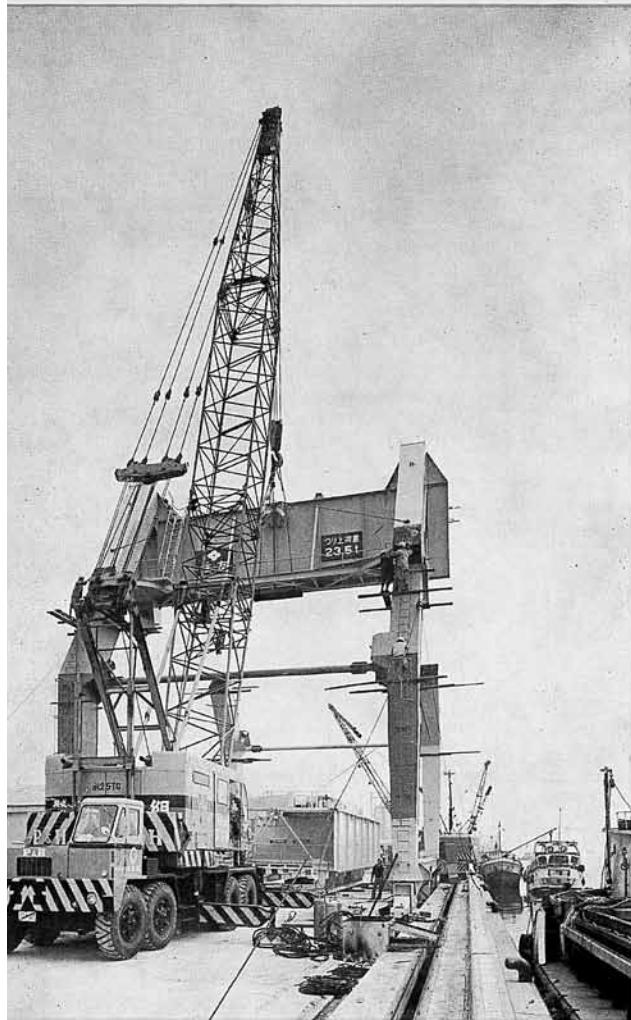


P&H 9125-TC



**P&H 127 TON
TRUCK CRANE...
THE CHAMPION
WEIGHT LIFTER
with EXTRA SAFETY,
STABILITY
and RELIABILITY**

- **Exclusive P&H Magnetorque swing** provides silk-smooth swing motor requires no adjustments, practically eliminates maintenance of swing.
- **Exclusive P&H Power Box design** completely seals all gears, provide automatic lubrication from oil bath.
- **Kobe built P&H 8 x 4 carrier** perfectly matched to P&H upper for single source service responsibility for entire rig. Frame and outriggers are T-1 steel for greatest strength.
- **Double-drum independent precision planetary boom hoist** is fast, smooth and "Triple-Safe". Standard Equipment.

- **P&H full-flow power hydraulic controls** provide easy and precise load control. Adjustment free; full-safe load holding.
- **High tensile alloy steel tubular chord boom** furnished as standard, provides greater strength for longest booms without "load-robbing" weight.
- **20 speeds forward** with 4 in reverse increase between-job mobility, provide the right gear ratio for every situation.
- **Air brakes** on all 8 wheels and Maxi-brakes are standard on rear wheels for safe, fast and effective operation.
- **Hydraulic Outriggers**, standard.

Bulletin No. KP-9125-3



KOBE STEEL, LTD.

BASIC MACHINE

UPPER MACHINERY

POWER:

Diesel: Cummins, V785-C265, 8 cyl., 221 P.S. @ 2400 rpm (torque converter drive) alternator and 24 volt starting system. (Standard)
Mitsubishi 8DC60C, 8 cyl., 230 P.S. @ 2000 rpm (torque converter drive) alternator and 24 volt starting system. (Optional Extra)

HOUR METER:

Standard (electrical).

TORQUE CONVERTER:

3 stage—with tail shaft governor, std.

FUEL TANK: Capacity 4161 (110 gal.)

THROTTLE: Twist grip control mounted on swing lever (standard).

CONTROLS: Full flow power hydraulic.

SWING UNITS: Swing motion through two magnetorque units.

CLUTCHES: Band type, internal expanding, separate clutch for each machine function.

BRAKES: (Front and rear drums)—band type external contracting—full wrap—with spring set fail safe device. (Front and rear planetary drums) band type full wrap—external contracting.

BOOM HOIST ASSEMBLY: Single internal expanding band type clutch with chain drive to boom hoist drum shaft with two drums. Automatic spring set brake and safety pawl on one drum. Planetary arrangement with external contracting brake band and latching pawl for lowering. Line speed (each drum).

Hoisting 22.3 m/min. (73.1 fpm)

Lowering 15.1 m/min. (49.5 fpm)

Boom hoist drum shaft mounted on anti-friction bearings.

