Erection Plan Support Calculations
BRO 1448(41)

Fairfield, Vermont

CEE 38-mi-15

Prepared for:
A.L. St Onge Contractor, Inc

By:
Calderwood Engineering etc
May 5th, 2015

Rev 1) May 5th, 2015
Sheets 12-15: Push-Pull Calculations added
Sheets 18-125: Crane specs added

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RICHMOND, ME 04357
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Fairfield, Vermont

Erection Plan

TH 47 (Elm Brook Road) Bridge 46
Fairfield BRO 1448(41)

Location:
Town of Fairfield in Franklin County on TH 47 (Elm Brook Road) over the Black Creek. Approximately 0.05 miles west of intersection with VT 36.

References:
-AASHTO LRFD BDS Seventh ed.
-Steel Construction, ASD
-Use Strength 1 Factors for construction

Waste block bearing capacity:
-Utilize crane mats to distribute loading
-Blocks: (2'x2'x6')
-Set-up: 3 blocks tall, 5 blocks long, sufficient crane mats on top of blocks.

$AB_1 := 38240\ lbf$ -assume abutment load fully on front axles
$Cr := 33996\ lbf$ -taken from Manual, upper facing front, front axles

Loading:

$P := \frac{AB_1}{2} + \frac{Cr}{2} = 36.118\ kip$, per outrigger.

$LL := 1.75$ $DL := 1.25$ LRFD strength 1
$P_{LL} := P \cdot LL = 63.207\ kip$
$f'_c := 2000\ psi$
$A_1 := 1\ ft^2$ assume 1ft x 1ft outrigger
$m := 1$ assume, conservative
$\phi := 0.7$ bearing resistance, AASHTO LRFD
$P_n := 0.85 \cdot f'_c \cdot A_1 \cdot m$ (5.7.5-2, AASHTO)
$P_r := \phi \cdot P_n$
$P_r = 171.36\ kip$

$$check := \begin{cases} \text{“Bearing Resistance Okay”} & \text{if } P_r > P_{LL} \\ \text{“Inadequate Bearing Strength”} & \text{else} \end{cases} = \text{“Bearing Resistance Okay”}$$

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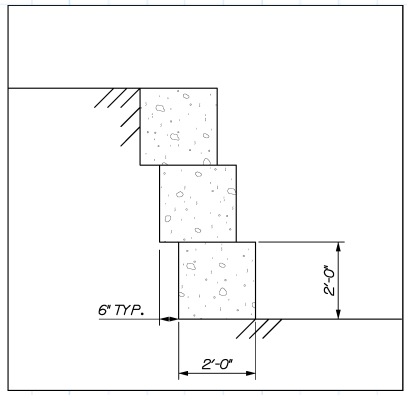
Check soil bearing resistance under waste blocks:

-Model as a spread footing
-Load footing in center
-Bearing on granular fill
-Step waste blocks back 6" per tier



$cN_{cm} := 0$

$\gamma D_f N_{qm} := 0$

$B := 2\ ft$

$L := 30\ ft$

$H := 6\ ft$

$\phi := 30\ deg$

$\gamma := 120\ pcf$

$N_\gamma := 22.4$ Table 10.6.3.1.2a-1, AASHTO LRFD

$i_\gamma := 1$

$C_{w\gamma} := 1.0$

$s_\gamma := 1 - 0.4 \cdot \left(\frac{B}{L}\right)$

$N_{\gamma m} := N_\gamma \cdot s_\gamma \cdot i_\gamma$

$q_n := cN_{cm} + \gamma D_f N_{qm} + 0.5 \cdot \gamma \cdot B \cdot N_{\gamma m} \cdot C_{w\gamma}$ Eq. 10.6.3.1.2a-1, AASTHO LRFD

$q_n := 0.5 \cdot \gamma \cdot B \cdot N_{\gamma m} \cdot C_{w\gamma}$, simplified

$q_n = 2.616\ ksf$, soil capacity

$w_{conc} := 6\ ft \cdot 2\ ft \cdot 2\ ft \cdot 150\ pcf = 3.6\ kip$, per waste block

$n_{blocks} := 15$

$q := \frac{DL \cdot \langle w_{conc} \cdot n_{blocks} \rangle + \langle P_{LL} \cdot 2 \rangle}{(6\ ft \cdot 5) \cdot 3\ ft} = 2.155\ ksf$, conservatively assume 50% LL on waste blocks even with crane mats present

```
check := if q_n > q
             "Soil resistance Okay"
         else
             "Bearing Resistance Inadequate"
```

= "Soil resistance Okay"

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Check live load surcharge overturning:

-Crane drives up to waste blocks

-Use 3.11.6.4 AASHTO LRFD

$M_{conc_1} := (30\ ft \cdot 2\ ft \cdot 2\ ft \cdot 150\ pcf) \cdot 1\ ft$

$M_{conc_2} := (30\ ft \cdot 2\ ft \cdot 2\ ft \cdot 150\ pcf) \cdot 1.5\ ft$

$M_{conc_3} := (30\ ft \cdot 2\ ft \cdot 2\ ft \cdot 150\ pcf) \cdot 2\ ft$

$M_{res_conc} := M_{conc_1} + M_{conc_2} + M_{conc_3} = 81\ kip \cdot ft$

According to AASHTO LRFD, Live load surcharge occurs at 1/2 wall height distance from wall. Therefore, crane will be 3 feet from wall when liveload occurs and loading will be distributed on the crane mats. Assume 4'-0" x 20'-0" crane mats.

$A_{mat} := 4\ ft \cdot 20\ ft = 80\ ft^2$

$P = 36.118\ kip$

$w_{crane} := \frac{P}{A_{mat}} = 0.451\ ksf$

$A_{mat_resist} := 2\ ft \cdot 6\ ft$

$P_{mat} := A_{mat_resist} \cdot w_{crane} = 5.418\ kip$

$M_{res_mat} := 2 \cdot (P_{mat} \cdot 1\ ft) = 10.835\ ft \cdot kip$ (2 outriggers)

$M_{res} := M_{res_conc} + M_{res_mat} = 91.835\ ft \cdot kip$

Check overturning:

$h_{eq} := 4\ ft$ Table 3.11.6.4-1

$\theta := 90\ deg$

$\beta := 0\ deg$

$\delta := 24\ deg$ Table 3.11.5.3-1, AASHTO LRFD

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$$\Gamma := \left(1 + \sqrt{\frac{(\sin(\phi+\delta)\cdot\sin(\phi-\beta))}{\sin(\theta-\delta)\cdot\sin(\theta+\beta)}}\right)^2$$ Eq. 3.11.5.3-2

$$k_a := \frac{\sin(\theta+\phi)^2}{\Gamma\cdot\left(\sin(\theta)^2\cdot\sin(\theta-\delta)\right)} = 0.296$$ Eq. 3.11.5.3-1

$$LS := \gamma\cdot k_a\cdot h_{eq} = 0.142\ ksf$$

$$M_o := LS\cdot(30\ ft\cdot H)\cdot\left(\frac{H}{2}\right) = 76.721\ kip\cdot ft$$

$$check := \begin{cases} \text{"Good"} & \text{if } M_{res} > M_o \\ \text{"Check overturning"} & \text{else} \end{cases} = \text{"Good"}$$

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Deadman Push-pull System Calulations:

-By inspection, HP 14x73 okay in tension/compression
-Design for FA-AB3

$M_{res} := 38.24\ kip \cdot 1.5\ ft$ Dead load resisting moment of abutment

$P := \frac{M_{res}}{5\ ft} = 11.472\ kip$ Force Req'd to adjust abutment

$P_f := P \cdot DL = 14.34\ kip$

Note: Chain, shackles, and binders must all have a minimum of a 6 ton capacity.

Check deadman stability:

$H := 27.2\ in$, depth of two HP 14x73 beams
$k_p := 6.5$
$R := 0.467$, AASTHO LRFD, Fig 3.11.5.4-2
$k_p := k_p \cdot R = 3.036$
$\gamma = 120\ pcf$

$$P_p := \frac{\left(k_p \cdot \gamma \cdot H^2\right)}{2} = 935.743\ plf$$

$L_{DM} := 26\ ft$ same as the abutment length for ease of construction.

$P_{allow} := P_p \cdot L_{DM} = 24.329\ kip$

$$check := \begin{cases} \text{if } P_{allow} > P_f \\ \quad \text{"Deadman stable"} \\ \text{else} \\ \quad \text{"Deadman unstable"} \end{cases} = \text{"Deadman stable"}$$

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Design Bolted Connection for Deadman:

$P_{dead} := P_f \cdot DL = 17.925\ kip$ Strength 1

$P_p := P_{dead}$ passive pressure only resists as much as needed.

$V_{bolt} := 17.364\ kip$ model system as a centeliever beam @ bolted connection

$M_{bolt} := P_p \cdot \left(\frac{2}{3}\right) \cdot H = 325.04\ kip \cdot in$ $D_{bolt} := \frac{7}{8}\ in$

Two HP beams attached to deadman: $t_f := 0.505\ in$

$V_{bolt} := \frac{V_{bolt}}{2} = 8.682\ kip$

$M_{bolt} := \frac{M_{bolt}}{2} = 162.52\ kip \cdot in$

Use (4) bolts.

Check shear resistance:

$N_s := 1$ $A_b := 4 \cdot \left(\frac{\left(\frac{7}{8}\ in\right)^2 \cdot 3.1415}{4}\right) = 2.405\ in^2$ $F_{ub} := 60\ ksi$

$R_n := 0.38 \cdot A_b \cdot F_{ub} \cdot N_s$ $\phi_t := 0.8$ (Eq. 6.13.2.7-1, AASHTO LRFD)

$R_n = 54.839\ kip$ $\phi_s := \phi_t$

$$check := \begin{cases} \text{"Good"} & \text{if } R_n > V_{bolt} \\ \text{"Check Bolts"} & \text{else} \end{cases} = \text{"Good"}$$

Check combined tension and shear (moment):

$\frac{V_{bolt}}{R_n} = 0.158$

$$T_n := \begin{cases} 0.76 \cdot A_b \cdot F_{ub} & \text{if } \frac{V_{bolt}}{R_n} \le 0.33 \\ 0.76 \cdot (2 \cdot A_b) \cdot F_{ub} \cdot \sqrt{1 - \left(\frac{V_{bolt}}{\phi_s \cdot R_n}\right)^2} & \text{else} \end{cases} = 109.678\ kip$$

Eq. 6.13.2.11-1/-2
AASHTO LRFD

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<u>Find tension in bolts:</u>
-say bolts spaced 6" apart
-moment = force couple

$$F_{bolt} := \frac{M_{bolt}}{6\ in} = 27.087\ kip$$

$$check := \begin{array}{l} \text{if } T_n > F_{bolt} \\ \quad \text{"Good"} \\ \text{else} \\ \quad \text{"Check bolts"} \end{array} = \text{"Good"}$$

Use (4) 7/8" A325 bolts in a 6"x6" layout.

Check Spacing:

$$min := 3 \cdot D_{bolt} = 2.625\ in$$

$$max := 4\ in + 4\ t_f = 6.02\ in$$

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Check if shackle okay for shear block failure:

$t_{flange} := 0.505\ in$

$d_{hole} := 1\ in$

$P_f = 14.34\ kip$ assume 90 degree pull, conservative.

Try: Bolt 2.5" from edge of

Use ASD Table I-G

$A_v := 2.5\ in \cdot t_{flange} = 1.263\ in^2$

$F_u := 65\ ksi$

$A_t := 0\ in^2$

$R_{BS} := 0.3 \cdot A_v \cdot F_u + 0.5\ A_t \cdot F_u$ ("From AISC ASD Sect. J4")

$R_{BS} = 24.619\ kip$

$check := \text{if } R_{BS} > P_f$ = "Good"
"Good"
else
"Check Shackle"

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Check HP 14x73 pile capacity for HLT150 loaded with FA-AB4 at max radius

Load per pile:

$P := 93.9\ kip$ from BeamBoy, conservative because analyzed as if only rear and front most outriggers in use

Piles driven to rock:
-Analyze as a totally unbraced section

$P_{LL} := P \cdot LL = 164.325\ kip$
$L_1 := 18\ ft$ depth to bedrock, from Contract Details Boring Log
$E := 29000000\ psi$
$A_{pile} := 21.4\ in^2$
$r_{yy} := 3.49\ in$
$k_1 := 1.20$
$F_y := 50000\ psi$
$\varphi_{cm} := 0.7$

Weak Axis Axial Compression

$$P_{ey1} := \frac{\pi^2 \cdot E}{\left(k_1 \cdot \frac{L_1}{r_{yy}}\right)^2} \cdot A_{pile} = 1110.43\ kip$$

Elastic Flexural Buckling Resistance AASHTO 6.9.4.1.2

$Q := 1.0$

$P_o := Q \cdot A_{pile} \cdot F_y = \left(1.07 \cdot 10^3\right)\ kip$

$$\frac{P_{ey1}}{P_o} = 1.038$$

Pe/Po > 0.44

$$P_{ny1} := \left(0.658^{\left(\frac{P_o}{P_{ey1}}\right)}\right) \cdot P_o = 714.87\ kip$$

$P_{r1} := \varphi_{cm} \cdot P_{ny1} = 500.41\ kip$

$check :=$ if $P_{r1} > P_{LL}$ | "Pile Capacity Okay"
else | "Check Pile Capacity"

$= $ "Pile Capacity Okay"

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Check steel plate on driven HP 14x73 in bending:

4'x4'x1" plate
Use an outrigger area of 2'x2'
Analyze on a per inch basis

Calculate bending stress:
-Analyze as a canteliever with outrigger distributed load
-Edge of HP-beam acts as support

$$w := \frac{P_{LL}}{(2\ ft \cdot 2\ ft)} = 0.285\ ksi$$

$$M_B := w \cdot 5.2\ in \cdot \frac{5.2\ in}{2} \cdot 1\ in = 3.857\ in \cdot kip$$

Calculate capacity:

$f_y := 36\ ksi$ $\quad b := 1\ in$
$\quad h := 1\ in$

$$S_x := \frac{b \cdot h^2}{6}$$

$$M_y := S_x \cdot f_y$$

$$M_y = 6\ in \cdot kip$$

$$check := \begin{array}{l} \text{if } M_y > M_B \\ \quad \text{"Good"} \\ \text{else} \\ \quad \text{"Check Plate"} \end{array} = \text{"Good"}$$

Check Crane outrigger placement tolerance:

$$L_{max} := \sqrt{\frac{2 \cdot M_y}{w \cdot 1\ in}} = 6.486\ in$$

Therefor: Crane outrigger must be placed directly on top of pile +/- 1 inch.

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Check Welded Push-Pull System:

-Design for FA-AB4
-Use HP 14x73 w/ 6" weld to steel plates on piles
-Same shackle, chain, and binder set-up as other system

$M_{res} := 57.88\ kip \cdot 1.5\ ft$ Dead load resisting moment of abutment

$P := \frac{M_{res}}{7\ ft} = 12.403\ kip$ Force Req'd to adjust abutment

$P_f := \frac{(P \cdot DL)}{2} = 7.752\ kip$ Two HP 14x73 sections

Note: Chain, shackles, and binders must all have a minimum of a 6 ton capacity.

Determine Point of Fixity:

$E_p := 29000\ ksi$

$I_w := 0.0126\ ft^4$ Moment of interia, weak axis

$n_h := 1.11$ Table C10.4.6.3-2

$y_{fix} := 1.8\ ft \cdot \left(\frac{\frac{E_p}{ksi} \cdot \frac{I_w}{ft^4}}{n_h} \right)^{0.2}$ Eq. C10.7.3.13.4-2, LRFD

$y_{fix} = 5.738\ ft$

Force will be applied directly to top of pile:

$P_{r1} = 500.411\ kip$ Axial Pile Resistance

$R_b := 1$
$R_h := 1$

$P := 93.9\ kip$ Axial Load

$F_{yc} := 50\ ksi$

$\frac{P}{P_{r1}} = 0.188$

$M_{ux} := P_f \cdot y_{fix} = 44.48\ kip \cdot ft$

$\lambda_{rf} := 0.56 \cdot \sqrt{\frac{E_p}{0.7 \cdot F_{yc}}}$ Eq. 6.10.8.2.2-4 LRFD

$b_{fc} := 14.6\ in$ $t_{fc} := 0.505\ in$

$S_y := 35.8\ in^3$

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$\lambda_f := \frac{b_{fc}}{2 \cdot t_{fc}} = 14.455$

$\lambda_{pf} := 9.2$ Table C6.10.8.2.2-1

$S_x := 107\ in^3$

$$F_{mc} := \begin{cases} R_b \cdot R_h \cdot F_{yc} & \text{if } \lambda_f \le \lambda_{pf} \\ \left(1 - \left(1 - \frac{F_{yc}}{R_h \cdot F_{yc}}\right) \cdot \left(\frac{\lambda_f - \lambda_{pf}}{\lambda_{rf} - \lambda_{pf}}\right)\right) \cdot R_b \cdot R_h \cdot F_{yc} & \text{else} \end{cases} = 50\ ksi$$

Eqs. 6.10.8.2.2-(1/2) LRFD

$M_{rx} := F_{mc} \cdot S_y = 149.167\ kip \cdot ft$

$$check := \begin{cases} \frac{P}{2 \cdot P_{r1}} + \left(\frac{M_{ux}}{M_{rx}}\right) & \text{if } \frac{P}{P_{r1}} < 0.2 \\ \frac{P}{P_{r1}} + \frac{8}{9} \cdot \left(\frac{M_{ux}}{M_{rx}}\right) & \text{else} \end{cases} = 0.392$$

Eqs. 6.9.2.2-(1/2) LRFD

$$check2 := \begin{cases} \text{“Good”} & \text{if } check < 1.0 \\ \text{“Check Flexure”} & \text{else} \end{cases} = \text{“Good”}$$

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Check Fillet weld connection:

-Weld HP 14x73 braces to bearing steel plates under HL-150 outrigers

$P_f = 7.752\ kip$

$\phi_{e2} := 0.8$

$F_{exx} := 70\ ksi$

$R_r := 0.6 \cdot \phi_{e2} \cdot F_{exx} = 33.6\ ksi$ Eq. 6.13.3.2.4b-1 LRFD

$L_{weld} := 6\ in$

$W_{weld} := \frac{5}{16}\ in \cdot 0.707 = 0.221\ in$ 6.13.3.4 LRFD

$A_{weld} := L_{weld} \cdot W_{weld} = 1.326\ in^2$

$P_r := 2 \cdot (A_{weld} \cdot R_r) = 89.082\ kip$ 2 welds on each HP 14x73

$$check := \begin{cases} \text{if } P_r > P_f \\ \quad \text{"Good"} \\ \text{else} \\ \quad \text{"Check Weld"} \end{cases} = \text{"Good"}$$

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Check if shackle okay for shear block failure:

-For FA-AB4 shackle connection

$t_{flange} := 0.505\ in$

$d_{hole} := 1\ in$

$P_f = 7.752\ kip$ assume 90 degree pull, conservative.

Try: Bolt 2.5" from edge of

Use ASD Table I-G

$A_v := 2.5\ in \cdot t_{flange} = 1.263\ in^2$

$F_u := 65\ ksi$

$A_t := 0\ in^2$

$R_{BS} := 0.3 \cdot A_v \cdot F_u + 0.5\ A_t \cdot F_u$ ("From AISC ASD Sect. J4")

$R_{BS} = 24.619\ kip$

$$check := \begin{cases} \text{if } R_{BS} > P_f \\ \quad \text{"Good"} \\ \text{else} \\ \quad \text{"Check Shackle"} \end{cases} = \text{"Good"}$$

BEAMBOY V2.2 REPORT

HLT 150 Reactions

LOAD CONFIGURATION

Point Loads

A) 28900 lb., x=0 ft.
B) 8750 lb., x=64.9 ft.
C) 20800 lb., x=67 ft.
D) 6000 lb., x=76.4 ft.

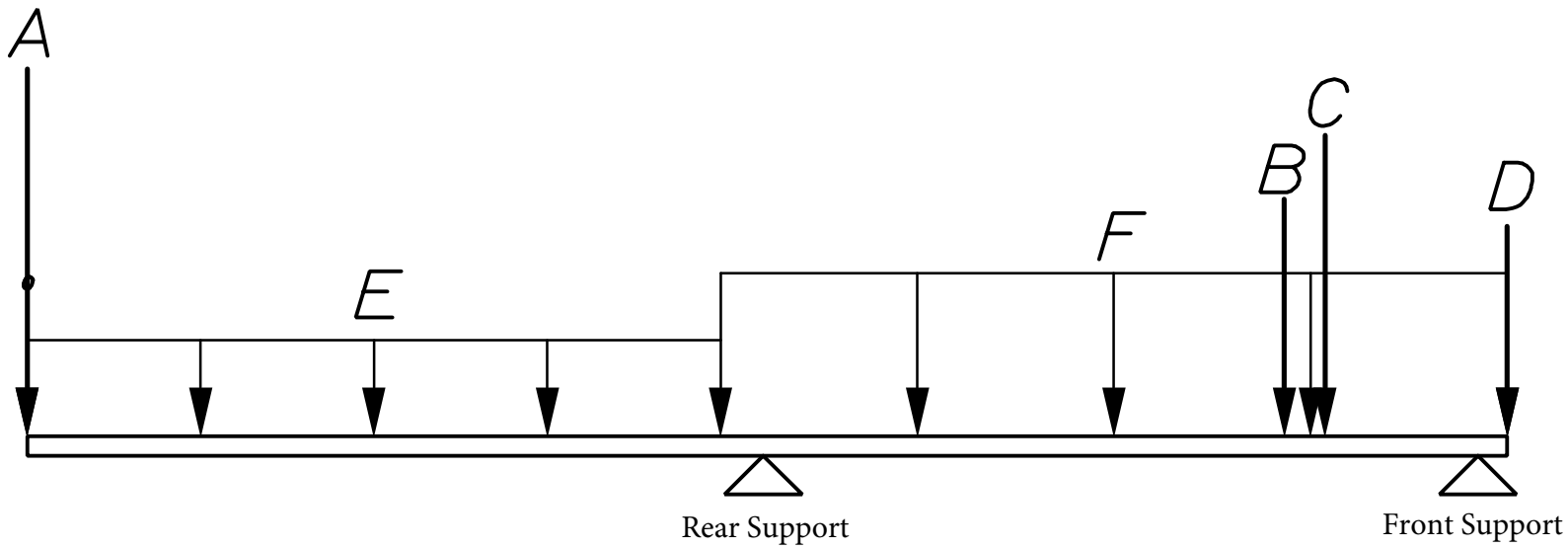
Distributed Loads

E) Start=131 lb./ft., x=0 ft.; End=131 lb./ft., x=35.8 ft.
F) Start=1020 lb./ft., x=35.8 ft.; End=1020 lb./ft., x=76.4 ft.

Supports

Rear Support: Simple support; 38 ft., Reaction=93900 lb.
Front Support: Simple support; 74.9 ft., Reaction=16800 lb.

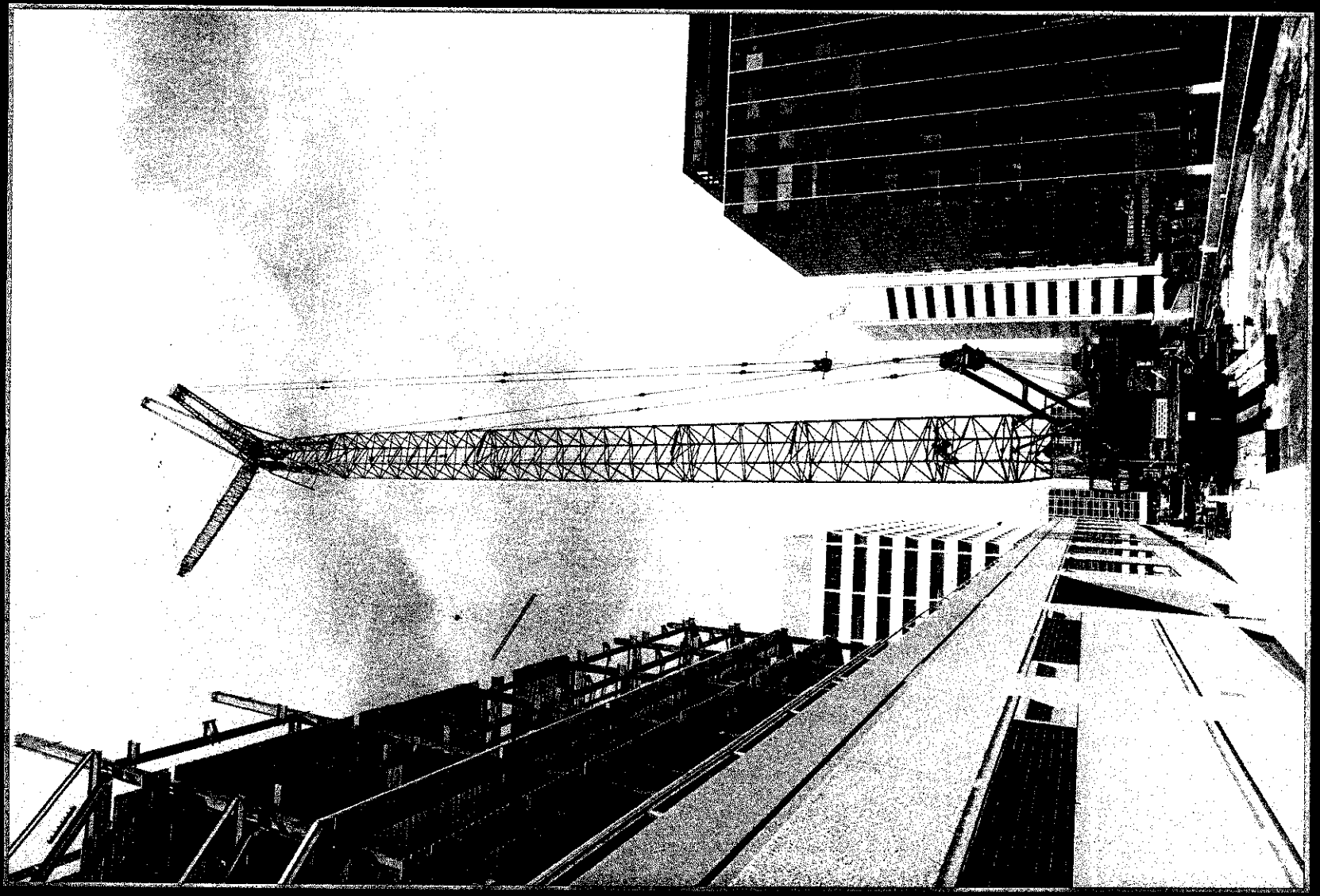
4/21/2015



HLT 150 LOADING

HL150T

Lattice Boom Truck Crane Specifications



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Superstructure specifications

Boom 68A	General purpose, optimized for straight boom or boom and fixed jib operations, consisting of basic 50 ft. (15.2m) boom (25 ft. [7.6m] base, 25 ft. [7.6m] point). Open throat point section is equipped with six sheaves mounted on heavy duty roller bearings, offset for improved throat clearance, 22 in. (559mm) pitch diameter. Boom extensions are 10 ft. (3m), 20 ft. (6.1m) and 40 ft. (12.2m) in length. Maximum boom length is 280 ft. (85.3m). Overall boom cross section dimensions are 68 in. (1727mm) deep by 76 in. (1930mm) wide. May be fitted with optional 32A fixed jib or 4 ft. (1.2m) auxiliary sheave point.
Boom 76A	More versatile, larger and heavier than 68A boom, may be fitted with 32A fixed jib or 46A luffing jib assembly. 76A basic 50 ft. (15.2m) boom consists of two piece 25 ft. (7.6m) base and 25 ft. (7.6m) point section. Boom point section is equipped with six sheaves mounted on heavy duty roller bearings, offset for improved throat clearance, 22 in. (559mm) pitch diameter. Maximum boom length is 240 ft. (73.2m). Boom extensions are 10 ft. (3m), 20 ft. (6.1m) and 40 ft. (12.2m) in length. Overall boom cross section is 76 in. (1930mm) deep by 89 in. (2261mm) wide. Wind speed monitor with audible warning.
Mast Assembly	27 ft. (8.2m) Live Mast equipped with 23 in. (584mm) pitch diameter roller bearing sheaves. Can be used as auxiliary lifting boom with standard component handling equipment, for self erection of machine counterweights, boom componentry and outrigger assemblies.
32A Fixed Jib	Maximum length is 90 ft. (27.4m) variable in 20 ft. (6.1m) increments to basic 30 ft. (9.1m) length consisting of 15 ft. (4.6m) base and 15 ft. (4.6m) point section. This jib may be mounted on the 68A boom and the 76A boom utilizing an adaptor assembly. Jib overall cross section is 32 in.(813mm) deep by 38 in. (965mm) wide.
46A Luffing Jib (For 76A Boom Only)	Four piece 80 ft. (24.4m) basic jib consisting of 20 ft. (6.1m) base, two 20 ft. (6.1m) jib extensions and 20 ft. (6.1m) tip section. Maximum jib length is 160 ft. (48.8m). Cross section dimensions are 46 in. (1168mm) deep and 59 in. (1499mm) wide. Includes electronic wind speed indication.
Boom Hoist System	Hydraulic driven dual drum with standard ratchets and pawls, enclosed multi-disc wet brake spring set, hydraulically released. Drums utilize 1 in. (25.4mm) wire rope and have a pitch diameter of 23 in. (584mm). 10 part reeving standard, optional 12 part reeving necessary for 76A boom and 46A luffing jib operation. Gantry and mast utilize 23 in. (584mm) pitch diameter sheaves with anti-friction bearings. Automatic boom hoist kickout at 81 degrees.
Load Moment & Anti-Two Block System	Standard load moment and anti-two block system with audio-visual warning and control lever lockout. These systems provide electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition.
Cab	Full vision, steel fabricated with acoustical lining and tinted safety glass throughout. Sliding left side door, sliding right side window for ventilation. Hinged skylight with electric wiper. Full engine instrumentation with fuel gauge and audio/visual warning system for all important machine functions. Fabric seat with short stroke levers at arm rest positions. Seat tilts back 10 degrees for increased high boom angle visibility.
Engine	Detroit Diesel 6V-92TA, V-6, 2 cycle, turbocharged and after cooled, 552 cu. in. (9.0 liter), 345 HP (257 kw) (Gross) @ 2100 RPM, 330 HP (246 kw) (SAE NET) @ 2100 RPM.
Optional Engine	Cummins LTA10-C325 six cylinder turbocharged and after cooled diesel, 611 cu. in. (10 liter), 325 HP (242 kw) (Gross) @ 2100 RPM. Maximum torque 975 ft. lbs. (1450 kg/m) @ 1300 RPM.
Fuel Tank Capacity	85 gallons (322 liter)
Swing	Ball bearing swing circle with 360° continuous rotation. Planetary glide swing with static holding multi-disc wet brake actuated with brake hold button on control lever and/or switch operated parking brake. Rotation is stopped by back plugging swing controller. Plunger type, 2 position, mechanical house lock. Maximum speed: 2.5 rpm.
Counterweights	Two piece totaling 59,000 lbs. (26762 kg). Counterweight "A" equals 17,500 lbs. (7938 kg), and counterweight "C" equals 41,500 lbs. (18825 kg). Counterweights hook on for quick and easy handling.

Superstructure specifications (continued)

HYDRAULIC SYSTEM

Pumps	Four main pumps, one for each function: front hoist, rear hoist, boom hoist, and swing. All main pumps are variable displacement axial piston type. Pumps driven by common gearbox with disconnect clutch.
Controls	Short stroke low pressure hydraulic controllers stroke pumps to determine direction and speed of each function.
Filtration	100% 7 micron filtration of charge and control pressure circuits.
Reservoir	75 gallon (284 liter) capacity with internal diffusers and magnets. Electric fill pump with spin-on filter cartridge provided.
Oil Cooler	Remote mounted with thermostatically controlled hydraulic motor powered fan. High oil temperature warning light provided in operator's cab.

HOIST SPECIFICATIONS

	Power up and down 2 speed operation standard with ratchet and pawl. Semi-automatic hoist brake feature with free fall to 10,000 lbs. (4535 kg) capacity on foot operated caliper brake pedals. Electronic hoist drum rotation indicators.
MAKE/MODEL	Front and Rear Hoists Grove HO60-29
Drum Dimensions	21 in. (533mm) diameter 29 in. (737mm) length 35 in. (889mm) flange diameter

Line Pull and Line Speed Combinations (4th Layer)

Based on Maximum Permissible Single Line Pull of 29,500 lbs. (13,381 kg) for 1 in. (25.4mm) diameter wire rope - main hoist drums only.

Low Speed Mode

Single Line Pull		Speed	
Pounds	**Kilograms**	**FPM**	**m/min.**
29,500	13381	185	56.4
25,000	11340	220	67.1
20,000	9072	240	73.1
15,000	6804	250	76.2
10,000	4536	255	77.7
5,000	2268	260	79.2
1,000	454	260	79.2

High Speed Mode

Single Line Pull		Speed	
Pounds	**Kilograms**	**FPM**	**m/min.**
15,000	6804	320	97.5
12,500	5670	390	118.9
10,000	4536	455	138.7
7,500	3402	485	147.8
5,000	2268	500	152.4
2,500	1134	515	157.0
1,000	454	520	158.5

Maximum Permissible Line Pull Based On	1 in. dia. (25.4mm) 6 x 25 w/3.5:1 F.O.S. 29,500 lbs. (13381 kg) 1 in. dia. (25.4mm) 18 x 19 w/5:1 F.O.S. 22,760 lbs. (10324 kg) 25 mm (0.984 in.) 34 x 7 w/5:1 F.O.S. 27,170 lbs. (12325 kg)
Rope Stowage	Usable - 1,190 ft. (363m) Stowable - 1,440 ft. (439m)
Third Hoist	Luffing jib hoist, power up and down, 2 speed operation standard with ratchet and pawl, enclosed multi-disc wet brake, spring set hydraulically released. Drum utilizes 3/4 in. (19mm) dia. wire rope. Stowable capacity - 790 ft. (241m). Recommended length - 680 ft. (207m), required for luffing jib.

***Denotes optional equipment.**

Carrier specifications

Frame	High strength alloy steel, triple box rear section and channel front section, all welded, with machined surface for turntable bearing.
Bumper Counterweight	Counterweight "L", one piece - 12,000 lbs. (5443 kg). Pin connected to front of carrier, power removed and installed with mast component handling equipment. (Refer to capacity chart for counterweight requirements).
HYDRAULIC SYSTEM	
Pump	Single vane type pump driven by carrier engine provides flow to the steer and outrigger circuits.
Filter	Return line type, full flow with bypass protection and filter bypass indicator, replaceable 25 micon cartridge, remote mounted.
Reservoir	35 gallon (132.5 liters) capacity with spin on breather, external sight gauges, clean out access, internal diffusers and magnet.
Outrigger System	Hydraulic single stage double box telescopic beam and jack outriggers with integral holding valves. Removable, pinned to carrier frame. Mid frame box equipped with tilting jack and suspended on integral rail, allowing box to roll out from under frame. Standard 5th vertical jack mounted to the front center section to permit 360° lifting capacities. *Optional mechanical outrigger spin locks, for main jacks only. *Optional rear stabilizing jacks, for erecting certain boom lengths (Refer to capacity charts for rear stabilizer requirements). All steel fabricated quick release type outrigger floats 30.5" (775mm) diameter for main jacks, 24" (610mm) diameter for front jack and rear stabilizers.
Outrigger Controls	Located on both sides of carrier. Controls provided for beam and jack extension/retraction as well as engine speed.
Engine	Detroit Diesel 6V-92TA, V6, 2 cycle, turbocharged and after cooled, 552 cu. in. (9.0 liter), 335 HP (250 kw) (Gross) @ 2100 RPM, 304 HP (227 kw) (SAE NET) @ 2100 RPM.
***Optional Engine**	Cummins N14-460E, six cylinder turbocharged and after cooled diesel. 855 cu. in. (14 liter), 460 HP (343 kw) @ 1600 RPM, 350 HP (261 kw) @ 2100 RPM Maximum torque 1550 ft. lbs. (2102 kg/m) @ 1200 RPM with engine brake and audio-visual engine distress system.
Fuel Tank Capacity	100 gallons (379 liters).
Electrical	Four 12 volt - maintenance free batteries, 750 CCA @ 0 degrees F. 24 volt starting. 90 amp alternator.
Drive	8 x 4
Steering	Front axle steering, gear type with hydraulic assist.
Transmission	Fuller gearbox with 9 speeds forward and 2 reverse, with 2 speed auxiliary.
Axles	Axles 1 & 2, steering, tubular steel, 115.4 in. (2931mm) track. Axles 3 & 4, single reduction drive, 100 in. (2540mm) track.
Suspension	Front axles (1 & 2) spring mounted tandem. *Optional hydraulic spring suspension lockout system. Rear axles (3 & 4) solid mount tandem with equalizing beam and solid steel saddles.
Tires	14.00x24-20PR highway tread, tube type-front and rear. *14.00R24-20PR radial, tube type - front and rear. *16.00R21-22PR radial, tubeless type - front only.
Brakes	Full air on all wheels. Air dryer provided to preclude moisture accumulation. Spring set, air released emergency/parking brake on both rear axles.
Lights	Full lighting including head, tail, braking, reversing, directional and hazard warning lights.
Cab	One man design, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe fabric covered fully adjustable seat. Complete driving controls with full engine instrumentation, low air A/V warning system, air circulating fan, heater, defroster, windshield washer/wiper, sliding right side window, roll up left side window, fire extinguisher and seat belt.

SPEED AND GRADEABILITY
90,000 LBS. (40824 kg) GVW

SPEED RANGES AT MAXIMUM GOVERNED RPM		% GRADEABILITY AT MAXIMUM TORQUE	
AUXILIARY LOW	AUXILIARY DIRECT	AUXILIARY LOW	AUXILIARY DIRECT
1.8 to 23.2 mph (2.9 to 37.3 kph)	3.7 to 48 mph (6.0 to 77.2 kph)	72.3 to 4.3%	34.7 to 1.3%

NOTE: Performance data based on 90,000 lbs. (40824 kg) GVW, standard engine, transmission, axles and 14:00x24-20PR tires. Performance data may vary ± 10% due to variations in engine performance and vehicle weights.

Miscellaneous Standard Equipment	Tire inflation kit, mud flaps, pressure protected air system, outrigger controls (on both sides of carrier) outrigger pad storage, cold start aid (less canister), engine distress A/V warning system, air cleaner service indicator, air dryer, air horn, front tow loops, west coast mirrors (both sides), pump disconnect, hoist drum rotation indicators and back up alarm.

Miscellaneous Optional Equipment	Jacobs engine brake, cold weather package, front suspension lockout, hydraulic powered foot pins, auxiliary rear stabilizers, mechanical outrigger spinlocks, rigging box, 360° swing lock, rotating beacon, boom mounted floodlights, extendible work platforms (both sides of superstructure), component handling assembly and third hoist.

***Denotes optional equipment.**

AXLE LOADINGS AND WEIGHTS - (APPROXIMATE)

Quick Reference Combinations	(Boom Foot Pins to Rear)			(Boom Foot Pins to Front)	
Road Travel Configurations	Front Axles	Rear Axles	GVW	Front Axles	Rear Axles
A. Std. Machine with Boom Hoist Rope - No Mast. Bridle is at Boom Foot. No Outrigger Boxes, Counterweights, Boom Stops or Boom, Full Fuel Tanks	41,615 lbs. (18876 kg)	41,417 lbs. (18787 kg)	83,032 lbs. (37663 kg)	19,887 lbs. (9021 kg)	63,145 lbs. (28642 kg)
B. ADD: Mast and 1,000 ft. (305m) of Hoist 1 in. rope to Front and Rear Hoist Drums	39,131 lbs. (17750 kg)	50,233 lbs. (22786 kg)	89,364 lbs. (40536 kg)	23,156 lbs. (10504 kg)	66,208 lbs. (30032 kg)
C. ADD: 25 ft. (7.6m) 68A Boom Base Section with Component Handling Option	37,824 lbs. (17157 kg)	56,093 lbs. (25444 kg)	93,917 lbs. (42600 kg)	26,306 lbs. (11932 kg)	67,611 lbs. (30668 kg)
D. ADD: 25 ft. (7.6m) 76A Boom Base Section with Component Handling Option in lieu of Item C	34,551 lbs. (15672 kg)	62,314 lbs. (28265 kg)	96,865 lbs. (43937 kg)	30,765 lbs. (13955 kg)	66,100 lbs. (29982 kg)
E. Complete Std. Crane with 50 ft. (15.2m) 68A Basic Boom	107,090 lbs. (48576 kg)	76,470 lbs. (34687 kg)	183,560 lbs. (83263 kg)	26,725 lbs. (12122 kg)	156,835 lbs. (71140 kg)
F.. Complete Std. Crane with 50 ft. (15.2m) 76A Basic Boom	98,943 lbs. (44880 kg)	92,247 lbs. (41842 kg)	19,190 lbs. (86722 kg)	36,621 lbs. (16611 kg)	154,569 lbs. (70111 kg)

WEIGHT ADJUSTMENTS FOR COMPLETE STANDARD CRANE WITH 50 FT. (15.2m) 68A OR 76A BASIC BOOM - ITEMS E OR F

Quick Reference Combinations	(Boom Foot Pins to Rear)			(Boom Foot Pins to Front)	
Road Travel Configurations	Front Axles	Rear Axles	GVW	Front Axles	Rear Axles
REMOVE:					
Counterweight "A"	-15,937 lbs. (-7229 kg)	-1,563 lbs. (-709 kg)	-17,500 lbs. (-7938 kg)	8,878 lbs. (4027 kg)	-26,378 lbs. (-11965 kg)
Counterweight "C"	-41,151 lbs. (-18666 kg)	-349 lbs. (-158 kg)	-41,500 lbs. (-18824 kg)	24,412 lbs. (11073 kg)	-65,912 lbs. (-29898 kg)
Bumper Counterweight "L"	-18,841 lbs. (-8546 kg)	6,841 lbs. (3103 kg)	-12,000 lbs. (-5443 kg)	-18,841 lbs. (-8546 kg)	6,841 lbs. (3103 kg)
Boom Point Section (68A)	8,974 lbs. (4070 kg)	-13,100 lbs. (-5942 kg)	-4,126 lbs. (-1872 kg)	-10,638 lbs. (-4825 kg)	6,512 lbs. (2953 kg)
Boom Base Section (68A)	2,151 lbs. (976 kg)	-5,335 lbs. (-2420 kg)	-3,184 lbs. (-1444 kg)	-3,435 lbs. (-1558 kg)	251 lbs. (114 kg)
Boom Point Section (76A)	14,586 lbs. (6616 kg)	-21,206 lbs. (-9619 kg)	-6,620 lbs. (-3002 kg)	-17,256 lbs. (-7827 kg)	10,636 lbs. (4825 kg)
Boom Base Section (76A) (Include 10' Ext.)	3,750 lbs. (1700kg)	-9,880 lbs. (-4481 kg)	-6,130 lbs. (-2780 kg)	-6,225 lbs. (-2823 kg)	95 lbs. (43 kg)
Front Outrigger Box Assembly with Pads	-5,620 lbs. (-2549 kg)	-2,585 lbs. (-1173 kg)	-8,205 lbs. (-3722 kg)	-5,620 lbs. (-2549 kg)	-2,585 lbs. (-1173 kg)
Rear Outrigger Box Assembly with Pads	2,571 lbs. (1166 kg)	-11,071 lbs. (-5022 kg)	-8,500 lbs. (-3856 kg)	2,571 lbs. (1166 kg)	-11,071 lbs. (-5022 kg)
Mast	2,345 lbs. (1064 kg)	-5,128 lbs. (-2326 kg)	-2,783 lbs. (-1262 kg)	-3,467 lbs. (-1573 kg)	684 lbs. (310 kg)
Bridle	1,639 lbs. (743 kg)	-2,982 lbs. (-1353 kg)	-1,343 lbs. (-609 kg)	-2,181 lbs. (-989 kg)	838 lbs. (380 kg)
Boom Stops	-223 lbs. (-101 kg)	-509 lbs. (-231 kg)	-732 lbs. (-332 kg)	-73 lbs. (-33 kg)	-659 lbs. (-299 kg)
Outrigger Pads (5)	-86 lbs. (-39 kg)	-353 lbs. (-160 kg)	-439 lbs. (-199 kg)	-86 lbs. (-39 kg)	-353 lbs. (-160 kg)
Front Hoist Assembly	-665 lbs. (-302 kg)	-3,465 lbs. (-1572 kg)	-4,130 lbs. (-1873 kg)	-665 lbs. (-302 kg)	-3,465 lbs. (-1572 kg)
Rear Hoist Assembly	-1,498 lbs. (-679 kg)	-2,673 lbs. (-1212 kg)	-4,171 lbs. (-1892 kg)	-184 lbs. (-83 kg)	-3,987 lbs. (-1809 kg)
ADD:					
Cummins Engines	1,440 lbs. (653 kg)	-290 lbs. (-131 kg)	1,150 lbs. (522 kg)	1,440 lbs. (653 kg)	-290 lbs. (-131 kg)
Front Hoist Rope (1,000 ft.)	373 lbs. (169 kg)	1,477 lbs. (670 kg)	1,850 lbs. (839 kg)	373 lbs. (169 kg)	1,477 lbs. (670 kg)
Rear Hoist Rope (1,000 ft.)	643 lbs. (292 kg)	1,207 lbs. (548 kg)	1,850 lbs. (839 kg)	103 lbs. (47 kg)	1,747 lbs. (792 kg)
Third Hoist Assembly (76A)	220 lbs. (100 kg)	2,158 lbs. (979 kg)	2,378 lbs. (1079 kg)	1,179 lbs. (535 kg)	1,199 lbs. (544 kg)
Third Hoist Rope (76A)	65 lbs. (29 kg)	642 lbs. (291 kg)	707 lbs. (321 kg)	351 lbs. (159 kg)	356 lbs. (161 kg)
Boom Base Component Handling Equipment (68A)	-737 lbs. (-334 kg)	1,184 lbs. (537 kg)	447 lbs. (203 kg)	917 lbs. (416 kg)	-470 lbs. (-213 kg)
Boom Base Component Handling Equipment (76A)	-1,053 lbs. (-477 kg)	1,692 lbs. (767 kg)	639 lbs. (290 kg)	1,311 lbs. (595 kg)	-672 lbs. (-305 kg)
Auxiliary Stabilizers	1,490 lbs. (676 kg)	-470 lbs. (-213 kg)	1,020 lbs. (463 kg)	1,490 lbs. (676 kg)	-470 lbs. (-213 kg)
Outrigger Spinlocks	67 lbs. (30 kg)	293 lbs. (133 kg)	360 lbs. (163 kg)	67 lbs. (30 kg)	293 lbs. (133 kg)
Hydraulic Spring Suspension Lockouts	199 lbs. (90 kg)	91 lbs. (41 kg)	290 lbs. (131 kg)	199 lbs. (90 kg)	91 lbs. (41 kg)
Michelin Tires I.L.O.S.	376 lbs. (171 kg)	752 lbs. (341 kg)	1,128 lbs. (512 kg)	376 lbs. (171 kg)	752 lbs. (341 kg)
Rigging Box	172 lbs. (78 kg)	259 lbs. (117 kg)	431 lbs. (195 kg)	172 lbs. (78 kg)	259 lbs. (117 kg)

Dimensions

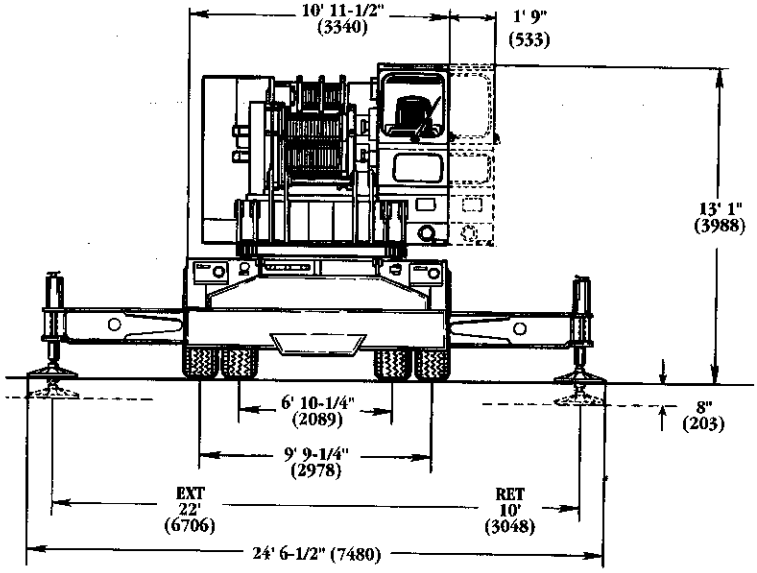
Tailswing

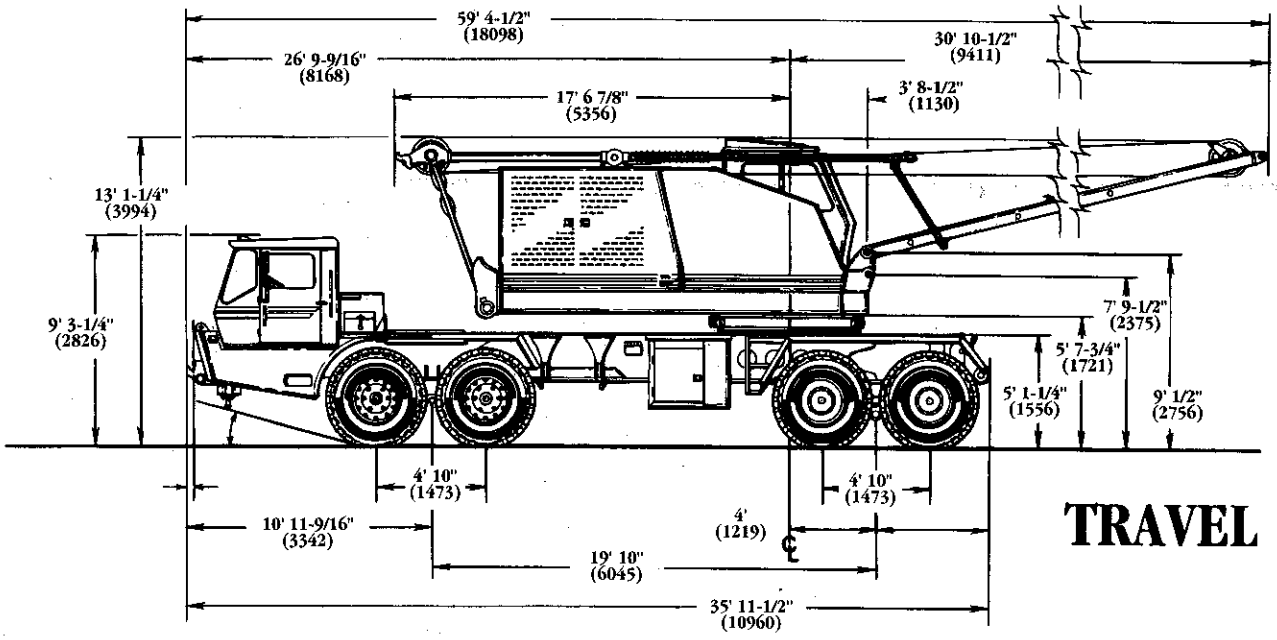
No Counterweight - 14' 1"	(4293)
"A" Counterweight - 14' 11"	(4547)
"C" Counterweight - 17'	(5182)

Turning Clearance

Over Bumper - 53' 3"	(16.3m)
At Curb - 51' 2-1/2"	(15.6m)

REAR

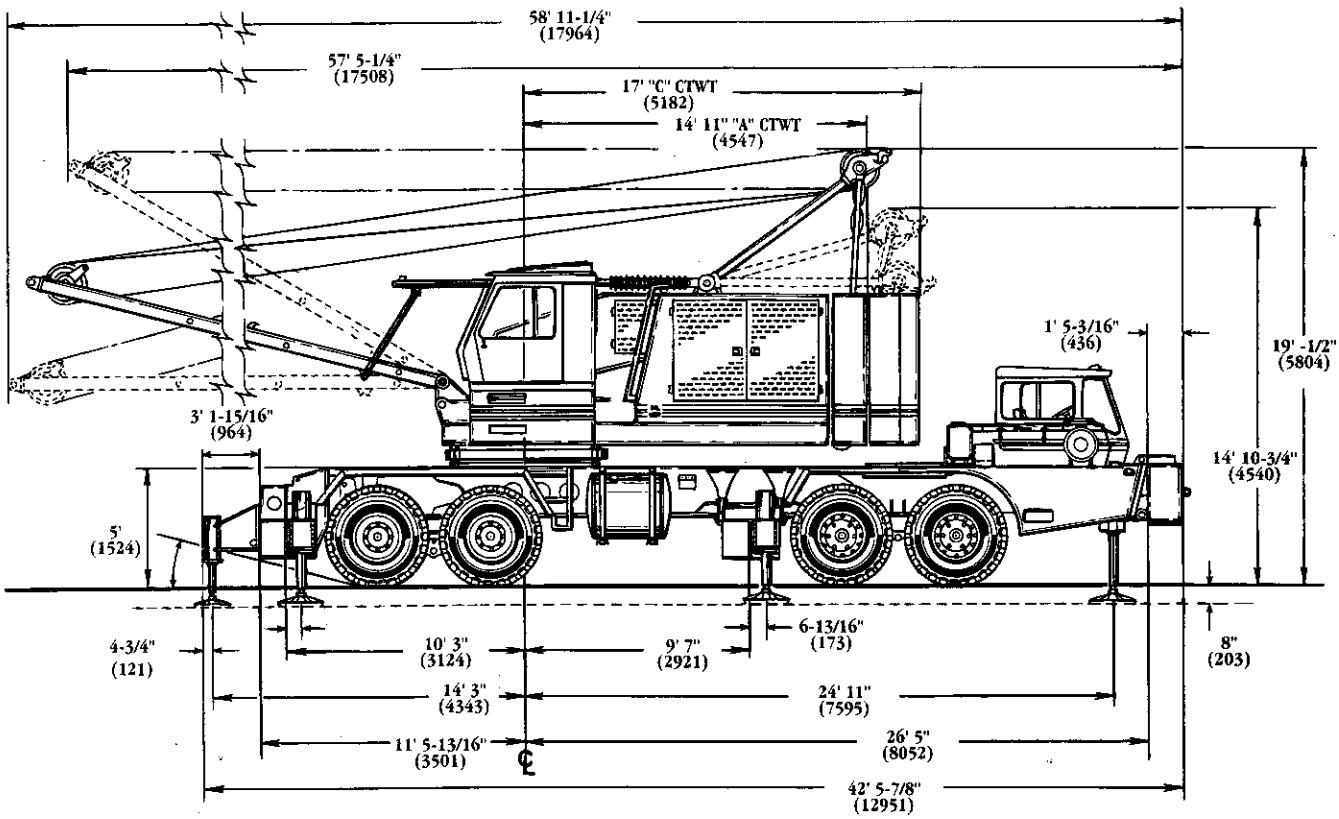




TRAVEL

Dimensions

HL150T



WORKING

Grove Worldwide - World Headquarters
1565 Buchanan Trail East
Shady Grove, Pennsylvania 17256
Phone: (717) 597-8121 Telex: 1842308 Fax: (717) 597-4062

Grove North America
P.O. Box 21, Shady Grove, Pennsylvania 17256
Western Hemisphere, Asia/Pacific
Phone: (717) 597-8121 Telex: 1842308 Fax: (717) 597-4062

Grove Europe*
Sunderland, England SR4 6TT
Europe, Africa, Middle East, Near East
Phone: (091) 565-6281 Telex: 53484 CRANES G Fax: (091) 564-0442

* Grove Europe Limited, Registered in England, Number 1845128, Registered office, Crown Works, Pallion, Sunderland, Tyne & Wear, England SR4 6TT.

