

Block Overhaul Weights

Warning: Using insufficient block weights for a combination may result in the hoist line overhauling the load block or inability to lower block.

Caution: Block weight and wire rope is considered part of lifted load. Using excessive block weight will reduce load below the hook.

Observe the following:

- Minimum weight required for block lowering is listed in Tables 1 and 2.
- Lengths shown are the total combined length. If a combined length is not shown, round up to the nearest total combined length.
- Refer to capacity chart for configurations that require additional weight suspended from boom or jib due to boom or jib overhaul.
Recommended block weight may not be sufficient for boom or jib stability.
- Not all reevings shown in Tables 1 and 2 may be utilized. Refer to Wire Rope Specifications for recommended maximum parts of load hoist line and drum spooling.
- Block overhaul weight may be affected by temperature, wear, rope manufacturer, rope cleanliness, and method of calculation.
Crane operator judgement must be used to compensate for additional factors.

Table 1

Tandem Drum Operation																			
Total Combined Lengths	m (ft)	35,0 (114.8)	45,0 (147.6)	55,0 (180.4)	65,0 (213.5)	75,0 (246.1)	85,0 (278.9)	95,0 (311.7)	105,0 (344.5)	115,0 (377.3)	125,0 (410.1)	135,0 (442.9)	145,0 (475.7)	155,0 (508.5)	165,0 (541.3)	175,0 (574.1)	185,0 (606.9)	195,0 (639.7)	205,0 (672.5)
Total Parts of Line		Weight of Hook and Block kg (lb)																	
2		440 (960)	560 (1,230)	680 (1,510)	810 (1,780)	930 (2,060)	1 060 (2,330)	1 180 (2,610)	1 310 (2,880)	1 430 (3,150)	1 560 (3,430)	1 680 (3,700)	1 810 (3,980)	1 930 (4,250)	2 050 (4,520)	2 180 (4,800)	2 300 (5,070)	2 430 (5,350)	2 550 (5,620)
4		880 (1,940)	1 130 (2,490)	1 380 (3,050)	1 630 (3,600)	1 890 (4,160)	2 140 (4,710)	2 390 (5,260)	2 640 (5,820)	2 890 (6,370)	3 140 (6,930)	3 390 (7,480)	3 640 (8,030)	3 900 (8,590)	4 150 (9,140)	4 400 (9,700)	4 650 (10,250)	4 900 (10,800)	5 150 (11,360)
6		1 330 (2,940)	1 710 (3,780)	2 100 (4,620)	2 480 (5,460)	2 860 (6,300)	3 240 (7,140)	3 620 (7,980)	4 000 (8,820)	4 380 (9,660)	4 760 (10,490)	5 140 (11,330)	5 520 (12,170)	5 900 (13,010)	6 280 (13,850)	6 660 (14,690)	7 040 (15,530)	7 430 (16,370)	7 810 (17,210)
8		1 800 (3,960)	2 310 (5,090)	2 820 (6,220)	3 330 (7,350)	3 850 (8,480)	4 360 (9,610)	4 870 (10,740)	5 380 (11,870)	5 900 (13,010)	6 410 (14,140)	6 930 (15,270)	7 440 (16,400)	7 950 (17,530)	8 460 (18,660)	8 980 (19,790)	9 490 (20,920)	10 000 (22,050)	10 510 (23,180)
10		2 270 (5,000)	2 920 (6,430)	3 570 (7,860)	4 210 (9,280)	4 860 (10,710)	5 510 (12,140)	6 160 (13,570)	6 800 (15,000)	7 450 (16,420)	8 100 (17,850)	8 750 (19,280)	9 390 (20,710)	10 040 (22,140)	10 690 (23,570)	11 340 (24,990)	11 980 (26,420)	12 630 (27,850)	13 280 (29,280)
12		2 750 (6,060)	3 530 (7,790)	4 320 (9,520)	5 110 (11,260)	5 890 (12,990)	6 680 (14,720)	7 460 (16,450)	8 250 (18,180)	9 030 (19,910)	9 820 (21,650)	10 600 (23,380)	11 390 (25,110)	12 170 (26,840)	12 960 (28,570)	13 740 (30,300)	14 530 (32,040)	15 320 (33,770)	16 100 (35,500)