MAIN DRUMS: Drums in tandem, mounted on anti-friction bearings (see separate sheets covering attachments for further details).

THIRD DRUM: Mounts on extension of front drum shaft, to the left of main drum. Does not interfere with any other machine function or front end attachment (optional extra).

GANTRY: High gantry (telescoping type) three positions power raise.

COUNTERWEIGHT: Two pieces, external (standard)*... 18,500 kg (40,700 lbs.) Additional maximum counterweight (for max. capacity)

(optional extra) 9,700 kg (21,300 lbs.)

*Removable using four hydraulic rams set in carrier frame (furnished as standard equipment).

†Removable with gantry and boom hoist.

TYPE OF FASTENING TO LOWER: Six adjustable hook rollers—one double front—two double rear.

SWING ROLLERS: 36 Rollers—Live roller circle.

SWING GEAR: Internal cut teeth 1,676 mm (66") P.D.

ROTATING SPEEDS High idle 3.86 rpm

SWING BRAKE: External band type, spring set, hydraulic release.

P&H 8 x 4 CARRIER

8 Wheels, 4 Wheel Drive, 12 Tires

WEIGHT: Including turret and hydraulic outriggers, with 14:00 x 24—20 PR. tires, jack floats, fuel 31,500 kg (69,300 lbs.) (Does not include front bumper counterweight.)

FRAME: Front section 18"-58 lb. alloy steel channel. Rear section 21" deep box section of T-1 alloy steel crossbraced and reinforced—top deck plate T-1 alloy steel. Extreme rear end consisting of vertical cylinder frame brackets and outrigger housings pin connected and removable. Rear vertical cylinder frame brackets pin connected and removable. Front bumper $\frac{1}{2}$ " plate with holes for mounting front bumper counterweight.

OUTRIGGER HOUSINGS: Fabricated independent single boxes, alloy steel plate, beam roller, rear boxes pin connected and removable.

OUTRIGGER BEAMS: Full length fabricated reinforced box section of T-1 alloy steel, screw jack at ends of beam.

Extended position from center of carrier 3.30 m (10'-10")

HYDRAULIC OUTRIGGERS: Total of 8 double acting hydraulic cylinders provide independent horizontal and vertical motion of each beam, solenoid valve controlled.

POWER PLANT: Cummins, NS-743-B320, 6 cyl. 320 PS @ 2,100 rpm with 24 volt starter—24 volt alternator.

RADIATOR: Vertical flat tube and fin type core, thermostatic temperature control, cooling system capacity..... 45.8 L (48.4 qts.)

FUEL TANK CAPACITY: 284 L (75 gals.)

CLUTCH: Lipe-Rollway, 355 mm (14") double plate.

TRANSMISSIONS: Main transmission: Fuller, T090SF, 5 speeds forward plus reverse.

Auxiliary transmission: Spicer, 834ID, 4 speed.

BRAKES—SERVICE: Maxi-brakes on 4 rear wheels—shoe type—air on all 8 wheels—total lining area 11.56 cm² (1,792 sq. in.)

Maxi-brakes—the Maxi-brake is a spring loaded safety brake for the rear wheels which is normally kept in the "off" position by the pressure in the air reservoir. If for any reason pressure drops, the brake applies automatically to stop the vehicle. It provides normal driver control through the foot treadle valve and also has a dash mounted valve manually controlled which can be used for emergency application in the event of air line failure to the brake chamber, and can be used as a parking brake.

FRONT AXLES: 18,200 kg (40,000 lbs.) tandem capacity.

REAR AXLE UNIT: Timken-Detroit Model PR400 planetary axle single reduction at axle center and planetary drive at wheel hubs to 4 sets of dual wheels, with interaxle differential.

SUSPENSION:

Front: Alloy steel semi-elliptic leaf type springs with two torsion bars.

Rear: Torque rods and underhanging bogie beams.

STEERING GEAR:

Hydraulic booster assist.

STEERING WHEEL:

533 mm (21") dia.

TIRES: Twelve 14:00 x 24—20 PR, on and off highway type standard (with tube and flap and high temperature valve cores).

CAB: Steel—one man type—offset left side of engine—safety glass.

LIGHTS: Headlights, tail lights, stop lights, directional signal lights front and rear, license plate light, clearance lights on sides and truck cab, clearance lights also furnished on crane cab, reflectors on rear, headlights, license plate, front directionals and clearance lights recessed, rear directionals protected by metal guard, dome light in cab, low air pressure warning light, illuminated speedometer and gage cluster, two recessed weatherproof cable sockets for upper lighting in transit—24 volt lighting system.

