
	28		49,000	48,100	44,400	36,700	34,800	41,500	32,200	32,000	40,000
	30		43,600	45,600	39,400	34,300	32,800	36,900	30,400	30,200	35,700
	32		39,400	42,200	35,500	32,100	31,000	33,200	28,800	28,600	32,200
	34		35,800	38,800	32,200	30,400	29,600	30,200	27,300	27,000	29,300
	36		32,700	35,500	29,500	29,000	28,400	27,600	25,900	25,500	26,800
	38		29,700	32,200	26,800	27,600	27,300	25,000	24,500	24,100	24,400
	40				24,300	26,300	26,200	22,700	23,200	22,800	22,100
	45				19,700	23,500	23,800	18,400	21,100	20,600	18,000
	50							15,100	19,200	18,600	14,700
	55							12,300	17,100	16,900	12,100
	60										9,800
	65										8,000
	70										6,500
	75										
	80										
	85										
	90										
	95										
	100										
	105										
	110										
	115										
	120										
	* n *	10!	10!	7	10!	6	5	9	5	5	7
 %	1	0+	0+	0+	46+	0+	0+	92+	0+	0+	92+
	2	0+	46+	0+	46+	0+	0+	46+	0+	0+	92+
	3	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+
	4	0+	0+	0+	0+	46+	0+	0+	92+	46+	0+
	5	0+	0+	46+	0+	46+	92+	0+	46+	92+	0+
 ft/s		23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 13,700 lbs	 27 x 23 ft	 360°		
--	----------	----	--	---	---	--	--



157 ft T	--
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20.01

Diagram illustrating the tower structure and load capacity. The tower is labeled "157 ft T". The load capacity is indicated as "13,700 lbs". The base dimensions are "27 x 23 ft". The rotation is indicated as "360°".



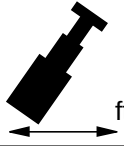
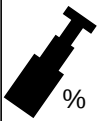
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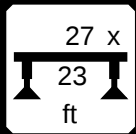
157 ft T	--
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061513

TAB 134060

20.01

 ft	 ft> < lbs		CODE >005<					L134 1100 .x(x)			
	115	125	125	138	138	148	157	46	59	69	
10								38,300	34,200		
11								38,300	34,000		
12								38,200	33,800	24,000	
13								38,200	33,700	23,600	
14								38,200	33,500	23,300	
15								38,200	33,400	22,900	
16								38,200	33,300	22,500	
17								38,200	33,200	22,200	
18								38,200	33,100	21,900	
20								38,200	33,000	21,300	
22								38,200	32,900	20,700	
24	31,700							38,200	32,800	20,200	
26	30,500							38,200	32,800	19,700	
28	29,500	35,400	28,100	30,300	27,100			38,200	32,800	19,300	
30	28,400	33,800	27,200	29,600	26,500	26,000	20,900	38,100	32,800	18,900	
32	27,300	30,900	26,300	28,900	25,900	25,600	20,500	37,800	32,800	18,500	
34	26,300	28,500	25,500	27,500	25,300	24,900	20,000	35,800	31,400	18,200	
36	25,300	26,400	24,700	25,700	24,700	24,100	19,500	32,700	29,000	17,900	
38	24,400	24,300	23,800	23,900	24,100	23,300	19,000	29,700	26,600	17,600	
40	23,400	22,400	23,000	22,200	23,300	22,400	18,600		24,300	17,300	
45	21,400	18,700	20,800	18,700	20,200	18,900	17,500		19,700	16,800	
50	19,000	15,800	18,100	15,900	17,400	16,200	15,600			14,800	
55	16,700	13,400	15,700	13,500	15,000	13,900	13,600			12,300	
60	14,500	11,400	13,600	11,600	13,000	12,000	11,700				
65	12,800	9,800	12,000	9,900	11,400	10,400	10,200				
70	11,200	8,400	10,500	8,600	10,000	9,000	8,900				
75	9,800	7,200	9,200	7,400	8,800	7,900	7,700				
80	8,600	6,100	8,100	6,300	7,700	6,800	6,700				
85	7,700	5,200	7,100	5,400	6,700	5,900	5,800				
90	6,900	4,400	6,300	4,600	5,900	5,100	5,000				
95	6,100	3,700	5,600	3,900	5,200	4,400	4,300				
100	5,500	3,000	4,900	3,300	4,500	3,800	3,700				
105			4,300	2,700	4,000	3,200	3,100				
110			3,800	2,200	3,500	2,700	2,600				
115					2,900	2,200	2,200				
120					2,400						
* n *	3	3	3	3	2	2	2	3	3	2	
 %	1	0+	92+	0+	92+	46+	92+	100+	0+	46-	92-
	2	46+	92+	92+	92+	92+	92+	100+	46-	46+	46+
	3	92+	92+	92+	92+	92+	92+	100+	0+	0+	0+
	4	92+	46+	92+	92+	92+	92+	100+	0+	0+	0+
	5	92+	46+	92+	46+	92+	92+	100+	0+	0+	0+
 ft/s	23	23	23	23	23	23	23	23	23	23	

	157 ft T	--	 13,700 lbs	 27 x 23 ft	 360°		
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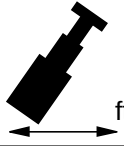
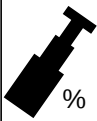
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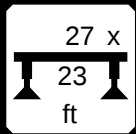
157 ft T	--
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061513

TAB 134060

20.01

 ft		 ft> < lbs		CODE >005<			L134 1100 .x(x)				
		79	92	102	115	46	59	79	102	125	69
10						46,700	43,500				
11						46,600	43,300				
12						46,500	43,000				31,800
13						46,500	42,800				31,300
14						46,500	42,700				30,900
15	21,900					46,500	42,500	27,600			30,400
16	21,500					46,500	42,300	26,000			30,000
17	21,100	20,500				46,500	42,200	25,200			29,600
18	20,700	20,100				46,500	42,100	24,800			29,200
20	20,000	19,300	19,000			46,500	41,800	24,100	21,100		28,500
22	19,400	18,700	18,300			46,500	41,700	23,400	20,400		27,800
24	18,800	18,000	17,600	17,300		46,500	40,700	22,800	19,800		26,600
26	18,200	17,400	17,000	16,600		46,500	39,000	22,200	19,100		25,000
28	17,700	16,800	16,400	16,000		46,400	36,700	21,700	18,500	16,000	24,400
30	17,200	16,300	15,800	15,400		45,600	34,300	21,200	18,000	15,400	23,900
32	16,700	15,800	15,300	14,900		42,200	32,100	20,700	17,400	14,800	23,500
34	16,300	15,300	14,500	14,100		38,800	30,400	20,300	17,000	14,000	23,100
36	15,900	14,900	13,500	13,100		35,500	29,000	19,900	16,500	13,000	22,700
38	15,500	14,400	12,500	12,100		32,200	27,600	19,400	16,000	12,000	22,400
40	15,100	13,800	11,700	11,300			26,300	19,100	15,600	11,300	22,000
45	14,300	11,600	10,900	10,500			23,500	18,300	14,600	10,400	20,900
50	12,600	10,700	10,200	9,800				17,600	12,800	9,700	19,200
55	11,000	10,200	9,600	9,100				16,300	11,500	9,100	17,100
60	9,800	9,500	9,100	8,500				14,300	10,900	8,500	
65	8,000	8,400	8,600	8,000				12,300	10,400	7,900	
70	6,500	7,000	7,500	7,400				10,600	9,600	7,400	
75		5,700	6,400	6,500					8,500	6,900	
80			5,300	5,500					7,400	6,100	
85			4,300	4,600					6,500	5,200	
90			3,400	3,800					5,600	4,400	
95				3,000						3,700	
100										3,000	
105											
110											
115											
120											
* n *	2	2	2	2	4	4	3	2	2	2	3
 %	1	92-	92-	92-	92-	0+	0+	0+	0+	92-	0+
	2	92-	92-	92-	92-	0+	0+	0+	92-	92+	0+
	3	0+	46-	46-	92-	0+	0+	92-	92+	92+	0+
	4	0+	0+	46-	46-	0+	46-	46+	46+	46+	92-
	5	0+	0+	0+	0+	46-	46+	46+	46+	46+	46+
 ft/s	23	23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 13,700 lbs	 27 x 23 ft	 360°		
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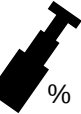
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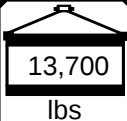
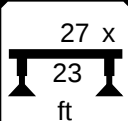
157 ft T	--
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061513

