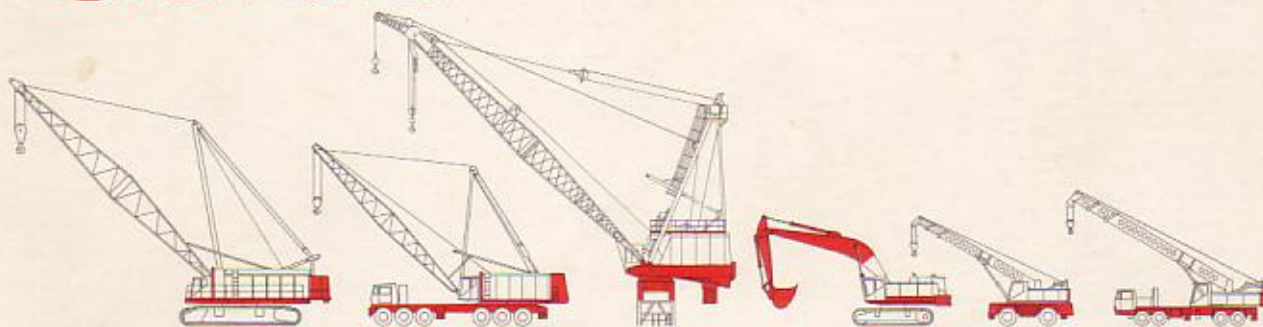


Link-Belt® Crane and Excavator Product Line Guide



CONEXPO '81 Edition

Link-Belt® wire rope crawler cranes and excavators

Through the years Link-Belt wire rope crawler cranes/excavators have developed a reputation for quality, performance and dependability. The upperstructure, lower and side frames are all-welded, stress-relieved, and then line-bored to provide longer gear, shaft and component life.



The upperstructure machinery features the exclusive, proven Full-Function gear train design with independent travel, swing, boom and load hoist. All 2-shoe clutches are hydraulic type, and are mounted outside of the side housing for accessibility . . . and away from the drum brakes to eliminate heat transfer between rope drum brakes and clutches. In addition, many of the models offered are available to meet European safety codes and over-the-road travel regulations.

Crawler cranes



LS-68 (Not for sale in U.S.)



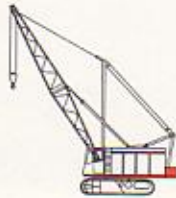
LS-78



LS-78PL

Capacity	15 ton (13.61 metric ton)	17½ — 30 ton (15.87 — 27.21 metric ton)	15½ ton (14.06 metric ton)
PCSA rating	10—40	10—50/10—76	10—57
Maximum crane boom/boom + jib	70' (21.34 m)/ 70' + 30' (21.34 + 9.14 m)	100' (30.48 m)/ 80' + 40' (24.38 + 12.19 m)	50' (15.24 m)
Maximum duty cycle boom	40' (12.19 m)	50' (15.24 m)	50' (15.24 m)
Maximum dragline capacity	6,800 lbs. (3 084 kg)	8,600 lbs. (3 901 kg)	8,600 lbs. (3 901 kg)
Maximum clamshell-magnet capacity	7,900 lbs. (3 583 kg)	10,200 lbs. (4 627 kg)	10,200 lbs. (4 627 kg)
Crawler length	12' 1" (3.69 m)	13' 7" (4.14 m)	13' 4" (4.06 m)
Working weight	38,960 lbs. (17 672 kg)	47,828 lbs. (21 695 kg)	54,220 lbs. (24 616 kg)

Crawler cranes



LS-128DL



LS-128DLC



LS-318

Capacity	40 ton (36.28 metric ton)	50 ton (45.36 metric ton)	80 ton (72.56 metric ton)
PCSA rating	10—120	12—206	12—263
Maximum crane boom/boom + jib	100' (30.48 m)/ 60' + 40' (18.29 + 12.19 m)	170' (51.82 m)/ 150' + 50' (45.72 + 15.24 m)	190' (57.91 m)/ 140' + 60' (45.72 + 18.29 m)
Maximum duty cycle boom	80' (24.38 m)	80' (24.38 m)	90' (27.43 m)
Maximum dragline capacity	15,600 lbs. (7 076 kg)	15,600 lbs. (7 076 kg)	17,300 lbs. (7 847 kg)
Maximum clamshell-magnet capacity	18,200 lbs. (8 255 kg)	18,200 lbs. (8 255 kg)	20,200 lbs. (9 163 kg)
Crawler length	16' 2" (5.15 m)	17' 5" (5.31 m)	20' 0" (6.10 m)
Working weight	94,435 lbs. (42 835 kg)	112,750 lbs. (51 143 kg)	139,525 lbs. (63 289 kg)

Link-Belt® wire rope rubber-tired mobile base cranes

Link-Belt wire rope truck and self-propelled cranes are available in a wide range of capacities, mountings and attachment configurations. Capacities range from the 20 ton (18.14 metric ton) HC-48A to the 200 ton (181.40 metric ton) HC-258.