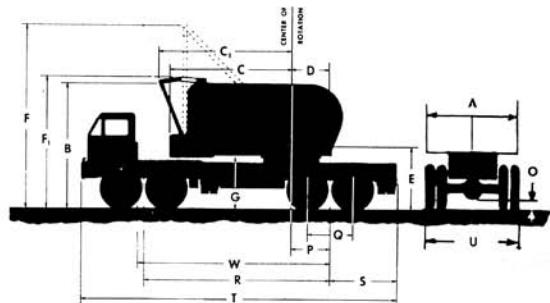
EQUIPMENT: Front bumper, full fenders, skirts, running boards, hood, rigging compartments, leatherette cushion seat, two 12 volt batteries, horn, rear view mirrors, electrical windshield wiper, reserve air tank with hose extension and tire inflating valve, air controlled safety device to prevent movement of carrier until air pressure is sufficient to release Maxi-brakes, illuminated instrument panel with speedometer ammeter, oil pressure gage, fuel gage, water temperature indicator, low air pressure indicator light, engine tachometer, starter button, front and rear tow hooks, metal tool box 20 ton jack, lug wrench, and 4 aluminum outrigger floats.

PERFORMANCE

(Based on Cummins NS-743B-320 Diesel Engine)

CONDITION	SPEED RANGES	% GRADE
*On Highway.....	to 64.8 km/hr. (40.3 mph).....	to 13.5
†Off Highway	to 21.9 km/hr. (13.6 mph).....	to 25.6

*Auxiliary transmission in high range.
 †Auxiliary transmission in low range.



GENERAL DIMENSIONS

A — Width of cab	3,300 mm (10'-10")
B — Height to top of cab	3,950 mm (12'-11½")
C — Radius of rear end (counterweight)	4,480 mm (14'-8½")
C1 — Radius of rear end (gantry lowered)	5,600 mm (18'-4")
D — Center of rotation to boom foot pin	1,320 mm (4'-4")
E — Height from ground to boom foot pin	2,220 mm (7'-3½")
F — Clearance height over gantry (raised)	7,140 mm (23'-5")
F1 — Clearance height over standard gantry (lowered)	4,000 mm (13'-1")
G — Counterweight ground clearance	1,580 mm (5'-2½")
O — Min. ground clearance	300 mm (0'-11½")
P — Center of rotation to center rear bogie	1,070 mm (3'-6")
Q — Distance between axles (Front and rear)	1,525 mm (5'-0")
R — Wheelbase.....	5,840 mm (19'-2")
S — Center of rear bogie to rear of carrier.....	2,240 mm (7'-4")
T — Overall length of carrier (with outriggers and without front bumper counterweight)	10,020 mm (32'-10½")
U — Overall width of carrier	3,370 mm (11'-0¾")
V — Turning circle (min.) radius	11,800 mm (38'-9")
W — Back of truck cab to center of rear bogie	5,830 mm (19'-1½")

CRANE SPECIFICATIONS

GENERAL DATA

BOOM—HEAVY-DUTY:

Tubular high tensile alloy steel chords, lattice construction, pin connected.
Extendible up to 67.06 m (220 ft.)
Length—boom base section 7.62 m (25 ft.)
—boom tip section 7.62 m (25 ft.)
Open throat, cross section 1.75 m² (69" sq.) with five boom
point sheaves offset from centerline, on antifriction bear-
ings, pitch diameter 613 mm (24½")

BOOM—LIGHT DUTY:

Tubular high tensile alloy steel chords, lattice construction, pin connected.
Extendible up to 82.30 m (270 ft.)
Length—boom base section 7.62 m (25 ft.)
—boom tip section 9.14 m (35 ft.)
Open throat, cross section 1.75 m² (69" sq.) with three boom
point sheaves offset from centerline, on antifriction bear-
ings, pitch diameter 613 mm (24½")

BOOM—HAMMERHEAD:

Tubular high tensile alloy steel chords, lattice construction, pin connected.
Extendible up to 60.96 m (200 ft.).
Length—boom base section 7.62 m (25 ft.)
—boom tip section 4.57 m (15 ft.)
(Limited to use with up to maximum of 60.96 m (200 ft.) boom)
Hammerhead arrangement, cross section 1.75 m² (69" sq.)
with seven boom point sheaves on anti-friction bearings,
pitch diameter 613 mm (24½")

BOOM HOIST REEVING:

12 parts of line—spreader sheaves on anti-friction bearings,
pitch diameter 325 mm (12½")

HOOK BLOCK:

Three sheave with safety swivel hook and five part hoist line, standard.

POWER CONTROLLED LOAD LOWERING:

Planetary device for lowering loads under power control.
Standard on front and rear drums.

GANTRY:

High gantry, telescoping type—three position—power raised, standard.
Mast gantry, boom foot type—required for machines equipped with booms
70.10 m (230 ft.) and over optional extra.

WORKING WEIGHT:

Basic crane (including heavy duty boom and block) approx. 75,000 kg
(165,000 lbs.)