TAB 134060

20.01

 ft	 ft > < lbs		CODE >005<				L134 1100 .x(x)			
	92	115	138	59	69	79	92	102	115	125
10				35,500						
11				35,100						
12				34,600	42,000					
13				34,200	41,700					
14				33,800	41,400					
15				33,500	41,100	29,300				
16				33,100	40,900	28,800				
17	24,400			32,800	40,300	28,100	35,500			
18	24,000			32,500	39,500	27,100	35,200			
20	23,300			31,900	38,000	25,400	34,600	22,800		
22	22,600			31,300	37,400	24,700	33,700	22,100		
24	21,900	19,400		30,800	36,000	24,100	32,300	21,400	30,700	
26	21,300	18,800		30,400	33,900	23,400	30,500	20,800	30,200	
28	20,700	18,200	15,700	30,000	32,000	22,900	29,100	20,200	29,300	17,900
30	20,200	17,600	15,100	29,600	30,200	22,400	27,800	19,600	28,400	17,300
32	19,600	17,000	14,600	29,300	28,600	21,900	26,500	19,100	27,300	16,700
34	19,200	16,500	13,800	28,700	27,000	21,400	25,400	18,600	26,300	16,200
36	18,700	16,000	12,800	27,900	25,500	21,000	24,400	18,100	25,300	15,800
38	18,200	15,600	11,800	27,000	24,100	20,600	23,400	17,600	24,400	15,300
40	17,800	15,100	11,100	26,200	22,800	20,000	22,400	17,200	23,400	14,700
45	16,900	14,100	10,300	23,800	20,600	17,800	20,100	16,200	21,400	12,400
50	16,100	12,300	9,500		18,600	16,000	18,200	15,300	19,000	11,400
55	15,400	11,000	8,800		16,900	14,500	16,600	14,500	16,700	10,700
60	14,500	10,400	8,200			13,400	15,300	13,600	14,500	10,100
65	12,500	9,900	7,700			12,300	13,600	11,900	12,800	9,600
70	10,800	9,400	7,200			11,300	11,900	11,100	11,200	9,100
75	9,500	8,700	6,700				10,400	10,100	9,800	8,600
80		7,700	6,200					8,900	8,600	8,100
85		6,700	5,400					7,900	7,700	7,100
90		5,900	4,600					7,100	6,900	6,300
95		5,200	3,900						6,100	5,600
100		4,500	3,300						5,500	4,900
105			2,700							4,300
110			2,200							3,800
115										
120										
* n *	2	2	2	3	4	3	3	2	3	2
1	0+	0+	92-	0+	0+	0+	0+	0+	0+	0+
2	0+	92-	92+	0+	0+	0+	0+	0+	46-	92-
3	92-	92+	92+	0+	0+	0+	46-	92-	92+	92+
4	92+	92+	92+	0+	46-	92-	92+	92+	92+	92+
5	46+	46+	46+	92-	92+	92+	92+	92+	92+	92+
 ft/s	23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 13,700 lbs	 27 x 23 ft	 360°		
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85%

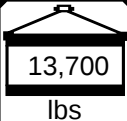
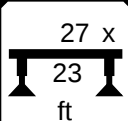
157 ft T	--
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061513

TAB 134060

20.01

 ft	 ft > < lbs			CODE >005<		L134 1100 .x(x)				
	138	148	157							
10										
11										
12										
13										
14										
15										
16										
17										
18										
20										
22										
24										
26										
28	24,700									
30	24,300	15,200	10,400							
32	23,900	14,600	10,000							
34	23,500	13,800	9,600							
36	23,100	12,800	9,200							
38	22,700	11,900	8,800							
40	22,200	11,100	8,400							
45	20,000	10,300	7,600							
50	17,400	9,600	6,900							
55	15,000	8,900	6,200							
60	13,000	8,300	5,600							
65	11,400	7,700	5,100							
70	10,000	7,200	4,600							
75	8,800	6,800	4,100							
80	7,700	6,300	3,700							
85	6,700	5,900	3,400							
90	5,900	5,100	3,000							
95	5,200	4,400	2,700							
100	4,500	3,800	2,400							
105	4,000	3,200	2,200							
110	3,500	2,700	2,000							
115	2,900	2,200								
120	2,400									
* n *	2	2	1							
 %	1	46-	92-	100-						
	2	92+	92+	100-						
	3	92+	92+	100-						
	4	92+	92+	100-						
	5	92+	92+	100-						
 ft/s		23	23	23						

	157 ft T	--	 13,700 lbs	 27 x 23 ft	 360°		
--	----------	----	--	---	---	--	--



85%

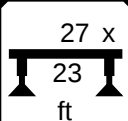
157 ft T	--
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061513

TAB 134057

20.01

 ft		 ft> < lbs		CODE >002<			L134 1400 .x(x)				
		36	46	46	59	59	59	69	69	69	79
	10	149,000	149,000	90,500	137,000	74,000	64,500				
	11	141,000	141,000	87,000	131,000	70,500	62,000				
	12	134,000	134,000	83,500	126,000	67,500	59,500	110,000	55,800	55,800	
	13	127,000	127,000	80,000	121,000	64,500	57,100	107,000	53,600	53,700	
	14	121,000	120,000	76,500	116,000	61,500	54,800	104,000	51,600	51,700	
	15	115,000	114,000	73,500	111,000	58,500	52,600	101,000	49,600	49,700	84,000
	16	109,000	109,000	71,000	106,000	55,800	50,500	98,000	47,700	47,800	81,500
	17	104,000	104,000	68,500	102,000	53,500	48,700	95,500	45,900	46,000	79,500
	18	100,000	99,500	66,000	98,000	51,600	47,100	93,000	44,100	44,200	77,500
	20	91,000	90,500	61,500	89,500	47,900	44,000	87,500	40,700	40,800	73,500
	22	83,500	83,500	57,800	82,500	44,800	41,500	81,500	38,200	38,300	69,500
	24	76,500	76,500	54,100	75,500	41,800	39,100	75,000	36,000	36,000	66,000
	26	70,000	70,000	50,600	68,500	39,100	36,800	68,500	34,000	33,900	62,500
	28		64,000	48,100	63,000	36,700	34,800	62,000	32,200	32,000	58,200
	30		59,000	45,900	57,900	34,300	32,800	55,800	30,400	30,200	53,800
	32		54,600	43,900	53,300	32,100	31,000	50,700	28,800	28,600	49,000
	34		50,600	42,000	49,200	30,400	29,600	46,500	27,300	27,000	45,100
	36		47,000	40,200	45,400	29,000	28,400	42,900	25,900	25,500	41,700
	38		43,400	38,500	41,600	27,600	27,300	39,300	24,500	24,100	38,300
	40				38,200	26,300	26,200	36,100	23,200	22,800	35,200
	45				31,800	23,500	23,800	30,200	21,100	20,600	29,400
	50							25,600	19,200	18,600	25,000
	55							21,800	17,400	16,900	21,400
	60										18,300
	65										15,600
	70										13,500
	75										
	80										
	85										
	90										
	95										
	100										
	105										
	110										
	115										
	120										
	* n *	10!	10!	7	10!	6	5	9	5	5	7
 %	1	0+	0+	0+	46+	0+	0+	92+	0+	0+	92+
	2	0+	46+	0+	46+	0+	0+	46+	0+	0+	92+
	3	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+
	4	0+	0+	0+	0+	46+	0+	0+	92+	46+	0+
	5	0+	0+	46+	0+	46+	92+	0+	46+	92+	0+
 ft/s		23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 35,500 lbs	 27 x 23 ft	 360°		
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157 ft T	--
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TAB 134057 20.01

[illegible]

	157 ft T	--					
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85%

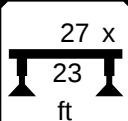
157 ft T	--
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061513