FMC designed and manufactured mountings include the 3, 4 or 6 axle carrier; and on some models the self-propelled carrier which is driven from the crane operator's cab. An HC-48A (from U.S.) and an HC-78B (from Milan) are also available with all-wheel drive (6 x 6).

Several attachment configurations are available to handle the crane user's needs. These include the crane boom, the tower crane boom, and the elevated boomfoot crane boom attachment.

Truck cranes



HC-48A



HC-78B



HC-108C

Capacity	20 ton (18.14 metric ton)	35 ton (31.75 metric ton)	50 ton (45.35 metric ton)
Maximum boom	80' (24.38 m)	170' (51.82 m)	150' (45.72 m)
Maximum boom/jib	80' + 30' (24.38 + 9.14 m)	150' + 20' (45.72 + 6.10 m)	150' + 50' (45.72 + 15.24 m)
Line speed @ line pull	250 fpm @ 5,000 lbs. ¹ (76.20 m/min @ 2 268 kg)	346 fpm @ 5,000 lbs. ¹ (105.46 m/min @ 2 268 kg)	447 fpm @ 5,000 lbs. ¹ (136.25 m/min @ 2 268 kg)
Maximum line pull	10,800 lbs. (4 899 kg)	17,200 lbs. (7 802 kg)	23,000 lbs. (10 433 kg)
Basic travel weight	40,750 lbs. (18 484 kg)	60,068 lbs. (27 247 kg)	61,640 lbs. (29 645 kg) ³
Travel height	10' 8" (3.26 m)	12' 9" (3.89 m)	13' 0" (3.96 m)
Overall width	8' 0" (2.44 m)	9' 0" (2.74 m)	10' 4" (3.15 m)

Self-propelled cranes



UC-78B



UC-108B

Capacity	35 ton (31.75 metric ton)	45 ton (40.82 metric ton)
Maximum boom	100' (30.48 m)	150' (45.72 m)
Line speed @ line pull	346 fpm @ 5,000 lbs. ¹ (105.46 m/min @ 2 268 kg)	447 fpm @ 5,000 lbs. ¹ (136.25 m/min @ 2 268 kg)
Maximum line pull	17,200 lbs. (7 802 kg)	23,000 lbs. (10 433 kg)
Maximum travel speed	7.3 mph (11.75 km/h)	9.1 mph (14.64 km/h)
Overall length	22' 6" (6.86 m)	22' 6" (6.86 m)
Overall width	10' 11½" (3.34 m)	11' 1" (3.38 m)
Travel height	12' 8" (3.87 m)	13' 1" (3.99 m)

Link-Belt® wire rope pedestal mounted cranes

FMC offers a line of Link-Belt wire rope operated, pedestal mounted cranes for offshore and marine operation. Built to commercial, ABS or API specifications, each



crane model is capable of delivering the specialized performance demands of the offshore environment.

To fulfill the offshore needs, these cranes feature the exclusive Speed-o-Matic® power hydraulic control system. Also available are stainless steel hydraulic lines for added protection against salt water corrosion; power boom and load raising and lowering; 2-speed wire rope hoist drums; catwalks; auxiliary jib; special crane exterior paints for long life and reduced maintenance cost; spark arrestor silencer — all for efficient, specialized offshore application.