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cranes

HL150T

LOAD CHARTS

FOR 76A BOOM (76 X 89)
& 32A JIB (32 X 38)
OR
46A (46 X 59)

85% Stability - On Outriggers
75% Stability - On Rubber

"WARNING: THIS CHART IS ONLY A GUIDE. The Notes inside are for illustration only and should not be relied upon to operate the crane. The individual crane's load chart, operating instructions and other instruction plates must be read and understood prior to operating the crane."

NOTES TO LIFTING CAPACITIES

GENERAL:

1. Rated loads as shown on capacity chart pertain to this crane as originally manufactured and equipped. Modifications to the crane or use of optional equipment other than that specified can result in a reduction of capacity. Use only the jib or boom extension supplied with this crane. Do not substitute jibs or boom extensions without the written approval of Grove Manufacturing Co.
2. Construction equipment can be hazardous if improperly operated or maintained. Operation and maintenance shall be in compliance with the information in the Operator's and Safety Handbook. Service, Parts, and Roading/Rigging manuals supplied with this crane. If these manuals are missing, order replacements from the manufacturer.
3. The operator and other personnel associated with this crane shall fully acquaint themselves with the latest applicable American National Standards Institute (ANSI) Safety Standards for cranes.
4. WARNING! Do not attempt to operate this crane unless you have read and are thoroughly familiar with the Operator's and Safety Handbook, and Roading/Rigging manuals.

SETUP:

1. The crane shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports of sufficient strength under the outrigger floats or tires to spread the load to a larger bearing surface.
2. For outrigger operation, outriggers shall be fully extended to 22 ft. 0 in. (6.7 m) width with tires raised free of crane weight before operating boom or lifting loads.
3. The front jack cylinder shall be set in accordance with the written procedure. See Carrier Operator's Safety Handbook Section 4.
4. With certain boom and hoist tackle combinations, maximum capacities may not be obtainable with standard cable lengths.
5. Rotation resistant wire rope is best suited for single line lifting operations. Consult the wire rope manufacturer for specific recommendations concerning multiple part reeving.
6. Consult the Roading and Rigging Manual for the proper boom-counterweight configuration for jobsite moves.
7. WARNING! Never raise boom from ground, operate boom, or rotate upperstructure without consulting Roading and Rigging manual to assure machine is in proper operating configuration. That is outriggers extended and set, or front axle lockouts engaged, and proper counterweights installed.
8. When lowering boom over rear, caution must be taken to assure boom does not contact carrier deck or rear outrigger. Blocking may be required under boom point.
9. WARNING: Never erect jibs unless outriggers are fully extended to 22 ft. 0 in. (6.7 m) and set.
10. WARNING: When erecting booms longer than 190 ft. (57.9 m) for 68A boom or 220 ft. (67.1 m) for 76A boom, Mid Point Suspension must be installed. Consult Roading/Rigging manual for proper location of mid point suspension.

OPERATION:

1. Rated loads at rated radius shall not be exceeded. Do not tip the machine to determine allowable loads. For clamshell and concrete bucket operation, see respective load charts.
2. All rated loads have been tested to and meet minimum requirements of SAE J-987 Crane Structures - Method of Test, and do not exceed the percentage of the tipping load shown on capacity charts as determined by SAE J-765, Crane Stability Test Code.
3. Rated loads include the weight of hook block, slings and auxiliary lifting devices and their combined weights shall be subtracted from the listed ratings to obtain the net load which may be lifted.
4. Load ratings are based on freely suspended loads. No attempt shall be made to move a load horizontally on the ground in any direction.
5. Rated loads do not account for wind on lifted load or boom. It is recommended when wind velocity is above 20 mph (32 km/h), rated loads and boom lengths be appropriately reduced.
6. Rated loads are for lift crane service only.
7. Do not operate at a radius or boom length where capacities are not listed. At these positions, the crane may over turn without any load on the hook.
8. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
9. For safe operation, the user shall make due allowances for his particular job conditions, such as soft or uneven ground, high winds, pendulum action, jerking or sudden stopping of loads, hazardous conditions, experience of personnel, two machine lifts, traveling with loads, electric wires, etc. Side pull on boom or jib is extremely dangerous.
10. Handling of personnel from the boom is strictly prohibited.
11. Keep load handling devices a minimum of 18 in. (45.7 cm) below head at all times.
12. The boom angle before loading should be greater than the loaded boom angle to account for deflection.
13. Capacities appearing above the bold line or within shaded areas are based on structural strength and tipping should not be relied upon as a capacity limitation.
14. Radii less than 40 ft. (12 m) not recommended when lifting over the front of machine.

DEFINITIONS:

1. Operating Radius: Horizontal distance from a projection of the axis of rotation to the supporting surface before loading to the center of the vertical hoist line or tackle with load applied.
2. Loaded Boom Angle: Is the angle between the boom base section and the horizontal after lifting the rated load at the rated radius with the rated boom length.
3. Working Area: Areas measured in a circular arc about the centerline of rotation as shown on the working area diagram.
4. Freely Suspended Load: Load hanging free with no direct external force applied except by the lift cable.
5. Side Load: Horizontal force applied to the lifted load either on the ground or in the air.
6. No Load Stability Limit: The stability limit radius shown on the range diagram is the radius beyond which it is not permitted to position the boom plus block configuration, because machine can overturn without any load on the hook.

SERIAL NUMBER

HL150T
IDENTIFICATION

LINE PULLS & REEVING INFORMATION

HOISTS	WIRE ROPE SPECIFICATIONS	PERMISSIBLE LINE PULLS
FRONT Model H060A	1 in. 6x19, EIPS, IWRC	29,500 lbs.
REAR Model H060B	1 in. 6x19, EIPS, IWRC	29,500 lbs.
BOOM	1 in. 6x19, EIPS, IWRC	29,500 lbs.
AUXILIARY Model H030C	¾ in. 6x19, EIPS, IWRC	16,800 lbs.

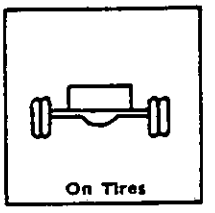
WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

HOOKBLOCKS:

150 Ton 6 Sheave . . .	3,600 lbs.
90 Ton 3 Sheave . . .	2,800 lbs.
30 Ton 1 Sheave . . .	1,200 lbs.
15 Ton Weight Hook . .	1,200 lbs.

NOTE: All Load Handling Devices and Boom Attachments are Considered Part of the Load and Suitable Allowances MUST BE MADE for Their Combined Weights. Weights are for Grove Furnished Equipment.

SYMBOLS



SERIAL NUMBER

HL150T
IDENTIFICATION

LIFTING CAPACITY NOTES
STABILITY - 85% ON OUTRIGGERS - 75% ON TIRES
76A BOOM (76"x89")

GENERAL NOTES FOR BOOM CAPACITY:

1. Rated loads appearing in shaded areas are based on structural strength or other factors and tipping should not be relied upon as a capacity limitation.
2. Rated loads are in pounds and do not exceed 85% of tipping loads on outriggers and 75% of tipping loads on tires as determined by test in accordance with SAE J765 OCT80.
3. Rated loads are applicable only with machine on a firm level surface.

FOR MACHINE ON OUTRIGGERS:

4. Rated loads are applicable only with outriggers fully extended and set with all tires clear of ground.
5. For 360° operation the front jack cylinder must be set in accordance with written procedure. See "Carrier Operator's and Safety Handbook, Section 4".
6. CAUTION: The maximum boom length that can be erected with no counterweight is 110 ft. over side and 120 ft. over rear. Boom lengths longer than those listed below for the specified upper counterweight require 'L' bumper counterweight and/or rear auxiliary stabilizers for erection over rear. Consult "Roading and Rigging Manual" for additional erection information. When the 'L' counterweight is required for erection, it should remain installed on the machine during operation. Refer also to the load chart being used for proper counterweight configuration.

Upper Counterweight	Over Side	Over Rear		
		'L' Counterweight or Auxiliary Stabilizers Boom Length	'L' Counterweight and Auxiliary Stabilizers Boom Length	'L' Counterweight and Auxiliary Stabilizers Maximum Allowable Boom
A	130 ft.	140 ft.	170 ft.	190 ft
A+C	190 ft.	190 ft.	210 ft.	240 ft.

Auxiliary stabilizers are to be used for erection only and not to increase capacity. With auxiliary stabilizers in place and set, tipping should not be relied upon as a capacity limitation over the rear.

FOR MACHINE ON TIRES (STATIONARY):

4. Rated loads are applicable to machine equipped with 14:00 x 24 (20 ply) bias ply tires at 115 psi cold inflation pressure or radial ply tires at 120 psi cold inflation pressure or 16:00 x21 (22 ply) radial ply tires at 85 psi cold inflation pressure.
5. All lifting depends on proper tire inflation, capacity, and condition. Rated loads must be reduced for lower tire inflation pressures. Damaged tires are hazardous to safe operation of crane.
6. Rated loads are for a stationary machine. Do not travel with loads.
7. Front axles must be locked on both axles before lifting on tires over side or front.
8. CAUTION: Boom lengths longer than those listed below for the specified upper counterweights require lowering of the outriggers for erection.

Upper Counterweight	Erection Over Side	Erection Over Rear	Erection (Requires Outriggers) Maximum Allowable Boom Length
None	50 ft.	70 ft.	110 ft.
A	70 ft.	90 ft.	130 ft.
A+L	Not Allowed	110 ft.	130 ft.

FOR MACHINE ON TIRES (PICK & CARRY):

4. Rated loads are applicable to machine equipped with 14:00 x 24 (20 ply) bias ply or radial tires at 100 psi cold inflation pressure or 16:00 x 21 (22 ply) radial ply tires at 85 psi cold inflation pressure.
5. All lifting depends on proper tire inflation, capacity and condition. Rated loads must be reduced for lower tire inflation pressures. Damaged tires are hazardous to safe operation of crane.

6. For pick and carry operation, boom must be centered over rear of machine, mechanical swing lock engaged, and load restrained from swinging. When handling loads in the structural range with capacities close to maximum rating, travel should be reduced to creep speeds.
7. Creep - not over 200 ft. (61 m) of movement in any 30 minute period and not exceeding 1 mph (1.6 kph).

MACHINE ON OUTRIGGERS EQUIPPED WITH A JIB:

1. Rated loads appearing in jib chart in shaded areas are based on factors other than those which would cause a tipping condition and are the maximum allowable under ideal job conditions. Tipping should not be relied upon as a capacity limitation.
2. Rated loads are shown in pounds and do not exceed 85% of tipping loads a determined by test in accordance with SAE J765 OCT80.
3. Rated loads are applicable only with machine on a firm level surface.
4. Rated loads are applicable only with outriggers fully extended and set with all tires clear of ground.
5. For 360 degree operation the front jack cylinder must be set in accordance with written procedure. See "Carrier Operator's and Safety Handbook, Section 4".

32A JIB (32"x38")

6. CAUTION: Boom-jib combinations longer than those listed below require 'L' bumper counterweight and/or auxiliary stabilizers for erection over rear. Consult "Roading and Rigging Manual" for additional erection information. When the 'L' counterweight is required for erection, it should remain installed on the machine during operation.

Upper Counterweight	Over Side BOOM + JIB Length (ft.)	Over Rear: 'L' Counterweight or Auxiliary Stabilizers BOOM + JIB Length (ft.)	Over Rear: 'L' Counterweight and Auxiliary Stabilizers BOOM + JIB Length (ft.)	Over Rear: 'L' Counterweight and Auxiliary Stabilizers Maximum Allowable BOOM + JIB Length (ft.)
A+C	160 + 30	170 + 30	190 + 30	210 + 30
A+C	160 + 50	160 + 50	180 + 50	210 + 50
A+C	150 + 70	160 + 70	170 + 70	200 + 70
A+C	140 + 90	150 + 90	170 + 90	190 + 90

Auxiliary stabilizers are to be used for erection only and do not increase capacity. With auxiliary stabilizers in place and set, tipping should not be relied upon as a capacity limitation over the rear.

46A JIB (46"x59")*

6. CAUTION: Maximum allowable BOOM + JIB for erection. Consult "Roading and Rigging Manual" for additional erection information.

Upper Counterweight	Over Side 'L' Counterweight BOOM + JIB Length (ft.)	Over Side 'L' Counterweight Min. Boom * Angle for Erection	Over Rear 'L' Counterweight BOOM + JIB Length (ft.)	Over Rear 'L' Counterweight Min. Boom * Angle for Erection	Over Rear 'L' Counterweight and Auxiliary Stabilizers BOOM + JIB Length (ft.)	Over Rear 'L' Counterweight and Auxiliary Stabilizers Min. Boom * Angle for Erection
A+C	120 + 80	35°	140 + 80	35°	170 + 80	36°
A+C	140 + 100	45°	140 + 100	40°	170 + 100	40°
A+C	140 + 120	50°	140 + 120	50°	170 + 120	44°
A+C	140 + 140	60°	140 + 140	55°	170 + 140	50°
A+C			140 + 160	60°	170 + 160	54°

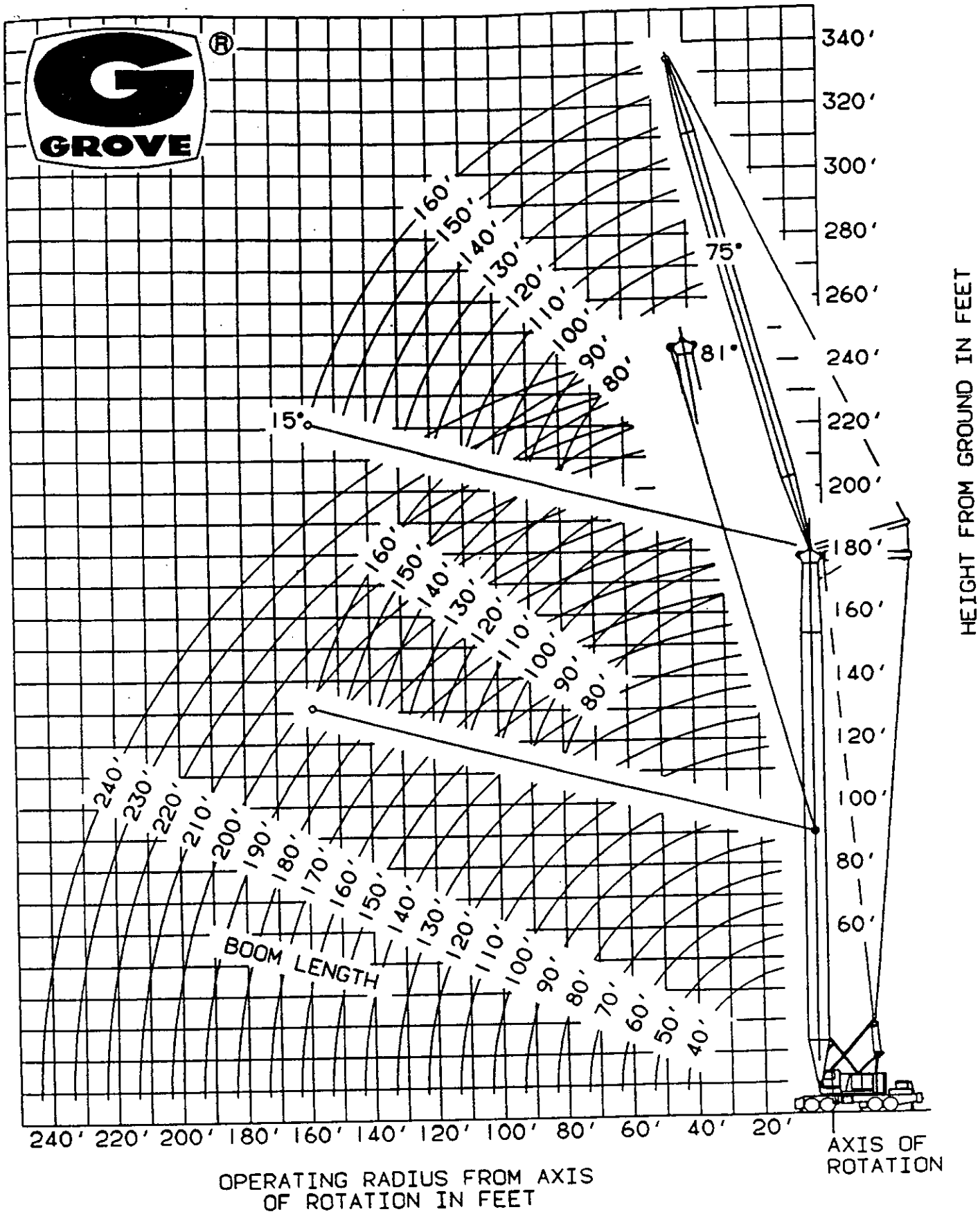
***WARNING!** Jib point must be allowed to roll on the ground until vertical when folded under boom or within 15° of vertical when extended beyond boom before picking jib point from ground. When minimum boom angle for erection is greater than boom angle that jib point leaves ground, boom must be elevated to minimum angle for erection before erecting jib.

7. For 46A JIB, jib length must be a minimum of 10 ft. shorter than boom length to fold the jib under the boom.
8. **46A JIB CAUTION!** Do not operate jib above 75° when boom is vertical as jib may be overhauled by jib suspension.

HL150T
IDENTIFICATION

SERIAL NUMBER

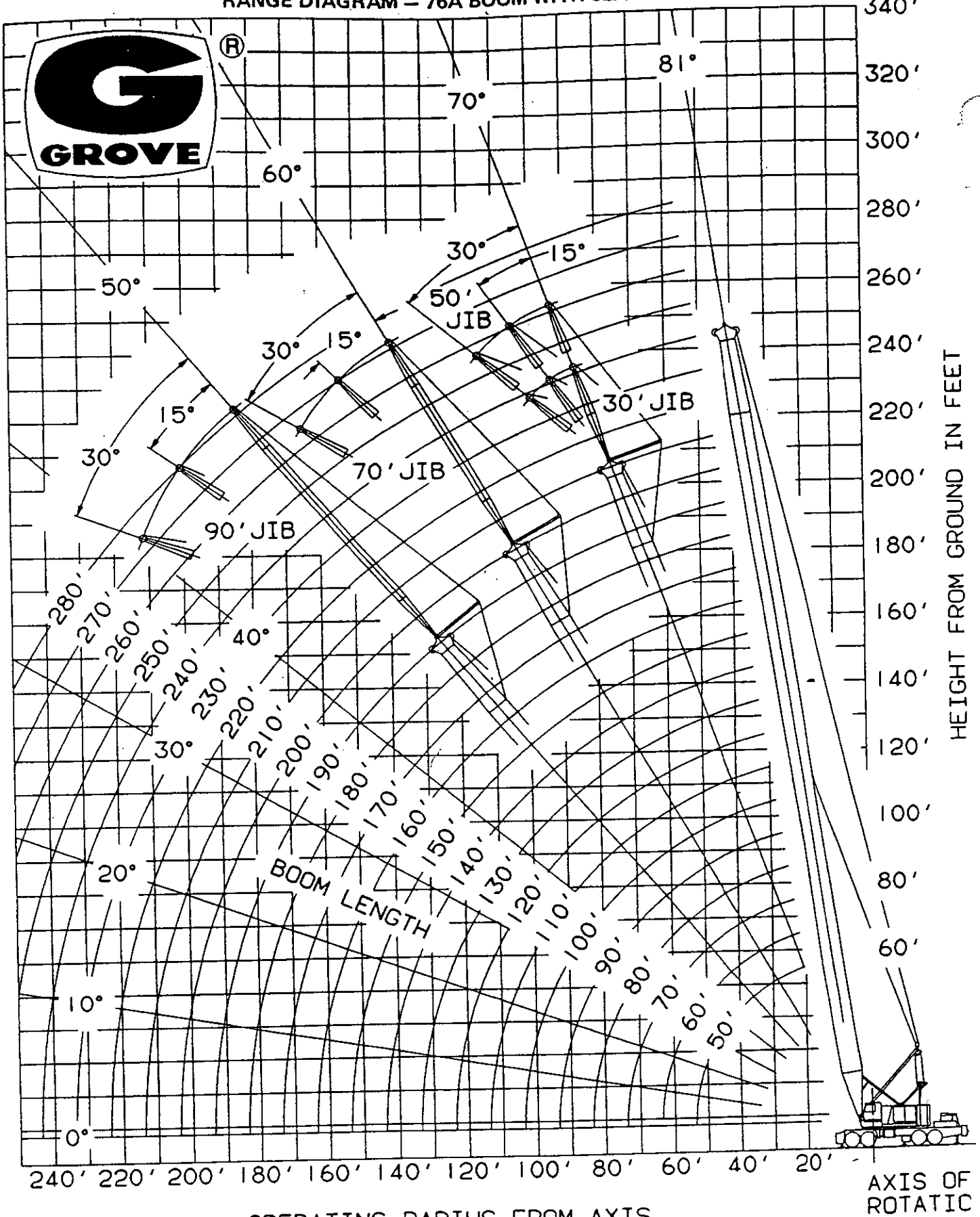
RANGE DIAGRAM – 76A BOOM WITH 46A JIB



SERIAL NUMBER

HL150T
IDENTIFICATION

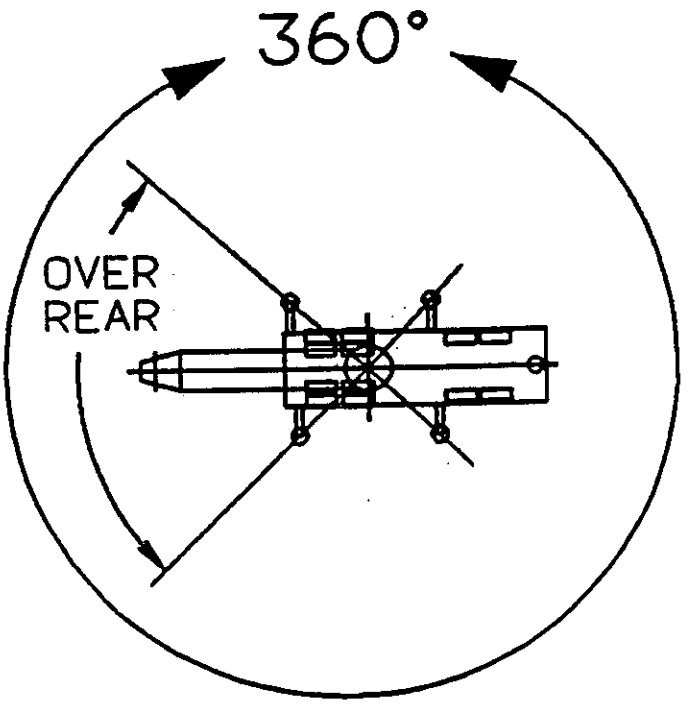
RANGE DIAGRAM — 76A BOOM WITH 32A JIB



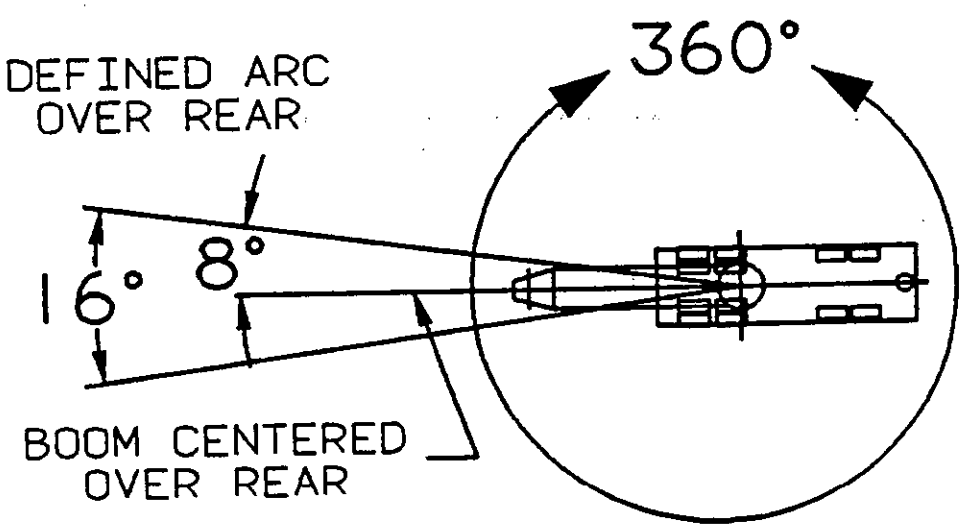
SERIAL NUMBER

HL150T
IDENTIFICATION

A6-829-800133
Pg. 1 of 1



LIFTING AREA DIAGRAM ON OUTRIGGERS



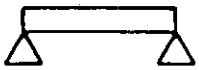
LIFTING AREA DIAGRAM ON TIRES

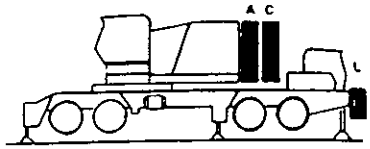
SERIAL NUMBER

A6-629-800101
Pg. 1 of 1

HL150T
IDENTIFICATION

76A BOOM – ON OUTRIGGERS OVER REAR
85% STABILITY





COUNTERWEIGHT CONFIGURATION

CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	12	82.7	47.1	300,000
40	13	81.3	46.9	294,600
40	14	79.8	46.6	272,900
40	15	78.3	46.3	254,300
40	16	76.8	46.0	237,800
40	17	75.3	45.7	223,400
40	18	73.8	45.3	210,500
40	19	72.2	44.9	199,100
40	20	70.7	44.5	188,700
40	25	62.6	41.8	149,300
40	30	53.7	38.1	122,900
40	35	43.4	32.9	104,100
40	40	29.9	24.9	89,800
50	13	83.0	57.0	293,800
50	14	81.9	56.9	272,100
50	15	80.7	56.6	253,500
50	16	79.5	56.4	237,000
50	17	78.3	56.1	222,600
50	18	77.1	55.8	209,700
50	19	75.9	55.5	198,300
50	20	74.7	55.2	187,900
50	25	68.6	53.2	148,500
50	30	62.1	50.5	122,200
50	35	55.1	46.9	103,400
50	40	47.3	42.4	89,300
50	45	38.2	36.2	77,400
50	50	26.2	27.0	66,500
60	15	82.3	66.8	253,100
60	16	81.3	66.6	236,600
60	17	80.3	66.4	222,300
60	18	79.3	66.2	209,300
60	19	78.4	65.9	197,900
60	20	77.4	65.7	187,500
60	25	72.3	64.0	148,100
60	30	67.2	61.8	121,900
60	35	61.7	59.1	103,200
60	40	55.9	55.7	89,000
60	45	49.7	51.5	77,600
60	50	42.7	46.1	66,700
60	60	23.6	28.8	51,500
70	17	81.7	76.6	222,000
70	18	80.9	76.4	209,100
70	19	80.1	76.2	197,700
70	20	79.2	76.0	187,300
70	25	75.0	74.6	147,900
70	30	70.8	72.8	121,700
70	35	66.1	70.5	103,000
70	40	61.5	67.8	88,800
70	45	56.6	64.4	77,600
70	50	51.3	60.4	66,800
70	60	39.2	49.5	51,700
70	70	21.6	30.5	41,400

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
80	18	82.0	86.6	208,600
80	19	81.3	86.4	197,200
80	20	80.6	86.2	186,800
80	25	76.9	85.0	147,500
80	30	73.2	83.4	121,200
80	35	69.3	81.5	102,500
80	40	65.4	79.2	88,500
80	45	61.3	76.4	77,500
80	50	57.0	73.1	66,600
80	60	47.7	64.7	51,500
80	70	36.4	52.7	41,300
80	80	20.0	32.1	34,000
90	19	82.3	96.6	197,000
90	20	81.6	96.4	186,600
90	25	78.4	95.3	147,500
90	30	75.1	93.9	121,100
90	35	71.7	92.3	102,500
90	40	68.3	90.2	88,500
90	45	64.8	87.8	77,500
90	50	61.1	85.1	66,700
90	60	53.4	78.1	51,600
90	70	44.7	68.8	41,500
90	80	34.2	55.7	34,200
90	90	18.7	33.6	28,800
100	21	81.9	106.4	176,900
100	25	79.6	105.6	147,000
100	30	76.6	104.3	120,600
100	35	73.6	102.8	102,000
100	40	70.6	101.1	88,000
100	45	67.5	98.9	77,000
100	50	64.3	96.5	66,500
100	60	57.6	90.5	51,400
100	70	50.4	82.8	41,200
100	80	42.2	72.5	34,000
100	90	32.3	58.5	28,600
100	100	17.6	35.0	24,300
110	24	81.1	116.0	152,900
110	25	80.5	115.8	146,500
110	30	77.9	114.7	120,200
110	35	75.2	113.3	101,600
110	40	72.4	111.7	87,600
110	45	69.7	109.8	76,600
110	50	66.8	107.7	66,300
110	60	60.9	102.4	51,200
110	70	54.7	95.7	41,000
110	80	47.8	87.1	33,700
110	90	40.1	76.1	28,400
110	100	30.6	61.1	24,100
110	110	16.7	36.3	20,700
120	26	80.8	125.8	139,900
120	30	78.9	124.9	119,600
120	35	76.4	123.7	101,000

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
120	40	74.0	122.2	87,100
120	45	71.4	120.5	76,100
120	50	68.9	118.6	66,000
120	60	63.6	113.8	50,900
120	70	58.0	107.9	40,700
120	80	52.1	100.5	33,400
120	90	45.6	91.3	28,100
120	100	38.2	79.5	23,800
120	110	29.2	63.6	20,400
120	120	15.9	37.6	17,500
130	27	81.1	135.8	134,000
130	30	79.8	135.2	119,300
130	35	77.5	134.0	100,700
130	40	75.2	132.7	86,900
130	45	72.9	131.1	75,900
130	50	70.6	129.3	65,800
130	60	65.8	125.0	50,700
130	70	60.8	119.7	40,500
130	80	55.5	113.1	33,300
130	90	49.9	105.1	28,000
130	100	43.7	95.2	23,700
130	110	36.6	82.7	20,300
130	120	28.0	66.0	17,500
130	130	15.2	38.8	15,100
140	29	80.9	145.5	123,400
140	30	80.5	145.4	118,800
140	35	78.4	144.3	100,200
140	40	76.3	143.1	86,300
140	45	74.2	141.6	75,300
140	50	72.0	140.0	65,600
140	60	67.6	136.0	50,400
140	70	63.1	131.2	40,200
140	80	58.3	125.2	32,900
140	90	53.3	118.1	27,600
140	100	47.9	109.5	23,400
140	110	42.0	99.0	20,000
140	120	35.2	85.8	17,200
140	130	26.9	68.3	14,800
140	140	14.6	40.0	12,800
150	30	81.1	155.5	118,300
150	35	79.2	154.5	99,800
150	40	77.2	153.4	85,900
150	45	75.3	152.1	74,900
150	50	73.3	150.5	65,300
150	60	69.2	146.9	50,100
150	70	65.0	142.4	39,900
150	80	60.7	137.0	32,600
150	90	56.1	130.5	27,300
150	100	51.3	122.9	23,100
150	110	46.1	113.7	19,700
150	120	40.4	102.6	16,900
150	130	33.9	88.8	14,500
150	140	26.0	70.5	12,500
150	150	14.1	41.1	10,800

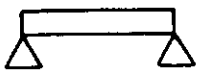
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

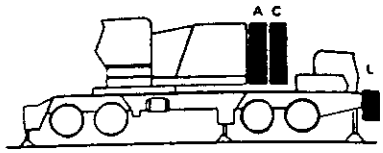
READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

SERIAL NUMBER

HL150T
IDENTIFICATION

76A BOOM – ON OUTRIGGERS OVER REAR
85% STABILITY





COUNTERWEIGHT CONFIGURATION

CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
160	**32**	**81.0**	**165.3**	**109,800**
160	**35**	**79.9**	**164.8**	**99,200**
160	**40**	**78.1**	**163.7**	**85,400**
160	**45**	**76.2**	**162.4**	**74,400**
160	50	74.3	161.0	65,000
160	60	70.6	157.6	49,800
160	70	66.7	153.5	39,600
160	80	62.7	148.5	32,300
160	90	58.5	142.6	27,000
160	100	54.2	135.6	22,700
160	110	49.5	127.4	19,300
160	120	44.6	117.8	16,500
160	130	39.1	106.1	14,200
160	140	32.8	91.7	12,200
160	150	25.1	72.7	10,500
160	160	13.6	42.2	9,000
170	**34**	**80.8**	**175.1**	**102,200**
170	**35**	**80.5**	**174.9**	**98,900**
170	**40**	**78.8**	**173.9**	**85,000**
170	**45**	**77.0**	**172.8**	**74,000**
170	50	75.3	171.4	64,700
170	60	71.8	168.3	49,600
170	70	68.1	164.4	39,300
170	80	64.4	159.8	32,000
170	90	60.6	154.3	26,800
170	100	56.6	148.0	22,500
170	110	52.4	140.5	19,100
170	120	47.9	131.9	16,300
170	130	43.1	121.7	14,000
170	140	37.8	109.5	12,000
170	150	31.7	94.5	10,300
170	160	24.3	74.8	8,800
170	170	13.1	43.3	7,500
180	**35**	**81.0**	**185.1**	**98,300**
180	**40**	**79.4**	**184.1**	**84,500**
180	**45**	**77.8**	**183.0**	**73,500**
180	50	76.1	181.8	64,500
180	60	72.8	178.8	49,300
180	70	69.4	175.2	39,000
180	80	66.0	170.9	31,700
180	90	62.4	165.8	26,400
180	100	58.7	159.9	22,100
180	110	54.8	153.1	18,700
180	120	50.8	145.2	15,900
180	130	46.5	136.1	13,600
180	140	41.8	125.4	11,600
180	150	36.7	112.7	9,900
180	160	30.8	97.2	8,400
180	170	23.6	76.8	7,100
180	180	12.7	44.3	6,000

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
190	**37**	**80.9**	**194.9**	**91,700**
190	**40**	**80.0**	**194.3**	**84,000**
190	**45**	**78.4**	**193.3**	**73,000**
190	50	76.9	192.1	64,100
190	60	73.7	189.3	49,000
190	70	70.6	185.9	38,700
190	80	67.3	181.9	31,300
190	90	64.0	177.1	26,100
190	100	60.5	171.6	21,800
190	110	57.0	165.3	18,400
190	120	53.2	158.1	15,600
190	130	49.3	149.8	13,200
190	140	45.2	140.2	11,300
190	150	40.6	129.1	9,600
190	160	35.6	115.9	8,100
190	170	29.9	99.8	6,800
190	180	22.9	78.7	5,700
190	190	12.4	45.3	4,600

SEE NOTE 6! - FOR MACHINE ON OUTRIGGERS

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
200	**38**	**81.1**	**204.9**	**88,400**
200	**40**	**80.5**	**204.5**	**83,500**
200	**45**	**79.0**	**203.5**	**72,500**
200	**50**	**77.5**	**202.4**	**63,700**
200	60	74.6	199.8	48,700
200	70	71.6	196.5	38,300
200	80	68.5	192.7	31,000
200	90	65.4	188.3	25,700
200	100	62.2	183.1	21,400
200	110	58.8	177.3	18,000
200	120	55.4	170.6	15,200
200	130	51.8	162.9	12,900
200	140	48.0	154.2	10,900
200	150	43.9	144.2	9,200
200	160	39.5	132.6	7,700
200	170	34.7	119.0	6,400
200	180	29.1	102.3	5,300
200	190	22.3	80.7	4,200
200	200	12.0	46.3	3,300
210	**40**	**80.9**	**214.7**	**83,100**
210	**45**	**79.5**	**213.7**	**72,100**
210	**50**	**78.2**	**212.7**	**63,300**
210	60	75.3	210.2	48,300
210	70	72.5	207.1	38,000
210	80	69.6	203.5	30,700
210	90	66.6	199.3	25,500
210	100	63.6	194.5	21,200
210	110	60.5	189.0	17,700
210	120	57.3	182.7	14,900
210	130	53.9	175.6	12,600
210	140	50.4	167.6	10,600

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
210	150	46.7	158.5	8,900
210	160	42.8	148.1	7,400
210	170	38.5	136.1	6,100
210	180	33.8	122.0	5,000
210	190	28.4	104.8	4,000
210	200	21.7	82.5	3,100
220	**41**	**81.1**	**224.7**	**80,200**
220	**45**	**80.0**	**223.9**	**71,600**
220	**50**	**78.7**	**222.9**	**62,800**
220	60	76.0	220.5	48,100
220	70	73.3	217.6	37,700
220	80	70.6	214.2	30,300
220	90	67.8	210.2	25,100
220	100	64.9	205.6	20,800
220	110	62.0	200.5	17,400
220	120	58.9	194.6	14,500
220	130	55.8	188.0	12,200
220	140	52.6	180.5	10,200
220	150	49.2	172.2	8,500
220	160	45.6	162.7	7,000
220	170	41.8	151.9	5,700
220	180	37.6	139.5	4,600
220	190	33.0	124.9	3,600
220	200	27.7	107.2	2,700
230	**43**	**81.0**	**234.5**	**75,200**
230	**45**	**80.5**	**234.1**	**71,100**
230	**50**	**79.2**	**233.1**	**62,300**
230	60	76.6	230.8	47,700
230	70	74.1	228.1	37,400
230	80	71.4	224.8	30,000
230	90	68.8	221.0	24,800
230	100	66.1	216.7	20,500
230	110	63.3	211.8	17,000
230	120	60.4	206.3	14,200
230	130	57.5	200.1	11,800
230	140	54.5	193.1	9,800
230	150	51.3	185.3	8,100
230	160	48.0	176.6	6,700
230	170	44.5	166.7	5,400
230	180	40.8	155.6	4,200
230	190	36.7	142.7	3,200
230	200	32.2	127.7	2,300

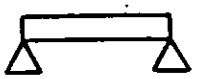
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

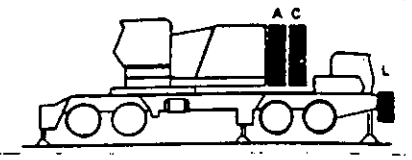
READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

HL150T
IDENTIFICATION

SERIAL NUMBER

76A BOOM – ON OUTRIGGERS OVER REAR
85% STABILITY





COUNTERWEIGHT CONFIGURATION

CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
SEE NOTE 6! - FOR MACHINE ON OUTRIGGERS				
240	44	81.1	244.4	70,000
240	45	80.9	244.3	69,800
240	50	79.7	243.3	61,700
240	60	77.2	241.1	47,500
240	70	74.7	238.5	37,000
240	80	72.2	235.4	29,600
240	90	69.7	231.8	24,400
240	100	67.1	227.7	20,100
240	110	64.5	223.0	16,600
240	120	61.8	217.8	13,800
240	130	59.0	211.9	11,400
240	140	56.2	205.4	9,400
240	150	53.2	198.1	7,700
240	160	50.1	190.0	6,200
240	170	46.9	180.9	4,900
240	180	43.5	170.7	3,800
240	190	39.9	159.2	2,700

DEDUCTION FROM RATED BOOM LOADS
WHEN LIFTING OVER BOOM POINT WITH 32A JIB ATTACHED

Jib Length in ft.	30		50		70		90
Boom Length in ft.	50-190	200-210	50-190	200-210	50-190	200	50-190
Deduct in lbs. No Hook on Jib	3,700	2,900	5,400	3,900	7,600	5,000	10,200
Deduct in lbs. With Max. 1,200 lbs. 1 Sheave Hook on Jib	5,500	4,100	7,700	5,200	10,300	6,300	13,400

DEDUCTION FROM RATED BOOM LOADS
WHEN LIFTING OVER BOOM POINT WITH 46A JIB ATTACHED

Jib Length in ft.	80	100	120	140	160
Deduct in lbs. No Hook on Jib	13,100	15,100	17,800	20,400	23,400
Deduct in lbs. With Max. 1,200 lbs. 1 Sheave Hook on Jib	15,700	18,000	21,100	24,000	27,300

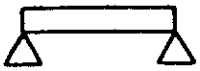
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

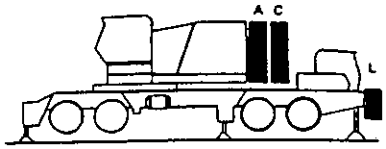
READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

SERIAL NUMBER

HL150T
IDENTIFICATION

76A BOOM – ON OUTRIGGERS 360°
85% STABILITY





CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS

COUNTERWEIGHT CONFIGURATION

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	12	82.7	47.1	300,000
40	13	81.3	46.9	294,600
40	14	79.8	46.6	272,900
40	15	78.3	46.3	254,300
40	16	76.8	46.0	237,800
40	17	75.3	45.7	223,400
40	18	73.8	45.3	210,500
40	19	72.2	44.9	199,100
40	20	70.7	44.5	188,700
40	25	62.6	41.8	149,300
40	30	53.7	38.1	122,900
40	35	43.4	32.9	99,500
40	40	29.9	24.9	81,000
50	13	83.0	57.0	293,800
50	14	81.9	56.9	272,100
50	15	80.7	56.6	253,500
50	16	79.5	56.4	237,000
50	17	78.3	56.1	222,600
50	18	77.1	55.8	209,700
50	19	75.9	55.5	198,300
50	20	74.7	55.2	187,900
50	25	68.6	53.2	148,500
50	30	62.1	50.5	122,200
50	35	55.1	46.9	99,700
50	40	47.3	42.4	81,100
50	45	38.2	36.2	67,900
50	50	26.2	27.0	58,000
60	15	82.3	66.8	253,100
60	16	81.3	66.6	236,600
60	17	80.3	66.4	222,300
60	18	79.3	66.2	209,300
60	19	78.4	65.9	197,900
60	20	77.4	65.7	187,500
60	25	72.3	64.0	148,100
60	30	67.2	61.8	121,900
60	35	61.7	59.1	99,900
60	40	55.9	55.7	81,300
60	45	49.7	51.5	68,100
60	50	42.7	46.1	58,300
60	60	23.6	28.8	44,500
70	17	81.7	76.6	222,000
70	18	80.9	76.4	209,100
70	19	80.1	76.2	197,700
70	20	79.2	76.0	187,300
70	25	75.0	74.6	147,900
70	30	70.6	72.8	121,700
70	35	66.1	70.5	100,000
70	40	61.5	67.8	81,400
70	45	56.6	64.4	68,200
70	50	51.3	60.4	58,400
70	60	39.2	49.5	44,700
70	70	21.6	30.5	35,500

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
80	18	82.0	86.6	208,600
80	19	81.3	86.4	197,200
80	20	80.6	86.2	186,800
80	25	76.9	85.0	147,400
80	30	73.2	83.4	121,200
80	35	69.3	81.5	100,000
80	40	65.4	79.2	81,300
80	45	61.3	76.4	68,100
80	50	57.0	73.1	58,300
80	60	47.7	64.7	44,600
80	70	36.4	52.7	35,400
80	80	20.0	32.1	28,900
90	19	82.3	96.6	197,000
90	20	81.6	96.4	186,600
90	25	78.4	95.3	147,400
90	30	75.1	93.9	121,100
90	35	71.7	92.3	100,000
90	40	68.3	90.2	81,400
90	45	64.8	87.8	68,100
90	50	61.1	85.1	58,400
90	60	53.4	78.1	44,700
90	70	44.7	68.8	35,600
90	80	34.2	55.7	29,200
90	90	18.7	33.6	24,200
100	21	81.9	106.4	176,900
100	25	79.6	105.6	147,000
100	30	76.6	104.3	120,600
100	35	73.6	102.8	100,000
100	40	70.6	101.1	81,300
100	45	67.5	98.9	68,000
100	50	64.3	96.5	58,200
100	60	57.6	90.5	44,400
100	70	50.4	82.8	35,300
100	80	42.2	72.5	29,000
100	90	32.3	58.5	24,100
100	100	17.6	35.0	20,200
110	24	81.1	116.0	152,900
110	25	80.5	115.8	146,500
110	30	77.9	114.7	120,200
110	35	75.2	113.3	99,800
110	40	72.4	111.7	81,100
110	45	69.7	109.8	67,800
110	50	66.8	107.7	58,000
110	60	60.9	102.4	44,200
110	70	54.7	95.7	35,100
110	80	47.8	87.1	28,800
110	90	40.1	76.1	23,900
110	100	30.6	61.1	20,100
110	110	16.7	36.3	17,000
120	26	80.8	125.8	139,900
120	30	78.9	124.9	119,600
120	35	76.4	123.7	99,700

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
120	40	74.0	122.2	81,000
120	45	71.4	120.5	67,600
120	50	68.9	118.6	57,800
120	60	63.6	113.8	44,000
120	70	58.0	107.9	34,800
120	80	52.1	100.5	28,500
120	90	45.6	91.3	23,600
120	100	38.2	79.5	19,800
120	110	29.2	63.6	16,700
120	120	15.9	37.6	14,200
130	27	81.1	135.8	134,000
130	30	79.8	135.2	119,300
130	35	77.5	134.0	99,500
130	40	75.2	132.7	80,800
130	45	72.9	131.1	67,400
130	50	70.6	129.3	57,600
130	60	65.8	125.0	43,800
130	70	60.8	119.7	34,700
130	80	55.5	113.1	28,300
130	90	49.9	105.1	23,500
130	100	43.7	95.2	19,700
130	110	36.6	82.7	16,700
130	120	28.0	66.0	14,200
130	130	15.2	38.8	12,000
140	29	80.9	145.5	123,400
140	30	80.5	145.4	118,800
140	35	78.4	144.3	99,400
140	40	76.3	143.1	80,600
140	45	74.2	141.6	67,200
140	50	72.0	140.0	57,400
140	60	67.6	136.0	43,500
140	70	63.1	131.2	34,400
140	80	58.3	125.2	28,000
140	90	53.3	118.1	23,100
140	100	47.9	109.5	19,400
140	110	42.0	99.0	16,300
140	120	35.2	85.8	13,800
140	130	26.9	68.3	11,700
140	140	14.6	40.0	10,000
150	30	81.1	155.5	118,300
150	35	79.2	154.5	99,200
150	40	77.2	153.4	80,400
150	45	75.3	152.1	66,900
150	50	73.3	150.5	57,100
150	60	69.2	146.9	43,200
150	70	65.0	142.4	34,100
150	80	60.7	137.0	27,700
150	90	56.1	130.5	22,900
150	100	51.3	122.9	19,100
150	110	46.1	113.7	16,000
150	120	40.4	102.6	13,500
150	130	33.9	88.8	11,500
150	140	26.0	70.5	9,700
150	150	14.1	41.1	8,200

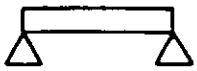
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

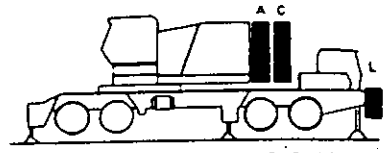
READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