TAB 134057

20.01

 ft		 ft > < lbs		CODE >002<			L134 1400 .x(x)				
		79	79	92	92	92	102	102	102	115	115
10											
11											
12											
13											
14											
15	57,700	41,800									
16	55,800	40,300									
17	54,000	39,000	67,000	45,300	39,400						
18	52,200	37,700	65,500	44,100	38,300						
20	48,800	35,100	63,000	41,700	36,100	54,500	45,200	35,200			
22	45,700	32,800	60,500	39,300	34,200	52,400	43,000	33,700			
24	42,700	30,600	58,100	37,000	32,300	50,400	40,900	32,200	43,500	35,200	
26	39,800	28,500	55,700	34,800	30,500	48,400	38,800	30,700	42,200	33,800	
28	37,800	27,000	53,100	33,100	29,100	46,600	36,800	29,300	41,000	32,400	
30	35,900	25,600	50,300	31,500	27,800	44,900	35,000	28,000	39,800	31,100	
32	34,200	24,400	47,400	30,000	26,500	43,100	33,200	26,600	38,800	29,800	
34	32,700	23,200	44,300	28,700	25,400	41,100	31,600	25,400	37,400	28,600	
36	31,200	22,200	41,000	27,400	24,400	39,000	30,300	24,300	36,000	27,400	
38	29,800	21,100	37,800	26,200	23,400	36,800	29,000	23,300	34,500	26,300	
40	28,400	20,100	34,800	25,000	22,400	34,700	27,700	22,300	32,900	25,200	
45	25,300	17,800	29,200	22,300	20,100	29,300	25,000	20,100	28,800	22,800	
50	22,800	16,000	24,900	19,900	18,200	25,100	22,600	18,200	24,900	20,700	
55	20,700	14,500	21,400	18,000	16,600	21,700	20,300	16,400	21,600	18,800	
60	18,900	13,400	18,400	16,600	15,400	18,800	18,300	14,800	18,700	17,000	
65	17,400	12,300	15,900	15,300	14,300	16,500	17,000	13,800	16,400	15,300	
70	15,900	11,300	13,900	14,100	13,300	14,500	15,800	12,900	14,500	14,200	
75			12,000	12,900	12,400	12,700	14,600	12,000	12,800	13,300	
80						11,000	13,300	11,200	11,200	12,400	
85						9,600	11,800	10,300	9,800	11,500	
90						8,500	10,500	9,600	8,700	10,600	
95									7,700	9,700	
100									6,800	8,800	
105											
110											
115											
120											
* n *	5	4	5	4	3	5	4	3	4	3	
 %	1	0+	0+	92+	0+	0+	92+	0+	0+	92+	0+
	2	0+	0+	92+	0+	0+	92+	92+	0+	92+	92+
	3	92+	0+	46+	92+	46+	46+	92+	92+	92+	92+
	4	46+	92+	0+	92+	92+	46+	46+	92+	46+	92+
	5	46+	92+	0+	46+	92+	0+	46+	92+	0+	46+
 ft/s	23	23	23	23	23	23	23	23	23	23	

	157 ft T	--	 35,500 lbs	 27 x 23 ft	 360°		
--	----------	----	--	---	---	--	--



157 ft T	--
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TAB 134057 20.01

[illegible]

	157 ft T	--					
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85%

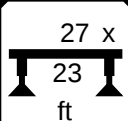
157 ft T	--
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061513

TAB 134057

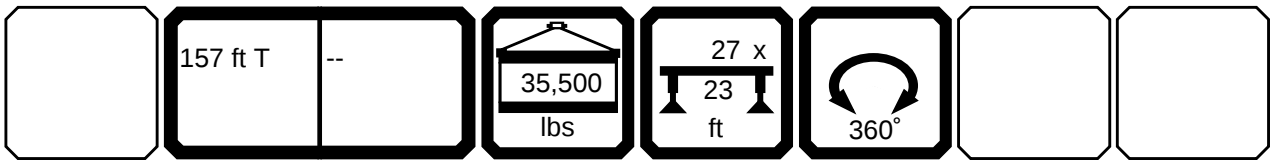
20.01

 ft		 ft> < lbs		CODE >002<				L134 1400 .x(x)			
		115	125	125	138	138	148	157	46	59	69
10									38,300	34,200	
11									38,300	34,000	
12									38,200	33,800	24,000
13									38,200	33,700	23,600
14									38,200	33,500	23,300
15									38,200	33,400	22,900
16									38,200	33,300	22,500
17									38,200	33,200	22,200
18									38,200	33,100	21,900
20									38,200	33,000	21,300
22									38,200	32,900	20,700
24	31,700								38,200	32,800	20,200
26	30,500								38,200	32,800	19,700
28	29,500	35,500	28,100	30,300	27,100				38,200	32,800	19,300
30	28,400	34,500	27,200	29,600	26,500	26,000	20,900	38,200	32,800	18,900	
32	27,300	33,500	26,300	28,900	25,900	25,600	20,500	38,200	32,800	18,500	
34	26,300	32,600	25,500	28,200	25,300	25,000	20,000	38,200	32,800	18,200	
36	25,300	31,600	24,700	27,500	24,700	24,300	19,500	38,200	32,800	17,900	
38	24,400	30,700	23,800	26,900	24,100	23,600	19,000	38,200	32,800	17,600	
40	23,400	29,800	23,000	26,200	23,400	23,000	18,600		32,600	17,300	
45	21,400	27,400	20,900	24,100	21,500	21,200	17,500		30,900	16,800	
50	19,600	24,700	19,100	22,300	19,800	19,700	16,400			16,600	
55	17,900	22,000	17,500	20,600	18,300	18,300	15,400			16,600	
60	16,400	19,200	15,900	19,000	16,900	17,100	14,400				
65	15,000	17,000	14,500	17,000	15,600	15,900	13,500				
70	14,000	15,100	13,200	15,200	14,400	14,800	12,800				
75	13,200	13,400	12,200	13,500	13,300	13,700	12,000				
80	12,400	11,900	11,500	12,100	12,300	12,500	11,300				
85	11,700	10,400	10,800	10,700	11,700	11,200	10,600				
90	11,000	9,300	10,200	9,500	10,600	10,000	9,800				
95	10,300	8,300	9,600	8,500	9,600	8,900	8,800				
100	9,700	7,400	9,000	7,600	8,800	8,000	8,000				
105		6,600	8,400	6,800	8,000	7,300	7,200				
110		5,900	7,700	6,200	7,300	6,600	6,500				
115				5,600	6,600	5,900	5,900				
120				5,000	6,100	5,400	5,300				
* n *	3	3	3	3	2	2	2	3	3	2	
 %	1	0+	92+	0+	92+	46+	92+	100+	0+	46-	92-
	2	46+	92+	92+	92+	92+	92+	100+	46-	46+	46+
	3	92+	92+	92+	92+	92+	92+	100+	0+	0+	0+
	4	92+	46+	92+	92+	92+	92+	100+	0+	0+	0+
	5	92+	46+	92+	46+	92+	92+	100+	0+	0+	0+
 ft/s	23	23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 35,500 lbs	 27 x 23 ft	 360°		
--	----------	----	--	---	---	--	--



157 ft T	--
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[illegible]



85%

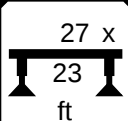
157 ft T	--
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061513