Pedestal mounted cranes



ABS/API-48A



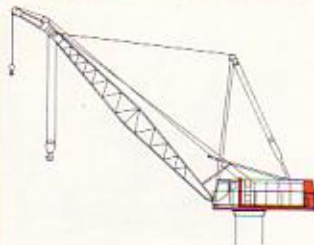
ABS/API-78A



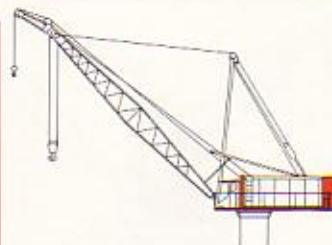
ABS/API-108B

Capacity	18.40 ton (16.69 metric ton)	35.25 ton (31.97 metric ton)	40.85 ton (37.05 metric ton)
Maximum crane boom	80' (24.38 m)	100' (30.48 m)	100' (30.48 m)
Line speed @ line pull	250 fpm @ 5,000 lbs. ¹ (76.20 m/min @ 2 268 kg)	346 fpm @ 5,000 lbs. ¹ (105.46 m/min @ 2 268 kg)	447 fpm @ 5,000 lbs. ¹ (136.25 m/min @ 2 268 kg)
Maximum line pull	10,800 lbs. (4 899 kg)	17,200 lbs. (7 802 kg)	23,000 lbs. (10 433 kg)
Overall length w/catwalk	13' 10" (4.21 m)	16' 10" (5.13 m)	18' 3" (5.57 m)
Overall width	12' 3" (3.74 m)	13' 0" (3.96 m)	13' 2¼" (4.02 m)
Working weight	22,410 lbs. (10 165 kg)	40,485 lbs. (18 363 kg)	51,675 lbs. (23 439 kg)

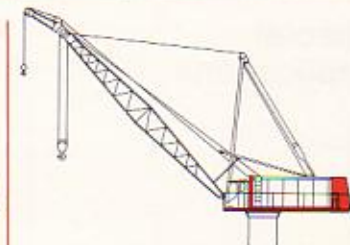
Pedestal mounted cranes



ABS/API-138A



ABS/API-218A



ABS/API-238A

Capacity	65 ton (58.96 metric ton)	76.55 ton (69.44 metric ton)	114.30 ton (103.69 metric ton)
Maximum crane boom	150' (45.72 m)	150' (45.72 m)	150' (45.72 m)
Line speed @ line pull	347 fpm @ 10,000 lbs. ² (105.77 m/min @ 4 536 kg)	357 fpm @ 10,000 lbs. ² (108.81 m/min @ 4 536 kg)	386 fpm @ 10,000 lbs. ² (117.65 m/min @ 4 536 kg)
Maximum line pull	20,000 lbs. (9 072 kg)	21,000 lbs. (9 226 kg)	26,000 lbs. (11 794 kg)
Overall length w/catwalk	24' 1" (7.33 m)	25' 0" (7.62 m)	25' 0" (7.62 m)
Overall width w/catwalk	17' 3" (5.25 m)	17' 3" (5.25 m)	17' 3" (5.25 m)
Working weight	63,700 lbs. (28 894 kg)	72,600 lbs. (32 931 kg)	108,700 lbs. (49 306 kg)

¹Standard speed. ²With optional two-speed planetary.

Link-Belt® hydraulic crawler excavators



A complete line of hydraulic crawler excavators is offered ranging in size from the 44,000 lbs. (19 868 kg) LS-2800A to the massive 170,000 lbs. (77 112 kg) LS-7400A. All machines incorporate hydraulic circuitry with variable volume/pressure compensated piston-type pumps permitting constant

available engine horsepower to machine functions. A separate hydraulic piston pump is utilized for the swing system making it independent of other machine functions. The entire hydraulic circuitry design provides excellent hydraulic efficiency for increased production.

All track systems utilize heavy-duty excavator type rollers with large diameter shafts and are sealed for life-time lubrication for extended component life.

To minimize maintenance time the drive sprocket, idler wheel and track rails all have sealed pins and bearings. A track compensator in each side frame maintains optimum levels of tension on the track belt.

Crawler excavators



LS-2800A



LS-3400



LS-4800

Weight	44,000 lbs. (19 868 kg)	55,000 lbs. (24 948 kg)	80,000 lbs. (36 288 kg)
Horsepower	100 hp (75 kW) @ 2100 rpm	139 hp (104 kW) @ 2100 rpm	208 hp (155 kW) @ 2100 rpm
Crawler length	12' 6" (3.81 m)	14' 6" (4.42 m)	15' 0" (4.57 m)
Crawler gauge	7' 0" (2.13 m)	7' 10" (2.39 m)	8' 10" (2.69 m)
Swing speed	6.70 rpm	6.30 rpm	5.12 rpm
Maximum travel speed	2.00 mph (3.22 km/h)	1.74 mph (2.80 km/h)	2.20 mph (3.54 km/h)
Maximum dump height (A)	21' 0" (6.39 m)	20' 8" (6.30 m)	21' 5" (6.53 m)
Maximum digging depth (B)	21' 3" (6.47 m)	24' 1" (7.35 m)	25' 0" (7.62 m)
Maximum digging radius (C)	32' 4" (9.85 m)	35' 0" (10.67 m)	38' 0" (11.58 m)