SERIAL NUMBER

HL150T
IDENTIFICATION

76A BOOM – ON OUTRIGGERS 360°
85% STABILITY





CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS

COUNTERWEIGHT CONFIGURATION

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
160	32	81.0	165.3	109,800
160	35	79.9	164.8	99,100
160	40	78.1	163.7	80,200
160	45	76.2	162.4	66,700
160	50	74.3	161.0	56,900
160	60	70.6	157.6	43,000
160	70	66.7	153.5	33,700
160	80	62.7	148.5	27,400
160	90	58.5	142.6	22,500
160	100	54.2	135.6	18,700
160	110	49.5	127.4	15,700
160	120	44.6	117.8	13,200
160	130	39.1	106.1	11,100
160	140	32.8	91.7	9,300
160	150	25.1	72.7	7,800
160	160	13.6	42.2	6,500
170	34	80.8	175.1	102,200
170	35	80.5	174.9	98,800
170	40	78.8	173.9	79,900
170	45	77.0	172.8	66,400
170	50	75.3	171.4	56,600
170	60	71.8	168.3	42,700
170	70	68.1	164.4	33,500
170	80	64.4	159.8	27,200
170	90	60.6	154.3	22,300
170	100	56.6	148.0	18,500
170	110	52.4	140.5	15,400
170	120	47.9	131.9	13,000
170	130	43.1	121.7	10,900
170	140	37.8	109.5	9,100
170	150	31.7	94.5	7,600
170	160	24.3	74.8	6,300
170	170	13.1	43.3	5,200
180	35	81.0	185.1	98,300
180	40	79.4	184.1	79,800
180	45	77.8	183.0	66,200
180	50	76.1	181.8	56,400
180	60	72.8	178.8	42,400
180	70	69.4	175.2	33,200
180	80	66.0	170.9	26,900
180	90	62.4	165.8	21,900
180	100	58.7	159.9	18,100
180	110	54.8	153.1	15,100
180	120	50.8	145.2	12,600
180	130	46.5	136.1	10,500
180	140	41.8	125.4	8,800
180	150	36.7	112.7	7,300
180	160	30.8	97.2	6,000
180	170	23.6	76.8	4,800
180	180	12.7	44.3	3,800
190	37	80.9	194.9	89,900
190	40	80.0	194.3	79,500
190	45	78.4	193.3	65,900
190	50	76.9	192.1	56,100
190	60	73.7	189.3	42,100
190	70	70.6	185.9	32,800
190	80	67.3	181.9	26,500
190	90	64.0	177.1	21,600
190	100	60.5	171.6	17,800
190	110	57.0	165.3	14,800
190	120	53.2	158.1	12,300
190	130	49.3	149.8	10,200
190	140	45.2	140.2	8,400
190	150	40.6	129.1	6,900
190	160	35.6	115.9	5,600
190	170	29.9	99.8	4,500
190	180	22.9	78.7	3,500
190	190	12.4	45.3	2,600
SEE NOTE 6! - FOR MACHINE ON OUTRIGGERS				
200	38	81.1	204.9	86,200
200	40	80.5	204.5	79,400
200	45	79.0	203.5	65,700
200	50	77.5	202.4	55,900
200	60	74.6	199.8	41,800
200	70	71.6	196.5	32,500
200	80	68.5	192.7	26,200
200	90	65.4	188.3	21,300
200	100	62.2	183.1	17,400
200	110	58.8	177.3	14,400
200	120	55.4	170.6	11,900
200	130	51.8	162.9	9,800
200	140	48.0	154.2	8,000
200	150	43.9	144.2	6,500
200	160	39.5	132.6	5,200
200	170	34.7	119.0	4,100
200	180	29.1	102.3	3,100
200	190	22.3	80.7	2,200
210	40	80.9	214.7	79,000
210	45	79.5	213.7	65,400
210	50	78.2	212.7	55,600
210	60	75.3	210.2	41,500
210	70	72.5	207.1	32,200
210	80	69.6	203.5	25,900
210	90	66.6	199.3	21,000
210	100	63.6	194.5	17,200
210	110	60.5	189.0	14,100
210	120	57.3	182.7	11,600
210	130	53.9	175.6	9,500
210	140	50.4	167.6	7,800
210	150	46.7	158.5	6,300
210	160	42.8	148.1	5,000
210	170	38.5	136.1	3,800
210	180	33.8	122.0	2,800
220	41	81.1	224.7	75,700
220	45	80.0	223.9	65,200
220	50	78.7	222.9	55,400
220	60	76.0	220.5	41,200
220	70	73.3	217.6	31,900
220	80	70.6	214.2	25,600
220	90	67.8	210.2	20,700
220	100	64.9	205.6	16,800
220	110	62.0	200.5	13,700
220	120	58.9	194.6	11,200
220	130	55.8	188.0	9,200
220	140	52.6	180.5	7,400
220	150	49.2	172.2	5,900
220	160	45.6	162.7	4,600
220	170	41.8	151.9	3,400
220	180	37.6	139.5	2,400
230	43	81.0	234.5	69,800
230	45	80.5	234.1	64,900
230	50	79.2	233.1	55,000
230	60	76.6	230.8	40,900
230	70	74.1	228.1	31,600
230	80	71.4	224.8	25,300
230	90	68.8	221.0	20,300
230	100	66.1	216.7	16,500
230	110	63.3	211.8	13,400
230	120	60.4	206.3	10,900
230	130	57.5	200.1	8,800
230	140	54.5	193.1	7,000
230	150	51.3	185.3	5,500
230	160	48.0	176.6	4,200
230	170	44.5	166.7	3,100
230	180	40.8	155.6	2,100
240	44	81.1	244.4	67,200
240	45	80.9	244.3	64,800
240	50	79.7	243.3	54,900
240	60	77.2	241.1	40,700
240	70	74.7	238.5	31,300
240	80	72.2	235.4	25,000
240	90	69.7	231.8	20,000
240	100	67.1	227.7	16,100
240	110	64.5	223.0	13,000
240	120	61.8	217.8	10,500
240	130	59.0	211.9	8,400
240	140	56.2	205.4	6,600
240	150	53.2	198.1	5,100
240	160	50.1	190.0	3,800
240	170	46.9	180.9	2,600

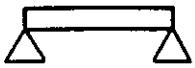
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

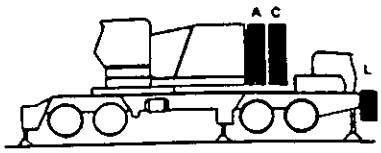
HL150T
IDENTIFICATION

SERIAL NUMBER

76A BOOM – ON OUTRIGGERS 360°
85% STABILITY



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

DEDUCTION FROM RATED BOOM LOADS
WHEN LIFTING OVER BOOM POINT WITH 32A JIB ATTACHED

Jib Length in ft.	30		50		70		90
Boom Length in ft.	50-190	200-210	50-190	200-210	50-190	200	50-190
Deduct in lbs. No Hook on Jib	3,700	2,900	5,400	3,900	7,600	5,000	10,200
Deduct in lbs. With Max. 1,200 lbs. 1 Sheave Hook on Jib	5,500	4,100	7,700	5,200	10,300	6,300	13,400

DEDUCTION FROM RATED BOOM LOADS
WHEN LIFTING OVER BOOM POINT WITH 46A JIB ATTACHED

Jib Length in ft.	80	100	120	140	160
Deduct in lbs. No Hook on Jib	13,100	15,100	17,800	20,400	23,400
Deduct in lbs. With Max. 1,200 lbs. 1 Sheave Hook on Jib	15,700	18,000	21,100	24,000	27,300

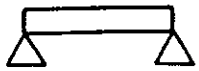
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

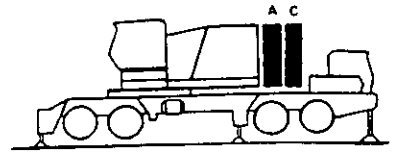
READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

HL150T
IDENTIFICATION

SERIAL NUMBER

76A BOOM – ON OUTRIGGERS OVER REAR
85% STABILITY





COUNTERWEIGHT CONFIGURATION

CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	12	82.7	47.1	300,000
40	13	81.3	46.9	294,600
40	14	79.8	46.6	272,900
40	15	78.3	46.3	254,300
40	16	76.8	46.0	237,800
40	17	75.3	45.7	223,400
40	18	73.8	45.3	210,500
40	19	72.2	44.9	199,100
40	20	70.7	44.5	188,700
40	25	62.6	41.8	149,200
40	30	53.7	38.1	122,900
40	35	43.4	32.9	96,600
40	40	29.9	24.9	79,000
50	13	83.0	57.0	293,800
50	14	81.9	56.9	272,100
50	15	80.7	56.6	253,500
50	16	79.5	56.4	237,000
50	17	78.3	56.1	222,600
50	18	77.1	55.8	209,700
50	19	75.9	55.5	198,300
50	20	74.7	55.2	187,900
50	25	68.6	53.2	148,500
50	30	62.1	50.5	122,200
50	35	55.1	46.9	96,700
50	40	47.3	42.4	79,100
50	45	38.2	36.2	66,400
50	50	26.2	27.0	57,000
60	15	82.3	66.8	253,100
60	16	81.3	66.6	236,600
60	17	80.3	66.4	222,300
60	18	79.3	66.2	209,300
60	19	78.4	65.9	197,900
60	20	77.4	65.7	187,500
60	25	72.3	64.0	148,100
60	30	67.2	61.8	121,900
60	35	61.7	59.1	96,800
60	40	55.9	55.7	79,200
60	45	49.7	51.5	66,600
60	50	42.7	46.1	57,200
60	60	23.6	28.8	43,800
70	17	81.7	76.6	222,000
70	18	80.9	76.4	209,100
70	19	80.1	76.2	197,700
70	20	79.2	76.0	187,300
70	25	75.0	74.6	147,900
70	30	70.6	72.8	121,700
70	35	66.1	70.5	96,900
70	40	61.5	67.8	79,300
70	45	56.6	64.4	66,700
70	50	51.3	60.4	57,300
70	60	39.2	49.5	44,000
70	70	21.6	30.5	35,100
80	18	82.0	86.6	208,600
80	19	81.3	86.4	197,200
80	20	80.6	86.2	186,800
80	25	76.9	85.0	147,400
80	30	73.2	83.4	121,200
80	35	69.3	81.5	96,900
80	40	65.4	79.2	79,200
80	45	61.3	76.4	66,500
80	50	57.0	73.1	57,100
80	60	47.7	64.7	43,800
80	70	36.4	52.7	35,000
80	80	20.0	32.1	28,600
90	19	82.3	96.6	197,000
90	20	81.6	96.4	186,600
90	25	78.4	95.3	147,400
90	30	75.1	93.9	121,100
90	35	71.7	92.3	96,900
90	40	68.3	90.2	79,300
90	45	64.8	87.8	66,600
90	50	61.1	85.1	57,200
90	60	53.4	78.1	43,900
90	70	44.7	68.8	35,100
90	80	34.2	55.7	28,800
90	90	18.7	33.6	24,000
100	21	81.9	106.4	176,900
100	25	79.6	105.6	147,000
100	30	76.6	104.3	120,600
100	35	73.6	102.8	96,800
100	40	70.6	101.1	79,100
100	45	67.5	98.9	66,400
100	50	64.3	96.5	57,000
100	60	57.6	90.5	43,700
100	70	50.4	82.8	34,800
100	80	42.2	72.5	28,600
100	90	32.3	58.5	23,800
100	100	17.6	35.0	20,000
110	24	81.1	116.0	152,900
110	25	80.5	115.8	146,500
110	30	77.9	114.7	120,200
110	35	75.2	113.3	96,700
110	40	72.4	111.7	78,900
110	45	69.7	109.8	66,200
110	50	66.8	107.7	56,800
110	60	60.9	102.4	43,500
110	70	54.7	95.7	34,600
110	80	47.8	87.1	28,400
110	90	40.1	76.1	23,600
110	100	30.6	61.1	19,900
110	110	16.7	36.3	16,800
120	26	80.8	125.8	139,900
120	30	78.9	124.9	119,600
120	35	76.4	123.7	96,500
120	40	74.0	122.2	78,800
120	45	71.4	120.5	66,000
120	50	68.9	118.6	56,600
120	60	63.6	113.8	43,200
120	70	58.0	107.9	34,300
120	80	52.1	100.5	28,100
120	90	45.6	91.3	23,300
120	100	38.2	79.5	19,600
120	110	29.2	63.6	16,600
120	120	15.9	37.6	14,100
130	27	81.1	135.8	134,000
130	30	79.8	135.2	119,300
130	35	77.5	134.0	96,300
130	40	75.2	132.7	78,600
130	45	72.9	131.1	65,800
130	50	70.6	129.3	56,400
130	60	65.8	125.0	43,000
130	70	60.8	119.7	34,100
130	80	55.5	113.1	28,000
130	90	49.9	105.1	23,200
130	100	43.7	95.2	19,500
130	110	36.6	82.7	16,500
130	120	28.0	66.0	14,000
130	130	15.2	38.8	11,900
140	29	80.9	145.5	123,400
140	30	80.5	145.4	118,800
140	35	78.4	144.3	96,200
140	40	76.3	143.1	78,400
140	45	74.2	141.6	65,600
140	50	72.0	140.0	56,200
140	60	67.6	136.0	42,800
140	70	63.1	131.2	33,800
140	80	58.3	125.2	27,600
140	90	53.3	118.1	22,900
140	100	47.9	109.5	19,100
140	110	42.0	99.0	16,100
140	120	35.2	85.8	13,700
140	130	26.9	68.3	11,600
140	140	14.6	40.0	9,900
150	30	81.1	155.5	118,300
150	35	79.2	154.5	95,900
150	40	77.2	153.4	78,100
150	45	75.3	152.1	65,300
150	50	73.3	150.5	55,900
150	60	69.2	146.9	42,500
150	70	65.0	142.4	33,500
150	80	60.7	137.0	27,400
150	90	56.1	130.5	22,600
150	100	51.3	122.9	18,800
150	110	46.1	113.7	15,800
150	120	40.4	102.6	13,400
150	130	33.9	88.8	11,400
150	140	26.0	70.5	9,600
150	150	14.1	41.1	8,100

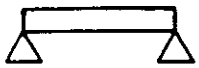
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

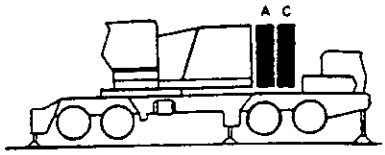
READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

SERIAL NUMBER

HL150T
IDENTIFICATION

76A BOOM – ON OUTRIGGERS OVER REAR
85% STABILITY





COUNTERWEIGHT CONFIGURATION

CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
160	32	81.0	165.3	109,800
160	35	79.9	164.8	95,800
160	40	78.1	163.7	78,000
160	45	76.2	162.4	65,100
160	50	74.3	161.0	55,700
160	60	70.6	157.6	42,200
160	70	66.7	153.5	33,200
160	80	62.7	148.5	27,000
160	90	58.5	142.6	22,200
160	100	54.2	135.6	18,500
160	110	49.5	127.4	15,500
160	120	44.6	117.8	13,000
160	130	39.1	106.1	11,000
160	140	32.8	91.7	9,200
160	150	25.1	72.7	7,700
160	160	13.6	42.2	6,400
170	34	80.8	175.1	100,000
170	35	80.5	174.9	95,500
170	40	78.8	173.9	77,600
170	45	77.0	172.8	64,800
170	50	75.3	171.4	55,400
170	60	71.8	168.3	41,900
170	70	68.1	164.4	32,900
170	80	64.4	159.8	26,800
170	90	60.6	154.3	22,000
170	100	56.6	148.0	18,200
170	110	52.4	140.5	15,300
170	120	47.9	131.9	12,800
170	130	43.1	121.7	10,800
170	140	37.8	109.5	9,000
170	150	31.7	94.5	7,500
170	160	24.3	74.8	6,300
170	170	13.1	43.3	5,100
180	35	81.0	185.1	95,400
180	40	79.4	184.1	77,500
180	45	77.8	183.0	64,500
180	50	76.1	181.8	55,100
180	60	72.8	178.8	41,600
180	70	69.4	175.2	32,600
180	80	66.0	170.9	26,500
180	90	62.4	165.8	21,600
180	100	58.7	159.9	17,900
180	110	54.8	153.1	14,900
180	120	50.8	145.2	12,400
180	130	46.5	136.1	10,400
180	140	41.8	125.4	8,700
180	150	36.7	112.7	7,200
180	160	30.8	97.2	5,900
180	170	23.6	76.8	4,700
180	180	12.7	44.3	3,700
190	37	80.9	194.9	87,300
190	40	80.0	194.3	77,200
190	45	78.4	193.3	64,200
190	50	76.9	192.1	54,900
190	60	73.7	189.3	41,300
190	70	70.6	185.9	32,300
190	80	67.3	181.9	26,100
190	90	64.0	177.1	21,300
190	100	60.5	171.6	17,600
190	110	57.0	165.3	14,600
190	120	53.2	158.1	12,100
190	130	49.3	149.8	10,100
190	140	45.2	140.2	8,300
190	150	40.6	129.1	6,800
190	160	35.6	115.9	5,500
190	170	29.9	99.8	4,400
190	180	22.9	78.7	3,400
190	190	12.4	45.3	2,500
SEE NOTE 6! - FOR MACHINE ON OUTRIGGERS				
200	38	81.1	204.9	83,500
200	40	80.5	204.5	77,000
200	45	79.0	203.5	64,000
200	50	77.5	202.4	54,600
200	60	74.6	199.8	41,000
200	70	71.6	196.5	32,000
200	80	68.5	192.7	25,800
200	90	65.4	188.3	21,000
200	100	62.2	183.1	17,200
200	110	58.8	177.3	14,200
200	120	55.4	170.6	11,700
SEE NOTE 6! - FOR MACHINE ON OUTRIGGERS				
200	130	51.8	162.9	9,700
200	140	48.0	154.2	7,900
200	150	43.9	144.2	6,400
200	160	39.5	132.6	5,100
200	170	34.7	119.0	4,000
200	180	29.1	102.3	3,000
200	190	22.3	80.7	2,100
210	40	80.9	214.7	76,700
210	45	79.5	213.7	63,700
210	50	78.2	212.7	54,300
210	60	75.3	210.2	40,700
210	70	72.5	207.1	31,600
210	80	69.6	203.5	25,500
210	90	66.6	199.3	20,700
210	100	63.6	194.5	16,900
210	110	60.5	189.0	13,900
210	120	57.3	182.7	11,400
210	130	53.9	175.6	9,400
210	140	50.4	167.6	7,700
210	150	46.7	158.5	6,200
210	160	42.8	148.1	4,900
210	170	38.5	136.1	3,700
210	180	33.8	122.0	2,800
220	41	81.1	224.7	73,500
220	45	80.0	223.9	63,400
220	50	78.7	222.9	54,000
220	60	76.0	220.5	40,400
220	70	73.3	217.6	31,300
220	80	70.6	214.2	25,200
220	90	67.8	210.2	20,300
220	100	64.9	205.6	16,600
220	110	62.0	200.5	13,500
220	120	58.9	194.6	11,100
220	130	55.8	188.0	9,000
220	140	52.6	180.5	7,300
220	150	49.2	172.2	5,800
220	160	45.6	162.7	4,500
220	170	41.8	151.9	3,400
220	180	37.6	139.5	2,400

DEDUCTION FROM RATED BOOM LOADS
WHEN LIFTING OVER BOOM POINT WITH 32A JIB ATTACHED

Jib Length in ft.	30		50		70		90
Boom Length in ft.	50-190	200-210	50-190	200-210	50-190	200	50-190
Deduct in lbs. No Hook on Jib	3,700	2,900	5,400	3,900	7,600	5,000	10,200
Deduct in lbs. With Max. 1,200 lbs. 1 Sheave Hook on Jib	5,500	4,100	7,700	5,200	10,300	6,300	13,400

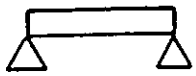
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

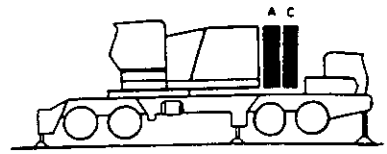
READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

SERIAL NUMBER

HL150T
IDENTIFICATION

76A BOOM – ON OUTRIGGERS 360°
85% STABILITY





CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS

COUNTERWEIGHT CONFIGURATION

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	12	82.7	47.1	300,000
40	13	81.3	46.9	294,600
40	14	79.8	46.6	272,900
40	15	78.3	46.3	254,300
40	16	76.8	46.0	237,800
40	17	75.3	45.7	223,400
40	18	73.8	45.3	210,500
40	19	72.2	44.9	199,100
40	20	70.7	44.5	188,700
40	25	62.6	41.8	149,300
40	30	53.7	38.1	121,800
40	35	43.4	32.9	94,900
40	40	29.9	24.9	77,100
50	13	83.0	57.0	293,800
50	14	81.9	56.9	272,100
50	15	80.7	56.6	253,500
50	16	79.5	56.4	237,000
50	17	78.3	56.1	222,600
50	18	77.1	55.8	209,700
50	19	75.9	55.5	198,300
50	20	74.7	55.2	187,900
50	25	68.6	53.2	148,500
50	30	62.1	50.5	122,100
50	35	55.1	46.9	95,000
50	40	47.3	42.4	77,200
50	45	38.2	36.2	64,600
50	50	26.2	27.0	55,200
60	15	82.3	66.8	253,100
60	16	81.3	66.6	236,600
60	17	80.3	66.4	222,300
60	18	79.3	66.2	209,300
60	19	78.4	65.9	197,900
60	20	77.4	65.7	187,500
60	25	72.3	64.0	148,100
60	30	67.2	61.8	121,900
60	35	61.7	59.1	95,200
60	40	55.9	55.7	77,400
60	45	49.7	51.5	64,800
60	50	42.7	46.1	55,400
60	60	23.6	28.8	42,200
70	17	81.7	76.6	222,000
70	18	80.9	76.4	209,100
70	19	80.1	76.2	197,700
70	20	79.2	76.0	187,300
70	25	75.0	74.6	147,900
70	30	70.6	72.8	121,700
70	35	66.1	70.5	95,300
70	40	61.5	67.8	77,500
70	45	56.6	64.4	64,900
70	50	51.3	60.4	55,500
70	60	39.2	49.5	42,400
70	70	21.6	30.5	33,600
80	18	82.0	86.6	208,600
80	19	81.3	86.4	197,200
80	20	80.6	86.2	186,800
80	25	76.9	85.0	147,500
80	30	73.2	83.4	121,200
80	35	69.3	81.5	95,300
80	40	65.4	79.2	77,500
80	45	61.3	76.4	64,800
80	50	57.0	73.1	55,400
80	60	47.7	64.7	42,300
80	70	36.4	52.7	33,500
80	80	20.0	32.1	27,300
90	19	82.3	96.6	197,000
90	20	81.6	96.4	186,600
90	25	78.4	95.3	147,400
90	30	75.1	93.9	121,100
90	35	71.7	92.3	95,400
90	40	68.3	90.2	77,500
90	45	64.8	87.8	64,800
90	50	61.1	85.1	55,500
90	60	53.4	78.1	42,400
90	70	44.7	68.8	33,700
90	80	34.2	55.7	27,500
90	90	18.7	33.6	22,800
100	21	81.9	106.4	176,900
100	25	79.6	105.6	147,000
100	30	76.6	104.3	120,600
100	35	73.6	102.8	95,300
100	40	70.6	101.1	77,400
100	45	67.5	98.9	64,700
100	50	64.3	96.5	55,300
100	60	57.6	90.5	42,100
100	70	50.4	82.8	33,400
100	80	42.2	72.5	27,300
100	90	32.3	58.5	22,600
100	100	17.6	35.0	18,900
110	24	81.1	116.0	152,900
110	25	80.5	115.8	146,500
110	30	77.9	114.7	120,200
110	35	75.2	113.3	95,200
110	40	72.4	111.7	77,200
110	45	69.7	109.8	64,500
110	50	66.8	107.7	55,100
110	60	60.9	102.4	41,900
110	70	54.7	95.7	33,200
110	80	47.8	87.1	27,100
110	90	40.1	76.1	22,500
110	100	30.6	61.1	18,800
110	110	16.7	36.3	15,900
120	26	80.8	125.8	139,900
120	30	78.9	124.9	119,600
120	35	76.4	123.7	95,100
120	40	74.0	122.2	77,100
120	45	71.4	120.5	64,300
120	50	68.9	118.6	54,900
120	60	63.6	113.8	41,700
120	70	58.0	107.9	32,900
120	80	52.1	100.5	26,800
120	90	45.6	91.3	22,200
120	100	38.2	79.5	18,500
120	110	29.2	63.6	15,600
120	120	15.9	37.6	13,200
130	27	81.1	135.8	134,000
130	30	79.8	135.2	119,300
130	35	77.5	134.0	94,800
130	40	75.2	132.7	76,900
130	45	72.9	131.1	64,100
130	50	70.6	129.3	54,700
130	60	65.8	125.0	41,500
130	70	60.8	119.7	32,800
130	80	55.5	113.1	26,700
130	90	49.9	105.1	22,000
130	100	43.7	95.2	18,400
130	110	36.6	82.7	15,500
130	120	28.0	66.0	13,100
130	130	15.2	38.8	11,100
140	29	80.9	145.5	123,400
140	30	80.5	145.4	118,800
140	35	78.4	144.3	94,800
140	40	76.3	143.1	76,800
140	45	74.2	141.6	63,900
140	50	72.0	140.0	54,500
140	60	67.6	136.0	41,200
140	70	63.1	131.2	32,500
140	80	58.3	125.2	26,400
140	90	53.3	118.1	21,700
140	100	47.9	109.5	18,100
140	110	42.0	99.0	15,200
140	120	35.2	85.8	12,800
140	130	26.9	68.3	10,800
140	140	14.6	40.0	9,100
150	30	81.1	155.5	118,300
150	35	79.2	154.5	94,500
150	40	77.2	153.4	76,500
150	45	75.3	152.1	63,600
150	50	73.3	150.5	54,300
150	60	69.2	146.9	41,000
150	70	65.0	142.4	32,200
150	80	60.7	137.0	26,100
150	90	56.1	130.5	21,400
150	100	51.3	122.9	17,800
150	110	46.1	113.7	14,900
150	120	40.4	102.6	12,500
150	130	33.9	88.8	10,500
150	140	26.0	70.5	8,800
150	150	14.1	41.1	7,400

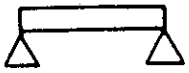
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

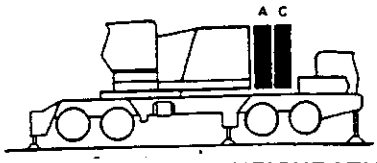
READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

SERIAL NUMBER

IDENTIFICATION

76A BOOM – ON OUTRIGGERS 360°
85% STABILITY





COUNTERWEIGHT CONFIGURATION

CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
160	32	81.0	165.3	109,600
160	35	79.9	164.8	94,400
160	40	78.1	163.7	76,400
160	45	76.2	162.4	63,400
160	50	74.3	161.0	54,000
160	60	70.6	157.6	40,700
160	70	66.7	153.5	31,800
160	80	62.7	148.5	25,800
160	90	58.5	142.6	21,100
160	100	54.2	135.6	17,400
160	110	49.5	127.4	14,500
160	120	44.6	117.8	12,100
160	130	39.1	106.1	10,200
160	140	32.8	91.7	8,500
160	150	25.1	72.7	7,000
160	160	13.6	42.2	5,700
170	34	80.8	175.1	98,700
170	35	80.5	174.9	94,100
170	40	78.8	173.9	76,000
170	45	77.0	172.8	63,100
170	50	75.3	171.4	53,800
170	60	71.8	168.3	40,400
170	70	68.1	164.4	31,600
170	80	64.4	159.8	25,600
170	90	60.6	154.3	20,900
170	100	56.6	148.0	17,200
170	110	52.4	140.5	14,300
170	120	47.9	131.9	11,900
170	130	43.1	121.7	10,000
170	140	37.8	109.5	8,300
170	150	31.7	94.5	6,800
170	160	24.3	74.8	5,600
170	170	13.1	43.3	4,500
180	35	81.0	185.1	94,000
180	40	79.4	184.1	75,900
180	45	77.8	183.0	62,900
180	50	76.1	181.8	53,500
180	60	72.8	178.8	40,100
180	70	69.4	175.2	31,300
180	80	66.0	170.9	25,200
180	90	62.4	165.8	20,500
180	100	58.7	159.9	16,900
180	110	54.8	153.1	14,000
180	120	50.8	145.2	11,600
180	130	46.5	136.1	9,600
180	140	41.8	125.4	7,900
180	150	36.7	112.7	6,500
180	160	30.8	97.2	5,200
180	170	23.6	76.8	4,100
180	180	12.7	44.3	3,100
190	37	80.9	194.9	85,800
190	40	80.0	194.3	75,600
190	45	78.4	193.3	62,600
190	50	76.9	192.1	53,300
190	60	73.7	189.3	39,800
190	70	70.6	185.9	30,900
190	80	67.3	181.9	24,900
190	90	64.0	177.1	20,200
190	100	60.5	171.6	16,500
190	110	57.0	165.3	13,600
190	120	53.2	158.1	11,200
190	130	49.3	149.8	9,200
190	140	45.2	140.2	7,600
190	150	40.6	129.1	6,100
190	160	35.6	115.9	4,900
190	170	29.9	99.8	3,800
190	180	22.9	78.7	2,800
SEE NOTE 6! - FOR MACHINE ON OUTRIGGERS				
200	38	81.1	204.9	82,100
200	40	80.5	204.5	75,500
200	45	79.0	203.5	62,400
200	50	77.5	202.4	53,000
200	60	74.6	199.8	39,500
200	70	71.6	196.5	30,600
200	80	68.5	192.7	24,600
200	90	65.4	188.3	19,900
200	100	62.2	183.1	16,200
SEE NOTE 6! - FOR MACHINE ON OUTRIGGERS				
200	110	58.8	177.3	13,300
200	120	55.4	170.6	10,900
200	130	51.8	162.9	8,900
200	140	48.0	154.2	7,200
200	150	43.9	144.2	5,700
200	160	39.5	132.6	4,500
200	170	34.7	119.0	3,400
200	180	29.1	102.3	2,400
210	40	80.9	214.7	75,100
210	45	79.5	213.7	62,100
210	50	78.2	212.7	52,700
210	60	75.3	210.2	39,200
210	70	72.5	207.1	30,300
210	80	69.6	203.5	24,300
210	90	66.6	199.3	19,600
210	100	63.6	194.5	15,900
210	110	60.5	189.0	13,000
210	120	57.3	182.7	10,600
210	130	53.9	175.6	8,600
210	140	50.4	167.6	6,900
210	150	46.7	158.5	5,500
210	160	42.8	148.1	4,200
210	170	38.5	136.1	3,100
210	180	33.8	122.0	2,200
220	41	81.1	224.7	72,000
220	45	80.0	223.9	61,900
220	50	78.7	222.9	52,500
220	60	76.0	220.5	38,900
220	70	73.3	217.6	30,000
220	80	70.6	214.2	24,000
220	90	67.8	210.2	19,200
220	100	64.9	205.6	15,600
220	110	62.0	200.5	12,600
220	120	58.9	194.6	10,200
220	130	55.8	188.0	8,200
220	140	52.6	180.5	6,500
220	150	49.2	172.2	5,100
220	160	45.6	162.7	3,800
220	170	41.8	151.9	2,700

DEDUCTION FROM RATED BOOM LOADS
WHEN LIFTING OVER BOOM POINT WITH 32A JIB ATTACHED

Jib Length in ft.	30		50		70		90
Boom Length in ft.	50-190	200-210	50-190	200-210	50-190	200	50-190
Deduct in lbs. No Hook on Jib	3,700	2,900	5,400	3,900	7,600	5,000	10,200
Deduct in lbs. with Max. 1,200 lbs. 1 Sheave Hook on Jib	5,500	4,100	7,700	5,200	10,300	6,300	13,400

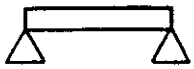
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

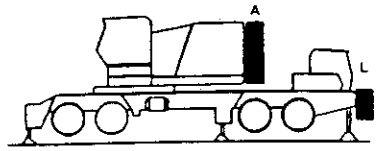
READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

HL150T
IDENTIFICATION

SERIAL NUMBER

76A BOOM – ON OUTRIGGERS OVER REAR
85% STABILITY





CAPACITY IN POUNDS
WITH A + L COUNTERWEIGHTS

COUNTERWEIGHT CONFIGURATION

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	12	82.7	47.1	265,700
40	13	81.3	46.9	244,700
40	14	79.8	46.6	226,700
40	15	78.3	46.3	211,000
40	16	76.8	46.0	197,400
40	17	75.3	45.7	185,200
40	18	73.8	45.3	174,600
40	19	72.2	44.9	164,900
40	20	70.7	44.5	156,200
40	25	62.6	41.8	123,300
40	30	53.7	38.1	96,100
40	35	43.4	32.9	75,100
40	40	29.9	24.9	61,100
50	13	83.0	57.0	243,900
50	14	81.9	56.9	225,900
50	15	80.7	56.6	210,200
50	16	79.5	56.4	196,600
50	17	78.3	56.1	184,500
50	18	77.1	55.8	173,800
50	19	75.9	55.5	164,200
50	20	74.7	55.2	155,500
50	25	68.6	53.2	122,600
50	30	62.1	50.5	96,200
50	35	55.1	46.9	75,200
50	40	47.3	42.4	61,200
50	45	38.2	36.2	51,200
50	50	26.2	27.0	43,500
60	15	82.3	66.8	209,900
60	16	81.3	66.6	196,200
60	17	80.3	66.4	184,100
60	18	79.3	66.2	173,500
60	19	78.4	65.9	163,800
60	20	77.4	65.7	155,100
60	25	72.3	64.0	122,200
60	30	67.2	61.8	96,500
60	35	61.7	59.1	75,400
60	40	55.9	55.7	61,300
60	45	49.7	51.5	51,300
60	50	42.7	46.1	43,800
60	60	23.6	28.8	33,100
70	17	81.7	76.6	183,900
70	18	80.9	76.4	173,200
70	19	80.1	76.2	163,600
70	20	79.2	76.0	154,900
70	25	75.0	74.6	122,000
70	30	70.6	72.8	96,700
70	35	66.1	70.5	75,500
70	40	61.5	67.8	61,400
70	45	56.6	64.4	51,400
70	50	51.3	60.4	43,900
70	60	39.2	49.5	33,300
70	70	21.6	30.5	26,200
80	18	82.0	86.6	172,800
80	19	81.3	86.4	163,100
80	20	80.6	86.2	154,400
80	25	76.9	85.0	121,600
80	30	73.2	83.4	96,700
80	35	69.3	81.5	75,500
80	40	65.4	79.2	61,300
80	45	61.3	76.4	51,300
80	50	57.0	73.1	43,700
80	60	47.7	64.7	33,100
80	70	36.4	52.7	26,100
80	80	20.0	32.1	20,900
90	19	82.3	96.6	163,000
90	20	81.6	96.4	154,300
90	25	78.4	95.3	121,500
90	30	75.1	93.9	96,700
90	35	71.7	92.3	75,500
90	40	68.3	90.2	61,400
90	45	64.8	87.8	51,400
90	50	61.1	85.1	43,800
90	60	53.4	78.1	33,200
90	70	44.7	68.8	26,300
90	80	34.2	55.7	21,200
90	90	18.7	33.6	17,300
100	21	81.9	106.4	146,100
100	25	79.6	105.6	121,000
100	30	76.6	104.3	96,700
100	35	73.6	102.8	75,500
100	40	70.6	101.1	61,200
100	45	67.5	98.9	51,200
100	50	64.3	96.5	43,600
100	60	57.6	90.5	33,000
100	70	50.4	82.8	26,000
100	80	42.2	72.5	21,000
100	90	32.3	58.5	17,100
100	100	17.6	35.0	14,100
110	24	81.1	116.0	126,000
110	25	80.5	115.8	120,500
110	30	77.9	114.7	96,600
110	35	75.2	113.3	75,300
110	40	72.4	111.7	61,000
110	45	69.7	109.8	51,000
110	50	66.8	107.7	43,400
110	60	60.9	102.4	32,800
110	70	54.7	95.7	25,800
110	80	47.8	87.1	20,800
110	90	40.1	76.1	16,900
110	100	30.6	61.1	13,900
110	110	16.7	36.3	11,500
120	26	80.8	125.8	115,200
120	30	78.9	124.9	96,600
120	35	76.4	123.7	75,200
120	40	74.0	122.2	60,900
120	45	71.4	120.5	50,800
120	50	68.9	118.6	43,200
120	60	63.6	113.8	32,500
120	70	58.0	107.9	25,500
120	80	52.1	100.5	20,500
120	90	45.6	91.3	16,600
120	100	38.2	79.5	13,600
120	110	29.2	63.6	11,200
120	120	15.9	37.6	9,200
130	27	81.1	135.8	110,200
130	30	79.8	135.2	96,300
130	35	77.5	134.0	75,000
130	40	75.2	132.7	60,700
130	45	72.9	131.1	50,700
130	50	70.6	129.3	43,000
130	60	65.8	125.0	32,300
130	70	60.8	119.7	25,400
130	80	55.5	113.1	20,300
130	90	49.9	105.1	16,500
130	100	43.7	95.2	13,500
130	110	36.6	82.7	11,100
130	120	28.0	66.0	9,200
130	130	15.2	38.8	7,500
140	29	80.9	145.5	101,200
140	30	80.5	145.4	96,300
140	35	78.4	144.3	74,900
140	40	76.3	143.1	60,500
140	45	74.2	141.6	50,500
140	50	72.0	140.0	42,800
140	60	67.6	136.0	32,000
140	70	63.1	131.2	25,100
140	80	58.3	125.2	20,000
140	90	53.3	118.1	16,200
140	100	47.9	109.5	13,200
140	110	42.0	99.0	10,800
140	120	35.2	85.8	8,800
140	130	26.9	68.3	7,200
140	140	14.6	40.0	5,700
150	30	81.1	155.5	96,100
150	35	79.2	154.5	74,700
150	40	77.2	153.4	60,200
150	45	75.3	152.1	50,200
150	50	73.3	150.5	42,500
150	60	69.2	146.9	31,800
150	70	65.0	142.4	24,800
150	80	60.7	137.0	19,700
150	90	56.1	130.5	15,900
150	100	51.3	122.9	12,900
150	110	46.1	113.7	10,500
150	120	40.4	102.6	8,500
150	130	33.9	88.8	6,900
150	140	26.0	70.5	5,500
150	150	14.1	41.1	4,300

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

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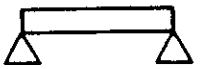
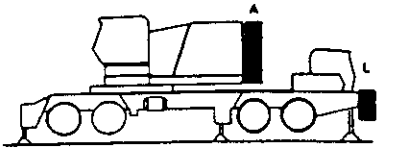
SERIAL NUMBER

HL150T
IDENTIFICATION

76A BOOM – ON OUTRIGGERS OVER REAR
85% STABILITY





COUNTERWEIGHT CONFIGURATION

CAPACITY IN POUNDS
WITH A + L COUNTERWEIGHTS

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
160	32	81.0	165.3	86,400
160	35	79.9	164.8	74,500
160	40	78.1	163.7	60,000
160	45	76.2	162.4	50,000
160	50	74.3	161.0	42,300
160	60	70.6	157.6	31,500
160	70	66.7	153.5	24,500
160	80	62.7	148.5	19,400
160	90	58.5	142.6	15,500
160	100	54.2	135.6	12,500
160	110	49.5	127.4	10,100
160	120	44.6	117.8	8,200
160	130	39.1	106.1	6,500
160	140	32.8	91.7	5,100
160	150	25.1	72.7	3,900
160	160	13.6	42.2	2,900
170	34	80.8	175.1	77,800
170	35	80.5	174.9	74,200
170	40	78.8	173.9	59,700
170	45	77.0	172.8	49,700
170	50	75.3	171.4	42,000
170	60	71.8	168.3	31,200
170	70	68.1	164.4	24,300
170	80	64.4	159.8	19,100
170	90	60.6	154.3	15,300
170	100	56.6	148.0	12,300
170	110	52.4	140.5	9,900
170	120	47.9	131.9	8,000
170	130	43.1	121.7	6,300
170	140	37.8	109.5	4,900
170	150	31.7	94.5	3,700
170	160	24.3	74.8	2,700
SEE NOTE 6! - FOR MACHINE ON OUTRIGGERS				
180	35	81.0	185.1	74,100
180	40	79.4	184.1	59,600
180	45	77.8	183.0	49,500
180	50	76.1	181.8	41,700
180	60	72.8	178.8	30,900
180	70	69.4	175.2	24,000
180	80	66.0	170.9	18,800
180	90	62.4	165.8	15,000
180	100	58.7	159.9	12,000
180	110	54.8	153.1	9,600
180	120	50.8	145.2	7,600
180	130	46.5	136.1	5,900
180	140	41.8	125.4	4,600
180	150	36.7	112.7	3,400
180	160	30.8	97.2	2,300
190	37	80.9	194.9	67,400
190	40	80.0	194.3	59,300
190	45	78.4	193.3	49,200
190	50	76.9	192.1	41,400
190	60	73.7	189.3	30,600
190	70	70.6	185.9	23,700
190	80	67.3	181.9	18,500
190	90	64.0	177.1	14,600
190	100	60.5	171.6	11,600
190	110	57.0	165.3	9,200
190	120	53.2	158.1	7,200
190	130	49.3	149.8	5,600
190	140	45.2	140.2	4,200
190	150	40.6	129.1	3,000
190	160	35.6	115.9	2,000

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

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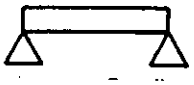
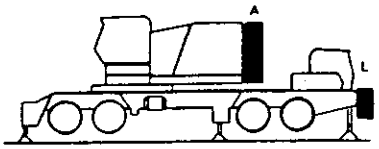
SERIAL NUMBER

HL150T
IDENTIFICATION

76A BOOM – ON OUTRIGGERS 360°
85% STABILITY



CAPACITY IN POUNDS
WITH A + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	12	82.7	47.1	265,700
40	13	81.3	46.9	244,700
40	14	79.8	46.6	226,700
40	15	78.3	46.3	211,000
40	16	76.8	46.0	197,400
40	17	75.3	45.7	185,200
40	18	73.8	45.3	174,600
40	19	72.2	44.9	164,900
40	20	70.7	44.5	156,200
40	25	62.6	41.8	109,000
40	30	53.7	38.1	78,400
40	35	43.4	32.9	60,400
40	40	29.9	24.9	48,600
50	13	83.0	57.0	243,900
50	14	81.9	56.9	225,900
50	15	80.7	56.6	210,200
50	16	79.5	56.4	196,600
50	17	78.3	56.1	184,500
50	18	77.1	55.8	173,800
50	19	75.9	55.5	164,200
50	20	74.7	55.2	155,500
50	25	68.6	53.2	109,500
50	30	62.1	50.5	78,600
50	35	55.1	46.9	60,600
50	40	47.3	42.4	48,700
50	45	38.2	36.2	40,300
50	50	26.2	27.0	33,900
60	15	82.3	66.8	209,900
60	16	81.3	66.6	196,300
60	17	80.3	66.4	184,100
60	18	79.3	66.2	173,500
60	19	78.4	65.9	163,800
60	20	77.4	65.7	155,100
60	25	72.3	64.0	110,000
60	30	67.2	61.8	79,000
60	35	61.7	59.1	60,800
60	40	55.9	55.7	48,900
60	45	49.7	51.5	40,500
60	50	42.7	46.1	34,200
60	60	23.6	28.8	25,300
70	17	81.7	76.6	183,900
70	18	80.9	76.4	173,200
70	19	80.1	76.2	163,600
70	20	79.2	76.0	154,900
70	25	75.0	74.6	110,300
70	30	70.6	72.8	79,200
70	35	66.1	70.5	60,900
70	40	61.5	67.8	49,100
70	45	56.6	64.4	40,600
70	50	51.3	60.4	34,300
70	60	39.2	49.5	25,600
70	70	21.6	30.5	19,600
80	18	82.0	86.6	172,800
80	19	81.3	86.4	163,100
80	20	80.6	86.2	154,400
80	25	76.9	85.0	110,600
80	30	73.2	83.4	79,300
80	35	69.3	81.5	60,900
80	40	65.4	79.2	49,000
80	45	61.3	76.4	40,500
80	50	57.0	73.1	34,200
80	60	47.7	64.7	25,500
80	70	36.4	52.7	19,600
80	80	20.0	32.1	15,300
90	19	82.3	96.6	163,000
90	20	81.6	96.4	154,300
90	25	78.4	95.3	110,700
90	30	75.1	93.9	79,400
90	35	71.7	92.3	61,000
90	40	68.3	90.2	49,100
90	45	64.8	87.8	40,600
90	50	61.1	85.1	34,300
90	60	53.4	78.1	25,600
90	70	44.7	68.8	19,700
90	80	34.2	55.7	15,500
90	90	18.7	33.6	12,300
100	21	81.9	106.4	146,100
100	25	79.6	105.6	110,900
100	30	76.6	104.3	79,400
100	35	73.6	102.8	61,000
100	40	70.6	101.1	49,000
100	45	67.5	98.9	40,400
100	50	64.3	96.5	34,100
100	60	57.6	90.5	25,400
100	70	50.4	82.8	19,500
100	80	42.2	72.5	15,300
100	90	32.3	58.5	12,200
100	100	17.6	35.0	9,600
110	24	81.1	116.0	120,000
110	25	80.5	115.8	110,900
110	30	77.9	114.7	79,300
110	35	75.2	113.3	60,800
110	40	72.4	111.7	48,900
110	45	69.7	109.8	40,300
110	50	66.8	107.7	33,900
110	60	60.9	102.4	25,200
110	70	54.7	95.7	19,300
110	80	47.8	87.1	15,100
110	90	40.1	76.1	12,000
110	100	30.6	61.1	9,500
110	110	16.7	36.3	7,500
120	26	80.8	125.8	103,000
120	30	78.9	124.9	79,400
120	35	76.4	123.7	60,700
120	40	74.0	122.2	48,700
120	45	71.4	120.5	40,100
120	50	68.9	118.6	33,700
120	60	63.6	113.8	24,900
120	70	58.0	107.9	19,000
120	80	52.1	100.5	14,800
120	90	45.6	91.3	11,700
120	100	38.2	79.5	9,200
120	110	29.2	63.6	7,200
120	120	15.9	37.6	5,600
130	27	81.1	135.8	95,700
130	30	79.8	135.2	79,200
130	35	77.5	134.0	60,500
130	40	75.2	132.7	48,500
130	45	72.9	131.1	39,900
130	50	70.6	129.3	33,500
130	60	65.8	125.0	24,800
130	70	60.8	119.7	18,900
130	80	55.5	113.1	14,700
130	90	49.9	105.1	11,600
130	100	43.7	95.2	9,100
130	110	36.6	82.7	7,100
130	120	28.0	66.0	5,500
130	130	15.2	38.8	4,100

SEE NOTE 6! - FOR MACHINE ON OUTRIGGERS

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
140	29	80.9	145.5	84,200
140	30	80.5	145.4	79,200
140	35	78.4	144.3	60,500
140	40	76.3	143.1	48,400
140	45	74.2	141.6	39,700
140	50	72.0	140.0	33,300
140	60	67.6	136.0	24,500
140	70	63.1	131.2	18,600
140	80	58.3	125.2	14,400
140	90	53.3	118.1	11,200
140	100	47.9	109.5	8,800
140	110	42.0	99.0	6,800
140	120	35.2	85.8	5,200
140	130	26.9	68.3	3,800
140	140	14.6	40.0	2,700

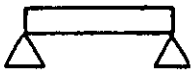
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

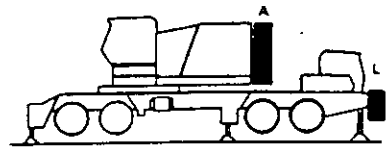
READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

SERIAL NUMBER

HL150T
IDENTIFICATION

76A BOOM – ON OUTRIGGERS 360°
85% STABILITY





CAPACITY IN POUNDS
WITH A + L COUNTERWEIGHTS

COUNTERWEIGHT CONFIGURATION

SEE NOTE 6! - FOR MACHINE ON OUTRIGGERS

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
150	30	81.1	155.5	79,100
150	35	79.2	154.5	60,300
150	40	77.2	153.4	48,200
150	45	75.3	152.1	39,500
150	50	73.3	150.5	33,000
150	60	69.2	146.9	24,300
150	70	65.0	142.4	18,300
150	80	60.7	137.0	14,100
150	90	56.1	130.5	10,900
150	100	51.3	122.9	8,500
150	110	46.1	113.7	6,500
150	120	40.4	102.6	4,900
150	130	33.9	88.8	3,600
150	140	26.0	70.5	2,400
160	32	81.0	165.3	70,400
160	35	79.9	164.8	60,200
160	40	78.1	163.7	48,000
160	45	76.2	162.4	39,300
160	50	74.3	161.0	32,800
160	60	70.6	157.6	24,000
160	70	66.7	153.5	18,000
160	80	62.7	148.5	13,800
160	90	58.5	142.6	10,600
160	100	54.2	135.6	8,100
160	110	49.5	127.4	6,200
160	120	44.6	117.8	4,500
160	130	39.1	106.1	3,200
160	140	32.8	91.7	2,100
170	34	80.8	175.1	63,000
170	35	80.5	174.9	59,900
170	40	78.8	173.9	47,800
170	45	77.0	172.8	39,000
170	50	75.3	171.4	32,500
170	60	71.8	168.3	23,800
170	70	68.1	164.4	17,800
170	80	64.4	159.8	13,500
170	90	60.6	154.3	10,400
170	100	56.6	148.0	7,900
170	110	52.4	140.5	5,900
170	120	47.9	131.9	4,300
170	130	43.1	121.7	3,000
180	35	81.0	185.1	59,800
180	40	79.4	184.1	47,600
180	45	77.8	183.0	38,800
180	50	76.1	181.8	32,300
180	60	72.8	178.8	23,500
180	70	69.4	175.2	17,500
180	80	66.0	170.9	13,200
180	90	62.4	165.8	10,000
180	100	58.7	159.9	7,600
180	110	54.8	153.1	5,600
180	120	50.8	145.2	4,000
180	130	46.5	136.1	2,600
190	37	80.9	194.9	54,300
190	40	80.0	194.3	47,400
190	45	78.4	193.3	38,600
190	50	76.9	192.1	32,000
190	60	73.7	189.3	23,200
190	70	70.6	185.9	17,200
190	80	67.3	181.9	12,900
190	90	64.0	177.1	9,700
190	100	60.5	171.6	7,200
190	110	57.0	165.3	5,300
190	120	53.2	158.1	3,600
190	130	49.3	149.8	2,300

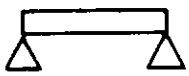
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

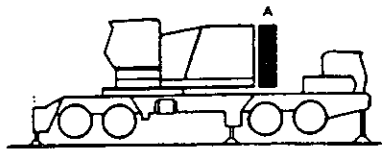
READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

