

Quantum
SERIES EXCAVATORS®

5800
SPECIFICATIONS

99,800 lbs. (45 269 kg) Operating Weight



Link-Belt
EXCAVATORS
SCRAPMASTER | LOGMASTER

5800 Quantum Specifications

ENGINE

Cummins M11C320-1.5c turbocharged, water cooled, 4-cycle diesel, 6 cylinder, 661 CID (10 800 cc), 4.92" (125 mm) bore x 5.79" (147 mm) stroke.
 SAE net horsepower 300 HP (224 kW) @ 2,000 rpm
 Maximum torque 910 ft.-lbs. (126 kg-m or 1 234 N-m) @ 1,300 rpm
 Starter Electric, 24V
 Alternator 70 amp
 Air cleaner Double element
 Governor Variable speed, mechanical

HYDRAULIC SYSTEM

Two variable displacement axial piston pumps and one gear pump for pilot controls, with Link-Belt Intelligent Quantum (IQ) Control. Link-Belt IQ Control includes: four selectable working modes, presettable allied attachment work mode, free swing, one-touch decelerator, auto idling system, power up mode, boom priority mode, selectable cushion attachment control, and three safety lockout switches including gate lock.

Hydraulic Pumps

Two variable volume piston pumps provide power for attachment, swing and travel.

Maximum flow 2 x 90 gpm (2 x 340 l/min)
 Pilot pump max. flow 8.2 gpm (31.0 l/min)

Relief Valve Settings

Boom up/arm/bucket/travel 4,620 psi (325 kg/cm²)
 in Power Up Mode 5,050 psi (355 kg/cm²)
 Swing circuit 4,050 psi (285 kg/cm²)
 Boom down circuit 3,555 psi (250 kg/cm²)

Hydraulic Cylinders – number of cylinders – bore x rod x stroke.

Boom 2 – 6.3" x 4.3" x 62.2" (160 mm x 110 mm x 1 580 mm)
 Arm 1 – 7.1" x 5.1" x 75.2" (180 mm x 130 mm x 1 910 mm)
 Bucket 1 – 6.3" x 4.3" x 51.4" (160 mm x 110 mm x 1 306 mm)

Oil Filtration

Nephron filter 1 micron
 Return, pilot, drain filter 10 micron
 Suction filter 105 micron

Control Valve One 9-spool valve with auxiliary spool.

CAB AND CONTROLS

Cab mounted on 6 fluid filled mountings. Features include a safety glass front window and LEXAN® MARGARD™ rear and side windows, reclining/sliding cloth upholstered suspension seat with headrest and armrests, heater, oscillating fan, AM/FM radio, cigarette lighter, pop-up skylight window, and intermittent wiper with washer. Front window slides upward for storage and the lower front window is removable. Control levers are located in 4-position tilting control consoles. Reliable soft-touch switches. Easy-to-read illuminated LCD service monitor keeps operator in touch with critical machine functions.

SWING

Planetary reduction powered by axial piston motor. Internal ring gear with grease cavity for swing pinion. Swing bearing is single-row shear type ball bearing. Swing cushion valve and dual stage relief valves for smooth swing deceleration and stops. Mechanical disc swing brake.

Swing speed 0 – 8.5 rpm
 Tail swing 11' 10" (3.60 m)
 Swing torque 105,100 ft.-lbs. (14 532 kg-m)

UNDERCARRIAGE

X-style carbody is integrally welded for strength and durability. Grease cylinder track adjusters with shock absorbing springs. LC undercarriage with sealed track, lubricated rollers and idlers. Triple grouser track shoes.

Carrier rollers 2 per side
 Track rollers 9 per side
 Shoes 51 per side
 Shoe width 35.4" (900 mm)
 Ground pressure 7.68 psi (.54 kg/cm²)

Alternating inner and outer flanged rollers are used to assure proper track rail to roller engagement.

TRAVEL SYSTEM

Three-speed independent hydrostatic travel with compact axial piston motors for increased performance. Hydraulic motor powered output shaft coupled to a planetary reduction unit and track sprocket. All hydraulic components mounted within the width of side frame. Travel speeds selected by floor mounted foot switch.