Counterweight (included in working weight)
furnished as standard 18,500 kg (40,700 lbs.)

Additional counterweight for maximum crane rating to be used
only with outriggers fully extended) optional extra 9,700 kg (21,300 lbs.)
Front bumper counterweight (2 pcs.) (required for booms 70.10 m
(230 ft.) and longer) (optional extra) 13,800 kg (30,400 lbs.)

CRANE RATED LOADS in Kgs. (Lbs.)—LIGHT DUTY BOOM WITHOUT OUTRIGGERS

Oper. Red. in m (ft.)	12.19 m (40') Boom				15.24 m (50') Boom				18.29 m (60') Boom				21.34 m (70') Boom				24.38 m (80') Boom				27.43 m (90') Boom				30.48 m (100') Boom				33.53 m (110') Boom				36.58 m (120') Boom				39.62 m (130') Boom			
	Over Side	Over Rear	Over Side	Over Rear	Over Side	Over Rear	Over Side	Over Rear	Over Side	Over Rear	Over Side	Over Rear	Over Side	Over Rear	Over Side	Over Rear	Over Side	Over Rear	Over Side	Over Rear	Over Side	Over Rear	Over Side	Over Rear	Over Side	Over Rear	Over Side	Over Rear	Over Side	Over Rear	Over Side	Over Rear	Over Side	Over Rear						
3.66 (12)	50349 (11000)	55339 (12200)	50122 (11050)	55112 (121500)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4.57	36968 (81500)	41051 (90500)	36832 (81200)	40914 (90200)	36696 (89900)	40778 (89900)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6.10 (20)	25129 (55400)	28168 (62100)	24993 (55100)	28032 (61800)	24857 (54800)	27896 (61500)	24812 (54700)	27851 (61400)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7.62 (25)	18870 (41600)	21274 (46900)	18734 (41300)	21138 (46600)	18597 (41000)	21002 (46300)	18552 (40900)	20956 (46200)	18461 (40700)	20865 (46000)	18371 (40500)	20729 (45700)	18235 (40200)	20639 (45500)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9.14 (30)	14969 (33000)	16965 (37400)	14883 (32700)	16328 (37100)	14697 (32400)	16692 (36800)	14651 (32300)	16647 (36700)	14606 (32200)	16556 (36500)	14470 (31900)	16466 (36300)	14334 (31600)	16329 (36000)	14198 (31300)	16193 (35700)	14062 (31000)	16012 (35300)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10.67 (35)	12338 (27200)	14016 (30900)	12202 (26900)	13880 (30600)	12066 (26600)	13744 (30300)	12020 (26500)	13699 (30200)	11930 (26300)	13653 (30100)	11839 (26000)	13517 (29800)	11703 (25800)	13381 (29500)	11567 (25500)	13245 (29200)	11385 (25100)	13109 (28900)	11143 (25200)	13109 (28900)		
12.19 (40)	10433 (23000)	11884 (26200)	10297 (22700)	11748 (25900)	10161 (22400)	11612 (25600)	10070 (22200)	11567 (25400)	10024 (21800)	11521 (25100)	9888 (21800)	11385 (25000)	9752 (21500)	11249 (24800)	9616 (21200)	11113 (24500)	9480 (20900)	10977 (24200)	9526 (21000)	10977 (24200)		
13.72 (45)	...	...	8845 (19500)	10161 (22400)	8709 (19200)	10024 (21100)	8618 (19000)	9934 (18900)	8573 (18800)	9888 (18600)	8437 (18400)	9752 (18200)	8301 (18000)	9616 (18000)	8165 (17800)	9480 (17600)	8029 (17400)	9344 (17200)	8074 (17000)	9389 (17000)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15.24 (50)	...	...	7711 (17000)	8891 (16700)	7575 (16700)	8754 (16300)	7484 (16500)	8664 (16400)	7439 (16000)	8618 (16100)	7303 (16100)	8482 (16000)	7167 (16100)	8346 (16000)	7031 (16000)	8210 (15800)	6895 (15800)	8074 (15800)	6940 (15200)	8119 (15300)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18.29 (60)	...	...	...	5942 (13100)	6895 (15200)	5851 (12900)	6804 (15000)	5761 (12700)	6713 (14800)	5625 (14200)	6623 (14300)	5489 (11800)	6486 (14000)	5352 (11500)	6350 (13700)	5216 (11600)	2018 (13700)	5262 (13700)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21.34 (70)	4672 (10300)	5534 (12200)	4581 (10100)	4467 (10200)	5307 (10000)	4331 (9850)	5171 (9550)	4195 (9400)	5035 (9520)	4059 (9100)	4892 (8950)	4082 (8950)	2080 (10800)	4082 (9000)	4082 (10800)	4082 (10800)	4082 (10800)	
24.38 (80)	3741 (8250)	4467 (9850)	3405 (9750)	4331 (9550)	3493 (7700)	4218 (7400)	3357 (7400)	4082 (7400)	3197 (7400)	3923 (7400)	3221 (7400)	3946 (7400)		
27.43 (90)	2970 (6550)	3605 (7950)	2834 (6250)	3469 (7650)	2698 (5950)	3333 (7350)	2540 (5600)	3197 (7050)	2562 (5650)	3197 (7050)	
30.48 (100)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

For all operating conditions and instructions refer to notes under main rating plate.