SERIAL NUMBER

HL150T
IDENTIFICATION

76A BOOM – ON OUTRIGGERS OVER REAR
85% STABILITY





COUNTERWEIGHT CONFIGURATION

CAPACITY IN POUNDS
WITH 'A' COUNTERWEIGHT

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	12	82.7	47.1	265,700
40	13	81.3	46.9	244,700
40	14	79.8	46.6	226,700
40	15	78.3	46.3	211,000
40	16	76.8	46.0	197,400
40	17	75.3	45.7	185,200
40	18	73.8	45.3	174,600
40	19	72.2	44.9	164,900
40	20	70.7	44.5	156,200
40	25	62.6	41.8	105,300
40	30	53.7	38.1	76,800
40	35	43.4	32.9	59,700
40	40	29.9	24.9	48,300
50	13	83.0	57.0	243,900
50	14	81.9	56.9	225,900
50	15	80.7	56.6	210,200
50	16	79.5	56.4	196,600
50	17	78.3	56.1	184,500
50	18	77.1	55.8	173,800
50	19	75.9	55.5	164,200
50	20	74.7	55.2	155,500
50	25	68.6	53.2	105,800
50	30	62.1	50.5	77,000
50	35	55.1	46.9	59,800
50	40	47.3	42.4	48,400
50	45	38.2	36.2	40,200
50	50	26.2	27.0	34,000
60	15	82.3	66.8	209,900
60	16	81.3	66.6	196,200
60	17	80.3	66.4	184,100
60	18	79.3	66.2	173,500
60	19	78.4	65.9	163,800
60	20	77.4	65.7	155,100
60	25	72.3	64.0	106,200
60	30	67.2	61.8	77,300
60	35	61.7	59.1	60,000
60	40	55.9	55.7	48,600
60	45	49.7	51.5	40,300
60	50	42.7	46.1	34,200
60	60	23.6	28.8	25,500
70	17	81.7	76.6	183,900
70	18	80.9	76.4	173,200
70	19	80.1	76.2	163,600
70	20	79.2	76.0	154,900
70	25	75.0	74.6	106,400
70	30	70.6	72.8	77,500
70	35	66.1	70.5	60,100
70	40	61.5	67.8	48,700
70	45	56.6	64.4	40,500
70	50	51.3	60.4	34,300
70	60	39.2	49.5	25,700
70	70	21.6	30.5	19,800
80	18	82.0	86.6	172,800
80	19	81.3	86.4	163,100
80	20	80.6	86.2	154,400
80	25	76.9	85.0	106,600
80	30	73.2	83.4	77,500
80	35	69.3	81.5	60,100
80	40	65.4	79.2	48,600
80	45	61.3	76.4	40,300
80	50	57.0	73.1	34,100
80	60	47.7	64.7	25,600
80	70	36.4	52.7	19,700
80	80	20.0	32.1	15,500
90	19	82.3	96.6	163,000
90	20	81.6	96.4	154,300
90	25	78.4	95.3	106,700
90	30	75.1	93.9	77,600
90	35	71.7	92.3	60,100
90	40	68.3	90.2	48,700
90	45	64.8	87.8	40,400
90	50	61.1	85.1	34,200
90	60	53.4	78.1	25,700
90	70	44.7	68.8	19,900
90	80	34.2	55.7	15,700
90	90	18.7	33.6	12,500
100	21	81.9	106.4	146,100
100	25	79.6	105.6	106,800
100	30	76.6	104.3	77,600
100	35	73.6	102.8	60,000
100	40	70.6	101.1	48,600
100	45	67.5	98.9	40,200
100	50	64.3	96.5	34,000
100	60	57.6	90.5	25,500
100	70	50.4	82.8	19,700
100	80	42.2	72.5	15,500
100	90	32.3	58.5	12,300
100	100	17.6	35.0	9,800
110	24	81.1	116.0	115,300
110	25	80.5	115.8	106,800
110	30	77.9	114.7	77,500
110	35	75.2	113.3	59,900
110	40	72.4	111.7	48,400
110	45	69.7	109.8	40,100
110	50	66.8	107.7	33,800
110	60	60.9	102.4	25,300
110	70	54.7	95.7	19,500
110	80	47.8	87.1	15,300
110	90	40.1	76.1	12,200
110	100	30.6	61.1	9,700
110	110	16.7	36.3	7,700
120	26	80.8	125.8	99,500
120	30	78.9	124.9	77,500
120	35	76.4	123.7	59,800
120	40	74.0	122.2	48,200
120	45	71.4	120.5	39,900
120	50	68.9	118.6	33,600
120	60	63.6	113.8	25,000
120	70	58.0	107.9	19,200
120	80	52.1	100.5	15,000
120	90	45.6	91.3	11,800
120	100	38.2	79.5	9,400
120	110	29.2	63.6	7,400
120	120	15.9	37.6	5,700
130	27	81.1	135.8	92,700
130	30	79.8	135.2	77,200
130	35	77.5	134.0	59,600
130	40	75.2	132.7	48,000
130	45	72.9	131.1	39,700
130	50	70.6	129.3	33,400
130	60	65.8	125.0	24,900
130	70	60.8	119.7	19,000
130	80	55.5	113.1	14,900
130	90	49.9	105.1	11,700
130	100	43.7	95.2	9,300
130	110	36.6	82.7	7,300
130	120	28.0	66.0	5,700
130	130	15.2	38.8	4,300
140	29	80.9	145.5	81,900
140	30	80.5	145.4	77,200
140	35	78.4	144.3	59,500
140	40	76.3	143.1	47,900
140	45	74.2	141.6	39,500
140	50	72.0	140.0	33,200
140	60	67.6	136.0	24,600
140	70	63.1	131.2	18,700
140	80	58.3	125.2	14,500
140	90	53.3	118.1	11,400
140	100	47.9	109.5	8,900
140	110	42.0	99.0	7,000
140	120	35.2	85.8	5,400
140	130	26.9	68.3	4,000
140	140	14.6	40.0	2,800

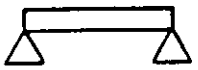
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

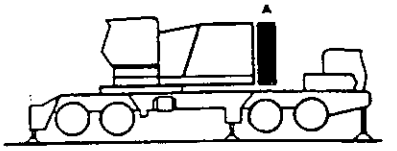
READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

SERIAL NUMBER

HL150T
IDENTIFICATION

76A BOOM – ON OUTRIGGERS 360°
85% STABILITY





CAPACITY IN POUNDS
WITH 'A' COUNTERWEIGHT

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	**12**	**82.7**	**47.1**	**265,700**
40	**13**	**81.3**	**46.9**	**244,700**
40	**14**	**79.8**	**46.6**	**226,700**
40	**15**	**78.3**	**46.3**	**211,000**
40	**16**	**76.8**	**46.0**	**197,400**
40	**17**	**75.3**	**45.7**	**185,200**
40	**18**	**73.8**	**45.3**	**174,600**
40	**19**	**72.2**	**44.9**	**164,900**
40	**20**	**70.7**	**44.5**	**156,200**
40	25	62.6	41.8	100,900
40	30	53.7	38.1	72,500
40	35	43.4	32.9	55,800
40	40	29.9	24.9	44,700
50	**13**	**83.0**	**57.0**	**243,900**
50	**14**	**81.9**	**56.9**	**225,900**
50	**15**	**80.7**	**56.6**	**210,200**
50	**16**	**79.5**	**56.4**	**196,600**
50	**17**	**78.3**	**56.1**	**184,500**
50	**18**	**77.1**	**55.8**	**173,800**
50	**19**	**75.9**	**55.5**	**164,200**
50	**20**	**74.7**	**55.2**	**155,500**
50	25	68.6	53.2	101,500
50	30	62.1	50.5	72,700
50	35	55.1	46.9	56,000
50	40	47.3	42.4	44,900
50	45	38.2	36.2	37,000
50	50	26.2	27.0	31,000
60	**15**	**82.3**	**66.8**	**209,900**
60	**16**	**81.3**	**66.6**	**196,300**
60	**17**	**80.3**	**66.4**	**184,100**
60	**18**	**79.3**	**66.2**	**173,500**
60	**19**	**78.4**	**65.9**	**163,800**
60	**20**	**77.4**	**65.7**	**155,100**
60	25	72.3	64.0	102,000
60	30	67.2	61.8	73,100
60	35	61.7	59.1	56,200
60	40	55.9	55.7	45,100
60	45	49.7	51.5	37,200
60	50	42.7	46.1	31,300
60	60	23.6	28.8	23,000
70	**17**	**81.7**	**76.6**	**183,900**
70	**18**	**80.9**	**76.4**	**173,200**
70	**19**	**80.1**	**76.2**	**163,600**
70	**20**	**79.2**	**76.0**	**154,900**
70	25	75.0	74.6	102,300
70	30	70.6	72.8	73,300
70	35	66.1	70.5	56,400
70	40	61.5	67.8	45,200

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
70	45	56.6	64.4	37,300
70	50	51.3	60.4	31,400
70	60	39.2	49.5	23,300
70	70	21.6	30.5	17,700
80	**18**	**82.0**	**86.6**	**172,800**
80	**19**	**81.3**	**86.4**	**163,100**
80	**20**	**80.6**	**86.2**	**154,400**
80	25	76.9	85.0	102,600
80	30	73.2	83.4	73,400
80	35	69.3	81.5	56,400
80	40	65.4	79.2	45,100
80	45	61.3	76.4	37,200
80	50	57.0	73.1	31,300
80	60	47.7	64.7	23,200
80	70	36.4	52.7	17,700
80	80	20.0	32.1	13,700
90	**19**	**82.3**	**96.6**	**163,000**
90	**20**	**81.6**	**96.4**	**154,300**
90	25	78.4	95.3	102,700
90	30	75.1	93.9	73,500
90	35	71.7	92.3	56,500
90	40	68.3	90.2	45,200
90	45	64.8	87.8	37,300
90	50	61.1	85.1	31,400
90	60	53.4	78.1	23,300
90	70	44.7	68.8	17,800
90	80	34.2	55.7	13,900
90	90	18.7	33.6	10,900
100	**21**	**81.9**	**106.4**	**146,100**
100	25	79.6	105.6	102,900
100	30	76.6	104.3	73,500
100	35	73.6	102.8	56,400
100	40	70.6	101.1	45,100
100	45	67.5	98.9	37,100
100	50	64.3	96.5	31,200
100	60	57.6	90.5	23,100
100	70	50.4	82.8	17,600
100	80	42.2	72.5	13,700
100	90	32.3	58.5	10,700
100	100	17.6	35.0	8,400
110	24	81.1	116.0	111,600
110	25	80.5	115.8	102,900
110	30	77.9	114.7	73,400
110	35	75.2	113.3	56,300
110	40	72.4	111.7	45,000
110	45	69.7	109.8	37,000
110	50	66.8	107.7	31,000

COUNTERWEIGHT CONFIGURATION

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
110	60	60.9	102.4	22,900
110	70	54.7	95.7	17,400
110	80	47.8	87.1	13,500
110	90	40.1	76.1	10,600
110	100	30.6	61.1	8,300
110	110	16.7	36.3	6,400
120	26	80.8	125.8	95,500
120	30	78.9	124.9	73,500
120	35	76.4	123.7	56,300
120	40	74.0	122.2	44,800
120	45	71.4	120.5	36,800
120	50	68.9	118.6	30,800
120	60	63.6	113.8	22,700
120	70	58.0	107.9	17,100
120	80	52.1	100.5	13,200
120	90	45.6	91.3	10,300
120	100	38.2	79.5	8,000
120	110	29.2	63.6	6,100
120	120	15.9	37.6	4,500
130	27	81.1	135.8	88,700
130	30	79.8	135.2	73,300
130	35	77.5	134.0	56,100
130	40	75.2	132.7	44,700
130	45	72.9	131.1	36,600
130	50	70.6	129.3	30,600
130	60	65.8	125.0	22,500
130	70	60.8	119.7	17,000
130	80	55.5	113.1	13,100
130	90	49.9	105.1	10,100
130	100	43.7	95.2	7,900
130	110	36.6	82.7	6,000
130	120	28.0	66.0	4,500
130	130	15.2	38.8	3,200

SEE NOTE 6! - FOR MACHINE ON OUTRIGGERS

140	29	80.9	145.5	78,000
140	30	80.5	145.4	73,300
140	35	78.4	144.3	56,000
140	40	76.3	143.1	44,500
140	45	74.2	141.6	36,400
140	50	72.0	140.0	30,400
140	60	67.6	136.0	22,300
140	70	63.1	131.2	16,700
140	80	58.3	125.2	12,800
140	90	53.3	118.1	9,800
140	100	47.9	109.5	7,500
140	110	42.0	99.0	5,700
140	120	35.2	85.8	4,200
140	130	26.9	68.3	2,900

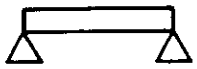
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

SERIAL NUMBER

HL150T
IDENTIFICATION

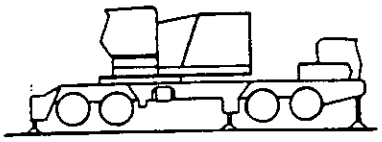
76A BOOM – ON OUTRIGGERS OVER REAR
85% STABILITY



CAPACITY IN POUNDS
WITH NO COUNTERWEIGHTS

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	12	82.7	47.1	245,300
40	13	81.3	46.9	225,800
40	14	79.8	46.6	209,100
40	15	78.3	46.3	194,700
40	16	76.8	46.0	182,000
40	17	75.3	45.7	170,800
40	18	73.8	45.3	160,200
40	19	72.2	44.9	141,200
40	20	70.7	44.5	126,000
40	25	62.6	41.8	80,900
40	30	53.7	38.1	58,600
40	35	43.4	32.9	45,200
40	40	29.9	24.9	36,100
50	13	83.0	57.0	225,100
50	14	81.9	56.9	208,300
50	15	80.7	56.6	193,900
50	16	79.5	56.4	181,200
50	17	78.3	56.1	170,100
50	18	77.1	55.8	160,100
50	19	75.9	55.5	142,300
50	20	74.7	55.2	126,900
50	25	68.6	53.2	81,300
50	30	62.1	50.5	58,800
50	35	55.1	46.9	45,300
50	40	47.3	42.4	36,300
50	45	38.2	36.2	29,800
50	50	26.2	27.0	24,900
60	15	82.3	66.8	193,600
60	16	81.3	66.6	180,900
60	17	80.3	66.4	169,800
60	18	79.3	66.2	159,800
60	19	78.4	65.9	143,200
60	20	77.4	65.7	127,600
60	25	72.3	64.0	81,800
60	30	67.2	61.8	59,000
60	35	61.7	59.1	45,500
60	40	55.9	55.7	36,400
60	45	49.7	51.5	29,900
60	50	42.7	46.1	25,100
60	60	23.6	28.8	18,200

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
70	17	81.7	76.6	169,500
70	18	80.9	76.4	159,500
70	19	80.1	76.2	143,700
70	20	79.2	76.0	128,100
70	25	75.0	74.6	82,000
70	30	70.6	72.8	59,100
70	35	66.1	70.5	45,600
70	40	61.5	67.8	36,500
70	45	56.6	64.4	30,100
70	50	51.3	60.4	25,300
70	60	39.2	49.5	18,400
70	70	21.6	30.5	13,700
80	18	82.0	86.6	159,100
80	19	81.3	86.4	144,300
80	20	80.6	86.2	128,600
80	25	76.9	85.0	82,200
80	30	73.2	83.4	59,200
80	35	69.3	81.5	45,600
80	40	65.4	79.2	36,400
80	45	61.3	76.4	29,900
80	50	57.0	73.1	25,200
80	60	47.7	64.7	18,300
80	70	36.4	52.7	13,700
80	80	20.0	32.1	10,300
90	19	82.3	96.6	144,400
90	20	81.6	96.4	128,700
90	25	78.4	95.3	82,300
90	30	75.1	93.9	59,300
90	35	71.7	92.3	45,700
90	40	68.3	90.2	36,500
90	45	64.8	87.8	30,000
90	50	61.1	85.1	25,300
90	60	53.4	78.1	18,400
90	70	44.7	68.8	13,800
90	80	34.2	55.7	10,500
90	90	18.7	33.6	8,000



COUNTERWEIGHT CONFIGURATION

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
100	21	81.9	106.4	116,400
100	25	79.6	105.6	82,500
100	30	76.6	104.3	59,300
100	35	73.6	102.8	45,600
100	40	70.6	101.1	36,400
100	45	67.5	98.9	29,800
100	50	64.3	96.5	25,100
100	60	57.6	90.5	18,200
100	70	50.4	82.8	13,600
100	80	42.2	72.5	10,300
100	90	32.3	58.5	7,800
100	100	17.6	35.0	5,800
110	24	81.1	116.0	89,000
110	25	80.5	115.8	82,500
110	30	77.9	114.7	59,200
110	35	75.2	113.3	45,500
110	40	72.4	111.7	36,200
110	45	69.7	109.8	29,700
110	50	66.8	107.7	24,900
110	60	60.9	102.4	18,000
110	70	54.7	95.7	13,400
110	80	47.8	87.1	10,100
110	90	40.1	76.1	7,600
110	100	30.6	61.1	5,700
110	110	16.7	36.3	4,000
120	26	80.8	125.8	76,700
120	30	78.9	124.9	59,200
120	35	76.4	123.7	45,400
120	40	74.0	122.2	36,100
120	45	71.4	120.5	29,400
120	50	68.9	118.6	24,700
120	60	63.6	113.8	17,700
120	70	58.0	107.9	13,100
120	80	52.1	100.5	9,800
120	90	45.6	91.3	7,300
120	100	38.2	79.5	5,400
120	110	29.2	63.6	3,800
120	120	15.9	37.6	2,400

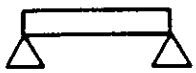
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

SERIAL NUMBER

HL150T
IDENTIFICATION

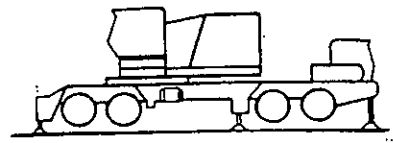
76A BOOM – ON OUTRIGGERS 360°
85% STABILITY



CAPACITY IN POUNDS
WITH NO COUNTERWEIGHTS

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	12	82.7	47.1	245,300
40	13	81.3	46.9	225,800
40	14	79.8	46.6	209,100
40	15	78.3	46.3	194,700
40	16	76.8	46.0	182,000
40	17	75.3	45.7	170,900
40	18	73.8	45.3	155,800
40	19	72.2	44.9	135,500
40	20	70.7	44.5	119,600
40	25	62.6	41.8	74,400
40	30	53.7	38.1	52,900
40	35	43.4	32.9	40,200
40	40	29.9	24.9	31,800
50	13	83.0	57.0	225,100
50	14	81.9	56.9	208,300
50	15	80.7	56.6	193,900
50	16	79.5	56.4	181,200
50	17	78.3	56.1	170,100
50	18	77.1	55.8	157,500
50	19	75.9	55.5	136,900
50	20	74.7	55.2	120,800
50	25	68.6	53.2	75,000
50	30	62.1	50.5	53,200
50	35	55.1	46.9	40,400
50	40	47.3	42.4	32,000
50	45	38.2	36.2	26,100
50	50	26.2	27.0	21,500
60	15	82.3	66.8	193,600
60	16	81.3	66.6	180,900
60	17	80.3	66.4	169,800
60	18	79.3	66.2	158,800
60	19	78.4	65.9	138,000
60	20	77.4	65.7	121,700
60	25	72.3	64.0	75,500
60	30	67.2	61.8	53,500
60	35	61.7	59.1	40,700
60	40	55.9	55.7	32,200
60	45	49.7	51.5	26,300
60	50	42.7	46.1	21,800
60	60	23.6	28.8	15,400

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
70	17	81.7	76.6	169,500
70	18	80.9	76.4	159,500
70	19	80.1	76.2	138,600
70	20	79.2	76.0	122,300
70	25	75.0	74.6	75,800
70	30	70.6	72.8	53,800
70	35	66.1	70.5	40,800
70	40	61.5	67.8	32,300
70	45	56.6	64.4	26,400
70	50	51.3	60.4	22,000
70	60	39.2	49.5	15,700
70	70	21.6	30.5	11,400
80	18	82.0	86.6	159,100
80	19	81.3	86.4	139,400
80	20	80.6	86.2	123,000
80	25	76.9	85.0	76,100
80	30	73.2	83.4	53,900
80	35	69.3	81.5	40,900
80	40	65.4	79.2	32,300
80	45	61.3	76.4	26,400
80	50	57.0	73.1	21,900
80	60	47.7	64.7	15,600
80	70	36.4	52.7	11,300
80	80	20.0	32.1	8,300
90	19	82.3	96.6	139,500
90	20	81.6	96.4	123,000
90	25	78.4	95.3	76,200
90	30	75.1	93.9	54,000
90	35	71.7	92.3	40,900
90	40	68.3	90.2	32,400
90	45	64.8	87.8	26,500
90	50	61.1	85.1	22,000
90	60	53.4	78.1	15,700
90	70	44.7	68.8	11,500
90	80	34.2	55.7	8,500
90	90	18.7	33.6	6,200



COUNTERWEIGHT CONFIGURATION

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
100	21	81.9	106.4	110,500
100	25	79.6	105.6	76,400
100	30	76.6	104.3	54,100
100	35	73.6	102.8	40,900
100	40	70.6	101.1	32,300
100	45	67.5	98.9	26,300
100	50	64.3	96.5	21,800
100	60	57.6	90.5	15,500
100	70	50.4	82.8	11,300
100	80	42.2	72.5	8,300
100	90	32.3	58.5	6,000
100	100	17.6	35.0	4,200
110	24	81.1	116.0	83,100
110	25	80.5	115.8	76,500
110	30	77.9	114.7	54,000
110	35	75.2	113.3	40,800
110	40	72.4	111.7	32,100
110	45	69.7	109.8	26,200
110	50	66.8	107.7	21,600
110	60	60.9	102.4	15,300
110	70	54.7	95.7	11,100
110	80	47.8	87.1	8,100
110	90	40.1	76.1	5,800
110	100	30.6	61.1	4,100
110	110	16.7	36.3	2,600
SEE NOTE 6! - FOR MACHINE ON OUTRIGGERS				
120	26	80.8	125.8	70,900
120	30	78.9	124.9	54,000
120	35	76.4	123.7	40,700
120	40	74.0	122.2	32,000
120	45	71.4	120.5	26,000
120	50	68.9	118.6	21,400
120	60	63.6	113.8	15,000
120	70	58.0	107.9	10,800
120	80	52.1	100.5	7,800
120	90	45.6	91.3	5,500
120	100	38.2	79.5	3,800
120	110	29.2	63.6	2,300

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

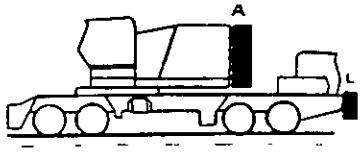
SERIAL NUMBER

HL150T
IDENTIFICATION

76A BOOM – ON TIRES BOOM CENTERED OVER REAR

WITH RADIAL OR BIAS PLY TIRES

75% STABILITY



COUNTERWEIGHT CONFIGURATION

STATIONARY CAPACITY IN POUNDS
WITH A + L COUNTERWEIGHTS
OUTRIGGERS INSTALLED

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	12	82.7	47.1	135,200
40	13	81.3	46.9	121,000
40	14	79.8	46.6	108,400
40	15	78.3	46.3	98,000
40	16	76.8	46.0	89,300
40	17	75.3	45.7	82,000
40	18	73.8	45.3	75,800
40	19	72.2	44.9	70,300
40	20	70.7	44.5	65,500
40	25	62.6	41.8	48,500
40	30	53.7	38.1	38,000
40	35	43.4	32.9	30,800
40	40	29.9	24.9	25,500
50	13	83.0	57.0	121,100
50	14	81.9	56.9	108,400
50	15	80.7	56.6	97,900
50	16	79.5	56.4	89,200
50	17	78.3	56.1	81,900
50	18	77.1	55.8	75,600
50	19	75.9	55.5	70,100
50	20	74.7	55.2	65,300
50	25	68.6	53.2	48,300
50	30	62.1	50.5	37,700
50	35	55.1	46.9	30,500
50	40	47.3	42.4	25,300
50	45	38.2	36.2	21,300
50	50	26.2	27.0	18,100
60	15	82.3	66.8	98,000
60	16	81.3	66.6	89,300
60	17	80.3	66.4	82,000
60	18	79.3	66.2	75,600
60	19	78.4	65.9	70,100
60	20	77.4	65.7	65,300
60	25	72.3	64.0	48,200
60	30	67.2	61.8	37,600
60	35	61.7	59.1	30,400
60	40	55.9	55.7	25,300
60	45	49.7	51.5	21,300
60	50	42.7	46.1	18,200
60	60	23.6	28.8	13,500
70	17	81.7	76.6	82,000
70	18	80.9	76.4	75,700
70	19	80.1	76.2	70,100
70	20	79.2	76.0	65,300
70	25	75.0	74.6	48,200
70	30	70.6	72.8	37,600
70	35	66.1	70.5	30,400
70	40	61.5	67.8	25,300
70	45	56.6	64.4	21,300
70	50	51.3	60.4	18,200
70	60	39.2	49.5	13,600
70	70	21.6	30.5	10,300
80	18	82.0	86.6	75,600
80	19	81.3	86.4	70,000
80	20	80.6	86.2	65,200
80	25	76.9	85.0	48,000
80	30	73.2	83.4	37,400
80	35	69.3	81.5	30,200
80	40	65.4	79.2	25,000
80	45	61.3	76.4	21,100
80	50	57.0	73.1	18,000
80	60	47.7	64.7	13,400
80	70	36.4	52.7	10,200
80	80	20.0	32.1	7,700
90	19	82.3	96.6	70,000
90	20	81.6	96.4	65,200
90	25	78.4	95.3	48,000
90	30	75.1	93.9	37,400
90	35	71.7	92.3	30,200
90	40	68.3	90.2	25,100
90	45	64.8	87.8	21,100
90	50	61.1	85.1	18,000
90	60	53.4	78.1	13,500
90	70	44.7	68.8	10,300
90	80	34.2	55.7	7,900
90	90	18.7	33.6	6,000
100	21	81.9	106.4	60,800
100	25	79.6	105.6	47,800
100	30	76.6	104.3	37,200
100	35	73.6	102.8	29,900
100	40	70.6	101.1	24,800
100	45	67.5	98.9	20,900
100	50	64.3	96.5	17,700
100	60	57.6	90.5	13,200
100	70	50.4	82.8	10,000
100	80	42.2	72.5	7,600
100	90	32.3	58.5	5,800
100	100	17.6	35.0	4,300
110	24	81.1	116.0	50,400
110	25	80.5	115.8	47,600
110	30	77.9	114.7	36,900
110	35	75.2	113.3	29,700
110	40	72.4	111.7	24,600
110	45	69.7	109.8	20,600
110	50	66.8	107.7	17,500
110	60	60.9	102.4	13,000
110	70	54.7	95.7	9,800
110	80	47.8	87.1	7,400
110	90	40.1	76.1	5,600
110	100	30.6	61.1	4,100
110	110	16.7	36.3	2,900
SEE NOTE 8! - FOR MACHINE ON TIRES				
120	26	80.8	125.8	44,900
120	30	78.9	124.9	36,700
120	35	76.4	123.7	29,400
120	40	74.0	122.2	24,300
120	45	71.4	120.5	20,300
120	50	68.9	118.6	17,200
120	60	63.6	113.8	12,700
120	70	58.0	107.9	9,500
120	80	52.1	100.5	7,100
120	90	45.6	91.3	5,300
120	100	38.2	79.5	3,800
120	110	29.2	63.6	2,600
130	27	81.1	135.8	42,400
130	30	79.8	135.2	36,500
130	35	77.5	134.0	29,200
130	40	75.2	132.7	24,200
130	45	72.9	131.1	20,200
130	50	70.6	129.3	17,100
130	60	65.8	125.0	12,500
130	70	60.8	119.7	9,300
130	80	55.5	113.1	7,000
130	90	49.9	105.1	5,200
130	100	43.7	95.2	3,700
130	110	36.6	82.7	2,500

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ARE BASED ON STRUCTURAL OR OTHER FACTORS

OTES ON A6-829-800214 LOCATED IN THE FRONT OF
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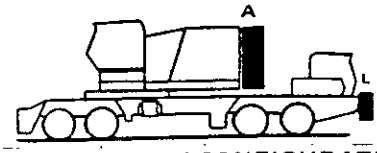
HL150T
IDENTIFICATION

-800175
of 1

76A BOOM – ON TIRES – DEFINED ARC - OVER REAR*

WITH RADIAL OR BIAS PLY TIRES

75% STABILITY



COUNTERWEIGHT CONFIGURATION

STATIONARY CAPACITY IN POUNDS
WITH A + L COUNTERWEIGHTS
OUTRIGGERS INSTALLED

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	12	82.7	47.1	107,600
40	13	81.3	46.9	102,400
40	14	79.8	46.6	97,600
40	15	78.3	46.3	93,200
40	16	76.8	46.0	89,200
40	17	75.3	45.7	82,000
40	18	73.8	45.3	75,800
40	19	72.2	44.9	70,300
40	20	70.7	44.5	65,500
40	25	62.6	41.8	48,500
40	30	53.7	38.1	38,000
40	35	43.4	32.9	30,800
40	40	29.9	24.9	25,500
50	13	83.0	57.0	101,000
50	14	81.9	56.9	96,200
50	15	80.7	56.6	91,800
50	16	79.5	56.4	87,900
50	17	78.3	56.1	81,900
50	18	77.1	55.8	75,600
50	19	75.9	55.5	70,100
50	20	74.7	55.2	65,300
50	25	68.6	53.2	48,300
50	30	62.1	50.5	37,700
50	35	55.1	46.9	30,500
50	40	47.3	42.4	25,300
50	45	38.2	36.2	21,300
50	50	26.2	27.0	18,100
60	15	82.3	66.8	91,100
60	16	81.3	66.6	87,200
60	17	80.3	66.4	82,000
60	18	79.3	66.2	75,600
60	19	78.4	65.9	70,100
60	20	77.4	65.7	65,300
60	25	72.3	64.0	48,200
60	30	67.2	61.8	37,600
60	35	61.7	59.1	30,400
60	40	55.9	55.7	25,300
60	45	49.7	51.5	21,300
60	50	42.7	46.1	18,200
60	60	23.6	28.8	13,500
70	17	81.7	76.6	82,000
70	18	80.9	76.4	75,700
70	19	80.1	76.2	70,100
70	20	79.2	76.0	65,300
70	25	75.0	74.6	48,200
70	30	70.6	72.8	37,600
70	35	66.1	70.5	30,400
70	40	61.5	67.8	25,300
70	45	56.6	64.4	21,300
70	50	51.3	60.4	18,200
70	60	39.2	49.5	13,600
70	70	21.6	30.5	10,300
80	18	82.0	86.6	75,600
80	19	81.3	86.4	70,000
80	20	80.6	86.2	65,200
80	25	76.9	85.0	48,000
80	30	73.2	83.4	37,400
80	35	69.3	81.5	30,200
80	40	65.4	79.2	25,000
80	45	61.3	76.4	21,100
80	50	57.0	73.1	18,000
80	60	47.7	64.7	13,400
80	70	36.4	52.7	10,200
80	80	20.0	32.1	7,700
90	19	82.3	96.6	70,000
90	20	81.6	96.4	65,200
90	25	78.4	95.3	48,000
90	30	75.1	93.9	37,400
90	35	71.7	92.3	30,200
90	40	68.3	90.2	25,100
90	45	64.8	87.8	21,100
90	50	61.1	85.1	18,000
90	60	53.4	78.1	13,500
90	70	44.7	68.8	10,300
90	80	34.2	55.7	7,900
90	90	18.7	33.6	6,000
100	21	81.9	106.4	60,800
100	25	79.6	105.6	47,800
100	30	76.6	104.3	37,200
100	35	73.6	102.8	29,900
100	40	70.6	101.1	24,800
100	45	67.5	98.9	20,900
100	50	64.3	96.5	17,700
100	60	57.6	90.5	13,200
100	70	50.4	82.8	10,000
100	80	42.2	72.5	7,600
100	90	32.3	58.5	5,800
100	100	17.6	35.0	4,300
110	24	81.1	116.0	50,400
110	25	80.5	115.8	47,600
110	30	77.9	114.7	36,900
110	35	75.2	113.3	29,700
110	40	72.4	111.7	24,600
110	45	69.7	109.8	20,600
110	50	66.8	107.7	17,500
110	60	60.9	102.4	13,000
110	70	54.7	95.7	9,800
110	80	47.8	87.1	7,400
110	90	40.1	76.1	5,600
110	100	30.6	61.1	4,100
110	110	16.7	36.3	2,900
SEE NOTE 8! - FOR MACHINE ON TIRES				
120	26	80.8	125.8	44,900
120	30	78.9	124.9	36,700
120	35	76.4	123.7	29,400
120	40	74.0	122.2	24,300
120	45	71.4	120.5	20,300
120	50	68.9	118.6	17,200
120	60	63.6	113.8	12,700
120	70	58.0	107.9	9,500
120	80	52.1	100.5	7,100
120	90	45.6	91.3	5,300
120	100	38.2	79.5	3,800
120	110	29.2	63.6	2,600
130	27	81.1	135.8	42,400
130	30	79.8	135.2	36,500
130	35	77.5	134.0	29,200
130	40	75.2	132.7	24,200
130	45	72.9	131.1	20,200
130	50	70.6	129.3	17,100
130	60	65.8	125.0	12,500
130	70	60.8	119.7	9,300
130	80	55.5	113.1	7,000
130	90	49.9	105.1	5,200
130	100	43.7	95.2	3,700
130	110	36.6	82.7	2,500

*DEFINED ARC - OVER REAR INCLUDES ±8° ON EITHER SIDE OF LONGITUDINAL CENTER LINE OF MACHINE. REFER TO A6-829-800101 'LIFTING AREA DIAGRAM ON TIRES'.

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

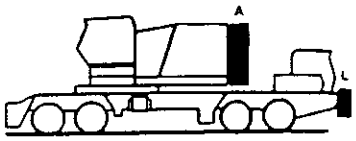
SERIAL NUMBER

HL150T
IDENTIFICATION

PICK & CARRY CAPACITY (UP TO 1 MPH)
76A BOOM – ON TIRES BOOM CENTERED OVER REAR
WITH RADIAL PLY TIRES
75% STABILITY

CAPACITY IN POUNDS
WITH A + L COUNTERWEIGHTS
OUTRIGGERS INSTALLED

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	**12**	**82.7**	**47.1**	**106,000**
40	**13**	**81.3**	**46.9**	**102,100**
40	**14**	**79.8**	**46.6**	**98,400**
40	**15**	**78.3**	**46.3**	**94,900**
40	16	76.8	46.0	89,300
40	17	75.3	45.7	82,000
40	18	73.8	45.3	75,800
40	19	72.2	44.9	70,300
40	20	70.7	44.5	65,500
40	25	62.6	41.8	48,500
40	30	53.7	38.1	38,000
40	35	43.4	32.9	30,800
40	40	29.9	24.9	25,500
50	**13**	**83.0**	**57.0**	**100,400**
50	**14**	**81.9**	**56.9**	**96,700**
50	**15**	**80.7**	**56.6**	**93,300**
50	16	79.5	56.4	89,200
50	17	78.3	56.1	81,900
50	18	77.1	55.8	75,600
50	19	75.9	55.5	70,100
50	20	74.7	55.2	65,300
50	25	68.6	53.2	48,300
50	30	62.1	50.5	37,700
50	35	55.1	46.9	30,500
50	40	47.3	42.4	25,300
50	45	38.2	36.2	21,300
50	50	26.2	27.0	18,100
60	**15**	**82.3**	**66.8**	**92,400**
60	**16**	**81.3**	**66.6**	**89,200**
60	17	80.3	66.4	82,000
60	18	79.3	66.2	75,600
60	19	78.4	65.9	70,100
60	20	77.4	65.7	65,300
60	25	72.3	64.0	48,200
60	30	67.2	61.8	37,600
60	35	61.7	59.1	30,400
60	40	55.9	55.7	25,300
60	45	49.7	51.5	21,300
60	50	42.7	46.1	18,200
60	60	23.6	28.8	13,500
70	17	81.7	76.6	82,000
70	18	80.9	76.4	75,700
70	19	80.1	76.2	70,100
70	20	79.2	76.0	65,300
70	25	75.0	74.6	48,200
70	30	70.6	72.8	37,600
70	35	66.1	70.5	30,400
70	40	61.5	67.8	25,300
70	45	56.6	64.4	21,300
70	50	51.3	60.4	18,200
70	60	39.2	49.5	13,600
70	70	21.6	30.5	10,300
80	18	82.0	86.6	75,600
80	19	81.3	86.4	70,000
80	20	80.6	86.2	65,200
80	25	76.9	85.0	48,000
80	30	73.2	83.4	37,400
80	35	69.3	81.5	30,200
80	40	65.4	79.2	25,000
80	45	61.3	76.4	21,100
80	50	57.0	73.1	18,000
80	60	47.7	64.7	13,400
80	70	36.4	52.7	10,200
80	80	20.0	32.1	7,700
90	19	82.3	96.6	70,000
90	20	81.6	96.4	65,200
90	25	78.4	95.3	48,000
90	30	75.1	93.9	37,400
90	35	71.7	92.3	30,200
90	40	68.3	90.2	25,100
90	45	64.8	87.8	21,100
90	50	61.1	85.1	18,000
90	60	53.4	78.1	13,500
90	70	44.7	68.8	10,300
90	80	34.2	55.7	7,900
90	90	18.7	33.6	6,000
100	21	81.9	106.4	60,800
100	25	79.6	105.6	47,800
100	30	76.6	104.3	37,200
100	35	73.6	102.8	29,900
100	40	70.6	101.1	24,800
100	45	67.5	98.9	20,900
100	50	64.3	96.5	17,700
100	60	57.6	90.5	13,200



COUNTERWEIGHT CONFIGURATION

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
100	70	50.4	82.8	10,000
100	80	42.2	72.5	7,600
100	90	32.3	58.5	5,800
100	100	17.6	35.0	4,300
110	24	81.1	116.0	50,400
110	25	80.5	115.8	47,600
110	30	77.9	114.7	36,900
110	35	75.2	113.3	29,700
110	40	72.4	111.7	24,600
110	45	69.7	109.8	20,600
110	50	66.8	107.7	17,500
110	60	60.9	102.4	13,000
110	70	54.7	95.7	9,800
110	80	47.8	87.1	7,400
110	90	40.1	76.1	5,600
110	100	30.6	61.1	4,100
110	110	16.7	36.3	2,900
SEE NOTE 8! - FOR MACHINE ON TIRES				
120	26	80.8	125.8	44,900
120	30	78.9	124.9	36,700
120	35	76.4	123.7	29,400
120	40	74.0	122.2	24,300
120	45	71.4	120.5	20,300
120	50	68.9	118.6	17,200
120	60	63.6	113.8	12,700
120	70	58.0	107.9	9,500
120	80	52.1	100.5	7,100
120	90	45.6	91.3	5,300
120	100	38.2	79.5	3,800
120	110	29.2	63.6	2,600
130	27	81.1	135.8	42,400
130	30	79.8	135.2	36,500
130	35	77.5	134.0	29,200
130	40	75.2	132.7	24,200
130	45	72.9	131.1	20,200
130	50	70.6	129.3	17,100
130	60	65.8	125.0	12,500
130	70	60.8	119.7	9,300
130	80	55.5	113.1	7,000
130	90	49.9	105.1	5,200
130	100	43.7	95.2	3,700
130	110	36.6	82.7	2,500

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

SERIAL NUMBER

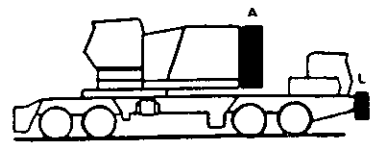
HL150T
IDENTIFICATION

PICK & CARRY CAPACITY (UP TO 1 MPH)
76A BOOM – ON TIRES BOOM CENTERED OVER REAR
WITH BIAS PLY TIRES
75% STABILITY

CAPACITY IN POUNDS
WITH A + L COUNTERWEIGHTS
OUTRIGGERS INSTALLED

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	**12**	**82.7**	**47.1**	**95,000**
40	**13**	**81.3**	**46.9**	**91,400**
40	**14**	**79.8**	**46.6**	**88,200**
40	**15**	**78.3**	**46.3**	**85,100**
40	**16**	**76.8**	**46.0**	**82,100**
40	**17**	**75.3**	**45.7**	**79,400**
40	18	73.8	45.3	75,800
40	19	72.2	44.9	70,300
40	20	70.7	44.5	65,500
40	25	62.6	41.8	48,500
40	30	53.7	38.1	38,000
40	35	43.4	32.9	30,800
40	40	29.9	24.9	25,500
50	**13**	**83.0**	**57.0**	**89,800**
50	**14**	**81.9**	**56.9**	**86,500**
50	**15**	**80.7**	**56.6**	**83,400**
50	**16**	**79.5**	**56.4**	**80,500**
50	**17**	**78.3**	**56.1**	**77,800**
50	**18**	**77.1**	**55.8**	**75,200**
50	19	75.9	55.5	70,100
50	20	74.7	55.2	65,300
50	25	68.6	53.2	48,300
50	30	62.1	50.5	37,700
50	35	55.1	46.9	30,500
50	40	47.3	42.4	25,300
50	45	38.2	36.2	21,300
50	50	26.2	27.0	18,100
60	**15**	**82.3**	**66.8**	**82,600**
60	**16**	**81.3**	**66.6**	**79,700**
60	**17**	**80.3**	**66.4**	**77,000**
60	**18**	**79.3**	**66.2**	**74,400**
60	19	78.4	65.9	70,100
60	20	77.4	65.7	65,300
60	25	72.3	64.0	48,200
60	30	67.2	61.8	37,600
60	35	61.7	59.1	30,400
60	40	55.9	55.7	25,300
60	45	49.7	51.5	21,300
60	50	42.7	46.1	18,200
60	60	23.6	28.8	13,500
70	**17**	**81.7**	**76.6**	**76,400**
70	**18**	**80.9**	**76.4**	**73,900**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
70	19	80.1	76.2	70,100
70	20	79.2	76.0	65,300
70	25	75.0	74.6	48,200
70	30	70.6	72.8	37,600
70	35	66.1	70.5	30,400
70	40	61.5	67.8	25,300
70	45	56.6	64.4	21,300
70	50	51.3	60.4	18,200
70	60	39.2	49.5	13,600
70	70	21.6	30.5	10,300
80	**18**	**82.0**	**86.6**	**73,000**
80	19	81.3	86.4	70,000
80	20	80.6	86.2	65,200
80	25	76.9	85.0	48,000
80	30	73.2	83.4	37,400
80	35	69.3	81.5	30,200
80	40	65.4	79.2	25,000
80	45	61.3	76.4	21,100
80	50	57.0	73.1	18,000
80	60	47.7	64.7	13,400
80	70	36.4	52.7	10,200
80	80	20.0	32.1	7,700
90	19	82.3	96.6	70,000
90	20	81.6	96.4	65,200
90	25	78.4	95.3	48,000
90	30	75.1	93.9	37,400
90	35	71.7	92.3	30,200
90	40	68.3	90.2	25,100
90	45	64.8	87.8	21,100
90	50	61.1	85.1	18,000
90	60	53.4	78.1	13,500
90	70	44.7	68.8	10,300
90	80	34.2	55.7	7,900
90	90	18.7	33.6	6,000
100	21	81.9	106.4	60,800
100	25	79.6	105.6	47,800
100	30	76.6	104.3	37,200
100	35	73.6	102.8	29,900
100	40	70.6	101.1	24,800
100	45	67.5	98.9	20,900
100	50	64.3	96.5	17,700
100	60	57.6	90.5	13,200



COUNTERWEIGHT CONFIGURATION

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
100	70	50.4	82.8	10,000
100	80	42.2	72.5	7,600
100	90	32.3	58.5	5,800
100	100	17.6	35.0	4,300
110	24	81.1	116.0	50,400
110	25	80.5	115.8	47,600
110	30	77.9	114.7	36,900
110	35	75.2	113.3	29,700
110	40	72.4	111.7	24,600
110	45	69.7	109.8	20,600
110	50	66.8	107.7	17,500
110	60	60.9	102.4	13,000
110	70	54.7	95.7	9,800
110	80	47.8	87.1	7,400
110	90	40.1	76.1	5,600
110	100	30.6	61.1	4,100
110	110	16.7	36.3	2,900

SEE NOTE 8! - FOR MACHINE ON TIRES

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
120	26	80.8	125.8	44,900
120	30	78.9	124.9	36,700
120	35	76.4	123.7	29,400
120	40	74.0	122.2	24,300
120	45	71.4	120.5	20,300
120	50	68.9	118.6	17,200
120	60	63.6	113.8	12,700
120	70	58.0	107.9	9,500
120	80	52.1	100.5	7,100
120	90	45.6	91.3	5,300
120	100	38.2	79.5	3,800
120	110	29.2	63.6	2,600
130	27	81.1	135.8	42,400
130	30	79.8	135.2	36,500
130	35	77.5	134.0	29,200
130	40	75.2	132.7	24,200
130	45	72.9	131.1	20,200
130	50	70.6	129.3	17,100
130	60	65.8	125.0	12,500
130	70	60.8	119.7	9,300
130	80	55.5	113.1	7,000
130	90	49.9	105.1	5,200
130	100	43.7	95.2	3,700
130	110	36.6	82.7	2,500

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

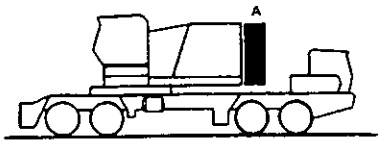
SERIAL NUMBER

HL150T
IDENTIFICATION

76A BOOM – ON TIRES – DEFINED ARC - OVER REAR*

WITH RADIAL OR BIAS PLY TIRES

75% STABILITY



COUNTERWEIGHT CONFIGURATION

STATIONARY CAPACITY IN POUNDS
WITH 'A' COUNTERWEIGHT
OUTRIGGERS INSTALLED

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	12	82.7	47.1	103,200
40	13	81.3	46.9	91,000
40	14	79.8	46.6	81,400
40	15	78.3	46.3	73,500
40	16	76.8	46.0	66,900
40	17	75.3	45.7	61,300
40	18	73.8	45.3	56,500
40	19	72.2	44.9	52,300
40	20	70.7	44.5	48,700
40	25	62.6	41.8	35,600
40	30	53.7	38.1	27,600
40	35	43.4	32.9	22,100
40	40	29.9	24.9	18,000
50	13	83.0	57.0	91,100
50	14	81.9	56.9	81,400
50	15	80.7	56.6	73,500
50	16	79.5	56.4	66,800
50	17	78.3	56.1	61,100
50	18	77.1	55.8	56,400
50	19	75.9	55.5	52,200
50	20	74.7	55.2	48,500
50	25	68.6	53.2	35,400
50	30	62.1	50.5	27,300
50	35	55.1	46.9	21,800
50	40	47.3	42.4	17,800
50	45	38.2	36.2	14,700
50	50	26.2	27.0	12,300
60	15	82.3	66.8	73,600
60	16	81.3	66.6	66,900
60	17	80.3	66.4	61,200
60	18	79.3	66.2	56,400
60	19	78.4	65.9	52,200
60	20	77.4	65.7	48,500
60	25	72.3	64.0	35,300
60	30	67.2	61.8	27,300
60	35	61.7	59.1	21,800
60	40	55.9	55.7	17,800
60	45	49.7	51.5	14,700
60	50	42.7	46.1	12,300
60	60	23.6	28.8	8,700

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
70	17	81.7	76.6	61,200
70	18	80.9	76.4	56,500
70	19	80.1	76.2	52,200
70	20	79.2	76.0	48,500
70	25	75.0	74.6	35,300
70	30	70.6	72.8	27,300
70	35	66.1	70.5	21,800
70	40	61.5	67.8	17,700
70	45	56.6	64.4	14,700
70	50	51.3	60.4	12,300
70	60	39.2	49.5	8,800
70	70	21.6	30.5	6,200
80	18	82.0	86.6	56,400
80	19	81.3	86.4	52,100
80	20	80.6	86.2	48,400
80	25	76.9	85.0	35,200
80	30	73.2	83.4	27,100
80	35	69.3	81.5	21,500
80	40	65.4	79.2	17,500
80	45	61.3	76.4	14,500
80	50	57.0	73.1	12,100
80	60	47.7	64.7	8,600
80	70	36.4	52.7	6,100
80	80	20.0	32.1	4,200
90	19	82.3	96.6	52,100
90	20	81.6	96.4	48,400
90	25	78.4	95.3	35,200
90	30	75.1	93.9	27,100
90	35	71.7	92.3	21,600
90	40	68.3	90.2	17,600
90	45	64.8	87.8	14,500
90	50	61.1	85.1	12,100
90	60	53.4	78.1	8,600
90	70	44.7	68.8	6,200
90	80	34.2	55.7	4,300
90	90	18.7	33.6	2,900
SEE NOTE 8! - FOR MACHINE ON TIRES				
100	21	81.9	106.4	45,000
100	25	79.6	105.6	35,000
100	30	76.6	104.3	26,900

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
SEE NOTE 8! - FOR MACHINE ON TIRES				
100	35	73.6	102.8	21,300
100	40	70.6	101.1	17,300
100	45	67.5	98.9	14,300
100	50	64.3	96.5	11,900
100	60	57.6	90.5	8,400
100	70	50.4	82.8	5,900
100	80	42.2	72.5	4,100
100	90	32.3	58.5	2,600
110	24	81.1	116.0	36,900
110	25	80.5	115.8	34,800
110	30	77.9	114.7	26,700
110	35	75.2	113.3	21,100
110	40	72.4	111.7	17,100
110	45	69.7	109.8	14,000
110	50	66.8	107.7	11,700
110	60	60.9	102.4	8,100
110	70	54.7	95.7	5,700
110	80	47.8	87.1	3,900
110	90	40.1	76.1	2,500
120	26	80.8	125.8	32,600
120	30	78.9	124.9	26,500
120	35	76.4	123.7	20,900
120	40	74.0	122.2	16,800
120	45	71.4	120.5	13,800
120	50	68.9	118.6	11,400
120	60	63.6	113.8	7,800
120	70	58.0	107.9	5,400
120	80	52.1	100.5	3,500
120	90	45.6	91.3	2,100
130	27	81.1	135.8	30,600
130	30	79.8	135.2	26,300
130	35	77.5	134.0	20,700
130	40	75.2	132.7	16,700
130	45	72.9	131.1	13,600
130	50	70.6	129.3	11,200
130	60	65.8	125.0	7,700
130	70	60.8	119.7	5,200
130	80	55.5	113.1	3,400
130	90	49.9	105.1	2,000

*DEFINED ARC - OVER REAR INCLUDES ±8° ON EITHER SIDE OF LONGITUDINAL CENTERLINE OF MACHINE. REFER TO A6-829-800101 'LIFTING AREA DIAGRAM ON TIRES'.