TAB 134057

20.01

 ft		 ft > < lbs		CODE >002<			L134 1400 .x(x)				
		79	92	102	115	46	59	79	102	125	69
10						46,700	43,500				
11						46,600	43,300				
12						46,500	43,000				31,800
13						46,500	42,800				31,300
14						46,500	42,700				30,900
15	21,900					46,500	42,500	27,600			30,400
16	21,500					46,500	42,300	26,000			30,000
17	21,100	20,500				46,500	42,200	25,200			29,600
18	20,700	20,100				46,500	42,100	24,800			29,200
20	20,000	19,300	19,000			46,500	41,800	24,100	21,100		28,500
22	19,400	18,700	18,300			46,500	41,700	23,400	20,400		27,800
24	18,800	18,000	17,600	17,300		46,500	40,700	22,800	19,800		26,600
26	18,200	17,400	17,000	16,600		46,500	39,000	22,200	19,100		25,000
28	17,700	16,800	16,400	16,000		46,400	36,700	21,700	18,500	16,000	24,400
30	17,200	16,300	15,800	15,400		45,900	34,300	21,200	18,000	15,400	23,900
32	16,700	15,800	15,300	14,900		43,900	32,100	20,700	17,400	14,800	23,500
34	16,300	15,300	14,500	14,100		42,000	30,400	20,300	17,000	14,000	23,100
36	15,900	14,900	13,500	13,100		40,200	29,000	19,900	16,500	13,000	22,700
38	15,500	14,400	12,500	12,100		38,500	27,600	19,400	16,000	12,000	22,400
40	15,100	13,800	11,700	11,300			26,300	19,100	15,600	11,300	22,000
45	14,300	11,600	10,900	10,500			23,500	18,300	14,600	10,400	20,900
50	12,600	10,700	10,200	9,800				17,600	12,800	9,700	19,200
55	11,400	10,200	9,600	9,100				17,000	11,500	9,100	17,400
60	11,200	9,700	9,100	8,500				16,600	10,900	8,500	
65	11,100	9,300	8,600	8,000				16,400	10,400	7,900	
70	11,100	9,100	8,200	7,500				15,700	10,000	7,400	
75		8,900	7,900	7,100					9,700	7,000	
80			7,600	6,800					9,400	6,600	
85			7,500	6,500					9,200	6,300	
90			7,500	6,200					9,200	6,000	
95				6,100						5,700	
100				6,000						5,500	
105										5,300	
110										5,300	
115											
120											
* n *	2	2	2	2	4	4	3	2	2	2	3
 %	1	92-	92-	92-	92-	0+	0+	0+	0+	92-	0+
	2	92-	92-	92-	92-	0+	0+	0+	92-	92+	0+
	3	0+	46-	46-	92-	0+	0+	92-	92+	92+	0+
	4	0+	0+	46-	46-	0+	46-	46+	46+	46+	92-
	5	0+	0+	0+	0+	46-	46+	46+	46+	46+	46+
 ft/s	23	23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 35,500 lbs	 27 x 23 ft	 360°		
--	----------	----	--	---	---	--	--



157 ft T	--
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TAB 134057 20.01

[illegible]

	157 ft T	--					
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85%

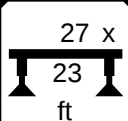
157 ft T	--
----------	----

061513

TAB 134057

20.01

 ft	 ft > < lbs		CODE >002<				L134 1400 .x(x)			
	92	115	138	59	69	79	92	102	115	125
10				35,500						
11				35,100						
12				34,600	42,000					
13				34,200	41,700					
14				33,800	41,400					
15				33,500	41,100	29,300				
16				33,100	40,900	28,800				
17	24,400			32,800	40,300	28,100	35,500			
18	24,000			32,500	39,500	27,100	35,200			
20	23,300			31,900	38,000	25,400	34,600	22,800		
22	22,600			31,300	37,400	24,700	33,700	22,100		
24	21,900	19,400		30,800	36,000	24,100	32,300	21,400	30,700	
26	21,300	18,800		30,400	33,900	23,400	30,500	20,800	30,200	
28	20,700	18,200	15,700	30,000	32,000	22,900	29,100	20,200	29,300	17,900
30	20,200	17,600	15,100	29,600	30,200	22,400	27,800	19,600	28,400	17,300
32	19,600	17,000	14,600	29,300	28,600	21,900	26,500	19,100	27,300	16,700
34	19,200	16,500	13,800	28,700	27,000	21,400	25,400	18,600	26,300	16,200
36	18,700	16,000	12,800	27,900	25,500	21,000	24,400	18,100	25,300	15,800
38	18,200	15,600	11,800	27,000	24,100	20,600	23,400	17,600	24,400	15,300
40	17,800	15,100	11,100	26,200	22,800	20,000	22,400	17,200	23,400	14,700
45	16,900	14,100	10,300	23,800	20,600	17,800	20,100	16,200	21,400	12,400
50	16,100	12,300	9,500		18,600	16,000	18,200	15,300	19,600	11,400
55	15,400	11,000	8,800		16,900	14,500	16,600	14,500	17,900	10,700
60	14,700	10,400	8,200			13,400	15,400	13,600	16,400	10,100
65	14,200	9,900	7,700			12,300	14,300	11,900	15,000	9,600
70	12,800	9,400	7,200			11,300	13,300	11,400	14,000	9,100
75	12,100	9,000	6,700				12,400	11,000	13,200	8,700
80		8,700	6,300					10,700	12,400	8,300
85		8,300	5,900					10,300	11,700	7,900
90		8,100	5,600					9,600	11,000	7,600
95		7,900	5,300						10,300	7,400
100		7,800	5,000						9,700	7,100
105			4,800							6,900
110			4,600							6,800
115			4,500							
120			4,400							
* n *	2	2	2	3	4	3	3	2	3	2
 %	1	0+	0+	92-	0+	0+	0+	0+	0+	0+
	2	0+	92-	92+	0+	0+	0+	0+	0+	46-
	3	92-	92+	92+	0+	0+	0+	46-	92-	92+
	4	92+	92+	92+	0+	46-	92-	92+	92+	92+
	5	46+	46+	46+	92-	92+	92+	92+	92+	92+
 ft/s	23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 35,500 lbs	 27 x 23 ft	 360°		
--	----------	----	--	---	---	--	--



157 ft T	--
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TAB 134057 20.01

[illegible]

	157 ft T	--	 35,500 lbs	 27 x 23 ft	 360°		
--	----------	----	--	---	--	--	--



85%

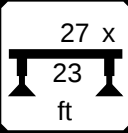
157 ft T	--
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061513

TAB 134057

20.01

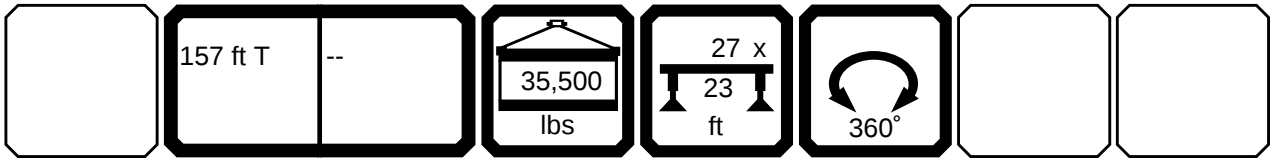
 ft	 ft > < lbs			CODE >002<			L134 1400 .x(x)			
	138	148	157							
10										
11										
12										
13										
14										
15										
16										
17										
18										
20										
22										
24										
26										
28	24,700									
30	24,300	15,200	10,400							
32	23,900	14,600	10,000							
34	23,500	13,800	9,600							
36	23,100	12,800	9,200							
38	22,700	11,900	8,800							
40	22,400	11,100	8,400							
45	21,300	10,300	7,600							
50	19,800	9,600	6,900							
55	18,300	8,900	6,200							
60	16,900	8,300	5,600							
65	15,600	7,700	5,100							
70	14,400	7,200	4,600							
75	13,300	6,800	4,100							
80	12,300	6,300	3,700							
85	11,700	5,900	3,400							
90	10,600	5,600	3,000							
95	9,600	5,300	2,700							
100	8,800	5,000	2,400							
105	8,000	4,700	2,200							
110	7,300	4,500	2,000							
115	6,600	4,300								
120	6,100	4,100								
* n *	2	2	1							
 %	1	46-	92-	100-						
	2	92+	92+	100-						
	3	92+	92+	100-						
	4	92+	92+	100-						
	5	92+	92+	100-						
 ft/s		23	23	23						

	157 ft T	--	 35,500 lbs	 27 x 23 ft	 360°		
--	----------	----	--	---	---	--	--



157 ft T	--
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TAB 134057 20.01

[illegible]



157 ft T	--
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TAB 134056 20.01

[illegible]

ISO DIN

157 ft T	--
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061513

TAB 134012

20.02

[illegible]

Diagram of a stage set with the following elements labeled:

- 157 ft T
-
- 9,000 lbs
- 27 x 16 ft
- 360°

ISO DIN

157 ft T	--
----------	----

061513

TAB 134012

20.02

[illegible]

Diagram of a crane system with the following components labeled:

- 157 ft T
-
- 9,000 lbs
- 27 x 16 ft
- 360°

ISO DIN

157 ft T	--
----------	----

061513

TAB 134012

20.02

[illegible]

ISO DIN

157 ft T	--
----------	----

061513

TAB 134012

20.02

[illegible]

Diagram of a crane system with the following components labeled:

- 157 ft T
-
- 9,000 lbs
- 27 x 16 ft
- 360°



ISO DIN

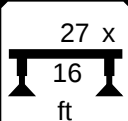
157 ft T	--
----------	----

061513

TAB 134012

20.02

 ft	 ft > < lbs		CODE >012<				L134 1700 .x(x)			
	92	115	138	59	69	79	92	102	115	125
10				32,300						
11				31,900						
12				31,500	38,200					
13				31,100	37,900					
14				30,800	37,600					
15				30,400	37,400	26,600				
16				30,100	37,200	26,200				
17	22,200			29,800	36,600	25,500	32,300			
18	21,800			29,500	35,900	24,600	32,000			
20	21,200			29,000	34,500	23,100	31,500	20,700		
22	20,500			28,500	34,000	22,500	30,700	20,100		
24	19,900	17,600		28,000	32,000	21,900	29,000	19,500	26,400	
26	19,300	17,100		27,600	28,700	21,300	26,600	18,900	23,900	
28	18,800	16,500	14,300	25,700	26,100	20,800	24,300	18,300	21,800	16,300
30	18,300	16,000	13,800	23,600	23,600	20,300	22,200	17,800	19,900	15,700
32	17,900	15,500	13,300	21,500	21,600	19,900	20,400	17,300	18,300	15,200
34	17,000	14,800	12,500	19,600	19,900	18,900	18,800	16,600	17,000	14,600
36	15,900	13,900	11,600	18,000	18,400	17,600	17,500	15,800	15,700	13,900
38	14,900	13,100	10,800	16,300	17,000	16,300	16,100	14,900	14,500	13,200
40	13,800	12,300	9,900	14,800	15,600	15,100	14,900	14,100	13,400	12,400
45	11,500	10,100	8,200	11,900	12,800	12,600	12,500	11,800	11,200	10,300
50	9,600	8,300	6,600		10,600	10,500	10,500	9,900	9,400	8,600
55	8,000	6,900	5,200		8,800	8,700	8,800	8,400	8,000	7,200
60	6,600	5,600	4,100			7,300	7,400	7,100	6,700	5,900
65	5,500	4,600	3,100			6,200	6,300	6,000	5,700	4,900
70	4,600	3,700				5,200	5,400	5,100	4,800	4,100
75	3,800	3,000					4,600	4,300	4,000	3,300
80								3,600	3,300	2,700
85								2,900	2,800	2,100
90								2,400	2,200	
* n *	2	2	2	3	3	2	3	2	2	2
 %	1	0+	0+	92-	0+	0+	0+	0+	0+	0+
	2	0+	92-	92+	0+	0+	0+	0+	0+	46-
	3	92-	92+	92+	0+	0+	0+	46-	92-	92+
	4	92+	92+	92+	0+	46-	92-	92+	92+	92+
	5	46+	46+	46+	92-	92+	92+	92+	92+	92+
 ft/s	23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 9,000 lbs	 27 x 16 ft	 360°		
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ISO DIN

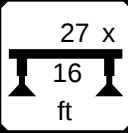
157 ft T	--
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061513

TAB 134012

20.02

 ft	 ft > < lbs			CODE >012<		L134 1700 .x(x)				
	138	148	157							
10										
11										
12										
13										
14										
15										
16										
17										
18										
20										
22										
24										
26										
28	19,300									
30	17,600	13,800	9,500							
32	16,200	13,300	9,100							
34	14,900	12,600	8,700							
36	13,800	11,700	8,400							
38	12,700	10,800	8,000							
40	11,700	10,000	7,700							
45	9,700	8,500	6,900							
50	8,000	7,000	6,200							
55	6,600	5,700	5,400							
60	5,500	4,500	4,400							
65	4,500	3,600	3,500							
70	3,600	2,800	2,700							
75	2,900									
80										
85										
90										
* n *	2	1	1							
 %	1	46-	92-	100-						
	2	92+	92+	100-						
	3	92+	92+	100-						
	4	92+	92+	100-						
	5	92+	92+	100-						
 ft/s		23	23	23						

	157 ft T	--	 9,000 lbs	 27 x 16 ft	 360°		
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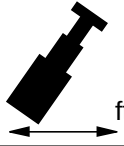
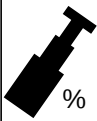
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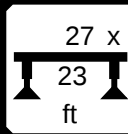
157 ft T	--
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061513

TAB 134061

20.02

 ft		 ft> < lbs		CODE >006<			L134 1800 .x(x)				
		36	46	46	59	59	59	69	69	69	79
10		148,000	147,000	90,500	137,000	74,000	64,500				
11		139,000	139,000	87,000	131,000	70,500	62,000				
12		131,000	131,000	83,500	126,000	67,500	59,500	110,000	55,800	55,800	
13		124,000	124,000	80,000	121,000	64,500	57,100	107,000	53,600	53,700	
14		117,000	117,000	76,500	115,000	61,500	54,800	104,000	51,600	51,700	
15		111,000	111,000	73,500	109,000	58,500	52,600	100,000	49,600	49,700	84,000
16		105,000	105,000	71,000	103,000	55,800	50,500	93,000	47,700	47,800	81,500
17		99,500	98,500	68,500	94,500	53,500	48,700	86,000	45,900	46,000	77,500
18		94,000	91,500	66,000	86,000	51,600	47,100	78,500	44,100	44,200	71,500
20		83,000	78,500	61,500	70,000	47,900	44,000	64,500	40,700	40,800	61,000
22		72,500	66,500	57,800	59,900	44,800	41,500	55,400	38,200	38,300	52,600
24		63,000	57,100	54,100	51,400	41,800	39,100	47,800	36,000	36,000	45,600
26		55,000	49,500	50,600	44,600	39,100	36,800	41,600	34,000	33,900	39,900
28			43,900	46,400	39,600	36,700	34,800	36,900	32,200	32,000	35,600
30			39,000	42,200	35,000	34,300	32,800	32,700	30,400	30,200	31,600
32			35,100	38,200	31,400	32,100	31,000	29,300	28,800	28,600	28,400
34			31,900	34,900	28,400	30,400	29,600	26,600	27,300	27,000	25,800
36			29,100	31,900	25,900	29,000	28,400	24,200	25,900	25,500	23,500
38			26,300	28,900	23,400	27,600	27,300	21,800	24,500	24,100	21,300
40					21,200	26,000	26,000	19,700	23,200	22,800	19,200
45					16,800	21,400	21,800	15,700	21,100	20,600	15,400
50								12,700	18,200	18,500	12,400
55								10,100	15,400	16,200	10,000
60											8,000
65											6,500
70											5,000
75											
80											
85											
90											
95											
100											
105											
110											
115											
* n *		10!	10!	7	10!	6	5	9	5	5	7
 %	1	0+	0+	0+	46+	0+	0+	92+	0+	0+	92+
	2	0+	46+	0+	46+	0+	0+	46+	0+	0+	92+
	3	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+
	4	0+	0+	0+	0+	46+	0+	0+	92+	46+	0+
	5	0+	0+	46+	0+	46+	92+	0+	46+	92+	0+
 ft/s		23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 9,000 lbs	 27 x 23 ft	 360°		
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85%

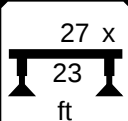
157 ft T	--
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061513