MAXIMUM BOOM LENGTHS MACHINE CAN LIFT OFF GROUND in m (Ft.)

with Standard 18,500 kg (41,000 Lbs.) Counterweight

	WITH OUTRIGGERS		WITHOUT OUTRIGGERS	
	Boom Only	Boom & Jib	Boom Only	Boom & Jib
Side	60.96 (200)	54.86 & 15.24 (180 & 50)	39.62 (130)	33.53 & 9.14 (110 & 30)
Rear	67.06 (220)	60.96 & 18.29 (200 & 60)	39.62 (130)	36.58 & 6.10 (120 & 20)
	Rear Only with Required Bumper Counterweight	76.20 & 18.29 (250 & 60)		

Crane Laggings (Smooth) (P.D.)	Cable Dia.	Max. Cable Capacity	*Line Pulls		*Line Speeds
			6.10 m (20')	9.14 m (30')	12.19 m (40')
Front—533 mm (21")	26 mm (1")	297 m (975')	12,200 kg (26,840 lbs.)	12,200 kg (26,840 lbs.)	57.3 m/min. (175 F.p.m.)
Rear—533 mm (21")	26 mm (1")	297 m (975')	12,640 kg (27,810 lbs.)	12,640 kg (27,810 lbs.)	57.3 m/min. (175 F.p.m.)

*Line pulls and speeds based on single line and first layer of rope and engine at full load speed.

DRUM SHAFT ASSEMBLY

Offset Angle Jib to Boom under Full Load	6.10 m (20')	9.14 m (30')	12.19 m (40')	15.24 m (50')	18.29 m (60')
10°	10,730 (23,660)	7,150 (15,800)	5,720 (12,000)	4,650 (10,300)	4,830 (8,400)
20°	8,950 (19,700)	6,440 (14,200)	5,180 (11,400)	4,150 (9,200)	3,500 (7,700)
30° Max	8,220 (18,100)	6,080 (13,400)	4,820 (10,000)	3,930 (8,700)	3,320 (7,300)

Jib crane rating at any radius from center of rotation is the same rating as for main boom when operated at the same radius, but not to exceed maximum jib ratings shown. For bucket ratings on jib deduct 20% from jib ratings. Maximum jib operating radius not to exceed length of main boom on which it is being used. Use of outriggers recommended when boom is equipped with jib.

Ratings Over Side and Rear—Outriggers Fully Extended

RATED CRANE LOADS IN KILOGRAMS—MAIN BOOM

Gross crane ratings shown are for units with 925 kg. additional counterweight and do not exceed 85% tipping loads. Ratings are based on outriggers extended to a fulcrum point 3.30 m from center of carrier. Areas on plate where no ratings are shown, operation is not intended or approved. Ratings above heavy line require use of 5 shear plane point (4.57 m or 7.62 tip section). Ratings below heavy line are based on 10.67 m tip section and must be reduced 45.5% when using 7.62 t tip section and 910 kg. when using 4.57 m hammer head tip section. The maximum rating for 10.67 m tip section with 3 sheaves is 68040 Kg. Maximum allowable boom length to use with 4.57 m hammerhead pt. is 60.96 m. Boom lengths 66.01 m and over to develop the ratings shown require a 10.67 m tip section with a (2) shear point, boom

root mast, center hitch, and an insert arrangement as shown in the core and operation manual. Ratings on outriggers apply to all notes and instructions not covered by this rating plate. Ratings at radii of 6.10 m or less and ratings marked * are based on strength of materials.

NOTE: Additional 9555 kg. counterweight to be used with machine on outriggers only. Machine with additional 9525 kg. Counterweight will not be stable if outriggers are retracted and upper is revolved over the side.