Automatic Downshift: When operating in difficult travel conditions or on slopes, travel motor automatically downshifts from high speed to mid-range speed for increased tractive effort. Machine will automatically return to high speed after traveling out of difficult terrain.

Single Pedal Travel: Engage both tracks simultaneously.

Max. travel speed 1.4/1.9/3.1 mph (2.3/3.1/ 5.0 km/h)
 Tractive effort 76,990 lbs. (34 924 kg)
 Gradeability 70%

Spring applied, hydraulically released disc parking brake built into each motor. Each travel motor equipped with counterbalance valve to prevent over-speeding down an incline and dual stage reliefs for smooth starts and stops.

LUBRICANT & COOLANT CAPACITY

Hydraulic tank 55 gal. (210 liters)
 Hydraulic system 119 gal. (450 liters)
 Final drive (per side) 1.8 gal. (7 liters)
 Swing drive 5.5 gal. (21 liters)
 Engine 9 gal. (34 liters)
 Fuel tank 172 gal. (650 liters)
 Cooling system 7.2 gal. (27 liters)

ATTACHMENT

Available Arms

Digging Force

• 8' 2" (2.50 m) 53,135 lbs. (24 097 kg)
 • 11' 0" (3.36 m) 44,006 lbs. (19 957 kg)
 • 13' 1" (4.00 m) 39,132 lbs. (17 747 kg)
 • 17' 8" (5.40 m) 31,657 lbs. (14 357 kg)
 Bucket digging force 54,065 lbs. (24 519 kg)

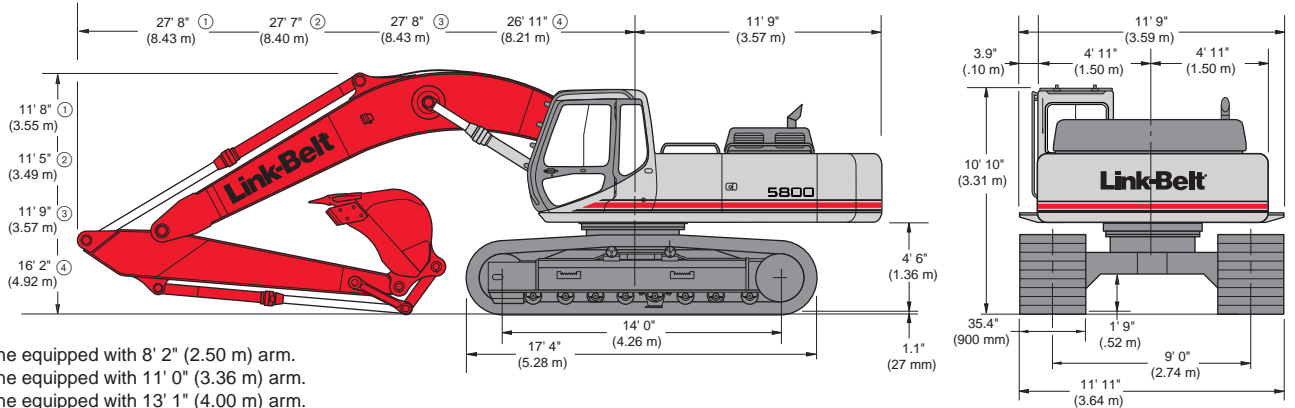
OPERATING WEIGHT

Working weight with 35.4" (900 mm) shoes, 13' 1" (4.00 m) arm and 2,905 lb. (1 318 kg) bucket 99,800 lbs. (45 269 kg)