TAB 134061

20.02

 ft		 ft > < lbs		CODE >006<			L134 1800 .x(x)				
		79	79	92	92	92	102	102	102	115	115
10											
11											
12											
13											
14											
15	57,700	41,800									
16	55,800	40,300									
17	54,000	39,000	66,000	45,300	39,400						
18	52,200	37,700	63,500	44,100	38,300						
20	48,800	35,100	58,200	41,700	36,100	54,000	45,200	35,200			
22	45,700	32,800	50,700	39,300	34,200	48,500	43,000	33,700			
24	42,700	30,600	44,300	37,000	32,300	43,200	40,900	32,200	41,800	35,200	
26	39,800	28,500	39,000	34,800	30,500	38,300	38,800	30,700	37,100	33,800	
28	37,800	27,000	34,800	33,100	29,100	34,400	36,400	29,300	33,500	32,400	
30	35,800	25,600	31,100	31,500	27,800	30,900	33,900	28,000	30,200	31,100	
32	33,700	24,400	28,100	30,000	26,500	28,000	31,000	26,600	27,500	29,800	
34	31,400	23,200	25,600	28,600	25,400	25,600	28,500	25,400	25,200	28,100	
36	29,100	22,200	23,400	27,200	24,400	23,500	26,400	24,300	23,200	26,100	
38	26,700	21,100	21,200	25,800	23,400	21,400	24,200	23,300	21,200	24,100	
40	24,500	20,100	19,300	24,400	22,400	19,500	22,300	22,300	19,400	22,200	
45	20,500	17,800	15,600	20,500	20,100	16,000	18,600	20,100	15,900	18,700	
50	17,400	16,000	12,700	17,400	18,100	13,200	15,700	17,600	13,200	15,900	
55	14,800	14,500	10,300	14,900	16,000	10,800	13,400	15,300	10,900	13,500	
60	12,500	13,300	8,400	12,800	13,800	8,900	11,400	13,300	9,100	11,600	
65	10,500	11,700	6,800	10,800	11,800	7,400	9,700	11,500	7,500	10,000	
70	9,100	10,200	5,500	9,300	10,300	6,100	8,400	10,000	6,200	8,700	
75			4,300	8,100	9,000	5,000	7,200	8,700	5,100	7,500	
80						4,000	6,200	7,700	4,200	6,500	
85						3,100	5,300	6,800	3,300	5,600	
90						2,300	4,500	6,100	2,600	4,900	
95										4,200	
100										3,500	
105											
110											
115											
* n *	5	4	5	4	3	4	4	3	4	3	
 %	1	0+	0+	92+	0+	0+	92+	0+	0+	92+	0+
	2	0+	0+	92+	0+	0+	92+	92+	0+	92+	92+
	3	92+	0+	46+	92+	46+	46+	92+	92+	92+	92+
	4	46+	92+	0+	92+	92+	46+	46+	92+	46+	92+
	5	46+	92+	0+	46+	92+	0+	46+	92+	0+	46+
 ft/s	23	23	23	23	23	23	23	23	23	23	

	157 ft T	--	 9,000 lbs	 27 x 23 ft	 360°		
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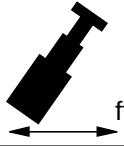
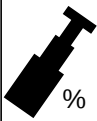
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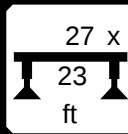
157 ft T	--
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061513

TAB 134061

20.02

 ft		 ft> < lbs		CODE >006<				L134 1800 .x(x)			
		115	125	125	138	138	148	157	46	59	69
10									38,300	34,200	
11									38,300	34,000	
12									38,200	33,800	24,000
13									38,200	33,700	23,600
14									38,200	33,500	23,300
15									38,200	33,400	22,900
16									38,200	33,300	22,500
17									38,200	33,200	22,200
18									38,200	33,100	21,900
20									38,200	33,000	21,300
22									38,200	32,900	20,700
24	31,700								38,200	32,800	20,200
26	30,500								38,200	32,800	19,700
28	29,500	33,400	28,100	30,300	27,100				38,200	32,800	19,300
30	28,400	30,200	27,200	29,200	26,500	26,000	20,900	37,500	32,400	18,900	
32	27,300	27,600	26,300	27,000	25,900	25,600	20,500	34,700	30,700	18,500	
34	26,300	25,400	25,400	25,000	25,000	24,400	20,000	31,900	28,400	18,200	
36	25,300	23,500	24,400	23,200	23,700	22,900	19,500	29,100	25,900	17,900	
38	24,400	21,500	23,300	21,300	22,500	21,300	19,000	26,300	23,400	17,600	
40	23,300	19,800	22,200	19,600	21,300	19,800	18,400		21,200	17,100	
45	19,800	16,400	18,800	16,400	17,900	16,700	16,100		16,800	15,300	
50	17,100	13,800	16,000	13,800	15,300	14,100	13,900			12,700	
55	14,700	11,500	13,800	11,600	13,100	12,000	11,800			10,100	
60	12,800	9,700	11,900	9,800	11,300	10,300	10,100				
65	11,200	8,200	10,300	8,300	9,800	8,800	8,600				
70	9,700	6,900	9,000	7,100	8,500	7,600	7,400				
75	8,400	5,800	7,900	6,000	7,400	6,500	6,400				
80	7,400	4,800	6,800	5,100	6,400	5,600	5,400				
85	6,500	4,000	5,900	4,200	5,600	4,700	4,600				
90	5,800	3,300	5,200	3,500	4,800	4,000	3,900				
95	5,100	2,600	4,600	2,800	4,200	3,400	3,300				
100	4,500		4,000	2,300	3,600	2,800	2,700				
105			3,400		3,000						
110			2,900		2,500						
115					2,000						
* n *	3	3	3	3	2	2	2	3	3	2	
 %	1	0+	92+	0+	92+	46+	92+	100+	0+	46-	92-
	2	46+	92+	92+	92+	92+	92+	100+	46-	46+	46+
	3	92+	92+	92+	92+	92+	92+	100+	0+	0+	0+
	4	92+	46+	92+	92+	92+	92+	100+	0+	0+	0+
	5	92+	46+	92+	46+	92+	92+	100+	0+	0+	0+
 ft/s	23	23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 9,000 lbs	 27 x 23 ft	 360°		
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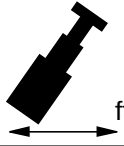
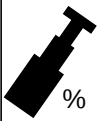
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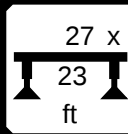
157 ft T	--
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061513

TAB 134061

20.02

 ft		 ft > < lbs		CODE >006<			L134 1800 .x(x)				
		79	92	102	115	46	59	79	102	125	69
10						46,700	43,500				
11						46,600	43,300				
12						46,500	43,000				31,800
13						46,500	42,800				31,300
14						46,500	42,700				30,900
15	21,900					46,500	42,500	27,600			30,400
16	21,500					46,500	42,300	26,000			30,000
17	21,100	20,500				46,500	42,200	25,200			29,600
18	20,700	20,100				46,500	42,100	24,800			29,200
20	20,000	19,300	19,000			46,500	41,800	24,100	21,100		28,500
22	19,400	18,700	18,300			46,500	41,700	23,400	20,400		27,800
24	18,800	18,000	17,600	17,300		46,500	40,700	22,800	19,800		26,600
26	18,200	17,400	17,000	16,600		46,500	39,000	22,200	19,100		25,000
28	17,700	16,800	16,400	16,000		44,700	36,700	21,700	18,500	16,000	24,400
30	17,200	16,300	15,800	15,400		42,200	34,300	21,200	18,000	15,400	23,900
32	16,700	15,800	15,300	14,900		38,200	32,100	20,700	17,400	14,800	23,500
34	16,300	15,300	14,500	14,100		34,900	30,400	20,300	17,000	14,000	23,100
36	15,900	14,900	13,500	13,100		31,900	29,000	19,900	16,500	13,000	22,700
38	15,500	14,400	12,500	12,100		28,900	27,600	19,400	16,000	12,000	22,400
40	15,100	13,800	11,700	11,300			26,100	19,100	15,600	11,300	22,000
45	14,300	11,600	10,900	10,500			21,500	18,300	14,600	10,400	20,900
50	12,200	10,700	10,200	9,800				16,800	12,800	9,700	18,200
55	10,000	9,800	9,600	9,100				14,800	11,500	9,100	15,400
60	8,000	8,400	8,900	8,400				12,500	10,800	8,500	
65	6,500	6,800	7,400	7,400				10,500	9,700	7,900	
70	5,000	5,500	6,100	6,200				9,100	8,400	6,900	
75		4,300	5,000	5,100					7,200	5,800	
80			4,000	4,200					6,200	4,800	
85			3,100	3,300					5,300	4,000	
90			2,300	2,600					4,500	3,300	
95										2,600	
100											
105											
110											
115											
* n *	2	2	2	2	4	4	3	2	2	2	3
 %	1	92-	92-	92-	92-	0+	0+	0+	0+	92-	0+
	2	92-	92-	92-	92-	0+	0+	0+	92-	92+	0+
	3	0+	46-	46-	92-	0+	0+	92-	92+	92+	0+
	4	0+	0+	46-	46-	0+	46-	46+	46+	46+	92-
	5	0+	0+	0+	0+	46-	46+	46+	46+	46+	46+
 ft/s	23	23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 9,000 lbs	 27 x 23 ft	 360°		
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85%

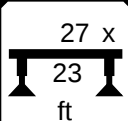
157 ft T	--
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061513