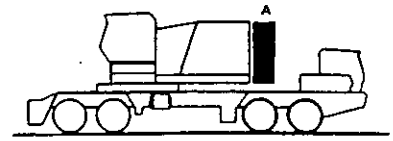
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

SERIAL NUMBER

HL150T
IDENTIFICATION

PICK & CARRY CAPACITY (UP TO 1 MPH)
76A BOOM – ON TIRES BOOM CENTERED OVER REAR
WITH RADIAL PLY TIRES
75% STABILITY



COUNTERWEIGHT CONFIGURATION

CAPACITY IN POUNDS
WITH 'A' COUNTERWEIGHT
OUTRIGGERS INSTALLED

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	12	82.7	47.1	101,100
40	13	81.3	46.9	91,000
40	14	79.8	46.6	81,400
40	15	78.3	46.3	73,500
40	16	76.8	46.0	66,900
40	17	75.3	45.7	61,300
40	18	73.8	45.3	56,500
40	19	72.2	44.9	52,300
40	20	70.7	44.5	48,700
40	25	62.6	41.8	35,600
40	30	53.7	38.1	27,600
40	35	43.4	32.9	22,100
40	40	29.9	24.9	18,000
50	13	83.0	57.0	91,100
50	14	81.9	56.9	81,400
50	15	80.7	56.6	73,500
50	16	79.5	56.4	66,800
50	17	78.3	56.1	61,100
50	18	77.1	55.8	56,400
50	19	75.9	55.5	52,200
50	20	74.7	55.2	48,500
50	25	68.6	53.2	35,400
50	30	62.1	50.5	27,300
50	35	55.1	46.9	21,800
50	40	47.3	42.4	17,800
50	45	38.2	36.2	14,700
50	50	26.2	27.0	12,300
60	15	82.3	66.8	73,600
60	16	81.3	66.6	66,900
60	17	80.3	66.4	61,200
60	18	79.3	66.2	56,400
60	19	78.4	65.9	52,200
60	20	77.4	65.7	48,500
60	25	72.3	64.0	35,300
60	30	67.2	61.8	27,300
60	35	61.7	59.1	21,800
60	40	55.9	55.7	17,800
60	45	49.7	51.5	14,700
60	50	42.7	46.1	12,300
60	60	23.6	28.8	8,700

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
70	17	81.7	76.6	61,200
70	18	80.9	76.4	56,500
70	19	80.1	76.2	52,200
70	20	79.2	76.0	48,500
70	25	75.0	74.6	35,300
70	30	70.6	72.8	27,300
70	35	66.1	70.5	21,800
70	40	61.5	67.8	17,700
70	45	56.6	64.4	14,700
70	50	51.3	60.4	12,300
70	60	39.2	49.5	8,800
70	70	21.6	30.5	6,200
80	18	82.0	86.6	56,400
80	19	81.3	86.4	52,100
80	20	80.6	86.2	48,400
80	25	76.9	85.0	35,200
80	30	73.2	83.4	27,100
80	35	69.3	81.5	21,500
80	40	65.4	79.2	17,500
80	45	61.3	76.4	14,500
80	50	57.0	73.1	12,100
80	60	47.7	64.7	8,600
80	70	36.4	52.7	6,100
80	80	20.0	32.1	4,200
90	19	82.3	96.6	52,100
90	20	81.6	96.4	48,400
90	25	78.4	95.3	35,200
90	30	75.1	93.9	27,100
90	35	71.7	92.3	21,600
90	40	68.3	90.2	17,600
90	45	64.8	87.8	14,500
90	50	61.1	85.1	12,100
90	60	53.4	78.1	8,600
90	70	44.7	68.8	6,200
90	80	34.2	55.7	4,300
90	90	18.7	33.6	2,900
SEE NOTE 8! - FOR MACHINE ON TIRES				
100	21	81.9	106.4	45,000
100	25	79.6	105.6	35,000
100	30	76.6	104.3	26,900

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
SEE NOTE 8! - FOR MACHINE ON TIRES				
100	35	73.6	102.8	21,300
100	40	70.6	101.1	17,300
100	45	67.5	98.9	14,300
100	50	64.3	96.5	11,900
100	60	57.6	90.5	8,400
100	70	50.4	82.8	5,900
100	80	42.2	72.5	4,100
100	90	32.3	58.5	2,600
110	24	81.1	116.0	36,900
110	25	80.5	115.8	34,800
110	30	77.9	114.7	26,700
110	35	75.2	113.3	21,100
110	40	72.4	111.7	17,100
110	45	69.7	109.8	14,000
110	50	66.8	107.7	11,700
110	60	60.9	102.4	8,100
110	70	54.7	95.7	5,700
110	80	47.8	87.1	3,900
110	90	40.1	76.1	2,500
120	26	80.8	125.8	32,600
120	30	78.9	124.9	26,500
120	35	76.4	123.7	20,900
120	40	74.0	122.2	16,800
120	45	71.4	120.5	13,800
120	50	68.9	118.6	11,400
120	60	63.6	113.8	7,800
120	70	58.0	107.9	5,400
120	80	52.1	100.5	3,500
120	90	45.6	91.3	2,100
130	27	81.1	135.8	30,600
130	30	79.8	135.2	26,300
130	35	77.5	134.0	20,700
130	40	75.2	132.7	16,700
130	45	72.9	131.1	13,600
130	50	70.6	129.3	11,200
130	60	65.8	125.0	7,700
130	70	60.8	119.7	5,200
130	80	55.5	113.1	3,400
130	90	49.9	105.1	2,000

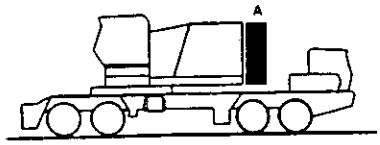
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

SERIAL NUMBER

HL150T
IDENTIFICATION

PICK & CARRY CAPACITY (UP TO 1 MPH)
76A BOOM – ON TIRES BOOM CENTERED OVER REAR
WITH BIAS PLY TIRES
75% STABILITY



COUNTERWEIGHT CONFIGURATION

CAPACITY IN POUNDS
WITH 'A' COUNTERWEIGHT
OUTRIGGERS INSTALLED

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	**12**	**82.7**	**47.1**	**90,100**
40	**13**	**81.3**	**46.9**	**86,800**
40	14	79.8	46.6	81,400
40	15	78.3	46.3	73,500
40	16	76.8	46.0	66,900
40	17	75.3	45.7	61,300
40	18	73.8	45.3	56,500
40	19	72.2	44.9	52,300
40	20	70.7	44.5	48,700
40	25	62.6	41.8	35,600
40	30	53.7	38.1	27,600
40	35	43.4	32.9	22,100
40	40	29.9	24.9	18,000
50	**13**	**83.0**	**57.0**	**85,200**
50	14	81.9	56.9	81,400
50	15	80.7	56.6	73,500
50	16	79.5	56.4	66,800
50	17	78.3	56.1	61,100
50	18	77.1	55.8	56,400
50	19	75.9	55.5	52,200
50	20	74.7	55.2	48,500
50	25	68.6	53.2	35,400
50	30	62.1	50.5	27,300
50	35	55.1	46.9	21,800
50	40	47.3	42.4	17,800
50	45	38.2	36.2	14,700
50	50	26.2	27.0	12,300
60	15	82.3	66.8	73,600
60	16	81.3	66.6	66,900
60	17	80.3	66.4	61,200
60	18	79.3	66.2	56,400
60	19	78.4	65.9	52,200
60	20	77.4	65.7	48,500
60	25	72.3	64.0	35,300
60	30	67.2	61.8	27,300
60	35	61.7	59.1	21,800
60	40	55.9	55.7	17,800
60	45	49.7	51.5	14,700
60	50	42.7	46.1	12,300
60	60	23.6	28.8	8,700
70	17	81.7	76.6	61,200
70	18	80.9	76.4	56,500
70	19	80.1	76.2	52,200
70	20	79.2	76.0	48,500
70	25	75.0	74.6	35,300
70	30	70.6	72.8	27,300
70	35	66.1	70.5	21,800
70	40	61.5	67.8	17,700
70	45	56.6	64.4	14,700
70	50	51.3	60.4	12,300
70	60	39.2	49.5	8,800
70	70	21.6	30.5	6,200
80	18	82.0	86.6	56,400
80	19	81.3	86.4	52,100
80	20	80.6	86.2	48,400
80	25	76.9	85.0	35,200
80	30	73.2	83.4	27,100
80	35	69.3	81.5	21,500
80	40	65.4	79.2	17,500
80	45	61.3	76.4	14,500
80	50	57.0	73.1	12,100
80	60	47.7	64.7	8,600
80	70	36.4	52.7	6,100
80	80	20.0	32.1	4,200
90	19	82.3	96.6	52,100
90	20	81.6	96.4	48,400
90	25	78.4	95.3	35,200
90	30	75.1	93.9	27,100
90	35	71.7	92.3	21,600
90	40	68.3	90.2	17,600
90	45	64.8	87.8	14,500
90	50	61.1	85.1	12,100
90	60	53.4	78.1	8,600
90	70	44.7	68.8	6,200
90	80	34.2	55.7	4,300
90	90	18.7	33.6	2,900
SEE NOTE 8! - FOR MACHINE ON TIRES				
100	21	81.9	106.4	45,000
100	25	79.6	105.6	35,000
100	30	76.6	104.3	26,900
100	35	73.6	102.8	21,300
100	40	70.6	101.1	17,300
100	45	67.5	98.9	14,300
100	50	64.3	96.5	11,900
100	60	57.6	90.5	8,400
100	70	50.4	82.8	5,900
100	80	42.2	72.5	4,100
100	90	32.3	58.5	2,600
110	24	81.1	116.0	36,900
110	25	80.5	115.8	34,800
110	30	77.9	114.7	26,700
110	35	75.2	113.3	21,100
110	40	72.4	111.7	17,100
110	45	69.7	109.8	14,000
110	50	66.8	107.7	11,700
110	60	60.9	102.4	8,100
110	70	54.7	95.7	5,700
110	80	47.8	87.1	3,900
110	90	40.1	76.1	2,500
120	26	80.8	125.8	32,600
120	30	78.9	124.9	26,500
120	35	76.4	123.7	20,900
120	40	74.0	122.2	16,800
120	45	71.4	120.5	13,800
120	50	68.9	118.6	11,400
120	60	63.6	113.8	7,800
120	70	58.0	107.9	5,400
120	80	52.1	100.5	3,500
120	90	45.6	91.3	2,100
130	27	81.1	135.8	30,600
130	30	79.8	135.2	26,300
130	35	77.5	134.0	20,700
130	40	75.2	132.7	16,700
130	45	72.9	131.1	13,600
130	50	70.6	129.3	11,200
130	60	65.8	125.0	7,700
130	70	60.8	119.7	5,200
130	80	55.5	113.1	3,400
130	90	49.9	105.1	2,000

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

SERIAL NUMBER

HL150T
IDENTIFICATION

76A BOOM – ON TIRES – DEFINED ARC - OVER REAR*

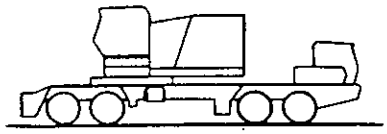
WITH RADIAL OR BIAS PLY TIRES

75% STABILITY

STATIONARY CAPACITY IN POUNDS
WITH NO COUNTERWEIGHT
OUTRIGGERS INSTALLED

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	12	82.7	47.1	74,700
40	13	81.3	46.9	65,700
40	14	79.8	46.6	58,600
40	15	78.3	46.3	52,800
40	16	76.8	46.0	47,900
40	17	75.3	45.7	43,700
40	18	73.8	45.3	40,200
40	19	72.2	44.9	37,100
40	20	70.7	44.5	34,400
40	25	62.6	41.8	24,800
40	30	53.7	38.1	18,800
40	35	43.4	32.9	14,700
40	40	29.9	24.9	11,700
50	13	83.0	57.0	65,800
50	14	81.9	56.9	58,700
50	15	80.7	56.6	52,800
50	16	79.5	56.4	47,800
50	17	78.3	56.1	43,600
50	18	77.1	55.8	40,100
50	19	75.9	55.5	37,000
50	20	74.7	55.2	34,200
50	25	68.6	53.2	24,600
50	30	62.1	50.5	18,600
50	35	55.1	46.9	14,500
50	40	47.3	42.4	11,500
50	45	38.2	36.2	9,200
50	50	26.2	27.0	7,300
60	15	82.3	66.8	52,900
60	16	81.3	66.6	47,900
60	17	80.3	66.4	43,700
60	18	79.3	66.2	40,100
60	19	78.4	65.9	37,000
60	20	77.4	65.7	34,300
60	25	72.3	64.0	24,600
60	30	67.2	61.8	18,500
60	35	61.7	59.1	14,400

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
60	40	55.9	55.7	11,400
60	45	49.7	51.5	9,100
60	50	42.7	46.1	7,300
60	60	23.6	28.8	4,600
70	17	81.7	76.6	43,800
70	18	80.9	76.4	40,100
70	19	80.1	76.2	37,000
70	20	79.2	76.0	34,300
70	25	75.0	74.6	24,500
70	30	70.6	72.8	18,500
70	35	66.1	70.5	14,400
70	40	61.5	67.8	11,400
70	45	56.6	64.4	9,100
70	50	51.3	60.4	7,400
70	60	39.2	49.5	4,700
70	70	21.6	30.5	2,800
SEE NOTE 8! - FOR MACHINE ON TIRES				
80	18	82.0	86.6	40,100
80	19	81.3	86.4	36,900
80	20	80.6	86.2	34,200
80	25	76.9	85.0	24,400
80	30	73.2	83.4	18,300
80	35	69.3	81.5	14,200
80	40	65.4	79.2	11,200
80	45	61.3	76.4	8,900
80	50	57.0	73.1	7,100
80	60	47.7	64.7	4,500
80	70	36.4	52.7	2,600
90	19	82.3	96.6	36,900
90	20	81.6	96.4	34,100
90	25	78.4	95.3	24,400
90	30	75.1	93.9	18,300
90	35	71.7	92.3	14,200
90	40	68.3	90.2	11,200
90	45	64.8	87.8	9,000



COUNTERWEIGHT CONFIGURATION

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
SEE NOTE 8! - FOR MACHINE ON TIRES				
90	50	61.1	85.1	7,200
90	60	53.4	78.1	4,600
90	70	44.7	68.8	2,700
100	21	81.9	106.4	31,600
100	25	79.6	105.6	24,200
100	30	76.6	104.3	18,100
100	35	73.6	102.8	14,000
100	40	70.6	101.1	11,000
100	45	67.5	98.9	8,700
100	50	64.3	96.5	6,900
100	60	57.6	90.5	4,300
100	70	50.4	82.8	2,400
110	24	81.1	116.0	25,600
110	25	80.5	115.8	24,000
110	30	77.9	114.7	17,900
110	35	75.2	113.3	13,800
110	40	72.4	111.7	10,700
110	45	69.7	109.8	8,500
110	50	66.8	107.7	6,700
110	60	60.9	102.4	4,100
110	70	54.7	95.7	2,200

*DEFINED ARC - OVER REAR INCLUDES ±8° ON EITHER SIDE OF LONGITUDINAL CENTERLINE OF MACHINE. REFER TO A6-829-800101 'LIFTING AREA DIAGRAM ON TIRES'.

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

SERIAL NUMBER

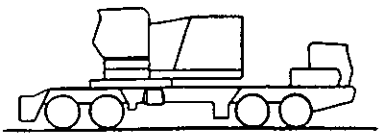
HL150T
IDENTIFICATION

PICK & CARRY CAPACITY (UP TO 1 MPH)
76A BOOM – ON TIRES BOOM CENTERED OVER REAR
WITH RADIAL OR BIAS PLY TIRES
75% STABILITY

CAPACITY IN POUNDS
WITH NO COUNTERWEIGHT
OUTRIGGERS INSTALLED

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
40	12	82.7	47.1	74,700
40	13	81.3	46.9	65,700
40	14	79.8	46.6	58,600
40	15	78.3	46.3	52,800
40	16	76.8	46.0	47,900
40	17	75.3	45.7	43,700
40	18	73.8	45.3	40,200
40	19	72.2	44.9	37,100
40	20	70.7	44.5	34,400
40	25	62.6	41.8	24,800
40	30	53.7	38.1	18,800
40	35	43.4	32.9	14,700
40	40	29.9	24.9	11,700
50	13	83.0	57.0	65,800
50	14	81.9	56.9	58,700
50	15	80.7	56.6	52,800
50	16	79.5	56.4	47,800
50	17	78.3	56.1	43,600
50	18	77.1	55.8	40,100
50	19	75.9	55.5	37,000
50	20	74.7	55.2	34,200
50	25	68.6	53.2	24,600
50	30	62.1	50.5	18,600
50	35	55.1	46.9	14,500
50	40	47.3	42.4	11,500
50	45	38.2	36.2	9,200
50	50	26.2	27.0	7,300
60	15	82.3	66.8	52,900
60	16	81.3	66.6	47,900
60	17	80.3	66.4	43,700
60	18	79.3	66.2	40,100
60	19	78.4	65.9	37,000
60	20	77.4	65.7	34,300
60	25	72.3	64.0	24,600
60	30	67.2	61.8	18,500
60	35	61.7	59.1	14,400

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
60	40	55.9	55.7	11,400
60	45	49.7	51.5	9,100
60	50	42.7	46.1	7,300
60	60	23.6	28.8	4,600
70	17	81.7	76.6	43,800
70	18	80.9	76.4	40,100
70	19	80.1	76.2	37,000
70	20	79.2	76.0	34,300
70	25	75.0	74.6	24,500
70	30	70.6	72.8	18,500
70	35	66.1	70.5	14,400
70	40	61.5	67.8	11,400
70	45	56.6	64.4	9,100
70	50	51.3	60.4	7,400
70	60	39.2	49.5	4,700
70	70	21.6	30.5	2,800
SEE NOTE 8! - FOR MACHINE ON TIRES				
80	18	82.0	86.6	40,100
80	19	81.3	86.4	36,900
80	20	80.6	86.2	34,200
80	25	76.9	85.0	24,400
80	30	73.2	83.4	18,300
80	35	69.3	81.5	14,200
80	40	65.4	79.2	11,200
80	45	61.3	76.4	8,900
80	50	57.0	73.1	7,100
80	60	47.7	64.7	4,500
80	70	36.4	52.7	2,600
90	19	82.3	96.6	36,900
90	20	81.6	96.4	34,100
90	25	78.4	95.3	24,400
90	30	75.1	93.9	18,300
90	35	71.7	92.3	14,200
90	40	68.3	90.2	11,200
90	45	64.8	87.8	9,000



COUNTERWEIGHT CONFIGURATION

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
SEE NOTE 8! - FOR MACHINE ON TIRES				
90	50	61.1	85.1	7,200
90	60	53.4	78.1	4,600
90	70	44.7	68.8	2,700
100	21	81.9	106.4	31,600
100	25	79.6	105.6	24,200
100	30	76.6	104.3	18,100
100	35	73.6	102.8	14,000
100	40	70.6	101.1	11,000
100	45	67.5	98.9	8,700
100	50	64.3	96.5	6,900
100	60	57.6	90.5	4,300
100	70	50.4	82.8	2,400
110	24	81.1	116.0	25,600
110	25	80.5	115.8	24,000
110	30	77.9	114.7	17,900
110	35	75.2	113.3	13,800
110	40	72.4	111.7	10,700
110	45	69.7	109.8	8,500
110	50	66.8	107.7	6,700
110	60	60.9	102.4	4,100
110	70	54.7	95.7	2,200

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

SERIAL NUMBER

HL150T
IDENTIFICATION

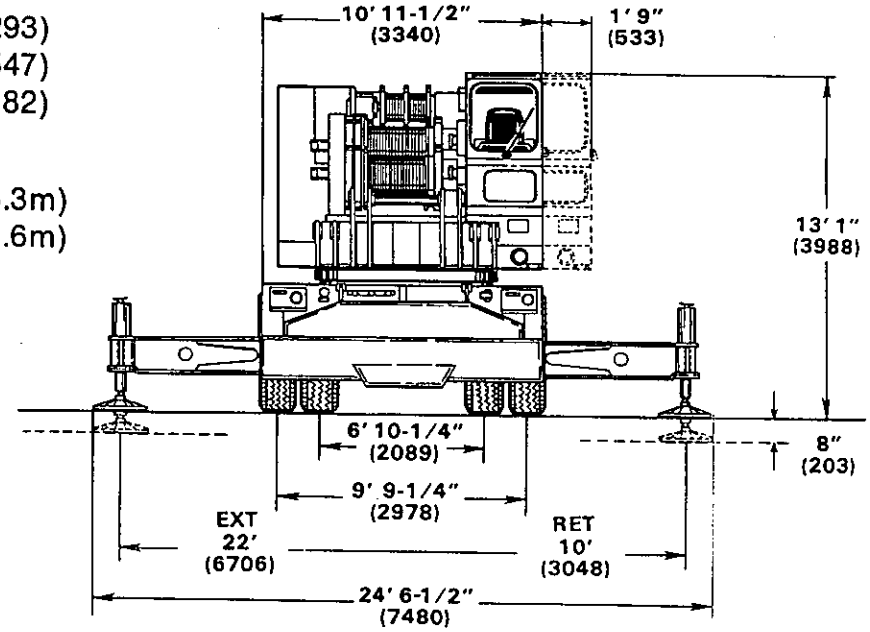
REAR

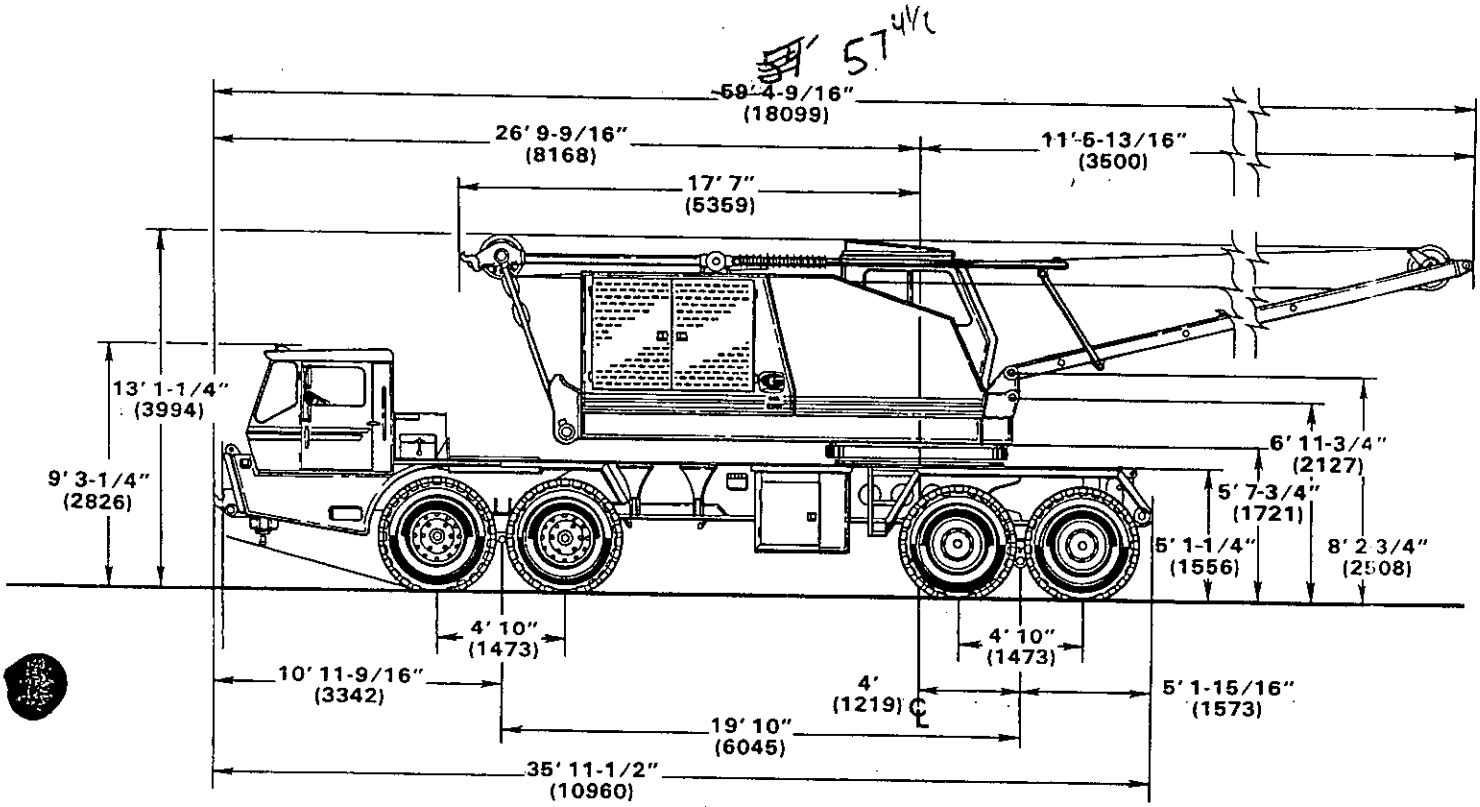
Tailswing

No Counterweight - 14′ 1″ (4293)
"A" Counterweight - 14′ 11″(4547)
"C" Counterweight - 17′ (5182)

Turning Clearance

Over Bumper - 53′ 3″ (16.3m)
At Curb - 51′ 2-1/2″ (15.6m)

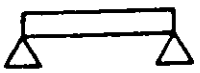


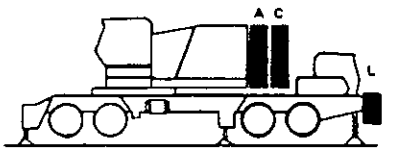


TRAVEL

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

170 FT. BOOM + 140 FT. JIB





CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS

COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
50	74.6	314.5	34,000	34,000									50
60	70.3	311.3	28,400	28,400	72.8	312.9	41,700	41,700					60
70	65.8	307.3	24,300	24,300	68.5	309.4	35,000	35,000					70
80	61.3	302.3	20,900	20,900	64.0	305.0	29,200	29,200					80
90	56.5	296.3	18,100	18,100	59.4	299.6	24,900	24,900	66.2	305.3	28,500	24,200	90
100	51.4	289.0	15,700	15,700	54.5	293.1	21,400	21,400	61.7	300.4	24,800	20,900	100
110	46.0	280.2	13,700	13,700	49.3	285.3	18,400	18,400	56.9	294.5	21,700	18,200	110
120	40.0	269.5	12,000	12,000	43.6	275.8	15,900	15,900	51.9	287.3	19,200	16,100	120
130	33.1	256.0	10,300	10,300	37.3	264.1	13,700	13,700	46.5	278.7	17,200	14,300	130
140	24.6	237.9	7,900	7,900	30.0	249.1	11,900	11,900	40.5	268.2	15,400	12,700	140
150	11.3	207.0			20.3	227.7	10,300	10,300	33.7	255.0	13,500	11,400	150
160									25.4	237.3	11,500	10,300	160
170									13.0	208.6	9,700	9,300	170

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
110	63.8	299.6	18,800	15,300									110
120	59.2	294.2	16,600	13,400									120
130	54.3	287.6	14,800	11,800									130
140	49.0	279.7	13,200	10,500	56.4	286.1	11,000	8,300					140
150	43.4	270.1	11,900	9,300	51.3	278.8	9,900	7,300					150
160	37.0	258.3	10,700	8,400	45.9	269.9	8,800	6,500	53.3	276.0	7,000	4,600	160
170	29.6	243.0	9,700	7,500	39.9	259.2	7,900	5,700	48.0	267.8	6,200	4,000	170
180	19.7	221.2	8,800	6,700	33.0	245.6	7,200	5,100	42.3	257.9	5,500	3,400	180
190					24.4	227.3	6,500	4,500	35.8	245.5	4,900	2,900	190
200					10.9	196.0	5,800	4,000	28.0	229.4	4,400	2,500	200
210									17.4	205.5	3,900	2,100	210

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800143 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

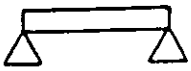
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

SERIAL NUMBER

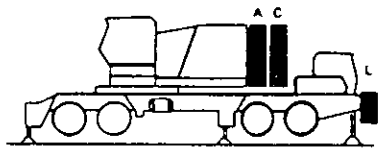
HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES – ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

80 FT. BOOM + 160 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
50	74.8	244.1	36,600	36,600									50
60	71.0	241.0	32,700	32,700	72.1	241.8	35,400	35,400					60
70	67.2	237.2	27,600	27,600	68.3	238.2	31,700	29,700					70
80	63.3	232.6	24,700	24,700	64.4	233.8	26,800	26,800	67.2	236.0	28,800	28,800	80
90	59.2	227.1	22,200	22,200	60.4	228.6	24,000	24,000	63.2	231.4	25,900	25,900	90
100	54.9	220.6	19,900	19,900	56.1	222.4	21,500	21,500	59.1	225.9	23,200	23,200	100
110	50.4	213.0	18,000	18,000	51.7	215.1	19,300	19,300	54.9	219.4	20,900	20,500	110
120	45.6	204.0	16,200	16,200	47.0	206.5	17,400	17,400	50.4	211.8	18,800	18,100	120
130	40.3	193.2	14,700	14,700	41.9	196.3	15,800	15,800	45.5	202.8	16,900	16,100	130
140	34.4	180.1	13,300	13,300	36.2	184.0	14,300	14,300	40.3	192.0	15,300	14,400	140
150	27.4	163.4	12,200	12,200	29.6	168.5	13,000	13,000	34.4	178.9	13,900	12,900	150
160	18.2	139.7	10,600	10,600	21.2	147.4	11,900	11,900	27.4	162.2	12,600	11,700	160
170									18.1	138.4	11,600	10,600	170

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
100	62.0	228.3	25,100	22,100									100
110	57.9	222.5	22,500	19,300									110
120	53.5	215.7	20,200	17,000	56.5	218.3	19,200	15,900					120
130	49.0	207.7	18,000	15,100	52.1	211.2	17,100	14,100					130
140	44.0	198.2	16,200	13,500	47.4	202.7	15,300	12,600	50.6	205.7	14,500	11,700	140
150	38.6	186.8	14,600	12,100	42.4	192.7	13,800	11,300	45.8	196.7	13,000	10,400	150
160	32.4	172.8	13,300	10,900	36.7	180.5	12,500	10,100	40.5	186.1	11,800	9,400	160
170	24.9	154.5	12,100	9,900	30.2	165.4	11,400	9,100	34.6	173.1	10,700	8,400	170
180	14.3	126.4	11,100	9,000	22.1	145.1	10,400	8,300	27.7	156.6	9,700	7,600	180
190									18.6	133.2	8,900	6,900	190

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

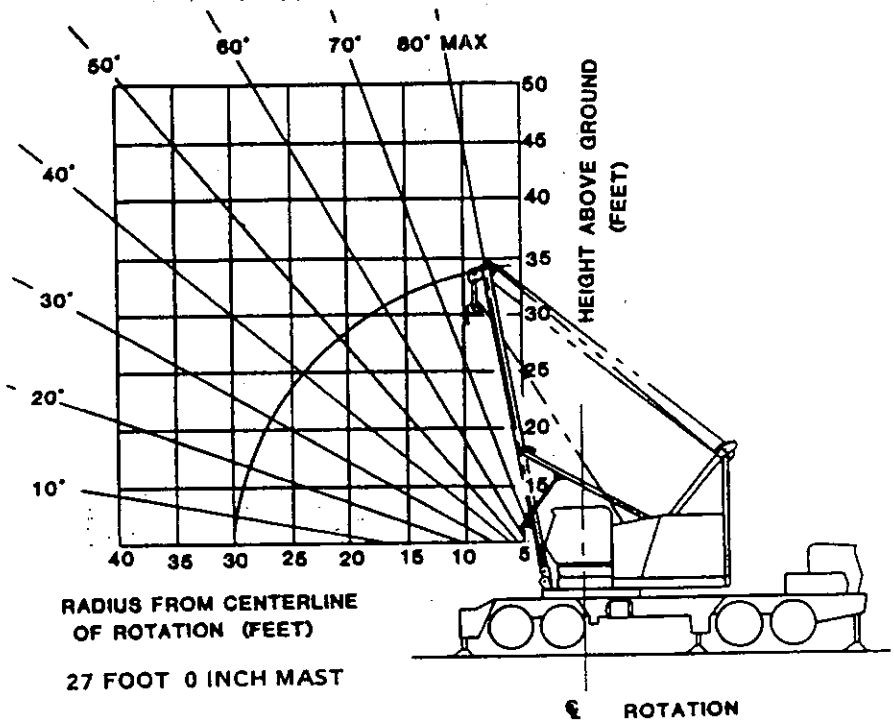
READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800143 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

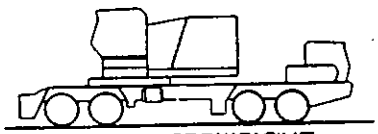
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

SERIAL NUMBER

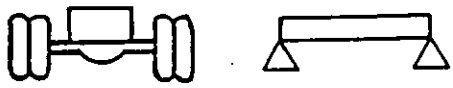
HL150T
IDENTIFICATION

MAST RANGE AND CAPACITY 360°
85% STABILITY ON OUTRIGGERS
75% STABILITY ON TIRES





NO COUNTERWEIGHT



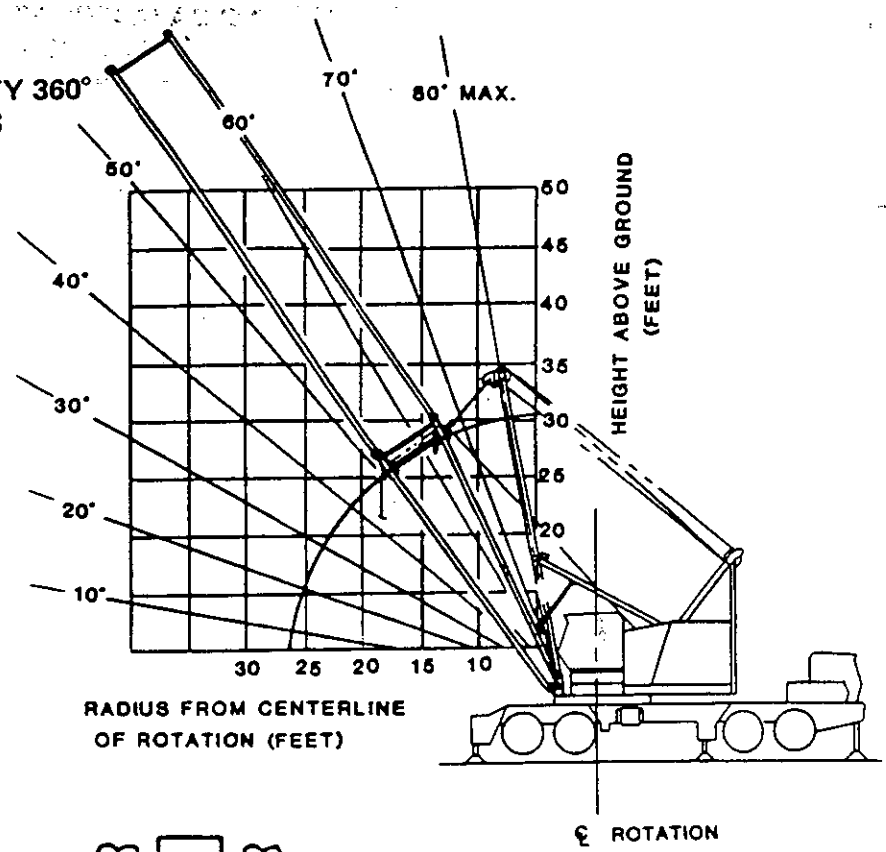
RADIUS	MAST ANGLE	ON TIRES FRONT AXLE FREE	ON TIRES FRONT AXLE LOCKED (7)	ON OUTRIGGERS
9	78.7	45,000	45,000	45,000
13	69.9	26,900	39,100	45,000
14	67.6	24,300	35,000	45,000
15	65.3	22,100	31,500	45,000
16	62.9	20,200	28,600	45,000
17	60.5	18,700	26,200	45,000
18	58.0	17,200	24,200	45,000
19	55.5	16,100	22,500	45,000
20	52.9	15,000	20,900	40,600
25	37.9	11,100	15,400	27,200
30	13.2	8,700	12,000	17,500

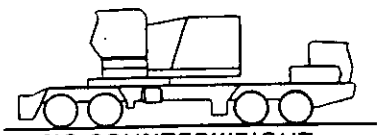
1. Rated loads appearing in shaded areas are based on structural strength and tipping should not be relied upon as a capacity limitation.
2. Rated loads are in pounds and do not exceed 85% of tipping loads on outriggers and 75% of tipping loads on tires as determined by test in accordance with SAE J-765 OCT80.
3. On tire rated loads are for the machine with outrigger boxes removed.
4. Rated loads are applicable to machines equipped with 14.00 x 24 (20 ply) bias ply or radial tires at 115 psi cold inflation pressure or 16.00 x 21 (22 ply) radial ply tires at 85 psi cold inflation pressure.
5. All lifting depends on proper tire inflation, capacity and condition. Rated loads must be reduced for lower tire inflation pressures. Damaged tires are hazardous to safe operation of crane.
6. Rated loads are applicable only with machine on a firm level surface.
7. Front axles must be locked on both axles before lifting on tires over side or front.
8. Gantry must be pinned in high position before lifting loads.
9. Use of the heaviest hookblock allowable within load chart limits also works best to prevent overhauling.

SERIAL NUMBER

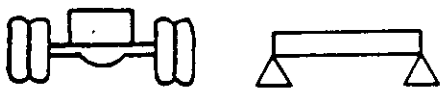
HL150T
IDENTIFICATION

78A BOOM BASE RANGE AND CAPACITY 360°
85% STABILITY ON OUTRIGGERS
75% STABILITY ON TIRES





NO COUNTERWEIGHT



RADIUS	BOOM ANGLE	ON TIRES FRONT AXLE FREE	ON TIRES FRONT AXLE LOCKED (8)	ON OUTRIGGERS
10	82.5	36,300	45,000	45,000
11	80.0	29,300	45,000	45,000
12	77.5	23,800	39,200	45,000
13	74.9	19,400	32,400	45,000
14	72.3	15,800	27,000	45,000
15	69.6	12,700	22,500	45,000
16	66.8	10,100	18,800	45,000
17	64.0	7,900	15,700	45,000
18	61.1	5,900	13,000	45,000
19	58.0	4,200	10,600	45,000
20	54.9	2,600	8,600	45,000
25	35.0			45,000

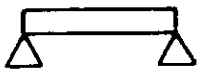
1. Rated loads appearing in shaded areas are based on structural strength and tipping should not be relied upon as a capacity limitation.
2. Rated loads are in pounds and do not exceed 85% of tipping loads on outriggers and 75% of tipping loads on tires as determined by test in accordance with SAE J-765 OCT80.
3. On tire rated loads are for the machine with outrigger boxes removed.
4. Rated loads are applicable to machines equipped with 14.00 x 24 (20 ply) bias ply or radial tires at 115 psi cold inflation pressure or 16.00 x 21 (22 ply) radial ply tires at 85 psi cold inflation pressure.
5. All lifting depends on proper tire inflation, capacity and condition. Rated loads must be reduced for lower tire inflation pressures. Damaged tires are hazardous to safe operation of crane.
6. Rated loads are applicable only with machine on a firm level surface.
7. Rated loads are for a stationary machine. Do not travel with loads.
8. Front axles must be locked on both axles before lifting on tires over side or front.
9. Gantry must be pinned in high position before lifting loads.
10. Additional boom extension must be added to the boom base section to prevent the mast from overhauling the boom at maximum boom angle (minimum radius). Use of the heaviest hookblock allowable within load chart limits also works best to prevent overhauling. To facilitate boom buildup, the length of extensions to be used for service erection depend on the completed boom configuration and length.
Refer to the following chart to determine proper boom sections to use for service erection. The boom length that is required after completion of the erecting procedure is found in the left column (final length of boom). The extensions to be used are noted in the right column (extension required). The total boom length used for service erection must never be longer than 70 ft. for complete boom and 85 ft. for extensions.

Final Length of Boom (in feet)	Extensions Required
50 thru 70	Complete Boom
80,120,160	10 ft. Ext. + 20 ft. Ext.
90, 130, 170, 200 thru 240	40 ft. Ext.
100, 140, 180	10 ft. Ext. + 40 ft. Ext.
110, 150, 190	20 ft. Ext. + 40 ft. Ext.

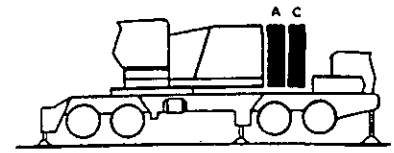
SERIAL NUMBER

HL150T
IDENTIFICATION

32A JIB CAPACITIES – ON OUTRIGGERS 360°
FOR 76A BOOM
85% STABILITY



CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

BOOM ANGLES AND CAPACITIES - 360 DEGREE SWING

BOOM LENGTH	LOAD RADIUS	30 ft. JIB			50 ft. JIB			LOAD RADIUS
		JIB ANGLES TO BOOM (JIB OFFSET IN DEGREES)						
		0	15	30	0	15	30	
FEET	FEET	DEG LBS.	DEG LBS.	DEG LBS.	DEG LBS.	DEG LBS.	DEG LBS.	FEET
50	20	78.6 50,000			79.3 40,000			20
	25	75.0 50,000			76.5 40,000			25
	30	71.4 50,000	76.4 50,000		73.5 40,000			30
	35	67.7 50,000	72.7 50,000	77.8 46,600	70.5 40,000	77.3 40,000		35
	40	63.8 50,000	68.8 50,000	73.8 42,900	67.5 40,000	74.2 36,600		40
	45	59.9 50,000	64.8 50,000	69.7 39,800	64.4 40,000	71.1 33,400	77.9 24,100	45
	50	55.7 50,000	60.6 46,800	65.3 37,300	57.9 34,500	64.5 28,400	71.0 21,300	50
	60	46.7 43,200	51.5 39,700	55.8 33,300	50.8 28,800	57.3 24,800	63.5 19,200	60
	70	36.1 34,400	40.8 34,400	44.4 30,700	43.0 24,800	49.2 22,000	54.9 17,700	70
	80	21.6 28,100	25.7 28,100		33.6 21,700	39.6 20,000	44.2 16,600	80
	90				20.6 19,400			90
	100							100
60	20	79.9 50,000						20
	25	76.7 50,000			77.7 40,000			25
	30	73.5 50,000	78.0 50,000		75.0 40,000			30
	35	70.2 50,000	74.7 50,000	79.2 48,200	72.4 40,000	78.5 40,000		35
	40	66.9 50,000	71.3 50,000	75.8 44,600	69.6 40,000	75.7 38,500		40
	45	63.4 50,000	67.8 50,000	72.2 41,600	66.8 40,000	72.9 35,200	79.1 24,700	45
	50	59.9 50,000	64.3 50,000	68.5 39,100	61.1 38,000	67.1 30,100	73.1 22,000	50
	60	52.4 42,700	56.7 42,700	60.6 35,100	55.0 31,800	60.9 26,400	66.6 20,000	60
	70	44.0 33,900	48.2 33,900	51.8 32,200	48.3 27,300	54.1 23,500	59.4 18,400	70
	80	34.1 27,600	38.1 27,600	41.0 27,600	40.9 23,900	46.5 21,300	51.2 17,200	80
	90	20.4 22,900	23.9 22,900		32.0 20,500	37.2 19,600	41.0 16,400	90
	100				19.6 17,600			100
	110							110
70	25	78.0 50,000						25
	30	75.1 50,000	79.2 50,000		78.7 40,000			30
	35	72.2 50,000	76.3 50,000		76.3 40,000			35
	40	69.2 50,000	73.3 50,000	77.3 46,100	73.9 40,000	79.5 40,000		40
	45	66.2 50,000	70.2 50,000	74.2 43,200	71.4 40,000	77.0 40,000		45
	50	63.1 50,000	67.1 50,000	70.9 40,700	68.9 40,000	74.4 36,800		50
	60	56.6 42,300	60.5 42,300	64.2 36,600	63.7 40,000	69.2 31,700	74.7 22,600	60
	70	49.5 33,500	53.4 33,500	56.8 33,500	58.2 34,800	63.7 27,900	69.0 20,600	70
	80	41.7 27,300	45.4 27,300	48.4 27,300	52.4 28,500	57.8 24,900	62.8 19,000	80
	90	32.3 22,600	35.9 22,600	38.2 22,600	46.1 23,800	51.4 22,600	56.0 17,800	90
	100	19.3 18,900			39.0 20,100	44.1 20,100	48.1 16,900	100
	110				30.5 17,100	35.3 17,100	38.3 16,300	110
	120				18.7 14,700			120
80	25	79.1 50,000						25
	30	76.5 50,000			79.6 40,000			30
	35	73.8 50,000	77.5 50,000		77.4 40,000			35
	40	71.2 50,000	74.8 50,000	78.5 47,300	75.1 40,000			40
	45	68.4 50,000	72.1 50,000	75.7 44,500	72.8 40,000	78.0 40,000		45
	50	65.7 50,000	69.3 50,000	72.9 42,100	70.5 40,000	75.7 38,300		50
	60	59.9 41,900	63.5 41,900	66.9 38,000	65.8 40,000	70.9 33,200	76.0 23,100	60
	70	53.8 33,000	57.3 33,000	60.5 33,000	60.9 34,300	66.0 29,300	70.9 21,200	70
	80	47.1 26,800	50.6 26,800	53.5 26,800	55.8 28,000	60.7 26,200	65.4 19,600	80
	90	39.7 22,100	43.0 22,100	45.6 22,100	50.2 23,200	55.1 23,200	59.5 18,300	90
	100	30.8 18,400	34.0 18,400	35.9 18,400	44.2 19,600	49.0 19,600	53.0 17,300	100
	110	18.4 15,500			37.4 16,600	42.0 16,600	45.5 16,600	110
	120				29.3 14,200	33.5 14,200		120
	130				17.9 12,200			130

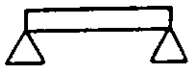
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

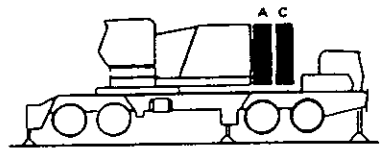
SERIAL NUMBER

HL150T
IDENTIFICATION

32A JIB CAPACITIES – ON OUTRIGGERS 360°
FOR 76A BOOM
85% STABILITY



CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

BOOM ANGLES AND CAPACITIES - 360 DEGREE SWING

BOOM LENGTH	LOAD RADIUS	30 ft. JIB						50 ft. JIB						LOAD RADIUS
		JIB ANGLES TO BOOM (JIB OFFSET IN DEGREES)												
		0		15		30		0		15		30		
FEET	FEET	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	FEET
90	30	77.6	50,000					78.3	40,000					30
	35	75.2	50,000	78.6	50,000			76.2	40,000					35
	40	72.8	50,000	76.1	50,000	79.5	48,500	74.1	40,000	78.9	40,000			40
	45	70.3	50,000	73.6	50,000	77.0	45,700	72.0	40,000	76.8	39,700			45
	50	67.8	50,000	71.1	50,000	74.4	43,300	67.6	40,000	72.4	34,600	77.2	23,600	50
	60	62.6	41,600	65.9	41,600	69.1	39,300	63.2	34,000	67.9	30,600	72.5	21,700	60
	70	57.1	32,800	60.4	32,800	63.4	32,800	58.5	27,600	63.1	27,500	67.5	20,100	70
	80	51.4	26,500	54.6	26,500	57.4	26,500	53.6	22,900	58.1	22,900	62.3	18,900	80
	90	45.0	21,800	48.2	21,800	50.8	21,800	48.3	19,200	52.8	19,200	56.7	17,800	90
	100	37.9	18,200	41.0	18,200	43.2	18,200	42.5	16,300	46.9	16,300	50.4	16,300	100
	110	29.5	15,300	32.3	15,300			36.0	13,900	40.2	13,900	43.2	13,900	110
	120	17.7	12,900					28.2	11,900	32.0	11,900			120
	130							17.2	10,200					130
	140													140
100	30	78.6	50,000											30
	35	76.3	50,000	79.5	50,000			79.1	40,000					35
	40	74.1	50,000	77.2	50,000			77.1	40,000					40
	45	71.8	50,000	74.9	50,000	78.1	46,800	75.2	40,000	79.7	40,000			45
	50	69.5	50,000	72.6	50,000	75.7	44,400	73.2	40,000	77.7	40,000			50
	60	64.8	41,200	67.9	41,200	70.8	40,500	69.2	40,000	73.6	35,800	78.1	24,000	60
	70	59.9	32,300	62.9	32,300	65.8	32,300	65.1	33,500	69.5	31,800	73.8	22,100	70
	80	54.7	26,100	57.7	26,100	60.4	26,100	60.8	27,200	65.1	27,200	69.3	20,600	80
	90	49.2	21,400	52.2	21,400	54.7	21,400	56.3	22,400	60.6	22,400	64.6	19,300	90
	100	43.2	17,700	46.1	17,700	48.4	17,700	51.6	18,700	55.8	18,700	59.6	18,300	100
	110	36.4	14,800	39.2	14,800	41.1	14,800	46.5	15,800	50.7	15,800	54.2	15,800	110
	120	28.3	12,400	30.9	12,400			41.0	13,400	45.0	13,400	48.2	13,400	120
	130	17.0	10,400					34.7	11,400	38.6	11,400	41.2	11,400	130
	140							27.2	9,700	30.7	9,700			140
	150							16.6	8,200					150
110	30	79.4	50,000											30
	35	77.3	50,000					79.7	40,000					35
	40	75.2	50,000	78.2	50,000			77.9	40,000					40
	45	73.1	50,000	76.0	50,000	79.0	47,700	76.1	40,000					45
	50	71.0	50,000	73.9	50,000	76.8	45,400	74.3	40,000	78.5	40,000			50
	60	66.7	40,800	69.6	40,800	72.3	40,800	70.5	40,000	74.7	37,000	78.9	24,400	60
	70	62.2	31,900	65.1	31,900	67.7	31,900	66.7	33,100	70.9	33,000	74.9	22,600	70
	80	57.6	25,600	60.4	25,600	62.9	25,600	62.8	26,700	66.9	26,700	70.8	21,000	80
	90	52.6	20,900	55.4	20,900	57.8	20,900	58.7	22,000	62.7	22,000	66.5	19,800	90
	100	47.4	17,300	50.1	17,300	52.3	17,300	54.4	18,300	58.4	18,300	62.0	18,300	100
	110	41.6	14,400	44.2	14,400	46.3	14,400	49.9	15,300	53.8	15,300	57.2	15,300	110
	120	35.1	12,000	37.6	12,000	39.3	12,000	45.0	12,900	48.8	12,900	52.0	12,900	120
	130	27.3	10,000	29.6	10,000			39.6	10,900	43.3	10,900	46.1	10,900	130
	140	16.4	8,300					33.6	9,300	37.1	9,300	39.4	9,300	140
	150							26.3	7,800	29.5	7,800			150
	160							16.1	6,500					160

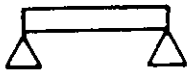
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

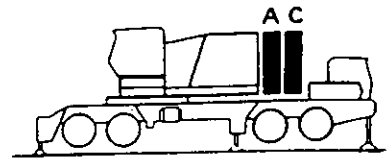
SERIAL NUMBER

HL150T
IDENTIFICATION

32A JIB CAPACITIES – ON OUTRIGGERS 360°
FOR 76A BOOM
85% STABILITY



CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

BOOM ANGLES AND CAPACITIES - 360 DEGREE SWING

BOOM LENGTH	LOAD RADIUS	30 ft. JIB						50 ft. JIB						LOAD RADIUS
		JIB ANGLES TO BOOM (JIB OFFSET IN DEGREES)												
		0		15		30		0		15		30		
FEET	FEET	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	FEET
120	35	78.2	50,000											35
	40	76.2	50,000	79.0	50,000			78.6	40,000					40
	45	74.3	50,000	77.0	50,000	79.7	48,600	76.9	40,000					45
	50	72.3	50,000	75.0	50,000	77.7	46,300	75.2	40,000	79.2	40,000			50
	60	68.3	40,400	71.0	40,400	73.6	40,400	71.7	40,000	75.7	38,200	79.6	24,700	60
	70	64.2	31,500	66.8	31,500	69.4	31,500	68.1	32,700	72.1	32,700	75.9	22,900	70
	80	59.9	25,200	62.5	25,200	65.0	25,200	64.5	26,300	68.4	26,300	72.1	21,400	80
	90	55.5	20,500	58.1	20,500	60.4	20,500	60.7	21,500	64.5	21,500	68.1	20,200	90
	100	50.7	16,800	53.3	16,800	55.5	16,800	56.8	17,800	60.5	17,800	64.0	17,800	100
	110	45.7	13,900	48.2	13,900	50.2	13,900	52.6	14,900	56.4	14,900	59.7	14,900	110
	120	40.1	11,500	42.6	11,500	44.4	11,500	48.3	12,400	51.9	12,400	55.0	12,400	120
	130	33.9	9,500	36.2	9,500	37.7	9,500	43.6	10,400	47.1	10,400	50.0	10,400	130
	140	26.3	7,900	28.5	7,900			38.4	8,700	41.8	8,700	44.3	8,700	140
	150	15.8	6,400					32.5	7,300	35.8	7,300	37.7	7,300	150
	160							25.5	6,000	28.4	6,000			160
	170							15.6	4,900					170
130	35	78.9	50,000											35
	40	77.1	50,000	79.7	50,000			79.3	40,000					40
	45	75.3	50,000	77.8	50,000			77.7	40,000					45
	50	73.4	50,000	76.0	50,000	78.5	47,200	76.0	40,000	79.8	39,700			50
	60	69.7	40,000	72.2	40,000	74.7	40,000	72.8	40,000	76.5	38,100			60
	70	65.9	31,100	68.4	31,100	70.8	31,100	69.4	32,300	73.1	32,300	76.8	23,300	70
	80	62.0	24,800	64.4	24,800	66.7	24,800	66.0	25,900	69.7	25,900	73.2	21,800	80
	90	57.9	20,100	60.3	20,100	62.5	20,100	62.5	21,100	66.1	21,100	69.5	20,600	90
	100	53.6	16,500	56.0	16,500	58.1	16,500	58.8	17,400	62.4	17,400	65.7	17,400	100
	110	49.0	13,600	51.4	13,600	53.4	13,600	55.0	14,500	58.6	14,500	61.8	14,500	110
	120	44.2	11,200	46.5	11,200	48.3	11,200	51.1	12,100	54.5	12,100	57.5	12,100	120
	130	38.8	9,200	41.1	9,200	42.7	9,200	46.8	10,100	50.2	10,100	53.1	10,100	130
	140	32.8	7,600	35.0	7,600	36.2	7,600	42.3	8,400	45.6	8,400	48.2	8,400	140
	150	25.5	6,100	27.5	6,100			37.3	7,000	40.5	7,000	42.7	7,000	150
	160	15.3	4,900					31.6	5,700	34.6	5,700	36.3	5,700	160
	170							24.7	4,600	27.5	4,600			170
	180							15.1	3,600					180
140	35	79.6	50,000											35
	40	77.9	50,000					79.8	40,000					40
	45	76.1	50,000	78.6	50,000			78.3	40,000					45
	50	74.4	50,000	76.8	50,000	79.2	47,900	76.8	40,000					50
	60	70.9	39,600	73.3	39,600	75.7	39,600	73.7	40,000	77.2	37,400			60
	70	67.4	30,700	69.7	30,700	72.0	30,700	70.5	31,900	74.0	31,900	77.5	23,600	70
	80	63.7	24,400	66.1	24,400	68.2	24,400	67.3	25,500	70.8	25,500	74.2	22,200	80
	90	59.9	19,700	62.2	19,700	64.4	19,700	64.0	20,700	67.5	20,700	70.8	20,700	90
	100	56.0	16,000	58.3	16,000	60.3	16,000	60.6	17,000	64.0	17,000	67.2	17,000	100
	110	51.9	13,100	54.1	13,100	56.1	13,100	57.1	14,000	60.5	14,000	63.5	14,000	110
	120	47.5	10,700	49.7	10,700	51.5	10,700	53.5	11,600	56.8	11,600	59.7	11,600	120
	130	42.8	8,800	45.0	8,800	46.6	8,800	49.6	9,600	52.9	9,600	55.6	9,600	130
	140	37.6	7,100	39.8	7,100	41.2	7,100	45.5	7,900	48.7	7,900	51.3	7,900	140
	150	31.8	5,700	33.8	5,700	35.0	5,700	41.1	6,500	44.2	6,500	46.5	6,500	150
	160	24.7	4,400	26.6	4,400			36.2	5,200	39.2	5,200	41.2	5,200	160
	170	14.8	3,300					30.7	4,100	33.6	4,100			170
	180							24.0	3,200	26.6	3,200			180
	190							14.7	2,300					190