STANDARD EQUIPMENT

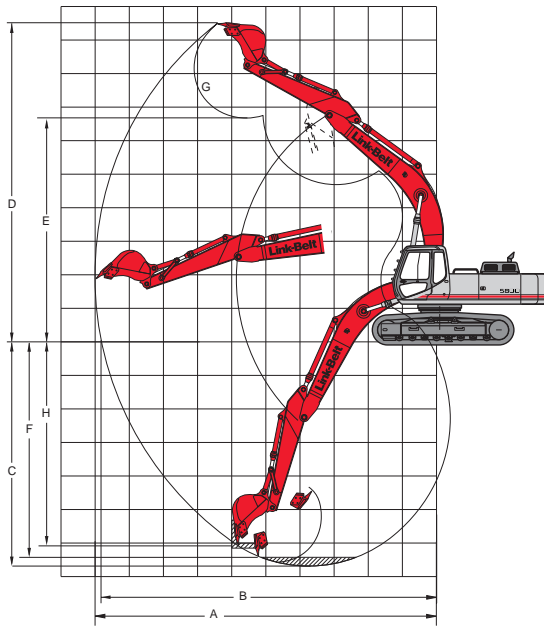
- Cummins M11C320-1.5c diesel engine
- 70 amp alternator
- Double element air filter
- 24-volt starting system, battery lighting system, sealed heavy duty electrical connectors
- Ether starting aid
- Intelligent Quantum (IQ) Control with manual backup system
- Self-diagnostic system
- Nephron filtration system
- Remote oil cooler
- Four selectable working modes
- One-touch decelerator
- Auto idling system
- Auto engine warm up
- Power up mode
- Integral cylinder cushioning
- Cushion attachment control
- Boom and arm holding valves
- Free swing control
- 3-speed hydrostatic travel
- Boom priority mode
- Single pedal travel
- Travel alarm
- Spare accessory valve
- Sliding/reclining, suspension cloth upholstered seat with 4-position heavy tilting consoles and sliding platform
- Illuminated LCD service monitor
- Heater, fan, seat belt, horn, dome light, AM/FM radio, digital clock, floor mat, cigarette lighter
- Safety glass front window with automatic lock and intermittent windshield wiper and washer, large LEXAN® rear/side windows
- Vandalism locks/guarding
- Catwalks
- Hand grab rails both sides
- Upper and lower undercovers
- LC undercarriage
- 19,100 lbs. (8 660 kg) counterweight
- Quick disconnects in hydraulic system for easy pressure checking

DIMENSIONS



- ① Machine equipped with 8' 2" (2.50 m) arm.
- ② Machine equipped with 11' 0" (3.36 m) arm.
- ③ Machine equipped with 13' 1" (4.00 m) arm.
- ④ Machine equipped with 17' 8" (5.40 m) arm.

WORKING RANGES



	23' 4" (7.10 m) Boom			
	8' 2" Arm (2.50 m)	11' 0" Arm (3.36 m)	13' 1" Arm (4.00 m)	17' 8" Arm (5.40 m)
A Max. digging radius	36' 9" 11.20 m	39' 2" 11.94 m	41' 0" 12.50 m	45' 3" 13.78 m
B Max. digging radius @ ground level	35' 11" 10.95 m	38' 5" 11.71 m	40' 3" 12.28 m	44' 7" 13.58 m
C Max. digging depth	22' 7" 6.89 m	25' 5" 7.75 m	27' 6" 8.39 m	32' 1" 9.79 m
D Max. digging height	35' 6" 10.81 m	36' 3" 11.06 m	36' 10" 11.22 m	38' 4" 11.68 m
E Max. dumping height	24' 8" 7.53 m	25' 6" 7.78 m	26' 1" 7.94 m	27' 7" 8.40 m
F Digging depth – 8' (2.44 m) level bottom	22' 0" 6.71 m	24' 11" 7.60 m	27' 1" 8.26 m	31' 8" 9.64 m
G Bucket wrist angle	182°	182°	182°	182°
H Max. vertical wall depth	18' 2" 5.54 m	20' 11" 6.37 m	22' 10" 6.96 m	27' 6" 8.39 m