14		3 240 (7,140)	4 170 (9,190)	5 090 (11,230)	6 020 (13,270)	6 940 (15,310)	7 870 (17,350)	8 800 (19,390)	9 720 (21,430)	10 650 (23,470)	11 580 (25,520)	12 500 (27,560)	13 430 (29,600)	14 350 (31,640)	15 280 (33,680)	16 200 (35,720)	17 130 (37,760)	18 050 (39,800)	18 980 (41,840)
16		3 740 (8,250)	4 810 (10,610)	5 880 (12,960)	6 950 (15,320)	8 020 (17,680)	9 090 (20,040)	10 160 (22,390)	11 230 (24,750)	12 300 (27,110)	13 360 (29,460)	14 430 (31,820)	15 500 (34,180)	16 570 (36,530)	17 640 (38,890)	18 710 (41,250)	19 780 (43,610)	20 850 (45,960)	21 920 (48,320)
18		4 250 (9,380)	5 470 (12,060)	6 690 (14,740)	7 900 (17,420)	9 120 (20,100)	10 330 (22,780)	11 540 (25,450)	12 760 (28,130)	13 980 (30,810)	15 190 (33,490)	16 410 (36,170)	17 620 (38,850)	18 840 (41,530)	20 050 (44,210)	21 270 (46,890)	22 480 (49,570)	23 700 (52,250)	24 920 (54,930)
20		4 780 (10,530)	6 140 (13,540)	7 510 (16,550)	8 870 (19,550)	10 230 (22,560)	11 600 (25,570)	12 960 (28,580)	14 330 (31,590)	15 690 (34,600)	17 060 (37,600)	18 420 (40,610)	19 790 (43,620)	21 150 (46,630)	22 520 (49,640)	23 880 (52,650)	25 240 (55,650)	26 610 (58,660)	27 970 (61,670)
22		5 310 (11,700)	6 830 (15,050)	8 340 (18,390)	9 860 (21,740)	11 380 (25,080)	12 890 (28,420)	14 410 (31,770)	15 930 (35,110)	17 450 (38,460)	18 960 (41,800)	20 480 (45,140)	21 990 (48,490)	23 510 (51,830)	25 030 (55,180)	26 540 (58,520)	28 060 (61,860)	29 580 (65,210)	31 090 (68,550)
24		5 850 (12,900)	7 530 (16,590)	9 200 (20,280)	10 870 (23,960)	12 540 (27,650)	14 210 (31,330)	15 880 (35,020)	17 560 (38,710)	19 230 (42,390)	20 900 (46,080)	22 580 (49,770)	24 240 (53,450)	25 920 (57,140)	27 590 (60,830)	29 260 (64,510)	30 930 (68,200)	32 610 (71,890)	34 280 (75,570)
26		6 410 (14,130)	8 240 (18,160)	10 070 (22,200)	11 900 (26,230)	13 730 (30,270)	15 560 (34,310)	17 390 (38,340)	19 220 (42,380)	21 050 (46,410)	22 880 (50,450)	24 710 (54,480)	26 540 (58,520)	28 380 (62,560)	30 200 (66,590)	32 040 (70,630)	33 870 (74,660)	35 700 (78,700)	37 530 (82,740)
28		6 970 (15,370)	8 970 (19,770)	10 960 (24,160)	12 950 (28,550)	14 940 (32,940)	16 940 (37,340)	18 930 (41,730)	20 920 (46,120)	22 910 (50,510)	24 910 (54,910)	26 900 (59,300)	28 890 (63,690)	30 880 (68,080)	32 880 (72,480)	34 870 (76,870)	36 860 (81,260)	38 850 (85,650)	40 850 (90,050)
30		7 550 (16,650)	9 710 (21,400)	11 870 (26,160)	14 030 (30,920)	16 180 (35,670)	18 340 (40,430)	20 500 (45,190)	22 650 (49,940)	24 810 (54,700)	26 970 (59,450)	29 130 (64,210)	31 280 (68,970)	33 440 (73,720)	35 600 (78,480)	37 760 (83,240)	39 910 (87,990)	42 070 (92,750)	44 230 (97,510)
32		8 140 (17,950)	10 460 (23,070)	12 790 (28,200)	15 120 (33,330)	17 450 (38,460)	19 770 (43,590)	22 090 (48,710)	24 420 (53,840)	26 750 (58,970)	29 080 (64,100)	31 400 (69,220)	33 720 (74,350)	36 050 (79,480)	38 380 (84,610)	40 700 (89,730)	43 030 (94,860)	45 350 (99,990)	47 680 (105,120)