**Maximum Counterweight of 62,000 lbs.
Ratings Over Side and Rear — Outriggers Fully Extended**

RATED CRANE LOADS IN POUNDS — MAIN BOOM

Oper. Rad. Ft.	Oper. Rad. Ft.	40 Ft. Boom Rating Lbs.	50 Ft. Boom Rating Lbs.	60 Ft. Boom Rating Lbs.	70 Ft. Boom Rating Lbs.	80 Ft. Boom Rating Lbs.	90 Ft. Boom Rating Lbs.	100 Ft. Boom Rating Lbs.	110 Ft. Boom Rating Lbs.	120 Ft. Boom Rating Lbs.	130 Ft. Boom Rating Lbs.	140 Ft. Boom Rating Lbs.	150 Ft. Boom Rating Lbs.		
12	82	48'-2"	280000	81	58'-0"	280000	80	67'-8"	220500	79	77'-6"-10"	174000	75	66'-8"	
15	78	47'-5"	185000	78	57'-6"	220800	80	67'-8"	173700	79	77'-6"-10"	129400	73	75'-8"	
20	71	46'-1"	18500	72	56'-3"	174300	75	66'-8"	128500	77	96'-4"	128500	78	105'-10"	
30	55	40'-11"	107500	60	52'-1"	104600	65	63'-1"	104300	71	84'-3"	103200	75	104'-3"	
35	45	36'-4"	86500	53	48'-8"	86200	59	60'-1"	85300	67	82'-3"	85000	72	103'-10"	
40	34	30'-3"	74900	45	44'-0"	74800	59	59'-8"-8"	73700	67	91'-6"	73400	69	102'-1"	
45	—	—	—	36	37'-10"	63700	47	52'-6"	63400	55	66'-0"	62800	63	88'-10"	
50	—	—	—	24	28'-8"	55050	40	47'-1"	54750	49	61'-5"	54450	55	74'-2"	
60	—	—	—	—	—	—	—	—	42150	52	79'-8"	42450	46	66'-2"	
70	—	—	—	—	—	—	—	20	32'-2"	32320	35	54'-5"	34900	43	70'-6"
80	—	—	—	—	—	—	—	19	34'-5"	29350	32	56'-2"	29050	41	74'-2"
90	—	—	—	—	—	—	—	—	—	17	35'-10"	24750	31	59'-11"	
100	—	—	—	—	—	—	—	—	—	17	37'-6"	20030	30	63'-5"	
110	—	—	—	—	—	—	—	—	—	16	38'-10"	17500	28	64'-8"	
120	—	—	—	—	—	—	—	—	—	15	39'-3"	15100	27	67"-2"	
130	—	—	—	—	—	—	—	—	—	15	41'-9"	13100	15	70'-9"	
140	—	—	—	—	—	—	—	—	—	14	42'-1"	12800	13	70'-2"	
150	—	—	—	—	—	—	—	—	—	14	44'-5"	11400	12	71'-9"	
200	—	—	—	—	—	—	—	—	—	14	44'-5"	1860	11	123'-6"	

Oper. Rad. Ft.	Oper. Rad. Ft.	160 Ft. Boom Rating Lbs.	170 Ft. Boom Rating Lbs.	180 Ft. Boom Rating Lbs.	190 Ft. Boom Rating Lbs.	200 Ft. Boom Rating Lbs.	210 Ft. Boom Rating Lbs.	220 Ft. Boom Rating Lbs.	230 Ft. Boom Rating Lbs.	240 Ft. Boom Rating Lbs.	250 Ft. Boom Rating Lbs.	260 Ft. Boom Rating Lbs.	270 Ft. Boom Rating Lbs.	
40	77	164'-4"	71300	78	174'-11"	71000	79	185'-10"	59200	78	204'-2"	50550	77	213'-4"
45	75	163'-2"	60400	76	173'-8"	60100	75	184'-2"	58500	78	194'-4"	49250*	78	223'-9"
60	69	158'-0"	51750	74	172'-4"	51450	75	183'-5"	50850	75	203'-1"	38550	75	211'-6"
70	66	154'-3"	38750	67	169'-4"	39450	72	179'-9"	31500	71	197'-10"	31300	72	208'-4"
80	62	150'-1"	23500	66	165'-2"	32200	69	177'-8"	31900	70	187'-2"	25750	69	194'-2"
90	58	144'-2"	22650	60	167'-2"	22350	67	183'-1"	22650	65	202'-4"	21150	66	205'-4"
100	53	136'-4"	18200	56	148'-4"	17900	58	161'-2"	17600	60	173'-2"	17000	64	186'-3"
120	44	119'-9"	16000	52	142'-8"	15700	54	154'-2"	15400	56	166'-3"	14800	60	190'-4"
130	38	106'-10"	13900	47	133'-0"	13600	50	146'-7"	13300	53	157'-6"	12700	57	181'-10"
140	32	93'-2"	10800	37	110'-11"	110500	41	120'-20	11000	51	163'-10"	10700	55	188'-10"
150	24	73'-5"	8380	31	96'-1"	80800	36	114'-4"	9600	47	155'-0"	9600	50	169'-4"
160	13	44'-1"	7500	24	77'-7"	7500	30	98'-5"	6600	42	149'-1"	7180	46	157'-7"
170	—	—	—	13	46'-4"	6170	23	78'-9"	5870	29	102'-0"	5570	34	120'-4"
180	—	—	—	—	—	4660	22	79'-6"	4360	33	122'-10"	4060	32	125'-1"
190	—	—	—	—	—	3840	22	83'-4"	3540	28	107'-0"	3240	27	108'-4"
200	—	—	—	—	—	—	12	49'-9"	2930	21	83'-6"	2630	20	83'-6"
230	—	—	—	—	—	—	—	—	230	31	126'-10"	2030	35	146'-1"
230	—	—	—	—	—	—	—	—	1730	39	165'-10"	1730	31	175'-1"