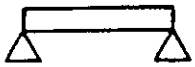
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

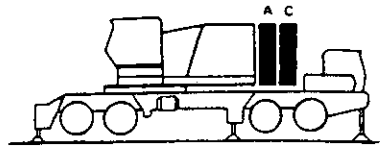
HL150T
IDENTIFICATION

SERIAL NUMBER

32A JIB CAPACITIES – ON OUTRIGGERS 360°
FOR 76A BOOM
85% STABILITY



CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

BOOM ANGLES AND CAPACITIES - 360 DEGREE SWING

BOOM LENGTH	LOAD RADIUS	30 ft. JIB						50 ft. JIB						LOAD RADIUS
		JIB ANGLES TO BOOM (JIB OFFSET IN DEGREES)												
		0		15		30		0		15		30		
FEET	FEET	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	FEET
150	40	**78.5**	**50,000**											40
	45	**76.9**	**50,000**	**79.2**	**50,000**			**78.9**	**40,000**					45
	50	**75.3**	**50,000**	**77.6**	**50,000**	**79.8**	**48,600**	**77.5**	**40,000**					50
	60	72.0	39,200	74.3	39,200	76.5	39,200	**74.5**	**40,000**	**77.9**	**36,600**			60
	70	68.7	30,300	70.9	30,300	73.1	30,300	71.5	31,500	74.9	31,500	**78.2**	**23,900**	70
	80	65.3	24,000	67.5	24,000	69.6	24,000	68.5	25,100	71.8	25,100	**75.1**	**22,500**	80
	90	61.7	19,300	63.9	19,300	66.0	19,300	65.4	20,300	68.7	20,300	71.8	20,300	90
	100	58.1	15,600	60.3	15,600	62.2	15,600	62.2	16,600	65.5	16,600	68.5	16,600	100
	110	54.3	12,700	56.5	12,700	58.3	12,700	58.9	13,600	62.2	13,600	65.1	13,600	110
	120	50.3	10,300	52.4	10,300	54.2	10,300	55.5	11,200	58.7	11,200	61.6	11,200	120
	130	46.1	8,300	48.2	8,300	49.8	8,300	52.0	9,200	55.1	9,200	57.8	9,200	130
	140	41.5	6,700	43.6	6,700	45.1	6,700	48.3	7,500	51.3	7,500	53.9	7,500	140
	150	36.5	5,200	38.5	5,200	39.8	5,200	44.3	6,000	47.3	6,000	49.7	6,000	150
	160	30.9	4,000	32.8	4,000	33.8	4,000	40.0	4,800	42.9	4,800	45.0	4,800	160
	170	24.0	2,900	25.8	2,900			35.3	3,700	38.1	3,700	39.9	3,700	170
	180	14.4	2,000					29.9	2,700	32.6	2,700			180
160	40	**79.1**	**50,000**											40
	45	**77.6**	**50,000**	**79.8**	**50,000**			**79.4**	**40,000**					45
	50	**76.1**	**50,000**	**78.2**	**50,000**			**78.1**	**40,000**					50
	60	73.0	38,900	75.1	38,900	77.2	38,900	**75.3**	**40,000**	**78.5**	**35,600**			60
	70	69.8	29,900	72.0	29,900	74.0	29,900	72.4	31,100	75.6	31,100	**78.8**	**24,200**	70
	80	66.6	23,600	68.7	23,600	70.7	23,600	69.6	24,700	72.7	24,700	**75.8**	**22,800**	80
	90	63.3	18,900	65.4	18,900	67.4	18,900	66.6	19,800	69.8	19,800	72.8	19,800	90
	100	59.9	15,200	62.0	15,200	63.9	15,200	63.6	16,100	66.8	16,100	69.7	16,100	100
	110	56.4	12,200	58.5	12,200	60.3	12,200	60.6	13,100	63.6	13,100	66.5	13,100	110
	120	52.8	9,900	54.8	9,900	56.5	9,900	57.4	10,700	60.4	10,700	63.2	10,700	120
	130	48.9	7,900	50.9	7,900	52.5	7,900	54.1	8,700	57.1	8,700	59.7	8,700	130
	140	44.8	6,200	46.8	6,200	48.3	6,200	50.7	7,000	53.6	7,000	56.1	7,000	140
	150	40.4	4,800	42.3	4,800	43.7	4,800	47.0	5,500	49.9	5,500	52.3	5,500	150
	160	35.5	3,500	37.4	3,500	38.6	3,500	43.2	4,300	46.0	4,300	48.2	4,300	160
	170	30.0	2,400	31.8	2,400			39.0	3,200	41.8	3,200	43.7	3,200	170
	180							34.4	2,200	37.0	2,200	38.6	2,200	180
		SEE NOTE 6! ON OUTRIGGERS EQUIPPED WITH JIB												
170	40	**79.7**	**50,000**											40
	45	**78.2**	**50,000**					**79.9**	**40,000**					45
	50	**76.8**	**50,000**	**78.8**	**50,000**			**78.6**	**40,000**					50
	60	73.9	38,500	75.9	38,500	77.9	38,500	75.9	39,700	**79.0**	**34,500**			60
	70	70.9	29,600	72.9	29,600	74.9	29,600	73.3	30,700	76.3	30,700	**79.3**	**24,400**	70
	80	67.8	23,200	69.9	23,200	71.8	23,200	70.5	24,300	73.6	24,300	**76.5**	**23,000**	80
	90	64.8	18,500	66.7	18,500	68.6	18,500	67.8	19,500	70.8	19,500	73.7	19,500	90
	100	61.6	14,800	63.5	14,800	65.4	14,800	64.9	15,700	67.9	15,700	70.7	15,700	100
	110	58.3	11,900	60.2	11,900	62.0	11,900	62.0	12,800	65.0	12,800	67.7	12,800	110
	120	54.9	9,500	56.8	9,500	58.5	9,500	59.0	10,300	62.0	10,300	64.6	10,300	120
	130	51.3	7,500	53.3	7,500	54.9	7,500	56.0	8,300	58.8	8,300	61.4	8,300	130
	140	47.6	5,800	49.5	5,800	51.0	5,800	52.8	6,600	55.6	6,600	58.1	6,600	140
	150	43.6	4,400	45.5	4,400	46.9	4,400	49.4	5,200	52.2	5,200	54.5	5,200	150
	160	39.4	3,200	41.2	3,200	42.4	3,200	45.9	3,900	48.6	3,900	50.8	3,900	160
	170	34.6	2,100	36.4	2,100	37.5	2,100	42.1	2,800	44.8	2,800	46.8	2,800	170

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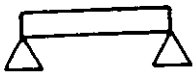
READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

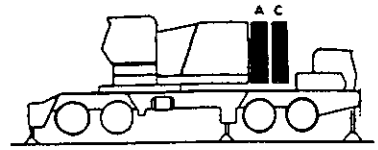
SERIAL NUMBER

HL150T
IDENTIFICATION

32A JIB CAPACITIES – ON OUTRIGGERS 360°
FOR 76A BOOM
85% STABILITY



CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

BOOM ANGLES AND CAPACITIES - 360 DEGREE SWING

BOOM LENGTH	LOAD RADIUS	30 ft. JIB						50 ft. JIB						LOAD RADIUS
		JIB ANGLES TO BOOM (JIB OFFSET IN DEGREES)												
		0		15		30		0		15		30		
FEET	FEET	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	FEET
		SEE NOTE 6! ON OUTRIGGERS EQUIPPED WITH JIB												
180	45	78.8	50,000					79.1	40,000					45
	50	77.4	50,000	79.4	50,000			76.6	39,400	79.5	33,100			50
	60	74.6	38,100	76.6	38,100	78.5	38,100	74.0	30,300	76.9	30,300	79.8	24,600	60
	70	71.8	29,200	73.7	29,200	75.6	29,200	71.4	23,900	74.3	23,900	77.2	23,300	70
	80	68.9	22,800	70.9	22,800	72.7	22,800	68.8	19,000	71.6	19,000	74.4	19,000	80
	90	66.0	18,100	67.9	18,100	69.7	18,100	66.1	15,300	68.9	15,300	71.7	15,300	90
	100	63.0	14,400	64.9	14,400	66.7	14,400	63.3	12,300	66.2	12,300	68.8	12,300	100
	110	59.9	11,500	61.8	11,500	63.5	11,500	60.5	9,900	63.3	9,900	65.9	9,900	110
	120	56.8	9,100	58.6	9,100	60.3	9,100	57.6	7,900	60.4	7,900	62.9	7,900	120
	130	53.5	7,100	55.3	7,100	56.9	7,100	54.6	6,200	57.4	6,200	59.8	6,200	130
	140	50.0	5,400	51.8	5,400	53.3	5,400	51.5	4,700	54.2	4,700	56.5	4,700	140
	150	46.4	3,900	48.2	3,900	49.6	3,900	48.3	3,400	50.9	3,400	53.1	3,400	150
	160	42.5	2,700	44.3	2,700	45.6	2,700	44.8	2,300	47.4	2,300	49.4	2,300	160
	170													170
190	45	79.3	50,000					79.6	40,000					45
	50	78.0	50,000	79.9	47,800			77.1	37,500	80.0	31,700			50
	60	75.3	37,700	77.2	37,700	79.0	37,700	74.7	29,900	77.5	29,900			60
	70	72.7	28,800	74.5	28,800	76.3	28,800	72.2	23,500	75.0	23,500	77.7	23,500	70
	80	69.9	22,400	71.8	22,400	73.5	22,400	69.7	18,600	72.5	18,600	75.1	18,600	80
	90	67.2	17,700	69.0	17,700	70.7	17,700	67.1	14,900	69.9	14,900	72.5	14,900	90
	100	64.3	14,000	66.1	14,000	67.8	14,000	64.5	11,900	67.2	11,900	69.8	11,900	100
	110	61.4	11,000	63.2	11,000	64.9	11,000	61.9	9,500	64.6	9,500	67.0	9,500	110
	120	58.4	8,600	60.2	8,600	61.8	8,600	59.1	7,400	61.8	7,400	64.2	7,400	120
	130	55.4	6,600	57.1	6,600	58.7	6,600	56.3	5,700	58.9	5,700	61.3	5,700	130
	140	52.2	4,900	53.9	4,900	55.4	4,900	53.4	4,300	56.0	4,300	58.2	4,300	140
	150	48.8	3,500	50.5	3,500	51.9	3,500	50.3	3,000	52.9	3,000	55.1	3,000	150
	160	45.3	2,300	47.0	2,300	48.3	2,300							160
200	45	79.8	50,000					80.0	38,500					45
	50	78.5	48,100					77.7	35,100					50
	60	76.0	37,400	77.8	37,400	79.5	36,000	75.3	29,600	78.0	28,100			60
	70	73.4	28,400	75.2	28,400	76.9	28,400	72.9	23,100	75.6	23,100	78.3	22,600	70
	80	70.8	22,000	72.6	22,000	74.3	22,000	70.5	18,200	73.2	18,200	75.8	18,200	80
	90	68.2	17,200	69.9	17,200	71.6	17,200	68.1	14,500	70.7	14,500	73.3	14,500	90
	100	65.5	13,500	67.2	13,500	68.9	13,500	65.6	11,500	68.2	11,500	70.7	11,500	100
	110	62.8	10,600	64.5	10,600	66.1	10,600	63.1	9,000	65.7	9,000	68.1	9,000	110
	120	59.9	8,200	61.7	8,200	63.2	8,200	60.5	7,000	63.1	7,000	65.4	7,000	120
	130	57.0	6,200	58.7	6,200	60.2	6,200	57.8	5,300	60.4	5,300	62.6	5,300	130
	140	54.1	4,500	55.7	4,500	57.2	4,500	55.1	3,800	57.6	3,800	59.8	3,800	140
	150	50.9	3,000	52.6	3,000	54.0	3,000	52.2	2,500	54.7	2,500	56.8	2,500	150
	160													160
210	50	79.0	43,200											50
	60	76.6	37,000	78.3	36,500	80.0	33,700	78.1	32,600					60
	70	74.1	28,000	75.8	28,000	77.5	28,000	75.9	29,200	78.5	26,100			70
	80	71.7	21,600	73.3	21,600	75.0	21,600	73.6	22,700	76.2	22,700	78.7	21,300	80
	90	69.1	16,800	70.8	16,800	72.4	16,800	71.3	17,800	73.9	17,800	76.4	17,800	90
	100	66.6	13,200	68.3	13,200	69.8	13,200	69.0	14,100	71.5	14,100	74.0	14,100	100
	110	64.0	10,200	65.6	10,200	67.2	10,200	66.6	11,100	69.1	11,100	71.5	11,100	110
	120	61.3	7,800	63.0	7,800	64.4	7,800	64.2	8,600	66.7	8,600	69.0	8,600	120
	130	58.6	5,800	60.2	5,800	61.7	5,800	61.7	6,600	64.2	6,600	66.5	6,600	130
	140	55.8	4,100	57.4	4,100	58.8	4,100	59.2	4,900	61.7	4,900	63.9	4,900	140
	150	52.8	2,700	54.4	2,700	55.8	2,700	56.6	3,400	59.0	3,400	61.2	3,400	150
	160							53.9	2,100	56.3	2,100	58.4	2,100	160

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

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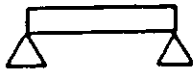
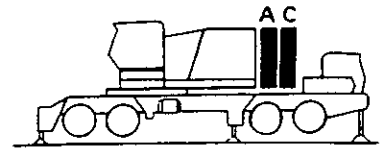
HL150T
IDENTIFICATION

SERIAL NUMBER

32A JIB CAPACITIES – ON OUTRIGGERS 360°
FOR 76A BOOM
85% STABILITY



CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

BOOM ANGLES AND CAPACITIES - 360 DEGREE SWING

BOOM LENGTH	LOAD RADIUS	70 ft. JIB						90 ft. JIB						LOAD RADIUS
		JIB ANGLES TO BOOM (JIB OFFSET IN DEGREES)												
		0		15		30		0		15		30		
FEET	FEET	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	FEET
50	30	79.1	30,000											30
	35	76.7	30,000					78.3	20,000					35
	40	74.2	30,000					76.3	20,000					40
	45	71.8	30,000	79.7	29,300			74.2	20,000					45
	50	69.2	30,000	77.2	27,900			72.0	20,000					50
	60	64.1	29,400	71.9	23,600			67.7	20,000	76.5	19,400			60
	70	58.6	24,600	66.4	20,400	74.4	14,900	63.2	20,000	72.0	17,700			70
	80	52.8	21,000	60.5	18,000	68.3	13,400	58.6	18,800	67.3	15,400	76.4	11,200	80
	90	46.5	18,300	54.1	16,100	61.4	12,300	53.6	16,400	62.3	13,700	71.2	10,100	90
	100	39.4	16,200	46.8	14,600	53.6	11,400	48.4	14,400	56.9	12,200	65.6	9,200	100
	110	30.9	14,500	38.0	13,400	43.8	10,800	42.6	12,800	51.1	11,100	59.4	8,500	110
	120	19.1	13,200					36.1	11,500	44.4	10,200	52.1	7,900	120
	130							28.3	10,500	36.3	9,400	43.0	7,500	130
	140							17.4	9,600	24.5	8,900			140
60	30	79.9	30,000											30
	35	77.7	30,000					79.1	20,000					35
	40	75.5	30,000					77.2	20,000					40
	45	73.2	30,000					75.2	20,000					45
	50	70.9	30,000	78.2	28,400			73.3	20,000					50
	60	66.2	30,000	73.5	24,700			69.3	20,000	77.5	19,500			60
	70	61.3	26,700	68.5	21,400	75.9	15,200	65.1	20,000	73.3	18,300			70
	80	56.1	22,800	63.2	19,000	70.4	13,800	60.9	19,300	69.0	16,100	77.5	11,400	80
	90	50.6	19,900	57.6	17,000	64.5	12,700	56.4	17,700	64.5	14,300	72.8	10,300	90
	100	44.6	17,600	51.5	15,400	57.9	11,800	51.7	15,600	59.7	12,900	67.8	9,500	100
	110	37.8	15,800	44.5	14,200	50.4	11,100	46.6	13,900	54.5	11,700	62.3	8,700	110
	120	29.6	14,300	36.0	13,200	40.8	10,700	41.1	12,500	48.9	10,700	56.3	8,200	120
	130	18.3	13,100					34.8	11,300	42.4	9,900	49.3	7,700	130
	140							27.3	10,400	34.6	9,300	40.3	7,400	140
	150							16.7	9,600					150
70	35	78.6	30,000					79.8	20,000					35
	40	76.5	30,000					78.0	20,000					40
	45	74.4	30,000					76.2	20,000					45
	50	72.3	30,000	79.1	28,400			74.3	20,000					50
	60	68.0	30,000	74.7	25,600			70.6	20,000	78.3	19,500			60
	70	63.5	28,800	70.2	22,400	77.0	15,600	66.8	20,000	74.5	18,400			70
	80	58.8	24,600	65.5	19,900	72.1	14,200	62.8	19,800	70.5	16,800	78.4	11,600	80
	90	53.9	21,500	60.4	17,900	66.9	13,100	58.7	18,600	66.3	15,000	74.1	10,600	90
	100	48.6	19,100	55.1	16,300	61.2	12,200	54.5	16,700	62.0	13,500	69.6	9,700	100
	110	42.9	17,100	49.2	14,900	54.9	11,500	49.9	14,900	57.4	12,300	64.7	9,000	110
	120	36.3	15,400	42.5	13,900	47.6	10,900	45.1	13,400	52.4	11,300	59.5	8,400	120
	130	28.5	13,400	34.3	13,000	38.2	10,600	39.7	12,200	46.9	10,400	53.6	7,900	130
	140	17.6	11,700					33.7	11,100	40.7	9,700	46.7	7,600	140
	150													150
	160													160

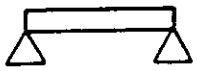
RATED LOADS APPEARING IN SHADED AREAS ARE BAS
RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES O
THIS MANUAL BEFORE OPERATING THIS MACHINE.

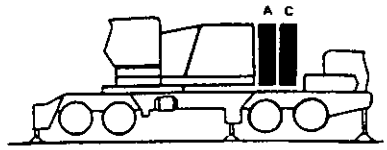
Kodak ds
digital science™
DEMO

SERIAL NUMBER

32A JIB CAPACITIES – ON OUTRIGGERS 360°
FOR 76A BOOM
85% STABILITY



CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

BOOM ANGLES AND CAPACITIES - 360 DEGREE SWING

BOOM LENGTH	LOAD RADIUS	70 ft. JIB						90 ft. JIB						LOAD RADIUS
		JIB ANGLES TO BOOM (JIB OFFSET IN DEGREES)												
		0		15		30		0		15		30		
FEET	FEET	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	FEET
80	35	79.4	30,000											35
	40	77.4	30,000					78.7	20,000					40
	45	75.5	30,000					77.0	20,000					45
	50	73.5	30,000	79.9	28,300			75.3	20,000					50
	60	69.5	30,000	75.8	26,500			71.8	20,000	79.0	19,500			60
	70	65.4	29,800	71.6	23,300	78.0	15,800	68.2	20,000	75.4	18,500			70
	80	61.1	26,500	67.3	20,700	73.5	14,500	64.6	20,000	71.7	17,400	79.2	11,800	80
	90	56.6	23,100	62.8	18,700	68.8	13,400	60.8	19,100	67.9	15,600	75.2	10,800	90
	100	51.9	20,200	58.0	17,000	63.8	12,500	56.8	17,900	63.9	14,100	71.1	9,900	100
	110	46.9	17,300	52.8	15,700	58.3	11,800	52.7	15,900	59.7	12,800	66.7	9,200	110
	120	41.3	14,900	47.1	14,600	52.2	11,200	48.3	14,300	55.3	11,800	62.0	8,600	120
	130	35.0	12,900	40.7	12,900	45.1	10,800	43.6	13,000	50.5	10,900	56.9	8,100	130
	140	27.5	11,200	32.8	11,200			38.5	11,500	45.2	10,200	51.2	7,700	140
	150	16.9	9,700					32.6	10,100	39.2	9,600	44.5	7,500	150
	160							25.5	8,800	31.8	8,800			160
	170							15.7	7,800					170
90	40	78.2	30,000											40
	45	76.4	30,000					79.3	20,000					45
	50	74.6	30,000					77.7	20,000					50
	60	70.8	30,000	76.8	26,800			76.1	20,000					60
	70	67.0	30,000	72.9	24,100	78.9	16,100	72.8	20,000	79.7	19,500			70
	80	63.1	28,300	68.9	21,600	74.7	14,800	69.5	20,000	76.3	18,500			80
	90	59.0	23,500	64.7	19,500	70.4	13,700	66.0	20,000	72.8	17,600	79.9	11,900	90
	100	54.7	19,800	60.4	17,800	65.9	12,800	62.5	19,400	69.3	16,100	76.2	11,000	100
	110	50.2	16,900	55.8	16,400	61.0	12,100	58.9	18,400	65.6	14,600	72.3	10,100	110
	120	45.3	14,500	50.8	14,500	55.7	11,500	55.1	17,000	61.7	13,400	68.3	9,400	120
	130	39.9	12,500	45.3	12,500	49.8	11,000	51.1	14,800	57.7	12,300	64.1	8,800	130
	140	33.9	10,800	39.1	10,800	42.9	10,700	46.9	12,800	53.4	11,400	59.5	8,300	140
	150	26.6	9,400	31.4	9,400			42.3	11,100	48.8	10,600	54.6	7,900	150
	160	16.4	8,100					37.3	9,700	43.6	9,700	49.0	7,600	160
	170							31.6	8,500	37.8	8,500	42.5	7,400	170
	180							24.8	7,400	30.6	7,400			180
								15.2	6,400					
100	40	78.9	30,000					79.9	20,000					40
	45	77.2	30,000					78.4	20,000					45
	50	75.5	30,000					76.8	20,000					50
	60	72.0	30,000	77.6	26,700			73.7	20,000					60
	70	68.4	30,000	74.0	24,900	79.6	16,300	70.6	20,000	77.1	18,500			70
	80	64.8	27,800	70.3	22,300	75.8	15,100	67.4	20,000	73.8	17,600			80
	90	61.0	23,000	66.4	20,200	71.8	14,000	64.1	19,800	70.5	16,700	77.0	11,100	90
	100	57.0	19,300	62.4	18,500	67.6	13,100	60.7	18,700	67.0	15,200	73.5	10,300	100
	110	52.9	16,400	58.2	16,400	63.2	12,400	57.2	16,700	63.5	13,900	69.7	9,600	110
	120	48.5	14,000	53.8	14,000	58.5	11,800	53.5	14,300	59.8	12,800	65.9	9,000	120
	130	43.8	12,000	49.0	12,000	53.4	11,200	49.7	12,300	55.8	11,800	61.7	8,500	130
	140	38.7	10,300	43.7	10,300	47.7	10,300	45.6	10,600	51.7	10,600	57.3	8,100	140
	150	32.8	8,800	37.6	8,800	41.0	8,800	41.1	9,200	47.2	9,200	52.5	7,800	150
	160	25.7	7,600	30.2	7,600			36.3	7,900	42.2	7,900	47.1	7,500	160
	170	15.8	6,500					30.8	6,800	36.5	6,800	40.7	6,800	170
	180							24.1	5,900	29.5	5,900			180
	190							14.8	5,000					190

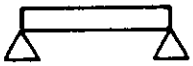
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

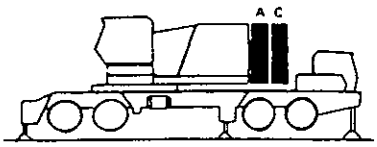
SERIAL NUMBER

HL150T
IDENTIFICATION

32A JIB CAPACITIES – ON OUTRIGGERS 360°
FOR 76A BOOM
85% STABILITY



CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

BOOM ANGLES AND CAPACITIES - 360 DEGREE SWING

BOOM LENGTH	LOAD RADIUS	70 ft. JIB						90 ft. JIB						LOAD RADIUS
		JIB ANGLES TO BOOM (JIB OFFSET IN DEGREES)												
		0		15		30		0		15		30		
FEET	FEET	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	FEET
110	40	79.5	30,000					79.0	20,000					40
	45	77.9	30,000					77.5	20,000					45
	50	76.3	30,000					74.6	20,000					50
	60	73.0	30,000	78.3	26,500			71.6	20,000					60
	70	69.7	30,000	74.9	25,400			68.6	20,000	77.7	18,400			70
	80	66.3	27,400	71.4	23,100	76.7	15,300	65.5	20,000	74.7	17,600			80
	90	62.7	22,600	67.9	20,900	73.0	14,300	62.3	19,000	71.5	16,800	77.8	11,300	90
	100	59.1	18,900	64.2	18,900	69.1	13,400	59.0	16,200	68.3	15,700	74.4	10,500	100
	110	55.3	15,900	60.3	15,900	65.1	12,600	55.6	13,800	65.0	14,300	71.0	9,800	110
	120	51.3	13,500	56.3	13,500	60.9	12,000	52.1	11,800	61.6	13,200	67.4	9,200	120
	130	47.1	11,500	52.0	11,500	56.3	11,500	48.3	10,100	58.0	11,800	63.6	8,700	130
	140	42.5	9,800	47.3	9,800	51.4	9,800	44.3	8,700	54.2	10,100	59.6	8,300	140
	150	37.5	8,400	42.2	8,400	45.8	8,400	40.1	7,400	50.1	8,700	55.3	7,900	150
	160	31.8	7,100	36.3	7,100	39.2	7,100	35.3	6,400	45.7	7,400	50.6	7,400	160
	170	25.0	6,000	29.1	6,000			30.0	5,400	40.9	6,400	45.3	6,400	170
	180	15.4	5,100					23.5	4,600	35.3	5,400	39.0	5,400	180
	190							14.4	3,800	28.5	4,600			190
	200													200
120	45	78.6	30,000					79.5	20,000					45
	50	77.0	30,000					78.1	20,000					50
	60	73.9	30,000	78.9	26,200			75.3	20,000					60
	70	70.8	30,000	75.8	25,200			72.5	20,000	78.4	18,200			70
	80	67.6	26,900	72.5	23,700	77.5	15,500	69.6	20,000	75.5	17,500			80
	90	64.3	22,100	69.2	21,600	74.0	14,500	66.7	20,000	72.5	16,700	78.4	11,400	90
	100	60.9	18,400	65.7	18,400	70.4	13,600	63.7	18,700	69.5	16,100	75.3	10,600	100
	110	57.4	15,400	62.2	15,400	66.7	12,900	60.6	15,700	66.4	14,800	72.0	10,000	110
	120	53.7	13,000	58.4	13,000	62.8	12,300	57.4	13,300	63.1	13,300	68.7	9,400	120
	130	49.8	11,000	54.5	11,000	58.7	11,000	54.1	11,300	59.8	11,300	65.2	8,900	130
	140	45.7	9,300	50.3	9,300	54.3	9,300	50.7	9,600	56.3	9,600	61.5	8,500	140
	150	41.3	7,900	45.8	7,900	49.5	7,900	47.1	8,200	52.6	8,200	57.6	8,100	150
	160	36.5	6,600	40.8	6,600	44.1	6,600	43.2	6,900	48.7	6,900	53.5	6,900	160
	170	31.0	5,500	35.1	5,500	37.7	5,500	39.0	5,800	44.4	5,800	48.9	5,800	170
	180	24.3	4,500	28.1	4,500			34.4	4,900	39.7	4,900	43.7	4,900	180
	190	14.9	3,700					29.2	4,000	34.2	4,000	37.5	4,000	190
	200							22.9	3,300	27.6	3,300			200
130	45	79.1	30,000					80.0	20,000					45
	50	77.7	30,000					78.6	20,000					50
	60	74.8	30,000	79.5	25,900			76.0	20,000					60
	70	71.8	30,000	76.5	24,900			73.3	20,000	78.9	18,000			70
	80	68.7	26,500	73.4	23,900	78.2	15,700	70.6	20,000	76.2	17,300			80
	90	65.6	21,700	70.3	21,700	74.9	14,700	67.8	20,000	73.4	16,600	79.0	11,500	90
	100	62.5	18,000	67.1	18,000	71.6	13,900	65.0	18,300	70.5	16,000	76.0	10,800	100
	110	59.2	15,100	63.8	15,100	68.1	13,100	62.1	15,300	67.6	15,300	73.0	10,100	110
	120	55.8	12,600	60.3	12,600	64.5	12,500	59.1	12,900	64.5	12,900	69.9	9,600	120
	130	52.2	10,600	56.7	10,600	60.8	10,600	56.0	10,900	61.4	10,900	66.6	9,000	130
	140	48.5	8,900	52.9	8,900	56.8	8,900	52.8	9,200	58.2	9,200	63.2	8,600	140
	150	44.5	7,500	48.9	7,500	52.5	7,500	49.5	7,800	54.8	7,800	59.6	7,800	150
	160	40.2	6,200	44.5	6,200	47.8	6,200	45.9	6,500	51.2	6,500	55.8	6,500	160
	170	35.5	5,100	39.6	5,100	42.5	5,100	42.2	5,400	47.3	5,400	51.8	5,400	170
	180	30.1	4,200	34.0	4,200	36.3	4,200	38.1	4,500	43.2	4,500	47.3	4,500	180
	190	23.6	3,300	27.2	3,300			33.6	3,600	38.6	3,600	42.2	3,600	190
	200	14.5	2,600					28.5	2,900	33.3	2,900	36.2	2,900	200

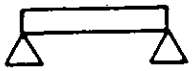
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

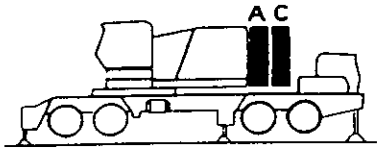
SERIAL NUMBER

HL150T
IDENTIFICATION

32A JIB CAPACITIES – ON OUTRIGGERS 360°
FOR 76A BOOM
85% STABILITY



CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

BOOM ANGLES AND CAPACITIES - 360 DEGREE SWING

BOOM LENGTH	LOAD RADIUS	70 ft. JIB						90 ft. JIB						LOAD RADIUS
		JIB ANGLES TO BOOM (JIB OFFSET IN DEGREES)												
		0		15		30		0		15		30		
FEET	FEET	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	FEET
140	45	79.7	30,000											45
	50	78.3	30,000					79.1	20,000					50
	60	75.5	30,000					76.6	20,000					60
	70	72.7	30,000	77.2	24,500			74.1	20,000	79.4	17,800			70
	80	69.8	26,100	74.3	23,600	78.8	15,900	71.5	20,000	76.8	17,100			80
	90	66.9	21,300	71.3	21,300	75.7	14,900	68.8	20,000	74.1	16,500	79.5	11,700	90
	100	63.9	17,600	68.3	17,600	72.6	14,100	66.1	17,900	71.4	15,800	76.7	10,900	100
	110	60.8	14,600	65.2	14,600	69.4	13,300	63.4	14,900	68.6	14,900	73.9	10,300	110
	120	57.6	12,200	61.9	12,200	66.0	12,200	60.6	12,500	65.8	12,500	70.9	9,700	120
	130	54.3	10,200	58.6	10,200	62.5	10,200	57.7	10,400	62.8	10,400	67.9	9,200	130
	140	50.9	8,500	55.1	8,500	58.9	8,500	54.7	8,700	59.8	8,700	64.7	8,700	140
	150	47.2	7,000	51.4	7,000	55.0	7,000	51.6	7,300	56.6	7,300	61.4	7,300	150
	160	43.4	5,700	47.5	5,700	50.8	5,700	48.3	6,000	53.3	6,000	57.9	6,000	160
	170	39.2	4,600	43.2	4,600	46.2	4,600	44.9	4,900	49.8	4,900	54.2	4,900	170
	180	34.6	3,700	38.5	3,700	41.1	3,700	41.2	4,000	46.1	4,000	50.2	4,000	180
	190	29.4	2,800	33.0	2,800			37.2	3,100	42.0	3,100	45.8	3,100	190
	200	23.1	2,100	26.4	2,100			32.9	2,400	37.5	2,400	40.8	2,400	200
150	50	78.8	30,000					SEE NOTE 6! ON OUTRIGGERS EQUIPPED WITH A JIB						50
	60	76.2	30,000					79.6	20,000					60
	70	73.5	30,000	77.8	24,000			77.2	20,000					70
	80	70.7	25,700	75.0	23,100	79.3	16,000	74.7	20,000	79.9	17,500			80
	90	68.0	20,900	72.2	20,900	76.4	15,100	72.3	20,000	77.4	16,800			90
	100	65.1	17,100	69.4	17,100	73.5	14,300	69.7	20,000	74.8	16,200			100
	110	62.2	14,200	66.4	14,200	70.5	13,500	67.2	17,400	72.2	15,600	77.4	11,000	110
	120	59.3	11,700	63.4	11,700	67.3	11,700	64.6	14,400	69.6	14,400	74.6	10,400	120
	130	56.2	9,700	60.3	9,700	64.1	9,700	61.9	12,000	66.9	12,000	71.8	9,800	130
	140	53.0	8,000	57.0	8,000	60.7	8,000	59.2	10,000	64.1	10,000	69.0	9,300	140
	150	49.6	6,500	53.6	6,500	57.1	6,500	56.3	8,300	61.3	8,300	66.0	8,300	150
	160	46.1	5,300	50.0	5,300	53.3	5,300	53.4	6,800	58.3	6,800	62.9	6,800	160
	170	42.3	4,200	46.2	4,200	49.3	4,200	50.4	5,600	55.2	5,600	59.7	5,600	170
	180	38.3	3,200	42.0	3,200	44.8	3,200	47.2	4,500	52.0	4,500	56.3	4,500	180
	190	33.8	2,400	37.4	2,400	39.8	2,400	43.9	3,500	48.6	3,500	52.7	3,500	190
160	SEE NOTE 6! ON OUTRIGGERS EQUIPPED WITH A JIB							40.3	2,700	44.9	2,700	48.8	2,700	
	50	79.3	30,000											50
	60	76.8	30,000					77.7	20,000					60
	70	74.2	29,400	78.3	23,500			75.4	20,000					70
	80	71.6	25,300	75.7	22,600	79.8	16,200	73.0	20,000	77.9	16,500			80
	90	69.0	20,400	73.0	20,400	77.1	15,300	70.6	19,700	75.5	15,900			90
	100	66.3	16,700	70.3	16,700	74.3	14,400	68.1	17,000	73.0	15,300	77.9	11,100	100
	110	63.5	13,700	67.6	13,700	71.4	13,700	65.7	14,000	70.5	14,000	75.3	10,500	110
	120	60.7	11,300	64.7	11,300	68.5	11,300	63.1	11,500	67.9	11,500	72.7	10,000	120
	130	57.8	9,200	61.8	9,200	65.4	9,200	60.5	9,500	65.3	9,500	70.0	9,500	130
	140	54.8	7,500	58.7	7,500	62.3	7,500	57.9	7,800	62.6	7,800	67.2	7,800	140
	150	51.7	6,100	55.6	6,100	59.0	6,100	55.1	6,300	59.8	6,300	64.3	6,300	150
	160	48.5	4,800	52.3	4,800	55.5	4,800	52.3	5,100	56.9	5,100	61.2	5,100	160
	170	45.0	3,700	48.8	3,700	51.8	3,700	49.3	4,000	53.9	4,000	58.1	4,000	170
	180	41.3	2,700	45.0	2,700	47.9	2,700	46.2	3,000	50.8	3,000	54.8	3,000	180
	190							42.9	2,100	47.4	2,100	51.2	2,100	190

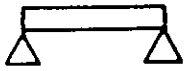
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

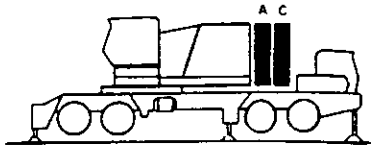
SERIAL NUMBER

HL150T
IDENTIFICATION

32A JIB CAPACITIES – ON OUTRIGGERS 360°
FOR 76A BOOM
85% STABILITY



CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

BOOM ANGLES AND CAPACITIES - 360 DEGREE SWING

BOOM LENGTH	LOAD RADIUS	70 ft. JIB						90 ft. JIB						LOAD RADIUS
		JIB ANGLES TO BOOM (JIB OFFSET IN DEGREES)												
		0		15		30		0		15		30		
FEET	FEET	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	DEG	LBS.	FEET
		SEE NOTE 6! ON OUTRIGGERS EQUIPPED WITH A JIB												
	50	79.8	30,000					78.2	20,000					50
	60	77.3	30,000					75.9	20,000					60
	70	74.9	28,600	78.8	22,800			73.6	20,000					70
	80	72.4	24,900	76.3	22,000			71.3	19,300	78.4	16,100			80
	90	69.9	20,000	73.8	20,000	77.7	15,400	69.0	16,500	76.1	15,500			90
	100	67.3	16,300	71.2	16,300	75.0	14,600	66.6	13,600	73.7	14,900	78.4	10,800	100
170	110	64.7	13,300	68.6	13,300	72.3	13,300	64.2	11,100	71.3	13,600	76.0	10,500	110
	120	62.1	10,900	65.9	10,900	69.5	10,900	61.8	9,100	68.9	11,100	73.4	10,100	120
	130	59.3	8,800	63.1	8,800	66.7	8,800	59.2	7,400	66.4	9,100	70.9	9,100	130
	140	56.5	7,100	60.3	7,100	63.7	7,100	56.6	5,900	63.8	7,400	68.2	7,400	140
	150	53.6	5,700	57.3	5,700	60.6	5,700	54.0	4,700	61.2	5,900	65.5	5,900	150
	160	50.5	4,400	54.2	4,400	57.4	4,400	51.2	3,600	58.5	4,700	62.6	4,700	160
	170	47.4	3,300	51.0	3,300	54.0	3,300	48.3	2,600	55.6	3,600	59.7	3,600	170
	180	44.0	2,300	47.6	2,300	50.4	2,300			52.7	2,600	56.6	2,600	180
	60	77.8	29,500					78.6	20,000					60
	70	75.5	27,600	79.3	22,100			76.5	20,000					70
	80	73.1	24,500	76.9	21,200			74.3	19,900	78.8	15,700			80
	90	70.7	19,600	74.5	19,600	78.2	15,400	72.1	18,700	76.6	15,000			90
	100	68.3	15,900	72.0	15,900	75.7	14,800	69.8	16,100	74.3	14,400	78.9	10,400	100
	110	65.8	12,900	69.5	12,900	73.1	12,900	67.6	13,100	72.0	13,100	76.5	10,100	110
180	120	63.3	10,400	66.9	10,400	70.5	10,400	65.2	10,700	69.7	10,700	74.1	9,900	120
	130	60.7	8,400	64.3	8,400	67.8	8,400	62.9	8,700	67.3	8,700	71.7	8,700	130
	140	58.0	6,700	61.6	6,700	65.0	6,700	60.5	6,900	64.9	6,900	69.2	6,900	140
	150	55.3	5,200	58.8	5,200	62.1	5,200	58.0	5,500	62.4	5,500	66.6	5,500	150
	160	52.4	3,900	56.0	3,900	59.1	3,900	55.5	4,200	59.8	4,200	63.9	4,200	160
	170	49.4	2,800	53.0	2,800	55.9	2,800	52.9	3,100	57.2	3,100	61.1	3,100	170
	180							50.2	2,100	54.4	2,100	58.3	2,100	180
	60	78.3	28,300					79.0	20,000					60
	70	76.1	26,400	79.7	21,300			76.9	20,000					70
	80	73.8	24,100	77.4	20,300			74.8	19,200	79.2	15,100			80
	90	71.5	19,200	75.1	19,200	78.7	14,800	72.7	18,000	77.1	14,500			90
	100	69.2	15,400	72.7	15,400	76.3	14,500	70.6	15,700	74.9	13,800	79.3	10,000	100
190	110	66.8	12,400	70.4	12,400	73.8	12,400	68.4	12,700	72.7	12,700	77.1	9,700	110
	120	64.4	10,000	67.9	10,000	71.3	10,000	66.2	10,200	70.5	10,200	74.8	9,500	120
	130	61.9	7,900	65.4	7,900	68.7	7,900	63.9	8,200	68.2	8,200	72.4	8,200	130
	140	59.4	6,200	62.9	6,200	66.1	6,200	61.6	6,500	65.9	6,500	70.0	6,500	140
	150	56.8	4,700	60.2	4,700	63.4	4,700	59.3	5,000	63.5	5,000	67.6	5,000	150
	160	54.1	3,500	57.5	3,500	60.6	3,500	56.9	3,700	61.1	3,700	65.0	3,700	160
	170	51.3	2,400	54.7	2,400	57.6	2,400	54.4	2,600	58.6	2,600	62.4	2,600	170

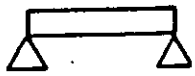
RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

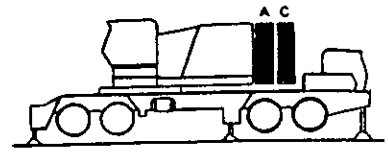
SERIAL NUMBER

HL150T
IDENTIFICATION

32A JIB CAPACITIES – ON OUTRIGGERS 360°
FOR 76A BOOM
85% STABILITY



CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

BOOM ANGLES AND CAPACITIES - 360 DEGREE SWING										
BOOM LENGTH	LOAD RADIUS	70 ft. JIB						90 ft. JIB		LOAD RADIUS
		JIB ANGLES TO BOOM (JIB OFFSET IN DEGREES)								
		0		15		30				
FEET	FEET	DEG	LBS.	DEG	LBS.	DEG	LBS.			FEET
		SEE NOTE 6! ON OUTRIGGERS EQUIPPED WITH A JIB								
	60	78.7	27,000							60
	70	76.6	25,000							70
	80	74.4	23,100	77.9	19,300					80
	90	72.2	18,800	75.7	18,300	79.2	14,200			90
	100	70.0	15,000	73.4	15,000	76.8	13,900			100
200	110	67.7	12,000	71.1	12,000	74.5	12,000			110
	120	65.4	9,500	68.8	9,500	72.1	9,500			120
	130	63.0	7,500	66.4	7,500	69.6	7,500			130
	140	60.6	5,800	64.0	5,800	67.1	5,800			140
	150	58.2	4,300	61.5	4,300	64.6	4,300			150
	160	55.6	3,000	58.9	3,000	61.9	3,000			160

WARNING: DEDUCT 50% OF THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

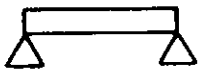
READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800214 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

SERIAL NUMBER

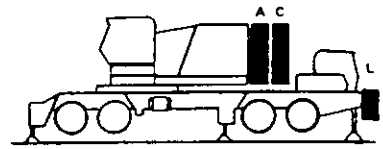
HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

80 FT. BOOM + 80 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
30	74.0	166.6	59,000	59,000									30
35	70.3	165.0	59,000	59,000	72.4	165.8	59,000	59,000					35
40	66.4	163.0	59,000	59,000	68.6	164.0	59,000	59,000					40
45	62.5	160.6	59,000	59,000	64.7	161.8	59,000	59,000					45
50	58.3	157.8	59,000	59,000	60.7	159.3	59,000	59,000	66.4	161.9	59,000	59,000	50
60	49.5	150.5	49,800	49,800	52.1	152.6	57,700	51,100	58.3	156.6	55,600	48,900	60
70	39.2	140.3	40,400	40,400	42.3	143.4	47,000	41,700	49.4	149.3	45,600	39,900	70
80	25.8	124.6	30,600	30,600	30.2	129.7	38,900	35,000	39.1	139.1	38,400	33,500	80
90									25.8	123.3	33,100	28,900	90

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
60	64.0	158.9	53,500	46,800									60
70	55.7	153.1	43,900	38,200									70
80	46.5	145.0	37,000	32,000	52.9	148.7	35,500	30,500					80
90	35.6	133.6	31,800	27,600	43.3	139.7	30,500	26,300	49.8	143.2	29,500	25,100	90
100	20.2	114.7	28,000	24,000	31.5	126.6	26,800	22,900	39.6	133.1	25,700	21,800	100
110					12.0	101.5	23,700	20,200	26.4	117.7	22,700	19,200	110

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800143 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

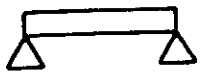
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

SERIAL NUMBER

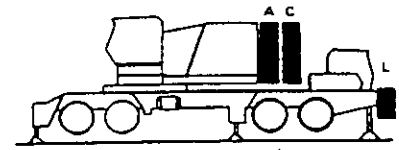
HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

100 FT. BOOM + 80 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
30	74.8	186.9	59,000	59,000									30
35	71.1	185.3	59,000	59,000	73.7	186.2	59,000	59,000					35
40	67.2	183.4	59,000	59,000	70.0	184.6	59,000	59,000					40
45	63.3	181.1	59,000	59,000	66.1	182.6	59,000	59,000					45
50	59.2	178.4	59,000	59,000	62.1	180.1	59,000	59,000	69.1	183.0	59,000	59,000	50
60	50.4	171.3	48,400	48,400	53.7	173.9	57,500	50,900	61.2	178.3	54,800	48,100	60
70	40.4	161.5	37,800	37,800	44.1	165.1	47,100	41,500	52.6	171.8	44,900	39,200	70
80	27.5	146.6	28,900	28,900	32.6	152.5	39,800	34,900	42.9	162.7	37,800	32,900	80
90					14.6	129.6	30,600	29,900	31.0	149.5	32,500	28,400	90
100									10.8	123.3	28,600	24,700	100

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
70	60.1	175.7	42,600	36,900									70
80	51.4	168.9	35,900	30,900	58.8	172.1	34,000	29,300					80
90	41.5	159.4	30,800	26,700	50.0	165.0	29,400	25,100					90
100	29.1	145.3	27,100	23,200	39.9	154.9	25,700	21,800	48.3	160.0	24,300	20,300	100
110					26.8	139.7	22,700	19,100	37.8	149.3	21,400	17,900	110
120									23.8	132.6	19,100	15,800	120

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800143 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

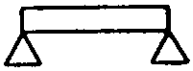
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

SERIAL NUMBER

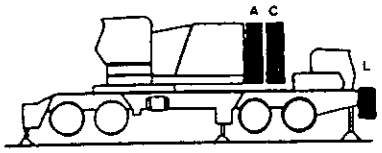
HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

120 FT. BOOM + 80 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
35	71.9	205.7	59,000	59,000									35
40	68.0	203.8	59,000	59,000	71.3	205.1	59,000	59,000					40
45	64.1	201.6	59,000	59,000	67.5	203.2	59,000	59,000					45
50	60.1	199.0	55,000	55,000	63.5	201.0	59,000	59,000					50
60	51.4	192.2	42,300	42,300	55.2	195.0	57,100	50,600	64.0	199.8	53,700	47,100	60
70	41.5	182.7	33,000	33,000	45.9	186.8	46,800	41,200	55.7	194.0	44,000	38,300	70
80	29.1	168.5	25,200	25,200	34.8	175.1	39,500	34,600	46.5	186.0	37,000	32,100	80
90					19.0	155.3	32,400	29,700	35.5	174.4	31,800	27,800	90
100									20.1	155.5	28,000	24,200	100

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
70	64.3	197.7	41,100	35,500									70
80	56.0	192.0	34,600	29,700									80
90	46.8	184.0	29,700	25,700	56.1	188.9	27,900	23,600					90
100	36.0	172.7	26,200	22,300	47.0	181.0	24,400	20,400					100
110	20.9	154.2	23,100	19,600	36.2	169.7	21,500	17,900	46.8	176.7	19,900	16,300	110
120					21.2	151.4	19,100	15,900	36.0	165.4	17,700	14,400	120
130									20.9	146.9	15,800	12,900	130

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800143 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

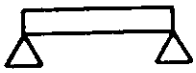
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

SERIAL NUMBER

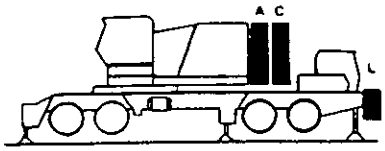
HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

140 FT. BOOM + 80 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
40	68.9	224.2	59,000	59,000	72.6	225.6	59,000	59,000					40
45	65.0	222.1	57,600	57,600	68.8	223.9	59,000	59,000					45
50	60.9	219.5	50,300	50,300	64.9	221.7	59,000	59,000					50
60	52.4	213.0	38,600	38,600	56.7	216.1	56,700	50,200	66.7	221.0	52,500	45,900	60
70	42.6	203.8	30,000	30,000	47.6	208.4	46,500	40,900	58.6	216.0	43,000	37,400	70
80	30.6	190.3	22,800	22,800	37.0	197.4	39,200	34,300	49.8	208.8	36,200	31,300	80
90					22.5	179.9	33,700	29,400	39.6	198.7	31,100	27,100	90
100									26.4	183.3	27,400	23,500	100

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
80	60.4	214.5	33,200	28,700									80
90	51.7	207.8	28,800	24,500									90
100	41.9	198.4	25,100	21,300	53.4	205.5	22,900	19,000					100
110	29.6	184.5	22,200	18,700	43.8	196.6	20,200	16,600	54.7	201.8	18,200	14,700	110
120					32.2	183.8	17,900	14,700	45.3	193.4	16,200	12,900	120
130					13.7	160.2	16,100	13,100	34.1	181.3	14,500	11,500	130
140									17.5	160.6	13,000	10,200	140

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

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WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

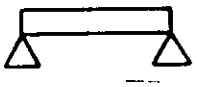
SERIAL NUMBER

Kodak ds digital science™
DEMO

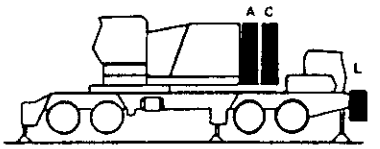
150T
FICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