Block Overhaul Weights



Table 2

Single Drum Operation																			
Total Combined Lengths	m (ft)	35,0 (114.8)	45,0 (147.6)	55,0 (180.4)	65,0 (213.5)	75,0 (246.0)	85,0 (278.8)	95,0 (311.6)	105,0 (344.4)	115,0 (377.2)	125,0 (410.1)	135,0 (442.9)	145,0 (475.7)	155,0 (508.5)	165,0 (541.3)	175,0 (574.1)	185,0 (606.9)	195,0 (639.7)	205,0 (672.5)
Total Parts of Line		Weight of Hook and Block kg (lb)																	
1		220 (480)	280 (620)	340 (750)	400 (890)	470 (1,030)	530 (1,170)	590 (1,300)	650 (1,440)	720 (1,580)	780 (1,710)	840 (1,850)	900 (1,990)	970 (2,130)	1 030 (2,260)	1 090 (2,400)	1 150 (2,540)	1 210 (2,670)	1 270 (2,810)
2		440 (970)	570 (1,250)	690 (1,520)	820 (1,800)	940 (2,080)	1 070 (2,350)	1 190 (2,630)	1 320 (2,910)	1 450 (3,190)	1 570 (3,460)	1 700 (3,740)	1 820 (4,020)	1 950 (4,290)	2 070 (4,570)	2 200 (4,850)	2 320 (5,120)	2 450 (5,400)	2 580 (5,680)
3		670 (1,470)	860 (1,890)	1 050 (2,310)	1 240 (2,730)	1 430 (3,150)	1 620 (3,570)	1 810 (3,990)	2 000 (4,410)	2 190 (4,830)	2 380 (5,250)	2 570 (5,670)	2 760 (6,090)	2 950 (6,510)	3 140 (6,930)	3 330 (7,350)	3 520 (7,770)	3 710 (8,190)	3 910 (8,610)
4		900 (1,980)	1 150 (2,540)	1 410 (3,110)	1 670 (3,680)	1 920 (4,240)	2 180 (4,810)	2 440 (5,370)	2 690 (5,940)	2 950 (6,500)	3 210 (7,070)	3 460 (7,630)	3 720 (8,200)	3 970 (8,760)	4 230 (9,330)	4 490 (9,900)	4 740 (10,460)	5 000 (11,030)	5 260 (11,590)
5		1 100 (2,500)	1 500 (3,210)	1 800 (3,930)	2 100 (4,640)	2 400 (5,360)	2 800 (6,070)	3 100 (6,780)	3 400 (7,500)	3 700 (8,210)	4 100 (8,930)	4 400 (9,640)	4 700 (10,350)	5 000 (11,070)	5 300 (11,780)	5 700 (12,500)	6 000 (13,210)	6 300 (13,930)	6 600 (14,640)
6		1 370 (3,030)	1 770 (3,900)	2 160 (4,760)	2 550 (5,630)	2 940 (6,490)	3 340 (7,360)	3 730 (8,230)	4 120 (9,090)	4 520 (9,960)	4 910 (10,820)	5 300 (11,690)	5 690 (12,550)	6 090 (13,420)	6 480 (14,290)	6 870 (15,150)	7 270 (16,020)	7 660 (16,880)	8 050 (17,750)
7		1 620 (3,570)	2 080 (4,590)	2 540 (5,610)	3 010 (6,630)	3 470 (7,650)	3 940 (8,680)	4 400 (9,700)	4 860 (10,720)	5 330 (11,740)	5 790 (12,760)	6 250 (13,780)	6 710 (14,800)	7 180 (15,820)	7 640 (16,840)	8 100 (17,860)	8 560 (18,880)	9 030 (19,900)	9 490 (20,920)
8		1 870 (4,120)	2 400 (5,300)	2 940 (6,480)	3 470 (7,660)	4 010 (8,840)	4 540 (10,020)	5 080 (11,200)	5 610 (12,370)	6 150 (13,550)	6 680 (14,730)	7 220 (15,910)	7 750 (17,090)	8 290 (18,270)	8 820 (19,450)	9 350 (20,620)	9 890 (21,800)	10 420 (22,980)	10 960 (24,160)
9		2 130 (4,690)	2 740 (6,030)	3 340 (7,370)	3 950 (8,710)	4 560 (10,050)	5 170 (11,390)	5 770 (12,730)	6 380 (14,070)	6 990 (15,410)	7 600 (16,750)	8 210 (18,090)	8 810 (19,430)	9 420 (20,770)	10 030 (22,110)	10 630 (23,440)	11 240 (24,780)	11 850 (26,120)	12 460 (27,460)
10		2 390 (5,260)	3 070 (6,770)	3 750 (8,270)	4 440 (9,780)	5 120 (11,280)	5 800 (12,790)	6 480 (14,290)	7 160 (15,790)	7 850 (17,300)	8 530 (18,800)	9 210 (20,310)	9 890 (21,810)	10 570 (23,310)	11 260 (24,820)	11 940 (26,320)	12 620 (27,830)	13 300 (29,330)	13 990 (30,840)