Gross crane ratings shown are for units with 21000 lbs. additional counterweight and do not exceed 85% tipping loads. Ratings are based on outriggers extended to a fulcrum point 10'-10" from center of carrier. Areas on plate where no ratings are shown, operation is not intended or approved. Ratings above heavy line require use of 5' shear plane (15 ft. or 41 ft. tip section) and must be reduced 1000 lbs. when using 15 ft. hammerhead tip section. The maximum rating for the 35 ft. tip section is 2000 lbs. Maximum allowable boom length to use with 3 ft. sheave point, boom foot mast, lengths 230 ft. and over to develop the ratings shown require a 35 ft. tip section with a (2) sheave point, boom foot mast, counterweight installed will not be stable if outriggers are retracted and upper is revolved over the side.

center hitch, front bumper counterweight and an inset arrangement as shown in the care and operation manual. Ratings on outriggers apply to lifts over sides and rear only. Maximum boom and jib with front bumper counterweight: 270 ft. boom and 60 ft. jib. Refer to standard rating plate for all notes and instructions not covered by this rating plate. Ratings at radii of 20 ft. or less and ratings marked * are based on strength of materials. NOTE: Additional 21,000 lbs. counterweight installed will not be stable if outriggers are retracted and upper is revolved over the side.

**Ratings Over Side and Rear — Outriggers Fully Extended
With Standard 18,600 kg Counterweight**

RATED CRANE LOADS IN KILOGRAMS—MAIN BOOM

Oper. Rad. M.	12.19 m Boom Kg.	15.24 m Boom		18.29 m Boom		21.34 m Boom		24.38 m Boom		27.43 m Boom		30.48 m Boom		33.53 m Boom		36.58 m Boom		39.62 m Boom	
		Boom Rating Pt. El. Kg.																	
3.66	82	14.67	127000	81	17.98	127000	95485	80	20.62	95255	80	23.42	74800	77	23.42	74800	77	23.42	74800
6.10	71	14.45	104555	78	17.53	74935	75	20.32	74800	77	23.42	74800	77	23.42	74800	77	23.42	74800	
7.62	63	13.36	54840	66	16.56	54705	70	19.84	54570	73	23.06	54430	75	26.16	54295	77	29.36	54160	
10.67	55	12.47	40735	55	19.23	40460	55	22.58	40325	57	25.68	40055	75	28.85	39815	77	35.28	39780	
12.19	34	9.22	26445	45	11.07	32025	53	14.83	31880	59	18.31	31750	64	21.57	31480	70	28.38	31345	
13.72	34	8.74	24435	45	11.53	26310	54	17.41	26175	59	20.93	26055	64	24.59	25900	67	27.89	25765	
15.24	34	8.45	22435	45	11.53	22455	55	20.12	22180	59	23.55	22045	63	26.27	21910	66	33.23	21535	
18.29	34	8.16	19380	40	14.35	19255	49	18.72	19120	55	20.55	18985	60	22.47	18710	65	33.92	18545	
21.34	34	7.87	17380	40	14.35	17255	49	18.72	17120	55	20.55	16985	60	22.47	16710	65	33.92	16445	
24.38	34	7.58	15380	40	14.35	15255	49	18.72	15120	55	20.55	14895	60	22.47	14620	65	33.92	14380	
30.48	34	7.29	10380	40	14.35	10255	49	18.72	10120	55	20.55	9845	60	22.47	9570	65	33.92	9180	
33.53	34	7.00	8380	40	14.35	8255	49	18.72	8120	55	20.55	7845	60	22.47	7570	65	33.92	7130	
36.58	34	6.71	6380	40	14.35	6255	49	18.72	6120	55	20.55	5645	60	22.47	5370	65	33.92	4980	
39.62	34	6.42	4380	40	14.35	4255	49	18.72	4120	55	20.55	3645	60	22.47	3370	65	33.92	2980	
42.67	34	6.13	2380	40	14.35	2255	49	18.72	2120	55	20.55	1545	60	22.47	1250	65	33.92	1080	

OUR FACES

Operating radius is horizontal distance from centerline of rotation to a vertical line through the gravity center of the load. Gross crane ratings shown are for units mounted on P&H crane carrier with dual front and rear axles and do not exceed 85% of tipping loads. Ratings at radii of 6.10 m or less are based on strength of materials. The crane ratings include weight of hook, block, slings, and all other load handling accessories. Ratings with outriggers are based on outriggers extended to a fulcrum point 3.30 m from center of carrier. Ratings without outriggers depend upon proper inflation, capacity, and condition of tires. Areas on plate where no ratings are shown, operation is not intended or approved. Ratings are contingent upon the machine being equipped with the proper P&H boom.