BUCKETS

Bucket Type	Capacity	Width Outside Lip	Weight	# Teeth	Arms			
					8' 2" (2.50 m)	11' 0" (3.36 m)	13' 1" (4.00 m)	17' 8" (5.40 m)
ESCO STDP	1.62 cu. yd. (1.24 m ³)	36" (914 mm)	2,764 lb. (1 254 kg)	4	H	H	H	H
	2.00 cu. yd. (1.53 m ³)	42" (1 067 mm)	3,057 lb. (1 387 kg)	5	H	H	H	M
	2.38 cu. yd. (1.82 m ³)	48" (1 219 mm)	3,252 lb. (1 475 kg)	5	H	H	H	L
	2.75 cu. yd. (2.10 m ³)	54" (1 372 mm)	3,566 lb. (1 618 kg)	6	H	M	M	L
	3.00 cu. yd. (2.29 m ³)	60" (1 524 mm)	3,752 lb. (1 702 kg)	6	H	M	L	N/A
ESCO HDP	1.62 cu. yd. (1.24 m ³)	36" (914 mm)	3,297 lb. (1 496 kg)	4	H	H	H	H
	2.00 cu. yd. (1.53 m ³)	42" (1 067 mm)	3,621 lb. (1 642 kg)	5	H	H	H	M
	2.38 cu. yd. (1.82 m ³)	48" (1 219 mm)	3,876 lb. (1 758 kg)	5	H	H	M	L
	2.75 cu. yd. (2.10 m ³)	54" (1 372 mm)	4,221 lb. (1 915 kg)	6	H	M	M	N/A
ESCO XDP	1.25 cu. yd. (0.96 m ³)	30" (762 mm)	3,572 lb. (1 620 kg)	3	H	H	H	H
	1.50 cu. yd. (1.15 m ³)	36" (914 mm)	3,880 lb. (1 760 kg)	4	H	H	H	H
	1.88 cu. yd. (1.44 m ³)	42" (1 067 mm)	4,247 lb. (1 926 kg)	4	H	H	H	M
ESCO HDC	1.75 cu. yd. (1.34 m ³)	39" (991 mm)	3,017 lb. (1 368 kg)	5	H	H	H	H
	2.12 cu. yd. (1.62 m ³)	45" (1 143 mm)	3,371 lb. (1 529 kg)	5	H	H	H	M

Approval Code For Arm/Bucket Combinations

H Heavy material (up to 3,370 lbs./cu. yd.)
M Medium material (up to 2,700 lbs./cu. yd.)
L Light material (up to 2,020 lbs./cu. yd.)
N/A Not applicable

5800 Quantum Lifting Capacities

8' 2" (2.50 m) ARM EQUIPPED WITH 3,280 LB. (1 488 KG) BUCKET POWER UP MODE APPLIED															
Bucket Hook Height		Radius of Load													
		10' 0" (3.05 m)		15' 0" (4.57 m)		20' 0" (6.10 m)		25' 0" (7.62 m)		30' 0" (9.14 m)		Cap. at Max. Reach			
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side		
+25' 0" (7.62 m)	lbs.													13,450*	13,450*
	kg													6 101*	6 101*
+20' 0" (6.10 m)	lbs.					25,500*	25,500*	22,320*	19,970					13,340*	11,990
	kg					11 567*	11 567*	10 124*	9 058					6 051*	5 439
+15' 0" (4.57 m)	lbs.		38,890*	38,890*	29,030*	27,290	24,010*	19,240	21,180*	14,220	13,570*	10,910			
	kg		17 641*	17 641*	13 168*	12 379	10 891*	8 727	9 607*	6 450	6 155*	4 949			
+10' 0" (3.05 m)	lbs.		45,820*	38,920	32,600*	25,660	25,880*	18,400	21,860*	13,820	14,110*	10,410			
	kg		20 784*	17 654	14 787*	11 639	11 739*	8 346	9 916*	6 269	6 400*	4 722			
+5' 0" (1.52 m)	lbs.		34,240*	34,240*	35,460*	24,440	27,310*	17,670	21,490	13,420	15,020*	10,390			
	kg		15 531*	15 531*	16 085*	11 086	12 388*	8 015	9 748	6 087	6 813*	4 713			
Ground Line	lbs.		40,500*	36,480	35,990*	23,800	27,920*	17,200	21,200	13,160	16,430*	10,890			
	kg		18 371*	16 547	16 325*	10 796	12 665*	7 802	9 616	5 969	7 453*	4 940			
-5' 0" (1.52 m)	lbs.	35,690*	35,690*	45,880*	37,840	34,970*	23,700	27,330*	17,020	21,170	13,130	18,180*	12,090		
	kg	16 189*	16 189*	20 811*	17 164	15 862*	10 750	12 397*	7 720	9 603	5 956	8 246*	5 484		
-10' 0" (3.05 m)	lbs.	50,270*	50,270*	41,020*	37,860	31,950*	23,940	24,840*	17 180			16,240*	14,580		
	kg	22 802*	22 802*	18 607*	17 173	14 493*	10 859	11 267*	7 793			7 366*	6 613		
-15' 0" (4.57 m)	lbs.	41,020*	41,020*	33,210*	33,210*	25,960*	24,550								
	kg	18 607*	18 607*	15 064*	15 064*	11 775*	11 136								