11		2 650 (5,850)	3 410 (7,520)	4 170 (9,200)	4 930 (10,870)	5 690 (12,540)	6 450 (14,210)	7 200 (15,880)	7 970 (17,560)	8 720 (19,230)	9 480 (20,900)	10 240 (22,570)	11 000 (24,240)	11 760 (25,920)	12 510 (27,590)	13 270 (29,260)	14 030 (30,930)	14 790 (32,600)	15 550 (34,280)
12		2 930 (6,450)	3 760 (8,290)	4 600 (10,140)	5 430 (11,980)	6 270 (13,820)	7 110 (15,670)	7 940 (17,510)	8 780 (19,350)	9 620 (21,200)	10 450 (23,040)	11 290 (24,880)	12 120 (26,730)	12 960 (28,570)	13 790 (30,410)	14 630 (32,260)	15 470 (34,100)	16 300 (35,940)	17 140 (37,790)
13		3 200 (7,060)	4 120 (9,080)	5 030 (11,100)	5 950 (13,120)	6 860 (15,130)	7 780 (17,150)	8 700 (19,170)	9 610 (21,190)	10 530 (23,210)	11 440 (25,220)	12 360 (27,240)	13 270 (29,260)	14 190 (31,280)	15 100 (33,300)	16 020 (35,310)	16 930 (37,330)	17 850 (39,350)	18 770 (41,370)
14		3 490 (7,690)	4 480 (9,880)	5 480 (12,080)	6 480 (14,280)	7 470 (16,470)	8 470 (18,670)	9 460 (20,860)	10 460 (23,060)	11 460 (25,260)	12 450 (27,450)	13 450 (29,650)	14 450 (31,850)	15 440 (34,040)	16 440 (36,240)	17 430 (38,430)	18 430 (40,630)	19 430 (42,830)	20 420 (45,020)
15		3 770 (8,320)	4 850 (10,700)	5 930 (13,080)	7 010 (15,460)	8 090 (17,840)	9 170 (20,210)	10 250 (22,590)	11 330 (24,970)	12 410 (27,350)	13 490 (29,730)	14 560 (32,110)	15 640 (34,480)	16 720 (36,860)	17 800 (39,240)	18 880 (41,620)	19 960 (44,000)	21 030 (46,370)	22 110 (48,750)
16		4 070 (8,970)	5 230 (11,540)	6 400 (14,100)	7 560 (16,660)	8 720 (19,230)	9 880 (21,790)	11 050 (24,360)	12 210 (26,920)	13 370 (29,480)	14 540 (32,050)	15 700 (34,610)	16 860 (37,180)	18 030 (39,740)	19 190 (42,300)	20 350 (44,870)	21 510 (47,430)	22 680 (49,990)	23 840 (52,560)
17		4 370 (9,640)	5 620 (12,390)	6 870 (15,140)	8 120 (17,900)	9 370 (20,650)	10 610 (23,400)	11 870 (26,160)	13 110 (28,910)	14 360 (31,660)	15 610 (34,420)	16 860 (37,170)	18 110 (39,920)	19 360 (42,680)	20 610 (45,430)	21 850 (48,180)	23 110 (50,940)	24 350 (53,690)	25 600 (56,440)
18		4 680 (10,310)	6 010 (13,260)	7 350 (16,210)	8 690 (19,150)	10 020 (22,100)	11 360 (25,050)	12 700 (27,990)	14 030 (30,940)	15 370 (33,890)	16 710 (36,830)	18 040 (39,780)	19 380 (42,730)	20 720 (45,670)	22 050 (48,620)	23 390 (51,560)	24 730 (54,510)	26 060 (57,460)	27 400 (60,400)
19		4 990 (11,000)	6 420 (14,150)	7 840 (17,290)	9 270 (20,430)	10 700 (23,580)	12 120 (26,720)	13 550 (29,870)	14 970 (33,010)	16 400 (36,150)	17 830 (39,300)	19 250 (42,440)	20 680 (45,590)	22 100 (48,730)	23 530 (51,870)	24 960 (55,020)	26 380 (58,160)	27 810 (61,300)	29 230 (64,450)
20		5 310 (11,710)	6 830 (15,050)	8 350 (18,400)	9 860 (21,740)	11 380 (25,090)	12 900 (28,430)	14 420 (31,780)	15 930 (35,120)	17 450 (38,470)	18 960 (41,810)	20 480 (45,160)	22 000 (48,500)	23 520 (51,850)	25 030 (55,190)	26 550 (58,540)	28 070 (61,880)	29 590 (65,230)	31 100 (68,570)