160 FT. BOOM + 80 ft. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
35	73.4	246.3	59,000	59,000									35
40	69.7	244.6	55,600	55,600	73.9	246.1	59,000	59,000					40
45	65.8	242.6	49,900	49,900	70.1	244.4	59,000	59,000					45
50	61.8	240.1	45,100	45,100	66.3	242.4	59,000	59,000					50
60	53.3	233.7	36,100	36,100	58.2	237.2	52,700	49,700	69.4	242.2	50,900	44,600	60
70	43.7	224.9	28,700	28,700	49.3	229.8	43,000	40,500	61.5	237.7	41,900	36,300	70
80	32.0	212.0	21,300	21,300	39.0	219.5	35,800	34,000	53.5	231.2	35,200	30,400	80
90					25.6	203.7	30,200	29,400	43.4	222.3	30,200	26,300	90
100									31.6	209.2	26,700	22,800	100
110									12.3	184.4	23,600	20,100	110

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
80	64.6	236.5	31,700	27,100									80
90	56.3	230.9	27,500	23,200									90
100	47.2	223.0	24,000	20,100	59.3	228.8	21,300	17,400					100
110	36.4	211.8	21,100	17,600	50.5	221.8	18,700	15,200					110
120	21.6	193.8	18,800	15,600	40.4	211.9	16,600	13,400	53.3	218.8	14,500	11,300	120
130					27.6	197.1	14,900	11,900	43.7	209.9	12,900	9,900	130
140									32.0	197.1	11,600	8,800	140
150									13.4	173.2	10,400	7,900	150

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

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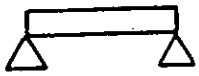
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

SERIAL NUMBER

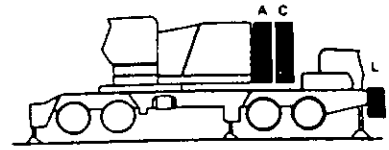
HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

170 FT. BOOM + 80 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
40	70.1	254.8	51,300	51,300	74.6	256.3	59,000	59,000					40
45	66.2	252.8	46,200	46,200	70.8	254.7	59,000	59,000					45
50	62.2	250.4	41,800	41,800	67.0	252.8	59,000	59,000					50
60	53.8	244.1	35,000	35,000	58.9	247.7	48,800	48,800					60
70	44.3	235.4	27,900	27,900	50.1	240.5	40,100	40,100	62.9	248.4	41,300	35,700	70
80	32.7	222.8	20,600	20,600	40.0	230.6	33,500	33,500	54.5	242.4	34,700	29,800	80
90					27.0	215.4	28,000	28,000	45.1	233.9	29,800	25,800	90
100									33.9	221.8	26,300	22,400	100
110									17.2	200.8	23,200	19,700	110

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
90	58.5	242.2	26,800	22,500									90
100	49.7	234.9	23,300	19,500									100
110	39.4	224.8	20,600	17,000	53.6	233.8	17,900	14,400					110
120	26.2	209.3	18,300	15,100	44.1	225.1	15,900	12,700					120
130					32.5	212.4	14,200	11,300	47.9	223.1	12,100	9,100	130
140					14.5	189.4	12,800	10,000	37.3	212.2	10,800	8,100	140
150									23.1	195.0	9,700	7,200	150

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

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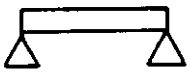
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

SERIAL NUMBER

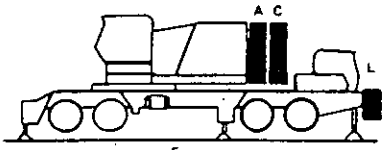
HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

80 FT. BOOM + 100 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
35	74.3	186.0	59,000	59,000									35
40	71.3	184.4	59,000	59,000	73.1	185.2	59,000	59,000					40
45	68.3	182.6	59,000	59,000	70.0	183.5	59,000	59,000					45
50	65.2	180.5	59,000	59,000	67.0	181.5	59,000	59,000					50
60	58.7	175.1	49,700	49,700	60.6	176.6	57,300	50,700	65.1	179.3	55,200	48,500	60
70	51.7	168.2	41,200	41,200	53.7	170.1	46,900	41,300	58.6	174.0	45,100	39,500	70
80	43.9	159.1	34,900	34,900	46.3	161.7	39,200	34,700	51.6	167.0	38,000	33,100	80
90	34.9	146.9	29,500	29,500	37.7	150.6	33,500	29,700	43.9	157.9	32,700	28,600	90
100	23.1	128.9	22,900	22,900	26.9	134.8	28,800	26,100	34.9	145.7	28,700	24,800	100
110									23.0	127.6	25,400	21,900	110

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
70	63.2	176.3	43,300	37,700									70
80	56.6	170.5	36,500	31,500									80
90	49.4	163.0	31,300	27,200	54.4	166.2	30,000	25,900					90
100	41.3	153.1	27,600	23,600	47.0	158.0	26,400	22,500	51.9	160.9	25,200	21,300	100
110	31.7	139.6	24,300	20,800	38.5	147.1	23,300	19,700	44.2	151.9	22,300	18,700	110
120	18.1	118.0	21,700	18,500	28.1	131.9	20,800	17,500	35.3	139.9	19,800	16,600	120
130					10.7	103.5	18,600	15,700	23.6	122.2	17,800	14,800	130

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

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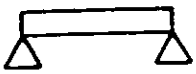
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

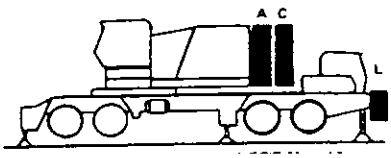
SERIAL NUMBER

HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

100 FT. BOOM + 100 FT. JIB





CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS

COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
35	75.0	206.2	59,000	59,000									35
40	72.0	204.8	59,000	59,000	74.1	205.6	59,000	59,000					40
45	68.9	203.0	59,000	59,000	71.1	204.0	59,000	59,000					45
50	65.8	200.9	59,000	59,000	68.0	202.2	59,000	59,000					50
60	59.4	195.7	49,600	49,600	61.7	197.5	57,100	50,500	67.3	200.5	54,300	47,600	60
70	52.4	188.9	40,600	40,600	55.0	191.3	46,700	41,100	60.9	195.7	44,000	38,700	70
80	44.8	180.1	33,100	33,100	47.6	183.3	39,400	34,500	54.1	189.3	37,300	32,400	80
90	35.9	168.4	27,500	27,500	39.3	172.7	33,800	29,500	46.7	181.0	32,100	28,000	90
100	24.6	151.2	21,500	21,500	29.1	158.0	29,500	25,900	38.2	170.1	28,300	24,400	100
110					13.1	132.1	23,300	22,800	27.7	154.7	25,000	21,400	110

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
80	60.1	193.0	35,400	30,400									80
90	53.2	186.4	30,300	26,300	59.1	189.4	28,900	24,600					90
100	45.7	177.9	26,700	22,800	52.1	182.6	25,200	21,300					100
110	37.0	166.5	23,600	20,100	44.4	173.7	22,200	18,700	50.8	177.8	20,900	17,400	110
120	26.0	150.1	21,000	17,800	35.5	161.7	19,800	16,600	43.0	168.4	18,600	15,300	120
130					23.9	144.2	17,800	14,800	33.7	155.8	16,700	13,700	130
140									21.3	136.5	15,000	12,300	140

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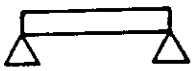
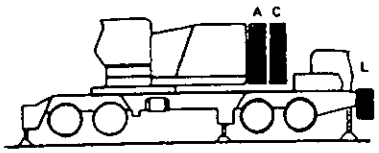
SERIAL NUMBER

HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°

120 FT. BOOM + 100 FT. JIB





CAPACITY IN POUNDS

WITH A C + L COUNTERWEIGHTS

COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
40	72.6	225.1	59,000	59,000									40
45	69.6	223.4	59,000	59,000	72.1	224.5	59,000	59,000					45
50	66.5	221.3	56,400	56,400	69.1	222.8	59,000	59,000					50
60	60.1	216.3	44,100	44,100	62.8	218.3	56,700	50,100	69.4	221.6	53,200	46,500	60
70	53.2	209.7	35,400	35,400	56.2	212.4	46,400	40,800	63.2	217.2	43,500	37,800	70
80	45.6	201.2	29,500	29,500	49.0	204.8	39,100	34,200	56.6	211.4	36,600	31,700	80
90	37.0	189.8	23,900	23,900	40.8	194.7	33,600	29,600	49.4	203.9	31,400	27,400	90
100	26.0	173.4	18,500	18,500	31.1	180.9	29,600	25,800	41.3	194.0	27,700	23,800	100
110					16.9	158.5	24,500	22,700	31.7	180.5	24,400	20,900	110
120									18.0	158.9	21,800	18,600	120

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
80	63.4	215.1	34,100	29,500									80
90	56.8	209.4	29,500	25,200									90
100	49.7	201.9	25,700	21,800	56.9	206.3	23,800	19,900					100
110	41.7	192.1	22,700	19,200	49.8	198.8	21,000	17,400					110
120	32.1	178.8	20,200	17,000	41.8	189.1	18,700	15,400	49.7	194.6	17,100	13,900	120
130	18.7	157.7	18,100	15,200	32.3	175.8	16,700	13,700	41.6	184.8	15,300	12,400	130
140					19.0	155.0	15,100	12,300	32.1	171.5	13,800	11,000	140
150									18.7	150.4	12,500	9,900	150

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800143 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

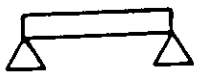
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

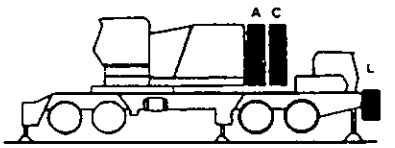
SERIAL NUMBER

HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

100 FT. BOOM + 160 FT. JIB





CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS

COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
60	71.4	261.3	32,500	32,500	72.8	262.2	36,000	36,000					60
70	67.6	257.6	27,400	27,500	69.0	258.8	32,100	32,100					70
80	63.7	253.1	24,700	24,600	65.1	254.5	27,100	27,100	68.5	257.2	31,700	30,800	80
90	59.6	247.7	22,100	22,100	61.1	249.5	24,300	24,300	64.6	252.8	26,800	26,500	90
100	55.4	241.3	19,900	19,900	56.9	243.4	21,800	21,800	60.6	247.6	24,000	22,900	100
110	50.9	233.8	17,900	17,900	52.5	236.4	19,600	19,600	56.4	241.5	21,600	20,000	110
120	46.1	225.0	16,100	16,100	47.8	228.0	17,700	17,700	52.0	234.3	19,400	17,600	120
130	40.9	214.4	14,600	14,600	42.8	218.1	16,000	16,000	47.3	225.8	17,500	15,700	130
140	35.1	201.6	13,200	13,200	37.2	206.2	14,400	14,400	42.2	215.7	15,800	14,000	140
150	28.2	185.4	12,100	12,100	30.8	191.4	13,100	13,100	36.5	203.5	14,300	12,600	150
160	19.4	162.7	9,600	9,600	22.9	171.7	12,000	12,000	30.0	188.2	13,000	11,400	160
170					10.3	138.1	10,900	10,900	21.8	167.6	11,800	10,300	170

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
100	64.1	250.3	25,100	21,200									100
110	60.0	245.0	22,000	18,500									110
120	55.8	238.7	19,500	16,200	59.4	241.4	18,100	14,900					120
130	51.4	231.3	17,300	14,400	55.2	235.0	16,100	13,100					130
140	46.6	222.6	15,600	12,800	50.7	227.4	14,400	11,700	54.4	230.3	13,300	10,600	140
150	41.5	212.3	14,000	11,500	45.9	218.5	13,000	10,400	49.8	222.5	11,900	9,400	150
160	35.7	199.8	12,700	10,300	40.6	207.9	11,700	9,300	45.0	213.3	10,800	8,400	160
170	29.0	184.0	11,600	9,300	34.8	194.9	10,600	8,400	39.7	202.4	9,700	7,500	170
180	20.5	162.3	10,600	8,400	27.9	178.5	9,700	7,600	33.7	188.9	8,800	6,700	180
190					18.9	155.4	8,800	6,800	26.5	171.7	8,000	6,000	190
200									16.8	146.5	7,300	5,400	200

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800143 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

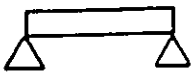
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

SERIAL NUMBER

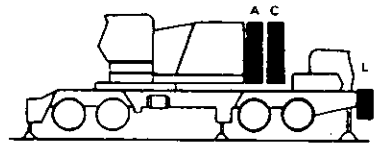
HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES – ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

120 FT. BOOM + 160 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
60	71.8	281.7	32,400	32,400	73.4	282.7	36,500	36,500					60
70	68.0	278.0	27,400	27,400	69.6	279.4	32,600	32,600					70
80	64.1	273.6	24,600	24,600	65.8	275.3	27,500	27,500	69.9	278.2	32,800	30,000	80
90	60.0	268.3	22,000	22,000	61.8	270.3	24,700	24,700	66.0	274.1	27,700	25,800	90
100	55.8	262.0	19,800	19,800	57.6	264.5	22,200	22,200	62.0	269.2	24,900	22,300	100
110	51.4	254.6	17,800	17,800	53.3	257.6	19,900	19,900	57.9	263.4	22,300	19,400	110
120	46.6	245.9	16,100	16,100	48.7	249.5	17,900	17,900	53.5	256.6	20,000	17,100	120
130	41.5	235.6	14,000	14,000	43.7	239.9	16,200	16,200	48.9	248.6	18,000	15,200	130
140	35.7	223.0	11,900	11,900	38.2	228.4	14,600	14,600	44.0	239.1	16,300	13,500	140
150	29.0	207.3	10,000	10,000	32.0	214.2	13,300	13,300	38.6	227.7	14,700	12,200	150
160	20.5	185.6	7,800	7,800	24.4	195.6	12,100	12,100	32.4	213.7	13,300	11,000	160
170					13.4	166.4	11,100	11,100	24.9	195.4	12,100	9,900	170
180									14.2	167.2	11,100	9,000	180

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
110	62.2	267.1	21,000	17,500									110
120	58.0	261.4	18,600	15,400									120
130	53.7	254.6	16,500	13,600	58.1	258.3	15,000	12,000					130
140	49.1	246.6	14,800	12,100	53.8	251.5	13,400	10,600					140
150	44.2	237.2	13,300	10,800	49.2	243.6	12,000	9,500	53.7	247.3	10,700	8,200	150
160	38.8	225.9	12,100	9,700	44.3	234.1	10,800	8,400	49.1	239.3	9,600	7,200	160
170	32.7	212.0	10,900	8,700	38.9	222.9	9,800	7,500	44.2	229.9	8,600	6,400	170
180	25.2	193.9	10,000	7,900	32.8	209.0	8,900	6,700	38.8	218.6	7,800	5,700	180
190	14.8	166.4	9,100	7,100	25.4	191.0	8,100	6,100	32.6	204.7	7,000	5,000	190
200					15.0	163.8	7,300	5,400	25.2	186.6	6,400	4,500	200
210									14.7	159.1	5,800	4,000	210

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800143 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

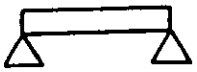
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

SERIAL NUMBER

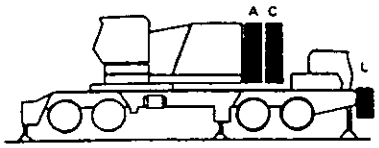
HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

140 FT. BOOM + 100 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
40	73.2	245.4	59,000	59,000									40
45	70.2	243.7	56,100	56,100	73.2	245.0	59,000	59,000					45
50	67.1	241.8	50,800	50,800	70.2	243.3	59,000	59,000					50
60	60.8	236.9	40,200	40,200	63.9	239.1	56,100	49,700					60
70	53.9	230.5	32,200	32,200	57.4	233.5	46,100	40,500	65.4	238.6	42,500	36,800	70
80	46.5	222.1	26,800	26,800	50.3	226.2	38,800	33,900	58.9	233.3	35,700	30,800	80
90	37.9	211.1	21,600	21,600	42.3	216.6	33,300	29,400	52.0	226.4	30,600	26,600	90
100	27.3	195.5	16,600	16,600	32.9	203.7	29,400	25,500	44.2	217.4	27,000	23,100	100
110					20.1	183.6	25,500	22,500	35.3	205.4	23,800	20,300	110
120									23.6	187.7	21,200	18,000	120

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
90	60.3	231.8	28,300	24,000									90
100	53.5	225.3	24,600	20,800									100
110	45.9	216.8	21,700	18,200	54.7	222.9	19,600	16,100					110
120	37.3	205.6	19,300	16,100	47.4	214.8	17,400	14,200					120
130	26.4	189.5	17,300	14,400	39.0	204.2	15,600	12,600	48.5	211.4	13,900	10,900	130
140					28.7	189.3	14,000	11,300	40.3	201.2	12,500	9,700	140
150					12.2	162.5	12,700	10,100	30.4	187.1	11,300	8,700	150
160									15.7	163.5	10,200	7,800	160

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800143 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

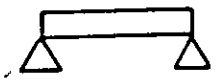
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

SERIAL NUMBER

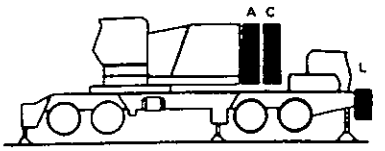
HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

160 FT. BOOM + 100 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
40	73.9	265.6	53,400	53,400									40
45	70.8	264.1	48,200	48,200	74.2	265.4	59,000	59,000					45
50	67.8	262.2	43,700	43,700	71.2	263.9	59,000	59,000					50
60	61.4	257.4	36,600	36,600	65.1	259.9	52,100	49,300					60
70	54.7	251.2	30,000	30,000	58.6	254.5	42,900	40,100	67.6	259.8	41,300	35,700	70
80	47.3	243.1	25,000	25,000	51.6	247.5	35,800	33,600	61.2	255.0	34,700	29,800	80
90	38.9	232.4	20,100	20,100	43.8	238.4	30,300	29,100	54.4	248.7	29,700	25,800	90
100	28.6	217.4	15,400	15,400	34.7	226.2	25,800	25,300	47.0	240.5	26,300	22,400	100
110					22.8	208.0	22,300	22,300	38.6	229.7	23,200	19,700	110
120									28.2	214.5	20,600	17,400	120
130									11.0	186.4	18,500	15,600	130

RAD. in FT.	BOOM ANGLE 75DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
90	63.7	253.9	27,000	22,600									90
100	57.1	248.2	23,400	19,600									100
110	49.9	240.8	20,600	17,100	59.4	246.1	18,100	14,600					110
120	42.0	231.2	18,300	15,100	52.5	239.4	16,100	12,900					120
130	32.5	218.0	16,400	13,500	44.9	230.6	14,300	11,400	54.7	236.2	12,300	9,400	130
140	19.3	197.4	14,800	12,100	36.0	218.8	12,900	10,100	47.3	228.1	11,000	8,300	140
150					24.7	201.8	11,600	9,100	38.9	217.4	9,900	7,300	150
160									28.6	202.4	8,900	6,500	160
170									12.0	175.4	8,100	5,800	170

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

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WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

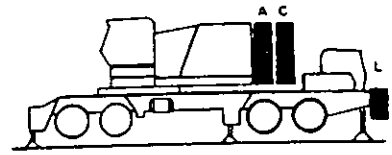
SERIAL NUMBER

HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

170 FT. BOOM + 100 FT. JIB

CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
40	74.2	275.8	49,200	49,200									40
45	71.2	274.2	44,400	44,400	74.8	275.6	59,000	59,000					45
50	68.1	272.4	40,300	40,300	71.8	274.1	59,000	59,000					50
60	61.8	267.7	33,800	33,800	65.6	270.2	48,000	48,000					60
70	55.0	261.5	28,400	28,500	59.1	265.0	39,600	39,600	68.6	270.3	40,700	35,100	70
80	47.7	253.6	24,200	24,200	52.2	258.2	33,200	33,200	62.3	265.8	34,200	29,300	80
90	39.4	243.0	19,500	19,500	44.5	249.3	27,800	27,800	55.7	259.8	29,300	25,400	90
100	29.2	228.4	14,900	14,900	35.6	237.4	23,900	23,900	48.4	252.0	25,800	22,000	100
110					24.1	220.0	20,600	20,600	40.2	241.7	22,800	19,300	110
120									30.2	227.5	20,300	17,100	120
130									15.4	203.7	18,200	15,300	130

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
100	58.8	259.5	22,800	18,900									100
110	51.8	252.6	20,000	16,500									110
120	44.1	243.6	17,800	14,600	54.9	251.3	15,400	12,100					120
130	35.1	231.5	15,900	13,000	47.6	243.3	13,700	10,700					130
140	23.4	213.7	14,300	11,600	39.2	232.7	12,300	9,500	50.5	240.9	10,300	7,500	140
150					29.0	217.9	11,100	8,500	42.6	231.4	9,200	6,600	150
160					12.9	191.8	10,000	7,600	33.3	218.6	8,300	5,900	160
170									20.6	198.9	7,500	5,200	170

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800143 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

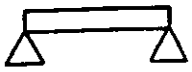
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

HL150T
IDENTIFICATION

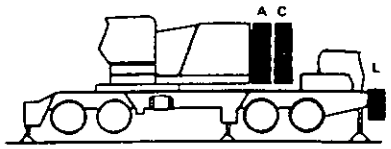
SERIAL NUMBER

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

80 FT. BOOM + 120 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
40	74.5	205.4	59,000	59,000									40
45	72.0	203.9	59,000	59,000	73.5	204.5	59,000	59,000					45
50	69.5	202.1	55,800	55,800	71.0	202.9	59,000	59,000					50
60	64.3	197.8	49,300	49,300	65.8	199.0	54,200	50,200	69.5	201.0	54,600	48,000	60
70	58.9	192.4	40,800	40,800	60.5	193.9	46,500	40,800	64.3	196.7	44,600	38,900	70
80	53.1	185.7	34,500	34,500	54.8	187.6	38,800	34,200	58.9	191.3	37,500	32,600	80
90	46.9	177.3	30,000	30,000	48.7	179.7	33,000	29,500	53.1	184.5	32,100	28,100	90
100	39.9	166.7	26,600	26,600	42.0	169.8	29,400	25,600	46.9	176.1	28,300	24,400	100
110	31.8	152.9	22,100	22,100	34.3	157.1	25,700	22,500	39.9	165.5	24,900	21,400	110
120	21.0	132.8	17,600	17,600	24.6	139.4	21,800	20,000	31.7	151.7	22,200	19,000	120
130									21.0	131.5	20,000	17,000	130

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
80	62.7	193.6	35,900	30,900									80
90	57.2	187.8	30,700	26,700									90
100	51.3	180.6	27,000	23,100	55.3	183.6	25,800	21,900					100
110	44.9	171.7	23,800	20,300	49.3	175.8	22,700	19,200	53.3	178.4	21,700	18,100	110
120	37.6	160.2	21,200	18,000	42.7	166.2	20,200	17,000	47.1	170.1	19,200	16,000	120
130	28.9	145.0	19,000	16,100	35.0	153.8	18,100	15,100	40.2	159.6	17,200	14,300	130
140	16.5	121.1	17,200	14,400	25.6	136.7	16,300	13,600	32.1	145.9	15,500	12,800	140
150									21.5	126.1	14,100	11,500	150

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800143 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

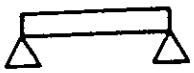
WARNING: DEDUCT "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

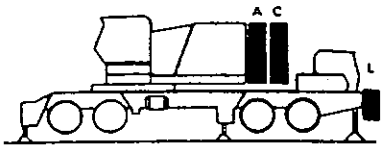
SERIAL NUMBER

HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

100 FT. BOOM + 120 FT. JIB





CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS

COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
45	72.6	224.2	58,900	58,900	74.3	225.0	59,000	59,000					45
50	70.0	222.5	55,700	55,700	71.8	223.4	59,000	59,000					50
60	64.9	218.3	49,200	49,200	66.7	219.7	55,000	50,000					60
70	59.5	213.0	40,600	40,600	61.4	214.8	46,200	40,600	66.1	218.0	43,800	38,200	70
80	53.8	206.4	34,400	34,400	55.8	208.7	38,900	34,000	60.8	213.0	36,800	31,900	80
90	47.6	198.3	29,500	29,500	49.8	201.1	33,300	29,300	55.1	206.7	31,500	27,500	90
100	40.7	188.0	24,700	24,700	43.3	191.6	29,400	25,500	49.1	199.0	27,700	23,900	100
110	32.7	174.5	20,500	20,500	35.7	179.5	25,900	22,400	42.4	189.2	24,500	21,000	110
120	22.4	155.4	16,300	16,300	26.5	162.9	22,500	19,900	34.8	176.7	21,800	18,600	120
130					11.9	134.3	17,900	17,800	25.2	159.4	19,600	16,600	130

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
90	60.1	210.3	29,700	25,700									90
100	54.4	203.9	26,200	22,300	59.2	206.8	24,600	20,700					100
110	48.3	195.9	23,000	19,500	53.5	200.1	21,600	18,100					110
120	41.5	185.8	20,500	17,300	47.3	191.8	19,200	16,000	52.4	195.4	18,000	14,700	120
130	33.7	172.8	18,400	15,400	40.4	181.4	17,200	14,200	46.1	186.7	16,100	13,100	130
140	23.7	154.5	16,600	13,800	32.3	167.8	15,500	12,700	39.1	175.9	14,400	11,700	140
150					21.8	148.3	14,000	11,500	30.7	161.5	13,100	10,500	150
160									19.4	140.1	11,900	9,500	160

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

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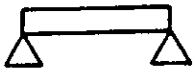
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

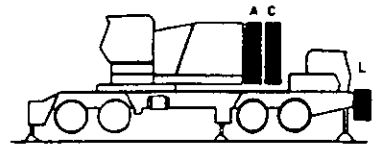
SERIAL NUMBER

HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

120 FT. BOOM + 120 FT. JIB





CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS

COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
45	73.1	244.5	58,800	58,800									45
50	70.6	242.8	54,100	54,100	72.7	243.9	59,000	59,000					50
60	65.4	238.8	44,500	44,500	67.6	240.3	56,000	49,600					60
70	60.1	233.6	36,100	36,100	62.4	235.7	45,900	40,300	67.9	239.2	42,900	37,200	70
80	54.4	227.2	30,000	29,900	56.8	229.8	38,600	33,700	62.7	234.6	36,000	31,100	80
90	48.2	219.2	25,500	25,500	50.9	222.5	33,100	29,100	57.1	228.8	30,800	26,800	90
100	41.5	209.1	21,300	21,300	44.5	213.4	29,200	25,300	51.3	221.5	27,100	23,300	100
110	33.6	196.1	17,600	17,600	37.1	201.8	25,700	22,200	44.8	212.6	23,900	20,400	110
120	23.7	177.8	13,800	13,800	28.3	186.2	22,900	19,700	37.6	201.1	21,300	18,100	120
130					15.5	161.3	18,800	17,700	28.8	185.9	19,100	16,100	130
140									16.4	161.9	17,200	14,500	140

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
90	62.9	232.5	28,900	24,600									90
100	57.4	226.7	25,100	21,200									100
110	51.5	219.6	22,100	18,600	57.4	223.6	20,400	16,800					110
120	45.1	210.6	19,600	16,400	51.6	216.5	18,000	14,800					120
130	37.9	199.3	17,600	14,600	45.2	207.6	16,100	13,200	51.5	212.3	14,700	11,700	130
140	29.2	184.3	15,800	13,100	38.0	196.3	14,500	11,800	45.1	203.4	13,200	10,400	140
150	17.1	160.9	14,400	11,800	29.4	181.3	13,100	10,500	37.9	192.0	11,900	9,300	150
160					17.3	158.2	11,900	9,500	29.2	177.0	10,800	8,400	160
170									17.0	153.5	9,800	7,500	170

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800143 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.

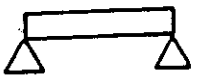
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

SERIAL NUMBER

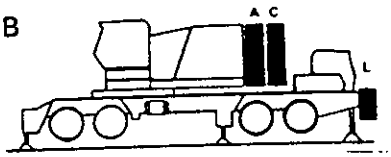
HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46 A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

140 FT. BOOM + 120 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
45	73.6	264.7	52,000	52,000									45
50	71.1	263.2	47,600	47,600	73.6	264.4	59,000	59,000					50
60	66.0	259.2	40,200	40,200	68.5	260.9	55,400	49,200					60
70	60.6	254.2	32,800	32,800	63.3	256.5	45,500	40,000	69.7	260.2	41,800	36,200	70
80	55.0	247.9	27,800	27,800	57.8	250.8	38,200	33,400	64.5	256.0	35,100	30,200	80
90	48.9	240.1	23,100	23,100	52.0	243.8	32,800	28,900	59.1	250.6	30,000	26,100	90
100	42.2	230.3	19,200	19,200	45.6	235.1	28,900	25,100	53.3	243.9	26,500	22,600	100
110	34.5	217.6	15,800	15,800	38.5	224.0	25,300	22,000	47.1	235.6	23,300	19,800	110
120	24.9	200.1	12,300	12,300	30.0	209.3	22,100	19,600	40.2	225.1	20,700	17,500	120
130					18.3	187.0	19,300	17,500	32.1	211.5	18,600	15,600	130
140									21.5	191.7	16,700	14,000	140

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
100	60.3	249.2	24,000	20,100									100
110	54.6	242.8	21,100	17,600									110
120	48.5	234.8	18,700	15,500	55.6	240.3	16,800	13,600					120
130	41.7	224.9	16,700	13,800	49.6	232.7	15,000	12,000					130
140	34.0	212.0	15,100	12,300	43.0	223.1	13,400	10,700	50.5	229.1	11,800	9,100	140
150	24.1	194.0	13,600	11,100	35.5	210.9	12,100	9,600	44.0	219.9	10,600	8,100	150
160					26.1	194.1	11,000	8,600	36.6	208.1	9,600	7,200	160
170					11.2	164.5	10,000	7,700	27.7	192.2	8,700	6,400	170
180									14.3	166.2	7,900	5,700	180

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

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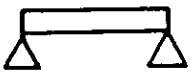
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

SERIAL NUMBER

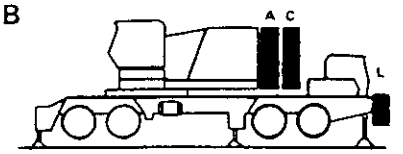
HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

160 FT. BOOM + 120 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
45	74.1	285.0	45,000	45,000									45
50	71.6	283.5	41,000	41,000	74.4	284.8	58,900	58,900					50
60	66.5	279.7	34,500	34,500	69.4	281.5	49,700	48,700					60
70	61.2	274.7	29,200	29,200	64.2	277.3	41,300	39,600					70
80	55.6	268.6	25,200	25,200	58.8	271.8	34,700	33,000	66.3	277.3	34,100	29,200	80
90	49.6	260.9	21,400	21,400	53.0	265.1	29,200	28,600	61.0	272.3	29,100	25,200	90
100	43.0	251.4	17,800	17,800	46.8	256.6	25,000	24,800	55.4	266.1	25,700	21,800	100
110	35.4	239.1	14,500	14,500	39.8	246.0	21,600	21,600	49.4	258.4	22,600	19,100	110
120	26.0	222.3	11,300	11,300	31.6	232.1	18,800	18,800	42.7	248.8	20,100	16,900	120
130					20.8	211.8	16,400	16,400	35.1	236.4	18,000	15,100	130
140									25.7	219.3	16,200	13,500	140
150									10.0	188.3	14,700	12,200	150

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
100	63.1	271.3	22,800	18,900									100
110	57.6	265.6	20,000	16,500									110
120	51.7	258.5	17,700	14,500	59.5	263.5	15,400	12,200					120
130	45.3	249.6	15,800	12,900	53.8	256.9	13,700	10,700					130
140	38.2	238.4	14,200	11,500	47.6	248.7	12,200	9,500					140
150	29.6	223.5	12,800	10,300	40.8	238.4	11,000	8,500	49.6	246.0	9,200	6,700	150
160	17.6	200.6	11,600	9,300	32.8	225.0	9,900	7,500	43.0	236.4	8,300	5,900	160
170					22.5	205.9	9,000	6,800	35.4	224.1	7,400	5,200	170
180									26.0	207.3	6,700	4,600	180
190									10.9	177.4	6,000	4,100	190

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

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WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

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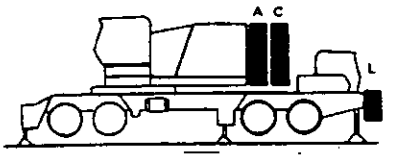
DEMO

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

170 FT. BOOM + 120 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS

COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
45	74.4	295.2	41,400	41,400									45
50	71.9	293.6	37,800	37,800	74.9	295.0	55,600	55,600					50
60	66.8	289.9	31,700	31,700	69.9	291.8	45,700	45,700					60
70	61.5	285.0	26,700	26,700	64.7	287.6	38,000	38,000					70
80	55.9	278.9	23,000	23,000	59.3	282.3	31,900	31,900	67.2	287.9	33,500	29,100	80
90	49.9	271.4	20,000	20,000	53.5	275.7	26,800	26,800	62.0	283.1	29,100	24,800	90
100	43.3	261.9	17,200	17,200	47.4	267.4	23,000	23,000	56.4	277.1	25,300	21,400	100
110	35.8	249.8	14,000	14,000	40.5	257.0	19,800	19,800	50.4	269.7	22,200	18,700	110
120	26.6	233.3	10,900	10,900	32.4	243.5	17,200	17,200	43.9	260.5	19,700	16,600	120
130					22.0	224.0	15,000	15,000	36.5	248.6	17,700	14,700	130
140									27.5	232.6	15,900	13,200	140
150									14.0	206.3	14,000	11,900	150

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
100	64.4	282.2	22,100	18,300									100
110	59.0	276.8	19,400	15,900									110
120	53.3	270.1	17,200	14,000									120
130	47.0	261.8	15,300	12,400	55.8	268.7	13,000	10,100					130
140	40.1	251.3	13,700	11,000	49.8	261.1	11,600	8,900					140
150	32.0	237.5	12,400	9,900	43.2	251.6	10,400	7,900	52.2	258.5	8,500	6,000	150
160	21.3	217.6	11,200	8,900	35.7	239.4	9,400	7,000	45.8	249.8	7,600	5,200	160
170					26.4	222.8	8,500	6,200	38.7	238.8	6,800	4,600	170
180					11.8	194.0	7,700	5,600	30.3	224.3	6,100	4,000	180
190									18.8	202.4	5,500	3,500	190

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

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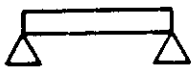
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

SERIAL NUMBER

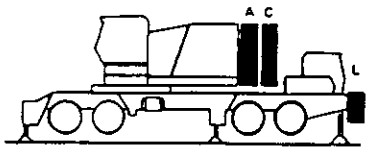
HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

80 FT. BOOM + 140 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
45	74.7	224.7	48,000	48,000									45
50	72.5	223.3	45,400	45,400	73.8	223.9	49,200	49,200					50
60	68.2	219.7	40,800	40,800	69.4	220.6	44,000	44,000					60
70	63.7	215.2	36,800	36,800	65.0	216.4	39,600	39,600	68.2	218.5	42,600	38,500	70
80	59.1	209.8	33,100	33,100	60.4	211.2	35,800	33,700	63.7	214.1	37,000	32,100	80
90	54.1	203.2	28,300	28,300	55.6	205.0	32,200	29,100	59.0	208.6	31,600	27,600	90
100	48.9	195.2	25,700	25,700	50.4	197.5	27,500	25,200	54.1	202.0	27,800	23,900	100
110	43.2	185.6	23,200	23,200	44.9	188.3	25,000	22,100	48.9	194.0	24,500	21,000	110
120	36.9	173.7	20,200	20,200	38.8	177.2	22,400	19,600	43.2	184.4	21,800	18,600	120
130	29.4	158.4	17,100	17,100	31.7	163.0	19,900	17,500	36.8	172.5	19,500	16,600	130
140	19.5	136.3	13,700	13,700	22.7	143.6	16,900	15,800	29.3	157.1	17,600	14,900	140
150									19.4	135.1	16,000	13,400	150

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
90	62.3	211.0	30,200	26,200									90
100	57.6	205.2	26,600	22,700									100
110	52.6	198.2	23,400	19,800	56.0	201.0	22,200	18,700					110
120	47.2	189.8	20,700	17,500	50.9	193.6	19,700	16,500	54.3	195.9	18,700	15,500	120
130	41.4	179.5	18,600	15,600	45.4	184.6	17,600	14,700	49.1	188.0	16,700	13,700	130
140	34.7	166.8	16,700	14,000	39.4	173.7	15,900	13,100	43.4	178.4	15,000	12,300	140
150	26.7	149.9	15,200	12,600	32.4	159.8	14,400	11,800	37.1	166.6	13,600	11,000	150
160	15.3	123.8	13,800	11,400	23.6	141.0	13,100	10,700	29.7	151.4	12,300	9,900	160
170									19.9	129.8	11,200	9,000	170

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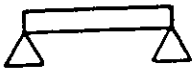
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

SERIAL NUMBER

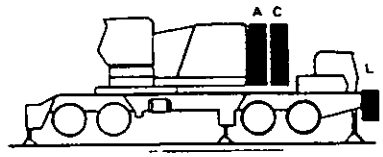
HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

100 FT. BOOM + 140 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
50	73.0	243.5	45,200	45,200	74.5	244.3	50,000	50,000					50
60	68.7	240.1	40,600	40,600	70.2	241.2	44,700	44,700					60
70	64.2	235.7	36,700	36,700	65.8	237.1	40,200	40,200	69.7	239.6	43,300	37,700	70
80	59.5	230.4	33,000	33,000	61.2	232.1	36,300	33,500	65.3	235.4	36,300	31,400	80
90	54.7	223.9	28,200	28,200	56.4	226.1	32,600	28,900	60.7	230.3	31,000	27,100	90
100	49.5	216.1	25,600	25,600	51.4	218.8	27,900	25,100	55.9	224.1	27,300	23,400	100
110	43.9	206.7	21,900	21,900	45.9	210.0	25,400	22,000	50.7	216.7	24,000	20,500	110
120	37.6	145.1	18,700	18,700	39.9	199.2	22,700	19,500	45.2	207.7	21,300	18,100	120
130	30.2	180.2	15,700	15,700	33.0	185.7	20,300	17,400	39.1	196.6	19,100	16,200	130
140	20.7	159.2	12,600	12,600	24.5	167.5	17,400	15,700	32.1	182.7	17,200	14,500	140
150					11.1	136.3	14,000	14,000	23.3	163.6	15,600	13,100	150

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
90	64.7	232.9	29,500	25,200									90
100	60.1	227.6	25,700	21,800									100
110	55.2	221.3	22,500	19,000	59.3	224.1	21,100	17,600					110
120	50.1	213.7	20,000	16,800	54.4	217.6	18,700	15,500					120
130	44.5	204.4	17,900	14,900	49.2	209.7	16,700	13,700	53.5	212.9	15,500	12,500	130
140	38.3	193.1	16,100	13,400	43.6	200.2	15,000	12,200	48.3	204.7	13,900	11,200	140
150	31.1	178.6	14,600	12,000	37.3	188.4	13,500	11,000	42.5	194.9	12,500	10,000	150
160	21.9	158.6	13,300	10,900	29.9	173.4	12,300	9,900	36.1	182.7	11,400	9,000	160
170					20.2	152.0	11,200	8,900	28.4	166.8	10,300	8,100	170
180									18.0	143.4	9,400	7,300	180

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

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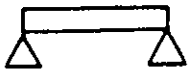
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

SERIAL NUMBER

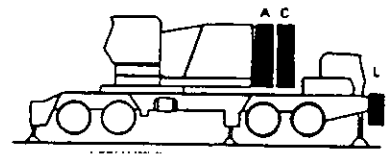
HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

120 FT. BOOM + 140 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
50	73.4	263.8	45,100	45,100									50
60	69.1	260.4	40,500	40,500	71.0	261.7	45,400	45,400					60
70	64.7	256.2	35,900	35,900	66.6	257.8	40,800	39,900					70
80	60.0	250.9	30,100	30,100	62.0	253.0	36,800	33,300	66.8	256.7	35,400	30,600	80
90	55.2	244.6	26,100	26,100	57.3	247.1	32,600	28,700	62.3	251.9	30,300	26,400	90
100	50.0	237.0	22,100	22,100	52.3	240.1	28,300	24,900	57.6	246.1	26,700	22,800	100
110	44.5	227.0	18,800	18,800	46.9	231.6	25,300	21,800	52.6	239.1	23,400	19,900	110
120	38.3	216.4	15,900	15,900	41.0	221.2	22,500	19,300	47.2	230.7	20,800	17,600	120
130	31.1	201.9	13,300	13,300	34.3	208.2	20,200	17,300	41.3	220.4	18,600	15,700	130
140	21.9	181.8	10,500	10,500	26.2	191.1	17,900	15,500	34.7	207.6	16,800	14,100	140
150					14.3	163.9	14,600	14,000	26.7	190.8	15,200	12,700	150
160									15.2	164.6	13,800	11,500	160

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
100	62.5	249.8	24,600	20,700									100
110	57.7	244.1	21,600	18,100									110
120	52.8	237.1	19,100	15,900	57.8	240.9	17,500	14,300					120
130	47.4	228.8	17,100	14,100	52.8	234.0	15,600	12,600					130
140	41.6	218.6	15,400	12,600	47.5	225.7	14,000	11,200	52.8	229.8	12,600	9,900	140
150	35.0	205.9	13,900	11,300	41.7	215.5	12,600	10,000	47.4	221.5	11,300	8,800	150
160	27.0	189.3	12,600	10,200	35.1	202.9	11,400	9,000	41.6	211.3	10,200	7,800	160
170	15.8	163.8	11,500	9,300	27.2	186.4	10,400	8,100	35.0	198.6	9,300	7,000	170
180					16.0	161.1	9,400	7,300	27.0	182.0	8,400	6,300	180
190									15.8	156.4	7,600	5,600	190

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

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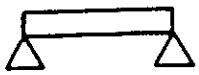
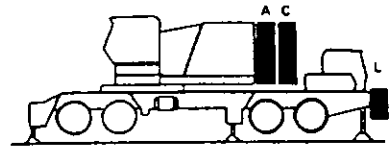
SERIAL NUMBER

HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

140 FT. BOOM + 140 FT. JIB





CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS

COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
50	73.9	284.1	42,200	42,200									50
60	69.6	280.8	36,300	36,300	71.7	282.2	46,200	46,200					60
70	65.1	276.6	31,400	31,400	67.3	278.5	41,400	39,500					70
80	60.5	271.5	27,100	27,100	62.8	273.8	37,000	32,900	68.4	277.8	34,500	29,600	80
90	55.7	265.3	23,600	23,600	58.1	268.2	31,900	28,400	63.9	273.4	29,500	25,600	90
100	50.6	257.8	19,900	19,900	53.2	261.3	27,400	24,600	59.2	267.9	26,000	22,100	100
110	45.1	248.7	16,800	16,800	47.9	253.1	23,900	21,600	54.3	261.4	22,800	19,300	110
120	39.0	237.6	14,200	14,200	42.1	243.1	20,900	19,100	49.1	253.5	20,200	17,100	120
130	31.9	223.6	11,700	11,700	35.5	230.7	18,400	17,100	43.5	243.9	18,100	15,200	130
140	23.0	204.3	9,200	9,200	27.7	214.4	16,200	15,300	37.1	232.1	16,300	13,600	140
150					17.0	190.1	14,300	13,800	29.7	217.0	14,700	12,200	150
160									19.9	195.3	13,400	11,000	160

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
100	64.8	271.7	23,500	19,600									100
110	60.2	266.5	20,600	17,100									110
120	55.4	260.2	18,200	15,000									120
130	50.2	252.6	16,200	13,300	56.3	257.7	14,400	11,500					130
140	44.7	243.4	14,600	11,800	51.2	250.4	12,900	10,200					140
150	38.5	232.2	13,100	10,600	45.7	241.5	11,600	9,000	52.0	246.8	10,100	7,500	150
160	31.4	217.8	11,900	9,500	39.7	230.7	10,400	8,100	46.6	238.1	9,000	6,600	160
170	22.3	198.1	10,800	8,600	32.8	217.0	9,500	7,200	40.6	227.6	8,100	5,900	170
180					24.2	198.6	8,600	6,500	33.8	214.5	7,300	5,200	180
190					10.3	166.4	7,800	5,800	25.6	197.0	6,600	4,600	190
200									13.2	168.6	6,000	4,100	200

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

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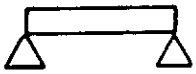
WARNING: DEDUCT THE "WEIGHT OF ALL LOAD HANDLING DEVICES" REEVED OVER THE MAIN BOOM POINT, FROM PUBLISHED JIB CAPACITY VALUES, WHEN HANDLING LOADS OVER THE JIB POINT.

SERIAL NUMBER

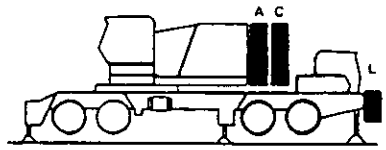
HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES - ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

160 FT. BOOM + 140 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
50	74.3	304.4	36,900	36,900									50
60	70.0	301.2	31,300	31,300	72.5	302.7	45,000	45,000					60
70	65.6	297.1	26,600	26,600	68.1	299.1	38,000	38,000					70
80	61.0	292.1	23,000	23,000	63.6	294.6	32,200	32,200	69.9	298.8	33,500	29,100	80
90	56.2	286.0	19,900	19,900	59.0	289.2	27,200	27,200	65.5	294.7	29,000	24,700	90
100	51.2	278.6	17,400	17,400	54.1	282.5	23,500	23,400	60.9	289.6	25,200	21,300	100
110	45.7	269.8	15,300	15,300	48.8	274.6	20,300	20,300	56.1	283.5	22,100	18,600	110
120	39.6	258.9	13,000	13,000	43.1	264.9	17,600	17,600	51.0	276.1	19,600	16,400	120
130	32.7	245.2	10,700	10,700	36.8	253.0	15,300	15,300	45.5	267.2	17,500	14,600	130
140	24.1	226.7	8,300	8,300	29.2	237.6	13,300	13,300	39.4	256.2	15,700	13,000	140
150					19.2	215.4	11,600	11,600	32.4	242.4	14,200	11,700	150
160									23.7	223.7	12,800	10,600	160

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
110	62.6	288.6	19,400	15,900									110
120	57.9	282.9	17,200	14,000									120
130	52.9	276.0	15,300	12,300	59.6	280.8	13,100	10,200					130
140	47.6	267.7	13,700	11,000	54.7	274.3	11,700	8,900					140
150	41.8	257.6	12,300	9,800	49.5	266.5	10,500	7,900					150
160	35.2	245.0	11,100	8,800	43.9	257.1	9,400	7,000	51.1	263.7	7,700	5,300	160
170	27.3	228.6	10,100	7,900	37.6	245.5	8,500	6,200	45.7	254.8	6,900	4,600	170
180	16.3	203.6	9,200	7,100	30.3	230.7	7,600	5,500	39.6	243.9	6,200	4,000	180
190					20.8	209.7	6,900	4,900	32.7	230.2	5,500	3,500	190
200									24.1	211.7	4,900	3,000	200
210									10.1	179.2	4,400	2,600	210

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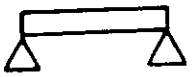
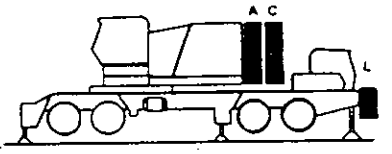
SERIAL NUMBER

HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES – ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

140 FT. BOOM + 160 FT. JIB





COUNTERWEIGHT CONFIGURATION

CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
60	72.2	302.0	31,000	31,000	74.1	303.1	37,200	37,200					60
70	68.4	298.4	26,800	26,800	70.3	299.9	33,100	33,100					70
80	64.5	294.0	23,600	23,600	66.5	296.0	27,900	27,900					80
90	60.5	288.8	20,800	20,800	62.5	291.2	25,200	25,100	67.3	295.3	28,600	25,000	90
100	56.3	282.7	18,300	18,300	58.4	285.5	22,500	22,500	63.4	290.7	25,400	21,500	100
110	51.8	275.4	16,200	16,200	54.1	278.8	20,200	20,200	59.3	285.3	22,300	18,800	110
120	47.1	266.9	14,400	14,400	49.5	270.9	18,200	18,200	55.1	278.8	19,700	16,500	120
130	42.0	256.7	12,400	12,400	44.6	261.6	16,400	16,400	50.6	271.2	17,600	14,600	130
140	36.4	244.5	10,500	10,500	39.2	250.5	14,500	14,500	45.8	262.3	15,800	13,000	140
150	29.8	229.1	8,600	8,600	33.2	236.8	12,800	12,800	40.5	251.6	14,200	11,700	150
160	21.5	208.3	6,600	6,600	25.9	219.2	11,200	11,200	34.6	238.6	12,900	10,500	160
170					15.9	193.0	9,900	9,900	27.7	222.1	11,700	9,500	170
180									18.6	198.7	10,700	8,600	180

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
110	64.2	289.1	20,000	16,500									110
120	60.2	283.8	17,600	14,400									120
130	56.0	277.6	15,600	12,700									130
140	51.5	270.2	14,000	11,300	56.8	275.1	12,300	9,500					140
150	46.8	261.6	12,600	10,000	52.4	267.9	11,000	8,400					150
160	41.7	251.3	11,300	9,000	47.7	259.6	9,800	7,500	53.0	264.3	8,400	6,000	160
170	35.9	238.9	10,300	8,000	42.6	249.6	8,900	6,600	48.4	256.1	7,500	5,200	170
180	29.3	223.3	9,300	7,200	37.0	237.6	8,000	5,900	43.4	246.4	6,700	4,600	180
190	20.8	201.9	8,500	6,500	30.6	222.7	7,200	5,200	37.9	234.8	6,000	4,000	190
200					22.6	202.7	6,500	4,700	31.6	220.3	5,400	3,500	200
210									23.9	201.3	4,800	3,000	210
220									12.4	170.8	4,300	2,600	220

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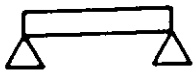
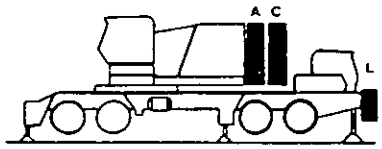
SERIAL NUMBER

HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES – ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

160 FT. BOOM + 160 FT. JIB





CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS

COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
60	72.6	322.3	26,700	26,700	74.7	323.5	37,800	37,800					60
70	68.8	318.8	23,100	23,100	71.0	320.5	33,000	33,000					70
80	64.9	314.5	20,000	20,000	67.1	316.6	28,000	28,000					80
90	60.9	309.4	17,300	17,300	63.2	312.0	24,200	24,200	68.7	316.4	28,400	24,100	90
100	56.7	303.3	15,100	15,100	59.1	306.5	20,900	20,900	64.8	312.1	24,600	20,800	100
110	52.3	296.2	13,100	13,100	54.8	300.0	18,100	18,100	60.8	307.0	21,500	18,100	110
120	47.6	287.8	11,400	11,400	50.3	292.3	15,700	15,700	56.6	300.9	19,000	15,900	120
130	42.6	277.8	9,900	9,900	45.5	283.3	13,500	13,500	52.2	293.7	17,000	14,000	130
140	37.0	265.8	8,600	8,600	40.2	272.5	11,700	11,700	47.5	285.3	15,200	12,500	140
150	30.5	250.9	7,600	7,600	34.3	259.4	10,100	10,100	42.4	275.2	13,700	11,200	150
160	22.5	230.8	5,900	5,900	27.3	242.6	8,700	8,700	36.8	263.1	11,700	10,000	160
170					18.0	218.6	7,500	7,500	30.3	248.0	10,000	9,000	170
180									22.2	227.8	8,400	8,200	180

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	JIB ANG	SHEAVE HGT	RATED LOAD REAR	RATED LOAD 360°	
120	62.3	306.0	16,500	13,400									120
130	58.2	300.2	14,700	11,700									130
140	53.9	293.5	13,100	10,400	59.6	298.1	11,000	8,300					140
150	49.3	285.6	11,700	9,200	55.4	291.7	9,800	7,300					150
160	44.4	276.2	10,600	8,200	50.9	284.2	8,800	6,400					160
170	39.0	265.0	9,500	7,300	46.1	275.4	7,800	5,600	52.3	281.2	6,200	4,000	170
180	32.9	251.2	8,600	6,500	40.9	264.9	7,000	4,900	47.6	272.8	5,500	3,400	180
190	25.5	233.3	7,800	5,800	35.1	252.1	6,300	4,300	42.6	262.9	4,900	2,900	190
200	15.3	206.4	7,100	5,200	28.3	235.9	5,700	3,800	37.0	250.9	4,300	2,400	200
210					19.4	213.3	5,100	3,300	30.5	235.9	3,800	2,000	210
220									22.5	215.8	3,300		220

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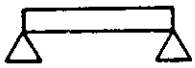
SERIAL NUMBER

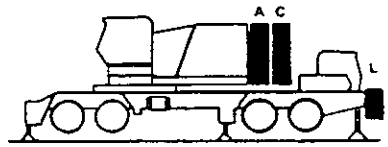
HL150T
IDENTIFICATION

LUFFING JIB
76A BOOM + 46A JIB
CAPACITIES – ON OUTRIGGERS OVER REAR & 360°
85% STABILITY

170 FT. BOOM + 160 FT. JIB



CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

RAD. in FT.	BOOM ANGLE 87 DEG.				BOOM ANGLE 85 DEG.				BOOM ANGLE 80 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
60	72.8	332.4	24,600	24,600									60
70	69.0	329.0	21,100	21,100	71.3	330.7	30,800	30,800					70
80	65.1	324.7	18,100	18,100	67.5	326.9	25,900	25,900					80
90	61.1	319.7	15,600	15,600	63.5	322.4	22,200	22,200	69.4	326.9	27,900	23,600	90
100	56.9	313.7	13,400	13,400	59.5	317.0	19,100	19,100	65.5	322.8	24,200	20,300	100
110	52.6	306.6	11,600	11,600	55.2	310.6	16,400	16,400	61.5	317.8	21,100	17,700	110
120	47.9	298.3	10,000	9,900	50.7	303.0	14,000	14,000	57.3	311.9	18,700	15,500	120
130	42.9	288.4	8,500	8,500	45.9	294.1	12,000	12,000	52.9	304.9	16,600	13,700	130
140	37.3	276.5	7,300	7,300	40.7	283.5	10,300	10,300	48.3	296.7	14,300	12,200	140
150	30.9	261.7	6,300	6,300	34.9	270.6	8,700	8,700	43.3	287.0	12,200	10,900	150
160	23.0	242.1	5,600	5,600	28.0	254.2	7,400	7,400	37.8	275.3	10,300	9,800	160
170					19.0	231.2	6,300	6,300	31.5	260.8	8,700	8,700	170
180									23.8	241.7	7,200	7,200	180
190									12.1	210.8	5,900	5,900	190

RAD. in FT.	BOOM ANGLE 75 DEG.				BOOM ANGLE 70 DEG.				BOOM ANGLE 65 DEG.				RAD. in FT.
	JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		JIB ANG	SHEAVE HGT	RATED LOAD		
			REAR	360°			REAR	360°			REAR	360°	
120	63.3	316.9	16,000	12,800									120
130	59.3	311.5	14,200	11,200									130
140	55.0	305.0	12,600	9,900									140
150	50.5	297.4	11,300	8,700	56.9	303.4	9,200	6,700					150
160	45.7	288.4	10,100	7,800	52.5	296.3	8,200	5,800					160
170	40.4	277.7	9,100	6,900	47.8	288.0	7,300	5,100	54.2	293.5	5,600	3,300	170
180	34.6	264.7	8,200	6,200	42.8	278.1	6,500	4,400	49.6	285.6	4,900	2,800	180
190	27.6	248.1	7,500	5,500	37.2	266.1	5,800	3,900	44.8	276.4	4,300	2,300	190
200	18.5	224.6	6,800	4,900	30.8	251.3	5,200	3,300	39.4	265.3	3,700		200
210					22.8	231.5	4,700	2,900	33.4	251.7	3,300		210
220					10.2	197.8	4,200	2,500	26.2	234.3	2,800		220
230									16.3	208.5	2,500		230

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SERIAL NUMBER

HL150T
IDENTIFICATION

GROVE® worldwide

Grove Worldwide - World Headquarters
1565 Buchanan Trail East
Shady Grove, Pennsylvania 17256
Phone: (717) 597-8121
Telex: 1842308 Fax: (717) 597-4062

Grove North America
P.O. Box 21, Shady Grove, Pennsylvania 17256
Western Hemisphere, Asia/Pacific
Phone: (717) 597-8121
Telex: 1842308 Fax: (717) 597-4062

Grove Europe*
Sunderland, England SR4 6TT
Europe, Africa, Middle East, Near East
Phone: (091) 565-6281
Telex: 53484 CRANES G Fax: (091) 564-0442
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Distributed By:

Technical Data

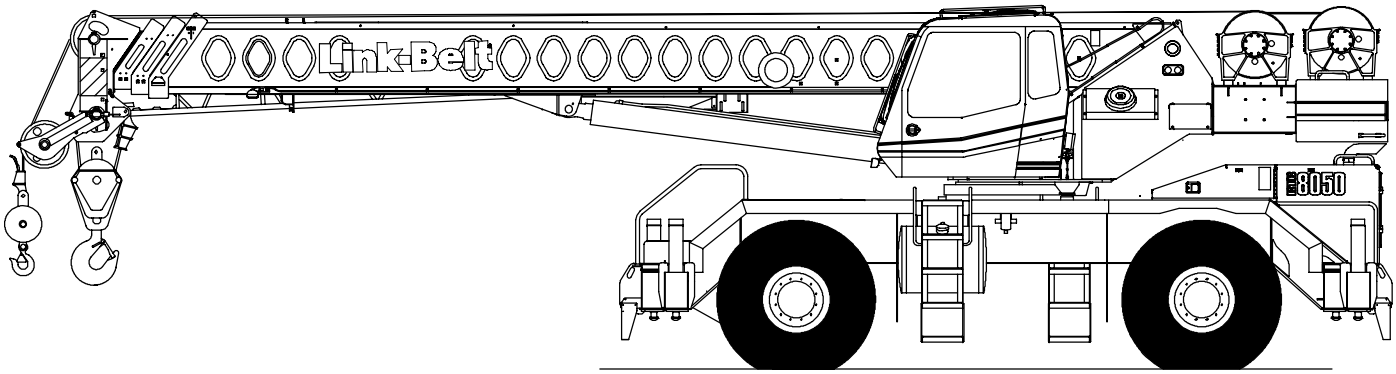
Specifications & Capacities

RTC 8050

Series II

Telescopic Boom Rough Terrain Crane

50 ton (50 metric ton)



CAUTION: This material is supplied for reference use only. Operator must refer to in – cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly and operating procedures.

