

CRANE 27.2 Metric Ton SPECIFICATIONS

P&H CRANE ATTACHMENT

The P&H boom has lattice-type, all-welded construction of high strength alloy steel which provides the strongest crane boom available with the lowest relative weight.

- The P&H open-throat design provides greater load clearance. Boom point sheaves ride on bronze sleeve bearings for longer wear.
- Booms feature an "offset" head for added clearance factor which gives increased lifting height for each boom length.
- P&H bolt connections permit fast, easy erection and takedown.

GENERAL DATA

BOOM: Angle lattice alloy steel construction.
 Basic length, open throat and bolt connected in two equal sections 9.14m (30')
 With two offset boom point sheaves on bronze sleeve bearings, bottom diameter 451mm (17 3/4")
 12 part boom hoist reeving, standard.

HOOK BLOCK: 27.2 tons
 One sheave with swivel hook for 1-3 part hoist line.
 Four & five part hoist line standard.

POWER CONTROLLED LOAD LOWERING: Planetary device for lowering load under power (left hand grooved drum), optional extra.

GANTRY: High gantry folding type.

WORKING WEIGHT: (including block) 27,300 kg (60,200 lbs.)
 (6,900kg (15,200lbs.) counterweight included in weight, furnished as standard.)

DRUM SHAFT ASSEMBLY

**Lifting Crane Drums	Cable Dia.	Max. Cable Capacity	*Line Pulls	*Line Speeds
L.H. 400 mm (15 3/4") P.D.	20mm (3/4")	130 m (430 ft)	7,450 kg (16,400 lbs)	48 m/min (157 fpm)
R.H. 400 mm (15 3/4") P.D.	20mm (3/4")	130 m (430 ft)	7,450 kg (16,400 lbs)	48 m/min (157 fpm)

*Line pulls and line speeds based on single line in normal operating (2nd) gear, to fit job requirements, line pull and line speed can be varied by shifting into other gears.

**L.H. grooved drum (crane with power lowering); R.H. grooved drum.

GROUND PRESSURES

Shoe Width in Inches	590mm (24)	760mm (30)
Lbs. per Sq. Inch	0.56kg/cm ² (8.0)	0.45kg/cm ² (6.4)

MODEL 325 CRANE RATING IN KG (LBS.)