Block Overhaul Weights



Table 2 (continued)

Single Drum Operation																			
Total Combined Lengths	m (ft)	35,0 (114.8)	45,0 (147.6)	55,0 (180.4)	65,0 (213.5)	75,0 (246.0)	85,0 (278.8)	95,0 (311.6)	105,0 (344.4)	115,0 (377.2)	125,0 (410.1)	135,0 (442.9)	145,0 (475.7)	155,0 (508.5)	165,0 (541.3)	175,0 (574.1)	185,0 (606.9)	195,0 (639.7)	205,0 (672.5)
Total Parts of Line		Weight of Hook and Block kg (lb)																	
21		5 640 (12,430)	7 250 (15,980)	8 860 (19,530)	10 470 (23,080)	12 080 (26,630)	13 690 (30,180)	15 300 (33,730)	16 910 (37,280)	18 520 (40,830)	20 130 (44,380)	21 740 (47,930)	23 350 (51,480)	24 960 (55,030)	26 570 (58,580)	28 180 (62,130)	29 790 (65,680)	31 400 (69,230)	33 010 (72,780)
22		5 970 (13,160)	7 670 (16,920)	9 380 (20,680)	11 090 (24,440)	12 790 (28,200)	14 500 (31,960)	16 200 (35,720)	17 910 (39,480)	19 610 (43,240)	21 320 (47,000)	23 020 (50,760)	24 730 (54,520)	26 440 (58,280)	28 140 (62,040)	29 850 (65,800)	31 550 (69,560)	33 260 (73,320)	34 960 (77,080)
23		6 310 (13,910)	8 110 (17,880)	9 920 (21,860)	11 720 (25,830)	13 520 (29,800)	15 320 (33,780)	17 120 (37,750)	18 930 (41,730)	20 730 (45,700)	22 530 (49,670)	24 340 (53,650)	26 140 (57,620)	27 940 (61,600)	29 740 (65,570)	31 540 (69,540)	33 350 (73,520)	35 150 (77,490)	36 950 (81,460)
24		6 650 (14,670)	8 550 (18,860)	10 460 (23,060)	12 360 (27,250)	14 260 (31,440)	16 160 (35,630)	18 060 (39,820)	19 970 (44,020)	21 870 (48,210)	23 770 (52,400)	25 670 (56,590)	27 570 (60,790)	29 470 (64,980)	31 370 (69,170)	33 280 (73,360)	35 180 (77,550)	37 080 (81,750)	38 980 (85,940)
25		7 010 (15,450)	9 010 (19,870)	11 010 (24,280)	13 020 (28,700)	15 020 (33,110)	17 020 (37,530)	19 020 (41,940)	21 030 (46,360)	23 030 (50,770)	25 030 (55,180)	27 030 (59,600)	29 030 (64,010)	31 040 (68,430)	33 040 (72,840)	35 040 (77,260)	37 040 (81,670)	39 050 (86,090)	41 050 (90,500)