TAB 134061

20.02

 ft	 ft > < lbs		CODE >006<				L134 1800 .x(x)			
	92	115	138	59	69	79	92	102	115	125
10				35,500						
11				35,100						
12				34,600	42,000					
13				34,200	41,700					
14				33,800	41,400					
15				33,500	41,100	29,300				
16				33,100	40,900	28,800				
17	24,400			32,800	40,300	28,100	35,500			
18	24,000			32,500	39,500	27,100	35,200			
20	23,300			31,900	38,000	25,400	34,600	22,800		
22	22,600			31,300	37,400	24,700	33,700	22,100		
24	21,900	19,400		30,800	36,000	24,100	32,300	21,400	30,700	
26	21,300	18,800		30,400	33,900	23,400	30,500	20,800	30,200	
28	20,700	18,200	15,700	30,000	32,000	22,900	29,100	20,200	29,300	17,900
30	20,200	17,600	15,100	29,600	30,200	22,400	27,800	19,600	28,400	17,300
32	19,600	17,000	14,600	29,300	28,600	21,900	26,500	19,100	27,300	16,700
34	19,200	16,500	13,800	28,700	27,000	21,400	25,400	18,600	26,300	16,200
36	18,700	16,000	12,800	27,900	25,500	21,000	24,400	18,100	25,300	15,800
38	18,200	15,600	11,800	27,000	24,100	20,600	23,400	17,600	24,400	15,300
40	17,800	15,100	11,100	26,000	22,800	20,000	22,400	17,200	23,300	14,700
45	16,900	14,100	10,300	21,800	20,600	17,800	20,100	16,200	19,800	12,400
50	16,100	12,300	9,500		18,500	16,000	18,100	15,300	17,100	11,400
55	14,700	11,000	8,800		16,200	14,500	16,000	14,400	14,700	10,700
60	12,800	10,400	8,200			13,300	13,800	13,300	12,800	10,100
65	10,800	9,900	7,700			11,700	11,800	11,500	11,200	9,600
70	9,300	8,700	6,900			10,200	10,300	10,000	9,700	8,800
75	8,100	7,500	6,000				9,000	8,700	8,400	7,900
80		6,500	5,100					7,700	7,400	6,800
85		5,600	4,200					6,800	6,500	5,900
90		4,900	3,500					6,100	5,800	5,200
95		4,200	2,800						5,100	4,600
100		3,500	2,300						4,500	4,000
105										3,400
110										2,900
115										
* n *	2	2	2	3	4	3	3	2	3	2
 %	1	0+	0+	92-	0+	0+	0+	0+	0+	0+
	2	0+	92-	92+	0+	0+	0+	0+	0+	46-
	3	92-	92+	92+	0+	0+	0+	46-	92-	92+
	4	92+	92+	92+	0+	46-	92-	92+	92+	92+
	5	46+	46+	46+	92-	92+	92+	92+	92+	92+
 ft/s	23	23	23	23	23	23	23	23	23	23

	157 ft T	--	 9,000 lbs	 27 x 23 ft	 360°		
--	----------	----	---	---	---	--	--



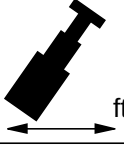
85%

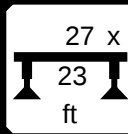
157 ft T	--
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061513

TAB 134061

20.02

 ft	 ft > < lbs			CODE >006<			L134 1800 .x(x)			
	138	148	157							
10										
11										
12										
13										
14										
15										
16										
17										
18										
20										
22										
24										
26										
28	24,700									
30	24,300	15,200	10,400							
32	23,900	14,600	10,000							
34	23,300	13,800	9,600							
36	22,700	12,800	9,200							
38	22,100	11,900	8,800							
40	21,300	11,100	8,400							
45	17,900	10,300	7,600							
50	15,300	9,600	6,900							
55	13,100	8,900	6,200							
60	11,300	8,300	5,600							
65	9,800	7,700	5,100							
70	8,500	7,200	4,600							
75	7,400	6,500	4,100							
80	6,400	5,600	3,700							
85	5,600	4,700	3,400							
90	4,800	4,000	3,000							
95	4,200	3,400	2,700							
100	3,600	2,800	2,400							
105	3,000									
110	2,500									
115	2,000									
* n *	2	2	1							
 %	1	46-	92-	100-						
	2	92+	92+	100-						
	3	92+	92+	100-						
	4	92+	92+	100-						
	5	92+	92+	100-						
 ft/s		23	23	23						

	157 ft T	--	 9,000 lbs	 27 x 23 ft	 360°		
--	----------	----	---	--	--	--	--



157 ft T	K 0° 34 ft
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20.02

Diagram of a bridge with the following measurements and units:

- 157 ft T
- K 0°
- 34 ft
- 0,000 lbs
- 27 x 23 ft
- 360°



157 ft T	K 0° 34 ft
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20.02



157 ft T	K 0° 34 ft
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TAB 134066 20.02

	157 ft T	K 0° 34 ft					
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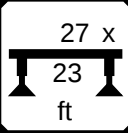
85%

157 ft T	K 0°
	34 ft

061513

TAB 134063 20.02

 ft	 ft > < lbs		CODE >026<				L134 0010 .x(x)			
	125	125	138	138	148	157				
34	21,000	15,800								
36	20,700	15,400								
38	20,500	14,900								
40	20,300	14,500	16,800	14,100	13,600	9,900				
45	19,300	13,400	15,900	13,300	12,900	9,700				
50	17,900	12,500	15,100	12,500	12,200	9,400				
55	16,600	11,700	14,300	11,700	11,500	9,100				
60	15,400	11,000	13,400	11,000	10,900	8,700				
65	14,400	10,300	12,600	10,400	10,300	8,300				
70	13,400	9,700	11,800	9,800	9,800	8,000				
75	12,500	9,100	11,000	9,300	9,400	7,700				
80	11,500	8,500	10,300	8,800	8,900	7,400				
85	10,400	8,000	9,600	8,300	8,500	7,000				
90	9,400	7,400	9,000	7,800	8,100	6,700				
95	8,400	7,000	8,300	7,400	7,700	6,400				
100	7,500	6,600	7,500	6,900	7,300	6,100				
105	6,800	6,200	6,700	6,600	6,900	5,800				
110	6,100	5,900	6,100	6,300	6,200	5,600				
115	5,500	5,600	5,500	6,000	5,600	5,200				
120	4,900	5,300	4,900	5,700	5,000	4,800				
125	4,300	5,000	4,400	5,300	4,500	4,300				
130	3,800	4,700	3,900	4,800	4,000	3,800				
135	3,300	4,500	3,400	4,300	3,600	3,400				
140	2,800	4,200	2,900	3,800	3,100	3,000				
145	2,400	3,900	2,500	3,400	2,700	2,600				
150	2,000	3,500	2,100	3,000	2,300	2,200				
155			1,700	2,600	2,000	1,900				
160					1,600	1,500				
* n *	2	2	2	2	1	1				
 %	1	92+	0+	92+	46+	92+	100+			
	2	92+	92+	92+	92+	92+	100+			
	3	92+	92+	92+	92+	92+	100+			
	4	46+	92+	92+	92+	92+	100+			
	5	46+	92+	46+	92+	92+	100+			
 ft/s		23	23	23	23	23	23			

	157 ft T	K 0°	 35,500 lbs	 27 x 23 ft	 360°		
--	----------	------	--	--	--	--	--



157 ft T	K 0° 62 ft
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20.02

[illegible]

Diagram of a bridge with various attributes in boxes:

- Box 1: 157 ft T
- Box 2: K 0°
- Box 3: 62 ft
- Box 4: 0,000 lbs
- Box 5: 27 x 23 ft
- Box 6: 360°



157 ft T	K 0° 62 ft
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20.02



157 ft T	K 0° 62 ft
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20.02

The diagram shows a crane system with the following components labeled in boxes:

- 157 ft T**: Total length of the crane.
- K 0°**: Crane angle.
- 62 ft**: Height of the crane.
- 13,700 lbs**: Weight of the load.
- 27 x 23 ft**: Dimensions of the load.
- 360°**: Rotation of the crane.