Special applications

Scrap-magnet/grapple



LS-3400SL

Logging-heeler



LS-5400TL

Scrap-magnet/grapple



LS-5800SL

Maximum lift capacity	31,500 lbs. (14 288 kg)	45,300 lbs. (20 548 kg)	47,700 lbs. (21 637 kg)
Maximum working radius	40' 0" (12.48 m)	42' 0" (12.80 m)	53' 0" (16.15 m)
Maximum working height	40' 0" (12.48 m)	35' 0" (10.67 m)	48' 0" (14.63 m)
Working weight	65,000 lbs. (29 484 kg)	85,535 lbs. (38 799 kg)	108,545 lbs. (49 235 kg)
Horsepower	160 hp (119 kW)	208 hp (155 kW)	260 hp (194 kW)
Crawler length	14' 6" (4.42 m)	16' 5" (5.00 m)	16' 5" (5.00 m)
Crawler gauge	7' 10" (2.13 m)	8' 10" (2.69 m) ¹	8' 10" (2.69 m) ¹
Swing speed	6.30 rpm	5.12 rpm	3.97 rpm

¹ A 10' 1" (3.08 m) wide lower is available.

Link-Belt® hydraulic rubber-tired mobile base cranes

The Link-Belt hydraulic truck and rough terrain cranes feature another engineering design original . . . the diamond-shaped embossed boom. This innovative boom design provides a maximum strength-to-weight relationship that gives Link-Belt hydraulic crane booms minimum vertical and horizontal deflection for precise load



control, while allowing optimum capacities throughout the working ranges.

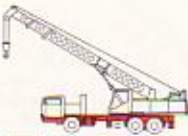


The Eighty Series rough terrain crane models range in lifting capacity from 15 to 40 tons (13.61 to 36.29 metric tons). The tapered double-wall main frame design and integral two-section outrigger boxes provide maximum stability throughout the 360° lifting radius.

A swing system engineered for smooth, precise operation, and hoists with high wire rope capacity assure accurate control of load at maximum line speeds. All functions of the crane are controlled from within an operator's cab designed for safety, comfort, and productivity.

Rough terrain cranes

	 LB-20 (Manufactured in Italy only)	 HSP-8015	 HSP-8018
Capacity	24.80 ton (22.50 metric ton)	15 ton (13.61 metric ton)	18 ton (16.33 metric ton)
Maximum tip height	77' 1" (23.50 m)	122' 0" (37.18 m)	122' 0" (37.18 m)
Power boom	28' 8"—71' 8" (8.74 m—21.85 m)	28' 9"—91' 0" (8.76 m—27.74 m)	28' 9"—91' 0" (8.76 m—27.74 m)
Fly/jib lengths	22' 4"/41' 2" (6.80 m/12.54 m)	24' 0"/14' 6" (7.31 m/4.42 m)	24' 0"/14' 6" (7.31 m/4.42 m)
Machine weight	52,920 lbs. (24 000 kg)	45,626 lbs. (20 696 kg)	47,182 lbs. (21 402 kg)
Overall length	35' 11" (10.96 m)	39' 7 ⁹ / ₁₆ " (12.08 m)	39' 7 ⁹ / ₁₆ " (12.08 m)
Overall height	11' 9" (3.59 m)	10' 10 ¹ / ₈ " (3.30 m)	10' 10 ¹ / ₈ " (3.30 m)
Overall width	8' 2" (2.48 m)	8' 0" (2.44 m)	8' 0" (2.44 m)

Truck cranes

	 HTC-14	 HTC-25	 HTC-35
Capacity	14 ton (12.70 metric ton)	25 ton (22.68 metric ton)	35 ton (31.75 metric ton)
Maximum tip height	115' 5" (35.17 m)	115' 5" (35.17 m)	129' 10" (39.56 m)
Power boom	28' 6"—70' 0" (8.69 m—21.34 m)	28' 6"—70' 0" (8.69 m—21.34 m)	32' 0"—80' 0" (9.70 m—24.38 m)
Fly/jib lengths	25' 0"/20' 0" (7.62 m/6.10 m)	25' 0"/20' 0" (7.62 m/6.10 m)	28' 0"/22' 0" (8.53 m/6.71 m)
Machine weight	45,196 lbs. (20 501 kg)	45,196 lbs. (20 501 kg)	60,695 lbs. (27 531 kg)
Overall length	37' 0" (11.28 m)	37' 0" (11.28 m)	41' 9 ³ / ₈ " (12.75 m)
Overall height	9' 9" (2.97 m)	9' 9" (2.97 m)	9' 11 ³ / ₄ " (3.04 m)
Overall width	8' 0" (2.44 m)	8' 0" (2.44 m)	8' 0" (2.44 m)