Radius in Meters (Feet)	9.14m (30') Boom		12.19m (40') Boom		15.24m (50') Boom		18.29m (60') Boom		21.34m (70') Boom		24.38m (80') Boom		27.43m (90') Boom		30.48m (100') Boom	
	Over Side	Over End	Over Side	Over End	Over Side	Over End	Over Side	Over End	Over Side	Over End	Over Side	Over End	Over Side	Over End	Over Side	Over End
3 (9.84)	24,700 (54,340)	27,220 (60,000)	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3.5 (11.50)	19,200 (42,740)	22,150 (48,730)	19,120 (42,060)	22,070 (48,550)	...	...	...	...	...	...	...	...	...	...	...	...
4 (13.12)	15,600 (34,320)	17,780 (39,120)	15,520 (34,140)	17,700 (38,940)	15,440 (33,970)	17,620 (38,760)	...	...	...	...	...	...	...	...	...	...
4.5 (14.70)	13,100 (28,820)	14,860 (32,890)	13,020 (28,640)	14,760 (32,520)	12,940 (28,470)	14,700 (32,340)	12,860 (28,290)	14,620 (32,160)	...	...	...	...	...	...	...	...
5 (16.40)	11,300 (24,860)	12,720 (27,980)	11,220 (24,680)	12,640 (27,810)	11,140 (24,510)	12,560 (27,630)	11,060 (24,330)	12,480 (27,460)	10,980 (24,160)	12,400 (27,280)	...	...	...	...	...	...
6 (16.98)	8,760 (19,320)	9,830 (21,630)	8,700 (19,140)	9,750 (21,450)	8,620 (18,960)	9,670 (21,270)	8,540 (18,790)	9,590 (21,100)	8,460 (18,610)	9,510 (20,920)	8,380 (18,440)	9,430 (20,750)	...	...	...	...
7 (22.96)	7,160 (15,750)	7,960 (17,510)	7,080 (15,580)	7,880 (17,340)	7,000 (15,400)	7,800 (17,160)	6,920 (15,220)	7,720 (17,000)	6,840 (15,050)	7,640 (16,810)	6,760 (14,870)	7,560 (16,630)	6,680 (14,700)	7,480 (16,460)	6,600 (14,520)	7,400 (16,280)
8 (26.24)	6,010 (13,220)	6,650 (14,630)	5,930 (13,050)	6,570 (14,450)	5,850 (12,870)	6,490 (14,280)	5,770 (12,690)	6,410 (14,100)	5,650 (12,520)	6,330 (13,930)	5,610 (12,340)	6,250 (13,750)	5,530 (12,170)	6,170 (13,570)	5,450 (11,990)	6,070 (13,400)
9 (29.52)	5,150 (11,330)	5,700 (12,540)	5,070 (11,150)	5,620 (12,368)	4,950 (10,980)	5,540 (12,190)	4,910 (10,800)	5,460 (12,010)	4,830 (10,630)	5,380 (11,840)	4,750 (10,450)	5,300 (11,660)	4,670 (10,270)	5,220 (11,480)	4,590 (10,100)	5,140 (11,310)
10 (32.80)	...	...	4,400 (9,680)	4,820 (10,740)	4,320 (9,500)	4,800 (10,560)	4,240 (9,330)	4,720 (10,380)	4,160 (9,150)	4,640 (10,210)	4,080 (8,980)	4,560 (10,030)	4,000 (8,800)	4,480 (9,860)	3,920 (8,620)	4,400 (9,680)
12 (39.37)	...	...	3,440 (7,570)	3,820 (8,400)	3,360 (7,390)	3,740 (8,230)	3,280 (7,220)	3,660 (8,050)	3,200 (7,040)	3,580 (7,880)	3,120 (6,860)	3,500 (7,700)	3,040 (6,680)	3,420 (7,520)	2,960 (6,510)	3,340 (7,350)
14 (45.93)	...	...	...	...	2,720 (5,980)	3,010 (6,620)	2,640 (5,810)	2,930 (6,450)	2,560 (5,630)	2,850 (6,270)	2,480 (5,460)	2,770 (6,090)	2,400 (5,280)	2,690 (5,920)	2,320 (5,100)	2,610 (5,740)
16 (52.49)	...	...	...	...	...	...	2,150 (4,730)	2,410 (5,300)	2,070 (4,550)	2,330 (5,130)	1,990 (4,380)	2,250 (4,950)	1,910 (4,200)	2,170 (4,770)	1,830 (4,030)	2,090 (4,600)
18 (59.00)	...	...	...	...	...	...	...	...	1,710 (3,760)	1,930 (4,250)	1,630 (3,590)	1,850 (4,070)	1,550 (3,410)	1,770 (3,890)	1,470 (3,230)	1,690 (3,720)
20 (65.60)	...	...	...	...	...	...	...	...	1,420 (3,120)	1,610 (3,540)	1,350 (2,970)	1,530 (3,370)	1,270 (2,790)	1,450 (3,190)	1,150 (2,520)	1,370 (3,010)
24 (84.10)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Operating radius is horizontal distance from centerline of rotation to a vertical line through the gravity center of the load. The gross crane ratings shown do not exceed 75% of tipping loads with the machine standing on a firm, level, uniformly supporting surface. These crane ratings include weight of hook, blocks, slings and all other crane handling accessories. Backstops recommended for all boom lengths. Ratings are contingent upon machine being equipped with proper P&H boom. Deduct 450kg (1,000 lbs.) from main boom ratings when boom is equipped with jib.

MAXIMUM JIB RATINGS IN KG (LBS.)

Offset Angle Jib to Boom under Full Load	6.10m (20') Jib	9.14m (30') Jib
10°	4,540 (10,000)	3,630 (8,000)
20°	4,090 (9,000)	3,160 (7,000)
30° (max.)	3,630 (8,000)	2,720 (6,000)

HOIST REEVING

No. of Parts of Line	1	2	3	4	5	6
Max. Load—lbs. (kg)	4,540 (10,000)	9,080 (20,000)	13,620 (30,000)	18,160 (40,000)	22,700 (50,000)	27,220 (60,000)

MAXIMUM BOOM LENGTHS MACHINE CAN LIFT OFF GROUND IN M (FT. INCH)