26		7 370 (16,250)	9 480 (20,890)	11 580 (25,530)	13 680 (30,170)	15 790 (34,810)	17 900 (39,460)	20 000 (44,100)	22 110 (48,740)	24 210 (53,380)	26 320 (58,020)	28 430 (62,670)	30 530 (67,310)	32 640 (71,950)	34 740 (76,590)	36 850 (81,230)	38 950 (85,880)	41 060 (90,520)	43 160 (95,160)
27		7 740 (17,060)	9 950 (21,930)	12 160 (26,810)	14 370 (31,680)	16 580 (36,550)	18 790 (41,430)	21 000 (46,300)	23 210 (51,180)	25 420 (56,050)	27 630 (60,920)	29 850 (65,800)	32 060 (70,670)	34 260 (75,540)	36 480 (80,420)	38 690 (85,290)	40 900 (90,170)	43 110 (95,040)	45 320 (99,910)
28		8 110 (17,890)	10 430 (23,000)	12 750 (28,110)	15 070 (33,220)	17 390 (38,330)	19 700 (43,440)	22 020 (48,550)	24 340 (53,660)	26 660 (58,770)	28 980 (63,880)	31 290 (68,990)	33 610 (74,100)	35 930 (79,210)	38 250 (84,320)	40 560 (89,430)	42 880 (94,540)	45 200 (99,650)	47 520 (104,760)
29		8 500 (18,730)	10 920 (24,080)	13 350 (29,440)	15 780 (34,790)	18 210 (40,140)	20 630 (45,490)	23 060 (50,840)	25 490 (56,190)	27 920 (61,550)	30 350 (66,900)	32 770 (72,250)	35 200 (77,600)	37 630 (82,950)	40 060 (88,310)	42 480 (93,660)	44 910 (99,010)	47 340 (104,360)	49 760 (109,710)
30		8 890 (19,590)	11 430 (25,190)	13 970 (30,790)	16 510 (36,390)	19 050 (41,990)	21 580 (47,580)	24 120 (53,180)	26 660 (58,780)	29 200 (64,380)	31 740 (69,980)	34 280 (75,580)	36 820 (81,170)	39 360 (86,770)	41 900 (92,370)	44 440 (97,970)	46 980 (103,570)	49 510 (109,160)	52 050 (114,760)
31		9 290 (20,470)	11 940 (26,320)	14 590 (32,170)	17 250 (38,020)	19 900 (43,870)	22 550 (49,720)	25 210 (55,570)	27 860 (61,420)	30 510 (67,270)	33 170 (73,120)	35 820 (78,970)	38 470 (84,820)	41 130 (90,670)	43 780 (96,520)	46 430 (102,370)	49 090 (108,220)	51 740 (114,070)	54 390 (119,920)
32		9 690 (21,370)	12 460 (27,480)	15 230 (33,580)	18 000 (39,690)	20 770 (45,800)	23 540 (51,900)	26 310 (58,010)	29 080 (64,110)	31 850 (70,220)	34 620 (76,330)	37 390 (82,430)	40 160 (88,540)	42 930 (94,640)	45 700 (100,750)	48 470 (106,860)	51 240 (112,960)	54 010 (119,070)	56 780 (125,170)