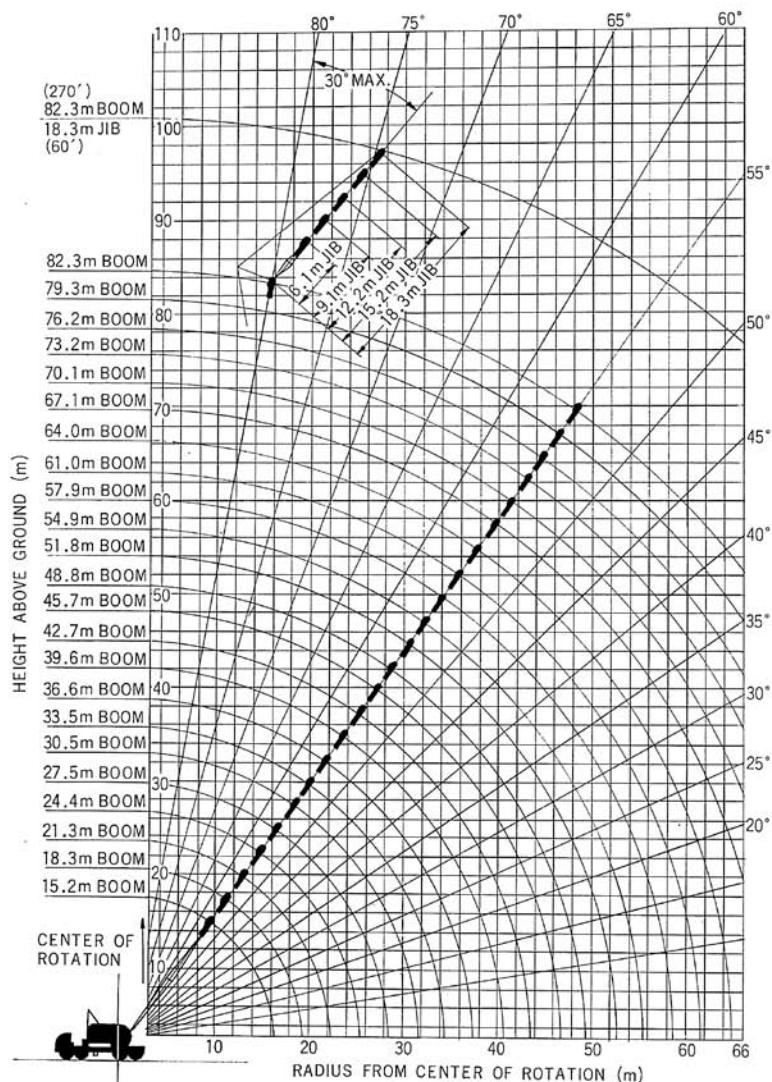
re a 10.67 m tip section with a (2) sheave point, boom foot mast, center hitch, front pump counterweight and an attachment as shown in the care and operation manual. Ratings recommended for all boom lengths. Ratings are contingent upon freely suspended loads, machine standing level and uniformly supporting surface. Safe loads depend upon ground conditions, boom length, radius of operation and proper handling, all of which must be taken into account by the user. Ratings on outriggers apply to lifts over .15 m and rear only.

boom is equipped with job main hook ratings should be reduced by 455 kg. for 6.10 m, 680 kg. for 9.14 m jib, 10.55 kg. for 12.19 m jib, 1035 kg. for 15.24 m and 1360 kg. for 18.29 m jib section. Elevations and angles on boom sections for the 4.57 m tip section. Elevations and angles on the 10.67 m tip sections. When using the 4.57 m hammered tip elevation, boom lengths of 15.24 m thru 60.96 m add 2° to the boom angle and .61 m to the boom point elevation. Other ratings also.

able boom length to use with 4.5 m hammerhead pt. is 60.96 m. Boom lengths \geq 10 m and over to develop the ratings

HOIST REEVING

No. of Parts of Line	1	2	3	4	5	6	7	8	9	10
Maximum Load in Kg (Lbs.)	12,610 (27,800)	25,220 (55,600)	37,830 (83,400)	50,440 (111,200)	63,050 (139,000)	75,660 (166,800)	88,270 (194,600)	100,880 (222,400)	113,400 (250,000)	127,000 (280,000)



P&H

**Higher Production Capacities
Lower Operating Costs**

Data published herein are statistical and for information only. Performance may vary with the conditions encountered.
Kobe Steel, Ltd. reserves the right to make changes in specifications without advance notice.

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