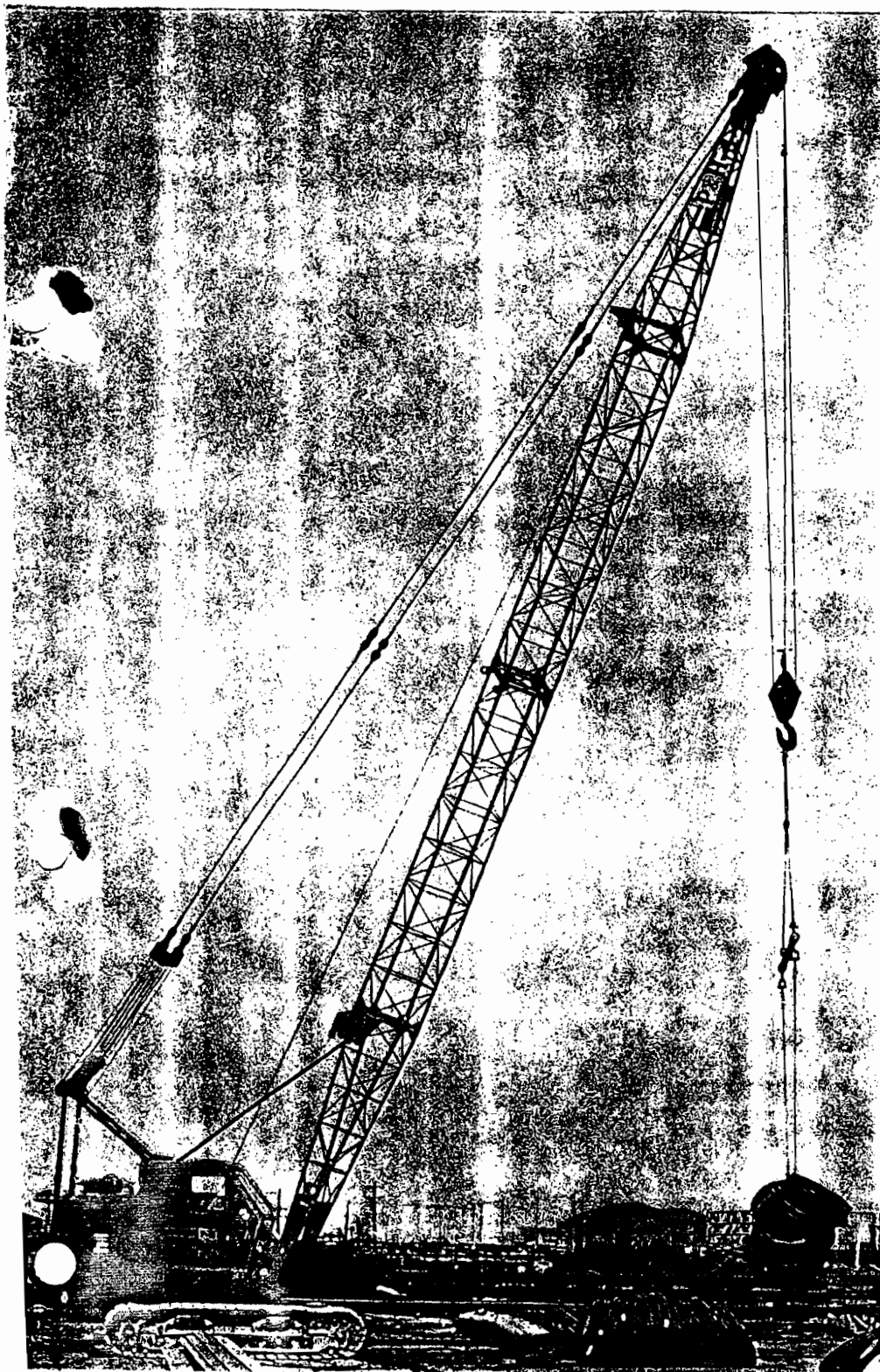


P&H

325

CRANE, CLAMSHELL, DRAGLINE



P&H BUILT TO MEET TODAY'S RIGID PRODUCTION DEMANDS!

Only P&H offers you ALL these features as STANDARD equipment.

- Exclusive P&H power box construction—Provides the most efficient method of transmitting power . . . rugged all-welded construction . . . vital gears operate in oil bath . . . seals out dirt and foreign material.
- Hydraulic controls—Provide positive control . . . accurate load positioning . . . minimize operator fatigue.
- 4 speed INDEPENDENT propel—permits continuous work cycles while crawler is traveling or adjusting position.
- True tractor-type crawlers—Provide greater traction, increased stability with longer life . . . require far less maintenance. Large diameter sprockets give smooth rolling action.
- Automatic propel brakes—Spring loaded, double-acting propel and steering brakes are released and set automatically. Assure positive holding power on the steepest slopes.
- "Triple-safe" independent planetary boom hoist—Assures precision handling of boom through "Triple-safe" independent expanding band clutch, automatic brake and planetary gearing system.
- Exclusive P&H live roller circle—Assures smooth, fast, easier swing . . . even weight distribution of upper and load . . . efficient work cycles.
- 2 speed transmission in upper—Provides correct line pull and line speed for every job, except digging. 2nd gear is normal operating gear.

SALES AND SERVICE
P&H CRANES, INC.
1000 W. 12th St.
Cedar Rapids, Iowa 52402
PHONE 334-1950
FAX 335-2197

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 451 mm (17 3/4")
 12 part boom hoist reeving, standard.

HOOKE 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.)
 (6,900 kg (15,200 lbs.) 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 1/2") P.D.	20 mm (3/4")	130 m (430 ft)	7,450 kg (16,400 lbs)	48 m/min (157 fpm)
R.H. 400 mm (15 1/2") P.D.	20 mm (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 (42,240)	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)	14,720 (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)	8,700 (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)	6,620 (14,700)	7,420 (16,460)	6,600 (14,520)	7,400 (16,280)
8 (26.24)	6,010 (13,220)	6,630 (14,630)	5,930 (13,050)	6,570 (14,450)	5,850 (12,870)	6,420 (14,220)	5,770 (12,690)	6,330 (14,100)	5,690 (12,520)	6,230 (13,930)	5,510 (12,340)	6,150 (13,750)	5,530 (12,170)	6,170 (13,570)	5,450 (11,950)	6,070 (13,400)
9 (29.52)	5,150 (11,330)	5,700 (12,540)	5,070 (11,150)	5,620 (12,368)	4,990 (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)	4,880 (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 (8,060)	3,200 (7,040)	3,580 (7,880)	3,120 (6,860)	3,500 (7,700)	3,040 (6,690)	3,420 (7,510)	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)	1,190 (2,620)	1,370 (3,010)
24.4 (54.10)	...	...	...	...	...	...	...	...	...	...	...	...	750 (1,650)	910 (2,000)	670 (1,470)	830 (1,830)

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 450 kg (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)	3,180 (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.-INS.)