85%

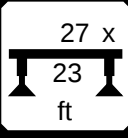
157 ft T	K 0°
	62 ft

061513

TAB 134063

20.02

 ft	 ft > < lbs		CODE >032<				L134 0011 .x(x)			
	125	125	138	138	148	157				
40	8,100	7,300								
45	8,000	7,300								
50	7,800	7,100	7,200	6,800	6,500	5,800				
55	7,600	6,900	7,000	6,800	6,400	5,900				
60	7,300	6,700	6,900	6,700	6,400	5,900				
65	7,100	6,600	6,700	6,600	6,300	5,800				
70	7,000	6,400	6,600	6,400	6,200	5,600				
75	6,800	6,300	6,500	6,300	6,100	5,400				
80	6,600	6,200	6,300	6,100	5,900	5,300				
85	6,500	5,900	6,200	6,000	5,800	5,100				
90	6,300	5,600	6,100	5,700	5,700	4,900				
95	6,200	5,400	6,000	5,500	5,500	4,800				
100	6,000	5,200	5,900	5,300	5,300	4,600				
105	5,800	4,900	5,800	5,100	5,100	4,500				
110	5,600	4,800	5,700	4,900	4,900	4,400				
115	5,500	4,600	5,600	4,700	4,700	4,200				
120	5,200	4,400	5,400	4,600	4,500	4,000				
125	4,900	4,300	4,800	4,400	4,400	3,900				
130	4,400	4,100	4,400	4,300	4,200	3,700				
135	4,000	3,900	3,900	4,100	3,900	3,600				
140	3,600	3,700	3,500	4,000	3,600	3,300				
145	3,200	3,500	3,100	3,800	3,200	3,000				
150	2,700	3,300	2,800	3,600	2,800	2,600				
155	2,400	3,100	2,400	3,200	2,500	2,300				
160	2,000	2,900	2,100	2,800	2,200	2,000				
165	1,700	2,700	1,700	2,500	1,900	1,700				
170	1,400	2,600	1,400	2,200	1,500	1,400				
175		2,300		1,900						
180				1,600						
* n *	1	1	1	1	1	1				
 %	1	92+	0+	92+	46+	92+	100+			
	2	92+	92+	92+	92+	92+	100+			
	3	92+	92+	92+	92+	92+	100+			
	4	46+	92+	92+	92+	92+	100+			
	5	46+	92+	46+	92+	92+	100+			
 ft/s		23	23	23	23	23	23			

	157 ft T	K 0°	 35,500 lbs	 27 x 23 ft	 360°		
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157 ft T	K 20° 34 ft
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20.02

Diagram of a hanging scale with the following labels and units:

- 157 ft T
- K 20°
- 34 ft
- 0,000 lbs
- 27 x 23 ft
- 360°

85%

157 ft T	K 20° 34 ft
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061513

TAB 134073

20.02

[illegible]

Diagram of a stage set with various elements labeled:

- Top left: 157 ft T
- Top center: K 20°
- Top right: 34 ft
- Center: 9,000 lbs
- Bottom left: 27 x
- Bottom center: 23 ft
- Bottom right: 360°



157 ft T	K 20° 34 ft
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20.02



157 ft T	K 20° 34 ft
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20.02

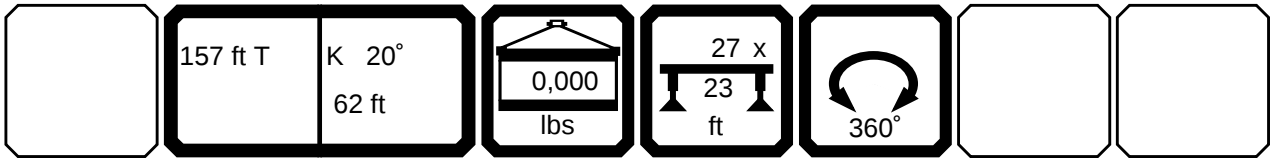
The diagram shows a crane system with the following components labeled in boxes:

- 157 ft T**: Total length of the tower.
- K 20°**: Tower angle.
- 34 ft**: Height of the tower base.
- 35,500 lbs**: Weight of the load.
- 27 x 23 ft**: Dimensions of the load platform.
- 360°**: Rotation angle of the load platform.



157 ft T	K 20° 62 ft
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20.02

[illegible]



157 ft T	K 20° 62 ft
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TAB 134073 20.02

[illegible]



157 ft T	K 20° 62 ft
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TAB 134072 20.02

[illegible]



85%

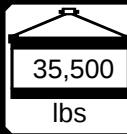
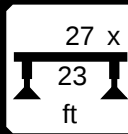
157 ft T	K 20°
	62 ft

061513

TAB 134069

20.02

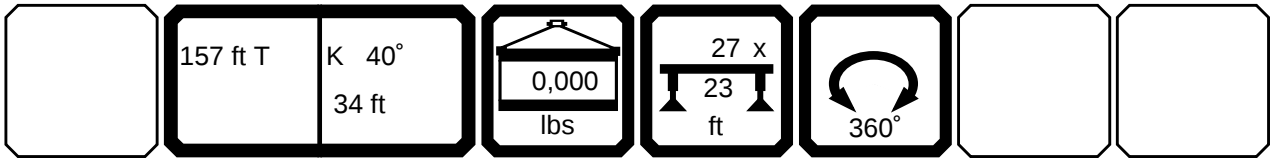
 ft	 ft > < lbs		CODE >044<				L134 0021 .x(x)			
	125	125	138	138	148	157				
60	6,200	5,800	5,900	5,700						
65	6,100	5,700	5,800	5,600						
70	5,900	5,600	5,700	5,500	5,300	5,000				
75	5,800	5,500	5,600	5,400	5,200	4,900				
80	5,700	5,400	5,500	5,300	5,100	4,900				
85	5,600	5,300	5,400	5,200	5,100	4,800				
90	5,500	5,200	5,300	5,100	5,000	4,800				
95	5,400	5,100	5,200	5,100	4,900	4,700				
100	5,300	5,000	5,100	5,000	4,900	4,500				
105	5,200	4,800	5,000	4,800	4,800	4,400				
110	5,100	4,600	4,900	4,600	4,700	4,300				
115	5,000	4,400	4,900	4,500	4,500	4,200				
120	4,900	4,200	4,800	4,300	4,400	4,000				
125	4,900	4,100	4,800	4,100	4,200	3,900				
130	4,900	3,900	4,800	4,000	4,100	3,800				
135	4,600	3,800	4,500	3,900	3,900	3,700				
140	4,200	3,700	4,200	3,800	3,800	3,500				
145	3,700	3,600	3,700	3,700	3,700	3,400				
150	3,300	3,400	3,300	3,600	3,400	3,200				
155	2,800	3,200	2,900	3,500	3,000	2,900				
160	2,400	3,000	2,500	3,200	2,700	2,500				
165	2,000	2,800	2,100	2,900	2,300	2,200				
170	1,600	2,600	1,800	2,500	2,000	1,900				
175			1,400	2,200	1,600	1,600				
* n *	1	1	1	1	1	1				
 %	1	92+	0+	92+	46+	92+	100+			
	2	92+	92+	92+	92+	92+	100+			
	3	92+	92+	92+	92+	92+	100+			
	4	46+	92+	92+	92+	92+	100+			
	5	46+	92+	46+	92+	92+	100+			
 ft/s		23	23	23	23	23	23			

	157 ft T	K 20°	 35,500 lbs	 27 x 23 ft	 360°		
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157 ft T	K 40° 34 ft
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TAB 134080 20.02

[illegible]



157 ft T	K 40° 34 ft
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20.02

Diagram of a room layout with dimensions and features:

- Room dimensions: 157 ft T, K 40°, 34 ft
- Weight: 9,000 lbs
- Height: 27 x 23 ft
- Rotation: 360°



157 ft T	K 40° 34 ft
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TAB 134078 20.02

[illegible]

Diagram of a room layout with dimensions and furniture:

- Room dimensions: 157 ft T, K 40°, 34 ft
- Furniture: 13,700 lbs (hanging), 27 x 23 ft (table), 360° (rotation)



157 ft T	K 40° 34 ft
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20.02



157 ft T	K 40° 62 ft
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20.02

[illegible]

Diagram of a bridge with various attributes in boxes:

- Box 1: 157 ft T
- Box 2: K 40°
- Box 3: 62 ft
- Box 4: 0,000 lbs
- Box 5: 27 x 23 ft
- Box 6: 360°



157 ft T	K 40° 62 ft
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20.02

Diagram of a lighting fixture with the following specifications:

- Height: 157 ft T
- Angle: K 40°
- Width: 62 ft
- Weight: 9,000 lbs
- Arm length: 27 x 23 ft
- Rotation: 360°



157 ft T	K 40° 62 ft
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20.02



157 ft T	K 40° 62 ft
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TAB 134075 20.02

[illegible]



Load handling chart book LTM 1080/1L