Table Of Contents

Boom, Attachments, and Upper Structure **1**
Boom 1
Boom Head 1
Boom Elevation 1
Auxiliary Lifting Sheave – Optional 1
Hook Blocks and Balls – Optional 1
Fly – Optional 1
Operator's Cab and Controls 1
Swing 2
Electrical 2
Load Hoist System 3
Load Hoist Performance 3
2M Main and Optional Auxiliary Winches 3
Hydraulic System 3
Counterweight 3
Carrier **4**
General 4
Outriggers 4
Steering and Axles 4
Suspension 4
Tires and Wheels 4
Brakes 4
Electrical 4
Engine 4
Transmission 4
Carrier Speeds and Gradeability 5
Fuel Tank 5
Hydraulic System 5
Pump Drive 5
Axle Loads **6**
General Dimensions **7**
Working Range Diagram **8**
Boom Extend Modes **9**
Main Boom Lift Capacity Charts – Standard **10**
Fully Extended Outriggers – 360˚ Rotation 10
On Tires – Stationary – Boom Centered Over Front Between Tire Tracks 11
On Tires – Pick & Carry (Creep) – Boom Centered Over Front 11
On Tires – Stationary – 360˚ Rotation 11
Fly Attachment Lift Capacity Charts – Optional **12**
Fully Extended Outriggers – 360˚ Rotation 12
110 ft Main Boom Length – 2˚ Fly Offset 12
110 ft Main Boom Length – 20˚ Fly Offset 12
110 ft Main Boom Length – 40˚ Fly Offset 12

Main Boom Lift Capacity Charts – Optional (Metric) 13
Fully Extended Outriggers – 360˚ Rotation 13
On Tires – Stationary – Boom Centered Over Front Between Tire Tracks 14
On Tires – Pick & Carry (Creep) – Boom Centered Over Front 14
On Tires – Stationary – 360˚ Rotation 15
Fly Attachment Lift Capacity Charts – Optional (Metric) 15
Fully Extended Outriggers – 360˚ Rotation 15
33.53m Main Boom Length – 2˚ Fly Offset 15
33.53m Main Boom Length – 20˚ Fly Offset 15
33.53m Main Boom Length – 40˚ Fly Offset 15

Boom, Attachments, and Upper Structure

■ Boom

Design – Four section, box type construction of high tensile steel consisting of one base section and three telescoping sections. The vertical side plates have diamond shaped steel impressions for superior strength to weight ration. The first telescoping section extends independently by means of one double–acting, single stage hydraulic cylinder with integrated holding valves. The second and third telescoping sections extend proportionally by means of one double–acting, single stage cylinder with integrated holding valves and cables.

Boom

- 35 ft 6 in–110 ft (*10.8–33.5m*) four section full power boom
- Two mode boom extension: *A–max* mode provides superior capacities by extending the first telescoping section to 60 ft 4 in (*18.4m*). Standard mode synchronizes all the telescoping sections proportionally to 110 ft (*33.5m*). Controlled from the operator's cab.
- Mechanical boom angle indicator
- Maximum tip height for *A–max* mode is 70 ft (*21.3m*) and standard mode is 118 ft 5 in (*36.1m*).

Boom Head

- Four 16.5 in (*41.9cm*) root diameter nylon sheaves to handle up to eight parts of line
- Easily removable wire rope guards
- Rope dead end lugs on each side of the boom head
- Boom head is designed for quick–reeve of the hook block

Boom Elevation

- One double acting hydraulic cylinder with integral holding valve
- Boom elevation: –3˚ to 78˚

Auxiliary Lifting Sheave – Optional

- Single 16.5 in (*41.9m*) root diameter nylon sheave
- Easily removable wire rope guards
- Does not affect erection of the fly or use of the main head sheaves

Hook Blocks and Balls – Optional

- 40 ton (*36.3mt*) 4 sheave quick–reeve hook block with safety latch
- 60 ton (*54.4mt*) 4 sheave quick–reeve hook block with safety latch
- 8.5 ton (*7.7mt*) swivel and non–swivel hook balls with safety latch

Fly – Optional

- 28 ft 6 in (*8.7m*) one piece lattice fly, stowable, offsettable to 2˚, 20˚, and 40˚. Maximum tip height is 146 ft (*44.5m*).
- 28 ft 6 in–51 ft (*8.7–15.5m*) two piece bi–fold lattice fly, stowable, offsettable to 2˚, 20˚, and 40˚. Maximum tip height is 168 ft (*51.2m*).

■ Operator's Cab and Controls

Environmental Cab – Fully enclosed, one person cab of galvaneal steel structure with acoustical insulation. Equipped with:

- Tinted and tempered glass windows
- Extra–large fixed front window with windshield wiper and washer
- Swing up roof window with windshield wiper
- Sliding left side door with large fixed window
- Sliding rear and right side windows for ventilation
- Six way adjustable, cushioned seat with seat belt and storage compartment
- Diesel fired warm–water heater with air ducts for front windshield defroster and cab floor
- Defroster fan for the front window
- Bubble level
- Circulating fan
- Adjustable sun visor
- Dome light
- Cup holder
- Fire extinguisher
- Left side viewing mirror
- Two position travel swing lock

Air Conditioning – Optional – Integral with cab heating system utilizing the same ventilation outlets

Engine Dependent Heater – Optional – Flameless, warm–water system that does not have a separate fuel tank

Steering Column – Pedestal type with tilt and telescope functions for operator comfort. Column includes the following controls and indicators:

Left and right levers include:

- Horn button
- Turn signal switch
- Driving light switch
- Transmission direction switch

Panel mounted switches for:

- Travel park brake
- Steer mode selector
- 4 wheel drive
- Transmission gear selector
- Hazard flasher

Panel mounted indicator/warning lights for:

- Transmission display
- Transmission temperature
- Engine oil pressure
- Travel park brake
- Service brake
- Turn signals
- Rear wheel offset
- Emergency steer – optional

Armrest Controls – Two dual axis hydraulic joystick controllers or optional single axis hydraulic controllers for:
- Swing
- Boom hoist
- Main rear winch
- Auxiliary front winch – optional
- Drum rotation indication
- Drum rotation indicator activation switch
- Winch high/low speed and disable switch(es)
- Third wrap selector switch – optional
- Telescopic override switches
- Warning horn button
- Swing park brake

Outrigger Controls – Hand held control box with umbilical cord gives the operator the freedom to view operation while setting the outriggers.

Foot Controls
- Boom telescope
- Swing brake
- Engine throttle

Right Front Console – Controls and indicators for:
- Engine ignition
- Engine throttle lock
- Function disable
- Front windshield wiper and washer
- Cab floodlights
- Warning horn
- Heating controls
- Console dimmer switch
- Bubble level
- 12 volt power connection
- Air conditioning – optional
- Boom floodlight – optional
- Rotating beacon/Strobe light – optional
- Third wrap indicator – optional

Cab Instrumentation – Ergonomically positioned, analog instrumentation for crane operation including:
- Engine coolant temperature with warning indicator
- Hydraulic oil temperature with warning indicator
- Fuel level with warning indicator
- Tachometer

Rated Capacity Limiter – Microguard 434 graphic audio–visual warning system integrated into the dash with anti–two block and function limiter. Operating data available includes:
- Crane configuration
- Boom length and angle
- Boom head height
- Allowed load and % of allowed load
- Boom angle
- Radius of load
- Actual load
- Operator settable alarms (include):
  - Maximum and minimum boom angles
  - Maximum tip height
  - Maximum boom length
  - Swing left/right positions
  - Operator defined area (imaginary plane)

Internal RCL Light Bar – Optional – Visually informs the operator when crane is approaching maximum load capacity with a series of green, yellow, and red lights.

External RCL Light Bar – Optional – Visually informs the ground crew when crane is approaching maximum load capacity with a series of green, yellow, and red lights.

■ Swing

Motor/Planetary – Bi–directional hydraulic swing motor mounted to a planetary reducer for 360˚ continuous smooth swing at 2.5 rpm.

Swing Park Brake – 360˚, electric over hydraulic, (spring applied/hydraulic released) multi–disc brake mounted on the speed reducer. Operated by a switch from the operator's cab.

Swing Brake – 360˚, foot operated, hydraulic applied disc brake mounted to the speed reducer.

Swing Lock – Two–position swing lock (boom over front or rear) operated from the operator's cab.

360˚ Positive Swing Lock – Optional – Meets New York City requirement.

■ Electrical

Swing Alarm – Audio warning device signals when the upper is swinging.

Lights
- Two working lights on front of the cab
- One rotating amber beacon on top of the cab – optional
- One amber strobe beacon on top of the cab – optional
- Boom floodlight – optional

Load Hoist System

Load Hoist Performance

Main (Rear) and Auxiliary (Front) Winches – 3/4 in (*19mm*) Rope										
	Maximum Line Pull		Normal Line Speed		High Line Speed		Layer		Total	
Layer	lb	*kg*	ft/min	*m/min*	ft/min	*m/min*	ft	*m*	ft	*m*
1	15,390	*6 980.8*	168	*51.2*	337	*102.7*	114	*34.7*	114	*34.7*
2	14,150	*6 418.3*	183	*55.8*	366	*111.6*	124	*37.8*	238	*72.5*
3	13,094	*5 939.3*	198	*60.4*	396	*120.7*	134	*40.8*	372	*113.4*
4	12,185	*5 527.0*	212	*64.6*	425	*129.5*	144	*43.9*	516	*157.3*
5	11,394	*5 168.2*	227	*69.2*	455	*138.7*	154	*46.9*	670	*204.2*

Wire Rope Application		Diameter		Type	Maximum Permissible Load	
		in	*mm*		lb	*kg*
Main (Rear) Winch	Standard	3/4	*19*	18x19 rotation resistant – right regular lay (Type RB)	12,920	*5 860.5*
	Optional	3/4	*19*	36x7 rotation resistant – right regular lay (Type ZB)	15,600	*7 076.2*
Auxiliary (Front) Winch	Standard	3/4	*19*	18x19 rotation resistant – right regular lay (Type RB)	12,920	*5 860.5*
	Optional	3/4	*19*	36x7 rotation resistant – right regular lay (Type ZB)	15,600	*7 076.2*

2M Main and Optional Auxiliary Winches

- Bi–directional gear–type (2–speed) hydraulic motors driven through planetary reduction unit for positive control under all load conditions.
- Grooved lagging
- Power up/down mode of operation
- Hoist drum cable follower
- Drum rotation indicator
- Drum diameter: 16 in (*40.6cm*)
- Rope length:
  - Main: 600 ft (*182.9m*)
  - Auxiliary: 600 ft (*182.9m*)
- Maximum rope storage: 834 ft (*254.2m*)
- Terminator style socket and wedge

Third wrap indicator – optional – Visually and audibly warns the operator when the wire rope is on the first/bottom layer and when the wire rope is down to the last three wraps.

Hydraulic System

Counterbalance Valves – All hoist motors, boom extend cylinders, and boom hoist cylinders are equipped with counterbalance valves to provide load lowering and prevents accidental load drop when hydraulic power is suddenly reduced.

Counterweight

Total of 12,500 lb (*5 670kg*) of counterweight bolted to the upper structure frame with capacities for the 12,500 lb (*5 670kg*) configuration.

Carrier

General

- 10 ft 10.5 in (*3.31m*) wide
- 12 ft 7 in (*3.83m*) wheelbase (centerline of first axle to centerline of second axle).

Frame – Box–type, torsion resistant, welded construction made of high tensile steel. Equipped with front and rear towing and tie–down lugs, tow connections, and access ladders.

Outriggers

Boxes – Two double box, front and rear welded to carrier frame.

Beams and Jacks – Four single stage beams with Confined Area Lifting Capacities (CALC™) provide selectable outrigger extensions of full, intermediate, and retracted. Hydraulically controlled from the operator's cab with integral check valves.

Pontoons – Four lightweight, quick release, 19.25 x 19.25 in (*48.90 x 48.90cm*), steel pontoons with contact area of 307 in^2 (*1 980.6*cm^2) can be stored for road travel in storage racks on the carrier.

Main Jack Reaction – 63,500 lb (*28 803kg*) force and 213 psi (*1 469kPa*) ground bearing pressure.

Steering and Axles

Steering – Four independent modes consisting of two wheel front, two wheel rear, four wheel, and crab. Each mode is controlled from the steering wheel and is selected by a switch in the operator's cab.

Drive – Two modes: 4 x 2 and 4 x 4 for off highway travel
Axle 1 – Steered, non–driven for 4 x 2 and steered, driven for 4 x 4
Axle 2 – Steered, driven

Suspension

Front – Rigid mount to the carrier frame

Rear – The rear axle is suspended on the oscillation cylinders with motion of the axle controlled by a four bar linkage system. The oscillation cylinders lockout when the upper structure rotates 2.5° past centerline.

- Hydro–gas rear suspension – optional

Tires and Wheels

Front and Rear – Four (single) 23.5 x 25–20 ply rating, earthmover type tires on steel disc wheels

- Spare tires and wheels – optional

Brakes

Service – Full hydraulic, dual circuit, disc type brakes on all wheel ends

Parking/Emergency – Spring loaded type, acting on front axle

Electrical

Three batteries provide 12 volt operation and starting

Lights

- Front lighting includes two main headlights, and two parking/directional indicators.
- Side lighting includes two parking/directional indicators per side.
- Rear lighting includes two parking/directional indicators, two parking/brake lights, and two reversing lights.
- Other equipment includes hazard/warning system, cab light, instrument panel light, and signal horn.

Engine

Specification	CAT C6.6
Numbers of Cylinders	6
Cycle	4
Bore and Stroke: inch (*mm*)	4.13 x 5.00 (*105 x 127*)
Piston Displacement: in^3 (*L*)	402.7 (*6.6*)
Max. Brake Horsepower: hp (*kW*)	174 (*130*) @ 2,200 rpm
Peak Torque: ft lb (*Nm*)	512 (*694*) @ 1,500 rpm
Alternator: volts – amps	12 – 150
Crankcase Capacity: qt (*L*)	18.4 (*17.4*)

- Mechanically driven fan and thermostatically controlled radiator
- Water/Fuel separator
- 110–volt block heater
- Glow plugs/block heater

Transmission

Powershift – Three speed with high/low range for 6 forward and 6 reverse gears. Front axle disconnect for two or four wheel drive. Front axle disconnect in high range.

Carrier Speeds and Gradeability

Dana Spicer			Speed		Gradeability (@ 70% Converter efficiency)
Gear		Ratio	mph	*km/h*	% Grade
6th	Forward 2WD Hi	0.82	22.4	*36.05*	3.0
5th		2.25	8.2	*13.20*	11.8
4th		4.67	3.9	*6.28*	27.4
3rd	Forward 4WD Low	2.40	7.6	*12.23*	12.7
2nd		6.54	2.8	*4.51*	40.9
1st		13.60	1.3	*2.09*	137.3
2nd	Reverse 2WD	4.67	3.9	*6.28*	27.4
1st	Reverse 4WD	13.60	1.3	*2.09*	137.3

Based on a gross vehicle weight of 80,000 lb (*36 287kg*)

Crane operating angle must not exceed 35˚ (77% grade).

Fuel Tank

One 75 gallon (*283.9L*) capacity tank

Hydraulic System

All functions are hydraulically powered allowing positive precise, control with independent or simultaneous operation of all functions.

Main Pumps

- Three fixed displacement gear pumps for the main and auxiliary winches, swing, boom hoist, and telescope circuits with a manual disconnect to aid during cold weather starts.
- One gear pump for the outriggers, power steering, brakes, and telescope circuits.
- One pressure compensated piston pump is used in the control and service brake circuits.
- Combined pump capacity of 139 gpm (*526.2Lpm*).

Hydraulic Reservoir – 131 gal (*495.9L*) capacity equipped with sight level gauge. Diffusers built in for deaeration.

Filtration – One 10 micron, full flow, line filter in the control circuit. All oil is filtered prior to return to sump tank. Accessible for easy filter replacement.

Pump Drive

All pumps are mechanically driven by the diesel engine. Main and auxiliary winches, swing, boom hoist, and telescope pumps are mounted to a mechanical pump disconnect on the transmission torque convertor to aid in cold weather starting.

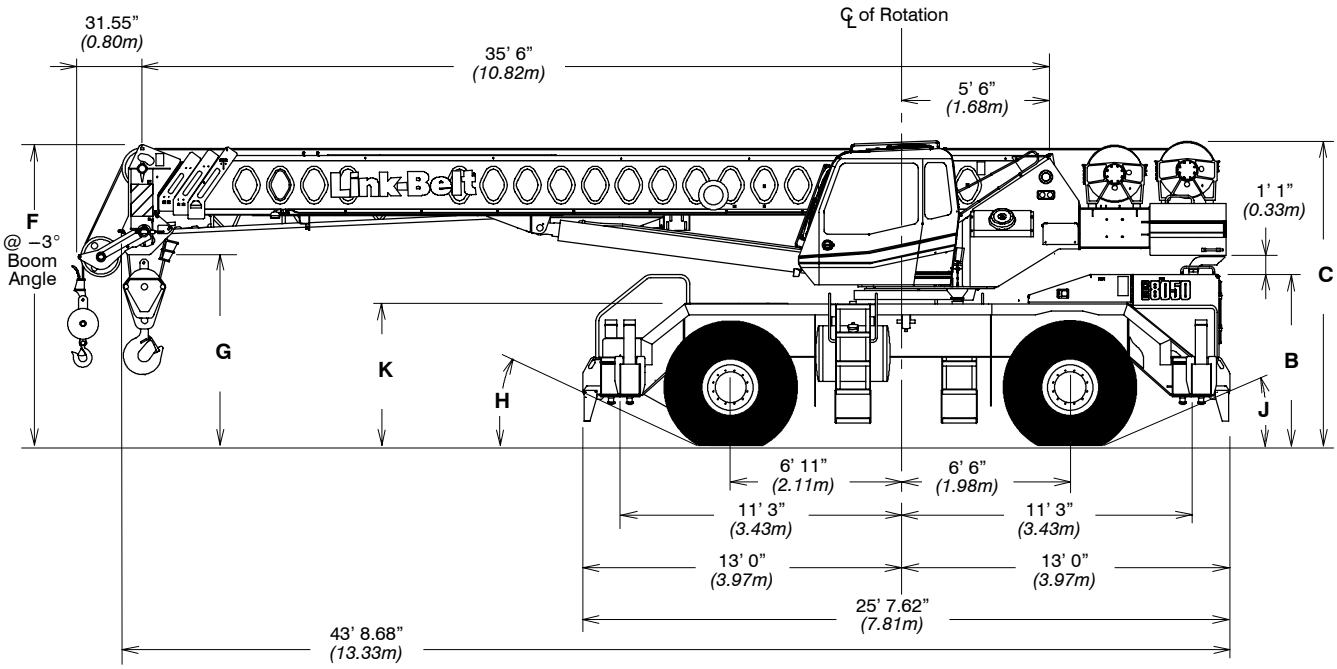
Axle Loads

Base crane with full tank of fuel	Gross Vehicle Weight (1)		Upper Facing Front				Upper Facing Rear			
			Front Axles		Rear Axles		Front Axles		Rear Axles	
	lb	*kg*	lb	*kg*	lb	*kg*	lb	*kg*	lb	*kg*
	72,495	***32 883***	**33,996**	***15 420***	**38,499**	***17 463***	**32,896**	***14 921***	**39,599**	***17 962***
23.5R25 tires and wheels	368	*167*	183	*83*	185	*84*	183	*83*	185	*84*
Pintle hook, front	13	*6*	18	*8*	–5	*–2*	18	*8*	–5	*–2*
Pintle hook, rear	13	*6*	–5	*–2*	18	*8*	–5	*–2*	18	*8*
Rear steer indicator	3	*1*	0	*0*	3	*1*	0	*0*	3	*1*
Hydro–gas suspension	52	*24*	18	*8*	34	*15*	18	*8*	34	*15*
Winch roller – rear winch	93	*42*	–39	*–18*	132	*60*	129	*59*	–36	*–17*
Winch roller – front winch	93	*42*	–19	*–9*	112	*51*	109	*49*	–16	*–7*
2M auxiliary winch	19	*9*	–2	*–0.9*	21	*10*	21	*10*	–2	*–0.9*
600 ft (*182.9m*) of 3/4 in (*19mm*) wire rope on auxiliary winch	669	*303*	–88	*–40*	757	*343*	734	*333*	–65	*–30*
Air conditioning in operator's cab	315	*143*	74	*34*	241	*109*	231	*105*	84	*38*
360˚ swing lock	76	*34*	28	*13*	48	*22*	45	*20*	31	*14*
Emergency steer system	136	*62*	15	*7*	121	*55*	116	*53*	20	*9*
Fly storage brackets to boom base section for fly options	99	*45*	146	*66*	–47	*–21*	–51	*–23*	150	*68*
28.5 ft (*8.68m*) offset fly – stowed	1,291	*585*	2,237	*1 015*	–947	*–430*	–990	*–449*	2,281	*1 035*
28.5–51 ft (*8.68–15.54m*) offset fly – stowed	1,861	*844*	3,060	*1 388*	–1,199	*–544*	–1,263	*–573*	3,124	*1 417*
Floodlight to boom base section	10	*5*	23	*10*	–13	*–6*	–13	*–6*	23	*10*
60 ton (*54.4mt*) hook block at front/rear bumper	1,109	*503*	1,530	*694*	–421	*–191*	–459	*–208*	1,568	*711*
40 ton (*36.3mt*) hook ball at front/rear bumper	720	*327*	994	*451*	–274	*–124*	–298	*–135*	1,108	*462*
8.5 ton (*7.7mt*) hook ball at front/rear bumper	360	*163*	497	*225*	–137	*–62*	–149	*–68*	509	*231*
Auxiliary lifting sheave	91	*41*	257	*117*	–166	*–75*	–169	*–77*	260	*118*

Tire	Maximum Load @ 25 mph (*40.2km/h*)
23.5 x 25 (20–PR)	38,000 lb (*17 600kg*)
23.5R25 2 Star	37,500 lb (*17 010kg*)

(1) Adjust gross vehicle weight and axle loading according to component weight.
Note: All weights are ±3%.

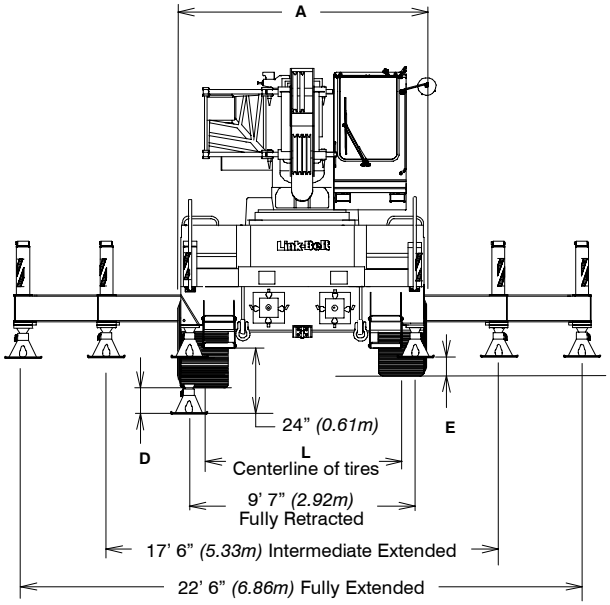
General Dimensions



Turning Radius – Front Wheel (4x2) Steering	English	*Metric*
Wall to wall over carrier	39’ 0”	*11.9m*
Wall to wall over boom	47’ 7”	*14.5m*
Wall to wall over boom attachment	49’ 7”	*15.1m*
Curb to curb	37’ 3”	*11.4m*
Centerline of tire	36’ 0”	*11.0m*

Turning Radius – All Wheel (4x4) Steering	English	*Metric*
Wall to wall over carrier	23’ 4”	*7.1m*
Wall to wall over boom	34’ 0”	*10.4m*
Wall to wall over boom attachment	35’ 6”	*10.8m*
Curb to curb	21’ 4”	*6.5m*
Centerline of tire	20’ 0”	*6.1m*

Tail Swing	English	*Metric*
With counterweight	12’ 8”	*3.9m*
Without counterweight	N/A	*N/A*

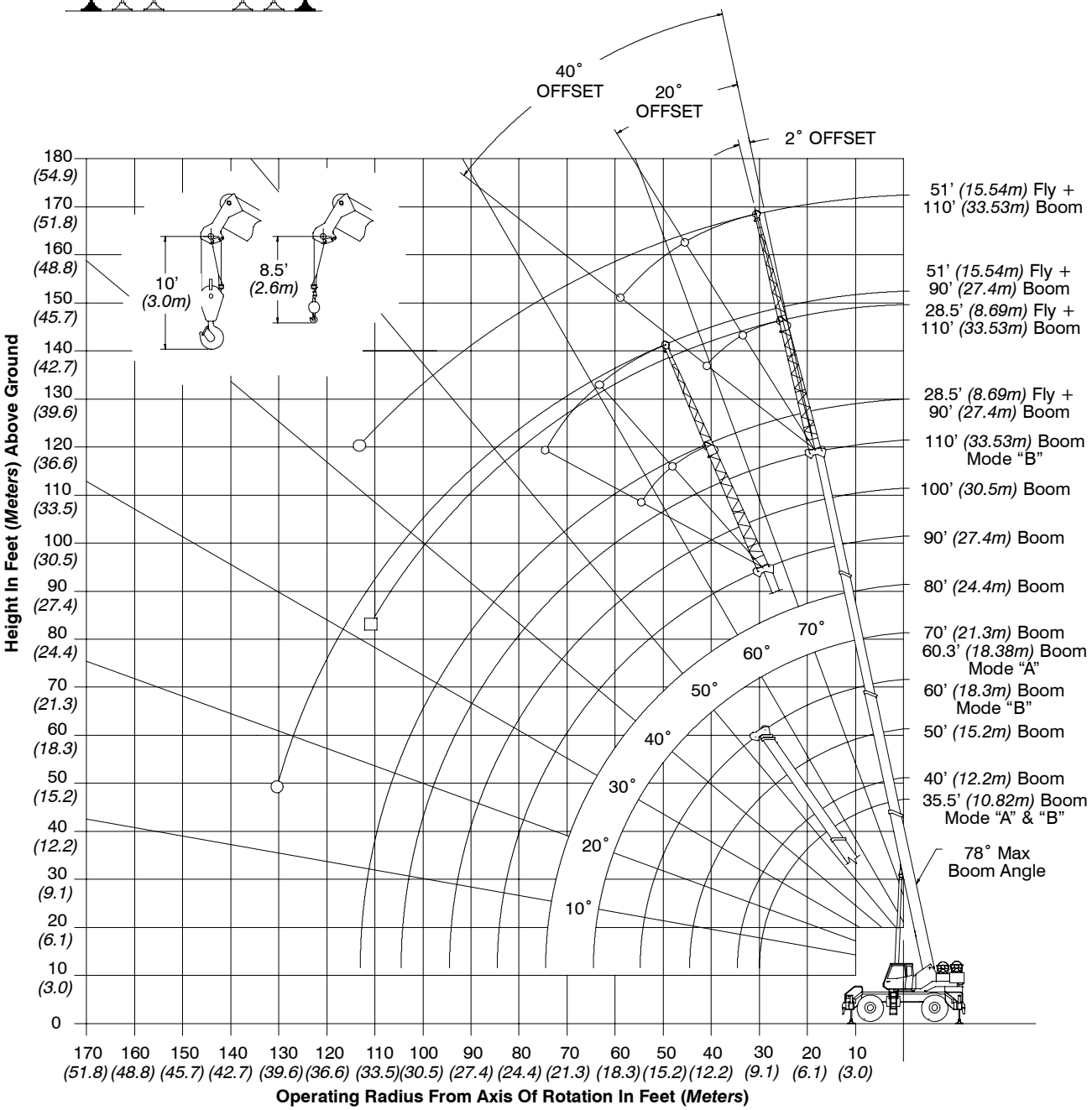


General Dimensions	Tire Size			
	23.5 x 25 bias		23.5R25 radial	
	English	*Metric*	English	*Metric*
A	10’ 3.5”	*3.14m*	10’ 3”	*3.12m*
B	6’ 7.75”	*2.03m*	6’ 9.5”	*2.06m*
C	11’ 11.75”	*3.65m*	12’ 1.5”	*3.70m*
D	7.75”	*0.20m*	7”	*0.18m*
E	10”	*0.25m*	11.75”	*0.30m*
F	10’ 0.25”	*3.05m*	10’ 2”	*3.10m*
G	7’ 6”	*2.29m*	7’ 7.75”	*2.33m*
H	24°	– –	24.8°	– –
J	21°	– –	22°	– –
K	6’ 6.75”	*1.69m*	6’ 8.5”	*1.74m*
L	8’ 3”	*2.51m*	8’ 3”	*2.51m*

Not To Scale

Working Range Diagram

Working Range Diagram On Fully Extended Outriggers

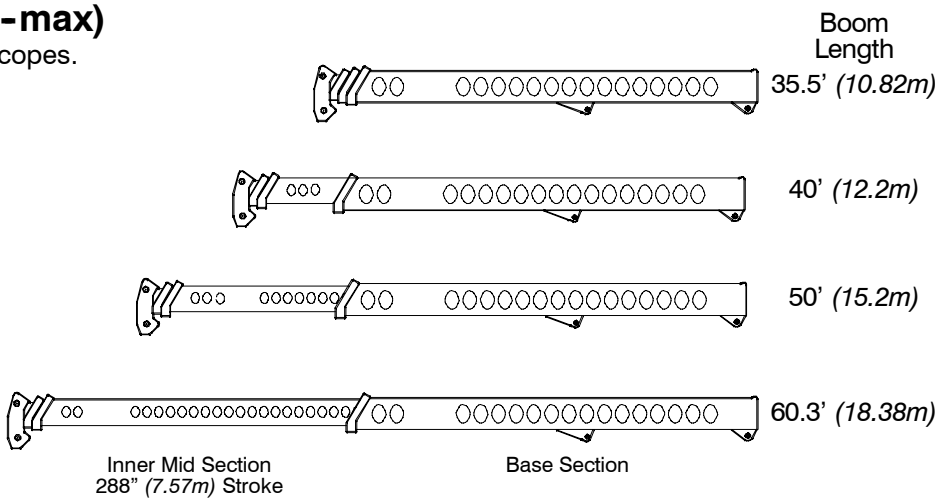


○ **Denotes Main Boom + 51' *(15.5m)* Fly – Boom Mode "B"**
□ **Denotes Main Boom + 28.5' *(8.7m)* Fly – Boom Mode "B"**

Boom Extend Modes

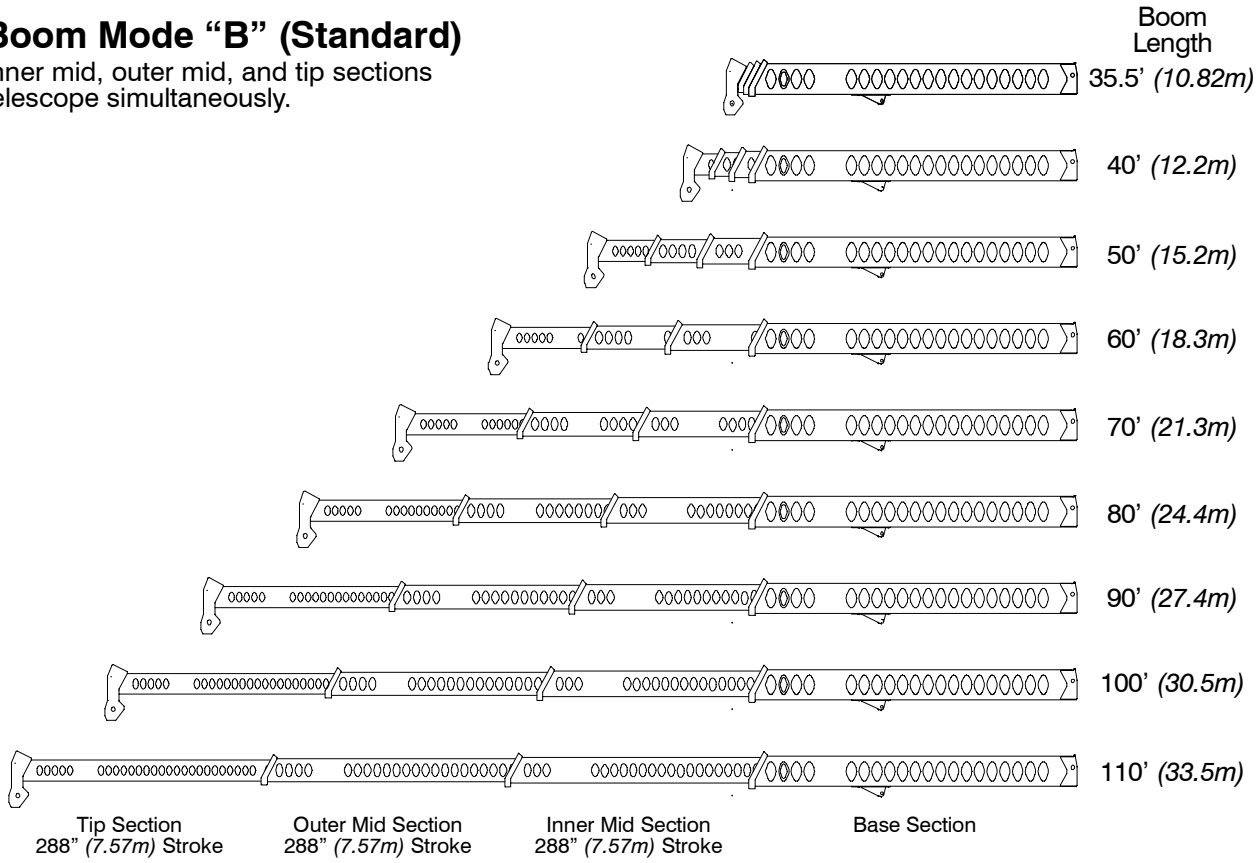
Boom Mode “A” (A-max)

Only inner mid section telescopes.



Boom Mode “B” (Standard)

Inner mid, outer mid, and tip sections telescope simultaneously.



Main Boom Lift Capacity Charts – Standard

Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

Radius (ft)	Boom Length (ft)									Radius (ft)
	35.5	40	50	60/60.3	70	80	90	100	110	
10	100,000	78,400	72,600							10
12	73,900	73,100	65,600	50,900**	37,900					12
15	63,200	63,000	57,500	46,900**	37,900	35,400				15
20	50,300	50,100	47,600	39,200**	37,900	34,700	28,900			20
25	39,000	38,900	38,500	37,900	37,900	34,200	28,200	24,000	19,500	25
30		31,300	31,900	32,300	32,500	30,300	24,800	22,500	19,500	30
35			26,100	26,500	26,700	26,900	22,000	19,900	18,300	35
40			20,800	21,200	21,400	21,500	19,700	17,800	16,400	40
45				17,100	17,300	17,400	17,500	15,900	14,600	45
50				13,900	14,200	14,300	14,400	14,400	13,200	50
55					11,900	12,100	12,200	12,200	12,100	55
60					10,000	10,200	10,300	10,300	10,400	60
65						8,600	8,700	8,800	8,900	65
70						7,300	7,500	7,500	7,600	70
75							6,400	6,500	6,500	75
80							5,400	5,500	5,600	80
85								4,700	4,800	85
90								4,000	4,100	90
95									3,500	95
100									2,900	100

* Special Conditions Or Wire Rope Required
** 60.3 A – max Mode

This information is not for crane operation. Operator must refer to the in – cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 85% of the tipping loads and on tires do not exceed 75% of the tipping loads.

On Tires -- Stationary -- Boom Centered Over Front Between Tire Tracks
(All Capacities Are Listed In Pounds)

Radius (ft)	Boom Length (ft)					Radius (ft)
	35.5	40	50	60	70	
10	47,300	47,100				10
12	41,600	41,400				12
15	35,100	35,000	35,800			15
20	27,400	27,300	28,200	28,500		20
25	21,900	21,700	22,900	23,200	23,400	25
30		16,100	16,700	17,100	17,200	30
35			12,600	12,900	13,100	35
40			9,700	10,100	10,300	40
45				7,900	8,200	45
50				6,300	6,500	50
55					5,200	55
60					4,200	60

On Tires -- Pick & Carry (Creep) -- Boom Centered Over Front
(All Capacities Are Listed In Pounds)

Radius (ft)	Boom Length (ft)					Radius (ft)
	35.5	40	50	60	70	
10	44,100	43,900				10
12	38,400	38,200				12
15	31,800	32,000	32,400			15
20	24,000	24,300	24,700	25,000		20
25	18,600	19,000	19,500	19,800	19,900	25
30		15,100	15,600	15,900	16,100	30
35			12,600	12,900	13,100	35
40			9,700	10,100	10,300	40
45				7,900	8,200	45
50				6,300	6,500	50
55					5,200	55
60					4,200	60

On Tires -- Stationary -- 360° Rotation
(All Capacities Are Listed In Pounds)

Radius (ft)	Boom Length (ft)					Radius (ft)
	35.5	40	50	60	70	
10	37,200	37,400	37,700			10
12	31,100	31,400	31,800			12
15	24,000	24,400	24,900			15
20	14,500	14,800	15,400	15,700		20
25	9,400	9,800	10,300	10,700	10,900	25
30		6,600	7,100	7,500	7,700	30
35			5,000	5,300	5,500	35
40			3,400	3,700	3,900	40
45				2,500	2,700	45

This information is not for crane operation. Operator must refer to the in – cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 85% of the tipping loads and on tires do not exceed 75% of the tipping loads.

Fly Attachment Lift Capacity Charts – Optional

Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

110 ft Main Boom Length 2° Fly Offset			110 ft Main Boom Length 20° Fly Offset			110 ft Main Boom Length 40° Fly Offset		
Radius (ft)	Fly Length (ft)		Radius (ft)	Fly Length (ft)		Radius (ft)	Fly Length (ft)	
	28.5	51		28.5	51		28.5	51
35	9,400		45	9,500		50	7,500	
40	9,400		50	9,100		55	7,300	
45	9,400	6,200	55	8,400		60	7,100	
50	9,400	6,200	60	7,800	4,800	65	6,900	
55	9,200	6,200	65	7,300	4,600	70	6,500	
60	8,500	6,200	70	6,800	4,400	75	6,100	3,400
65	7,900	6,000	75	6,400	4,300	80	5,800	3,400
70	7,300	5,700	80	6,000	4,100	85	5,500	3,300
75	6,800	5,300	85	5,700	4,000	90	5,200	3,200
80	6,200	4,900	90	5,000	3,800	95	4,600	3,200
85	5,300	4,600	95	4,300	3,700	100	3,900	3,100
90	4,600	4,300	100	3,700	3,500	105	3,300	3,100
95	4,000	4,000	105	3,200	3,300	110	2,800	3,000
100	3,500	3,800	110	2,700	3,200	115		2,900
105	3,000	3,500	115	2,300	3,000	120		2,800
110	2,500	3,000	120		2,600	125		2,400
115	2,100	2,600	125		2,200	130		2,000
120		2,200	130		1,900			

This information is not for crane operation. Operator must refer to the in – cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 85% of the tipping loads and on tires do not exceed 75% of the tipping loads.

Main Boom Lift Capacity Charts – Optional (Metric)

Fully Extended Outriggers -- 360° Rotation
(All Capacities Are Listed In Kilograms)

Radius (m)	Boom Length (m)									Radius (m)
	10.82	12.2	15.2	18.3/18.38	21.3	24.4	27.4	30.5	33.53	
2.5	50 000									2.0
3.0	45 350	35 550	33 250							3.0
3.5	34 550	34 050	30 550							3.5
4.0	31 550	31 350	28 350	23 050**	17 150					4.0
4.5	29 000	28 900	26 350	21 450**	17 150					4.5
5.0	26 750	26 700	24 650	20 200**	17 150	16 050				5.0
6.0	23 100	23 050	21 850	17 950**	17 150	15 700	13 100			6.0
7.0	19 650	19 600	19 450	17 150	17 150	15 700	13 100	10 850		7.0
8.0	16 650	16 850	17 100	17 150	16 600	15 050	12 400	10 850	8 800	8.0
9.0	13 000	14 400	14 700	14 800	14 900	13 850	11 400	10 300	8 800	9.0
10.0		11 700	12 050	12 150	12 200	12 250	10 500	9 500	8 750	10.0
12.0			8 550	8 700	8 800	8 850	8 900	8 200	7 550	12.0
14.0				6 550	6 650	6 700	6 750	6 750	6 500	14.0
16.0				5 050	5 200	5 250	5 300	5 350	5 350	16.0
18.0					4 100	4 200	4 250	4 250	4 300	18.0
20.0						3 350	3 400	3 450	3 450	20.0
22.0						2 700	2 750	2 800	2 850	22.0
24.0							2 250	2 300	2 350	24.0
26.0								1 850	1 900	26.0
28.0								1 500	1 550	28.0
30.0									1 250	30.0

* Special Conditions Or Wire Rope Required
** 18.38 A – max Mode

This information is not for crane operation. Operator must refer to the in – cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 75% of the tipping loads and on tires do not exceed 65% of the tipping loads.

On Tires -- Stationary -- Boom Centered Over Front Between Tire Tracks
(All Capacities Are Listed In Kilograms)

Radius (m)	Boom Length (m)					Radius (m)
	10.82	12.2	15.2	18.3	21.3	
3	21 700					3
3.5	19 500	19 400				3.5
4	17 650	17 600				4
4.5	16 150	16 250	16 450			4.5
5	14 800	14 950	15 150			5
6	12 650	12 750	12 950	13 100		6
7	10 150	10 300	10 550	10 650	9 900	7
8	7 900	8 100	8 350	8 450	8 500	8
9	6 300	6 500	6 750	6 900	6 950	9
10		5 350	5 600	5 750	5 800	10
12			3 950	4 100	4 200	12
14				3 000	3 050	14
16				2 200	2 300	16
18					1 700	18

On Tires -- Pick & Carry (Creep) -- Boom Centered Over Front
(All Capacities Are Listed In Kilograms)

Radius (m)	Boom Length (m)					Radius (m)
	10.82	12.2	15.2	18.3	21.3	
3	20 250					3
3.5	18 000	17 950				3.5
4	16 200	16 300				4
4.5	14 600	14 750	14 900			4.5
5	13 250	13 400	13 550			5
6	11 050	11 200	11 400	11 500		6
7	9 350	9 500	9 700	9 850	9 900	7
8	7 900	8 100	8 350	8 450	8 500	8
9	6 300	6 500	6 750	6 900	6 950	9
10		5 350	5 600	5 750	5 800	10
12			3 950	4 100	4 200	12
14				3 000	3 050	14
16				2 200	2 300	16
18					1 700	18

This information is not for crane operation. Operator must refer to the in – cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 75% of the tipping loads and on tires do not exceed 65% of the tipping loads.

On Tires – Stationary – 360° Rotation (All Capacities Are Listed In Kilograms)						
Radius (m)	Boom Length (m)					Radius (m)
	10.82	12.2	15.2	18.3	21.3	
3	17 100					3
3.5	14 750	14 900				3.5
4	11 850	12 000				4
4.5	9 700	9 850	10 050			4.5
5	8 100	8 250	8 450			5
6	5 850	6 000	6 200	6 350		6
7	4 400	4 550	4 750	4 900	4 950	7
8	3 300	3 450	3 700	3 800	3 900	8
9	2 500	2 650	2 900	3 050	3 100	9
10		2 050	2 300	2 400	2 500	10
12			1 400	1 500	1 600	12
14					1 000	14

Fly Attachment Lift Capacity Charts – Optional (Metric)

Fully Extended Outriggers – 360° Rotation (All Capacities Are Listed In Kilograms)								
33.53m Main Boom Length 2° Fly Offset			33.53m Main Boom Length 20° Fly Offset			33.53m Main Boom Length 40° Fly Offset		
Radius (m)	Fly Length (m)		Radius (m)	Fly Length (m)		Radius (m)	Fly Length (m)	
	8.69	15.54		8.69	15.54		8.69	15.54
12	4 250		14	4 250		16	3 350	
14	4 250	2 800	16	4 000		18	3 250	
16	4 250	2 800	18	3 600	2 200	20	3 100	
18	3 900	2 800	20	3 300	2 100	22	2 850	1 600
20	3 550	2 700	22	3 000	1 950	24	2 650	1 550
22	3 050	2 500	24	2 750	1 850	26	2 400	1 500
24	2 550	2 250	26	2 300	1 800	28	2 000	1 450
26	2 100	2 050	28	1 900	1 700	30	1 650	1 400
28	1 750	1 900	30	1 550	1 650	32	1 350	1 400
30	1 450	1 650	32	1 250	1 500	34	1 050	1 350
32	1 150	1 350	34	1 000	1 300	36		1 200
34	950	1 150	36	800	1 100	38		950
36		950	38		900	40		750

This information is not for crane operation. Operator must refer to the in – cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 75% of the tipping loads and on tires do not exceed 65% of the tipping loads.

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