11' 0" (3.36 m) ARM EQUIPPED WITH 3,090 LB. (1 402 KG) BUCKET POWER UP MODE APPLIED															
Bucket Hook Height		Radius of Load													
		10' 0" (3.05 m)		15' 0" (4.57 m)		20' 0" (6.10 m)		25' 0" (7.62 m)		30' 0" (9.14 m)		Cap. at Max. Reach			
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side		
+25' 0" (7.62 m)	lbs.													10,140*	10,140*
	kg													4 600*	4 600*
+20' 0" (6.10 m)	lbs.							20,170*	20,170*	18,560*	14,830	10,090*	10,090*		
	kg							9 149*	9 149*	8 419*	6 727	4 577*	4 577*		
+15' 0" (4.57 m)	lbs.					26,290*	26,290*	22,130*	19,670	19,650*	14,480	10,290*	9,740		
	kg					11 925*	11 925*	10 038*	8 922	8 913*	6 568	4 668*	4 418		
+10' 0" (3.05 m)	lbs.		42,560*	40,880	30,120*	26,410	24,360*	18,750	20,810*	13,990	10,750*	9,310			
	kg		19 305*	18 543	13 662*	11 980	11 050*	8 505	9 439*	6 346	4 876*	4 223			
+5' 0" (1.52 m)	lbs.		47,340*	38,160	33,920*	24,950	26,290*	17,910	21,590	13,500	11,490*	9,260			
	kg		21 473*	17 309	15 386*	11 317	11 925*	8 124	9 793	6 124	5 212*	4 200			
Ground Line	lbs.	19,980*	19,980*	45,330*	37,000	35,780*	24,010	27,530*	17,290	21,170	13,120	12,630*	9,620		
	kg	9 063*	9 063*	20 562*	16 783	16 230*	10 891	12 488*	7 843	9 603	5 951	5 729*	4 364		
-5' 0" (1.52 m)	lbs.	30,610*	30,610*	48,280*	37,140	35,670*	23,620	27,690*	16,950	20,950	12,920	14,360*	10,490		
	kg	13 885*	13 885*	21 900*	16 847	16 180*	10 714	12 560*	7 689	9 503	5 861	6 514*	4 758		
-10' 0" (3.05 m)	lbs.	42,350*	42,350*	44,800*	37,440	33,870*	23,660	26,380*	16,920	20,510*	12,980	16,730*	12,220		
	kg	19 210*	19 210*	20 321*	16 983	15 363*	10 732	11 966*	7 675	9 303*	5 888	7 589*	5 543		
-15' 0" (4.57 m)	lbs.	51,840*	51,840*	38,710*	37,790	29,730*	24,040	22,690*	17,230			13,070*	13,070*		
	kg	23 515*	23 515*	17 559*	17 142	13 486*	10 905	10 292*	7 816			5 929*	5 929*		
-20' 0" (6.10 m)	lbs.	36,660*	36,660*	28,570*	28,570*	21,450*	21,450*								
	kg	16 629*	16 629*	12 959*	12 959*	9 730*	9 730*								

13' 1" (4.00 m) ARM EQUIPPED WITH 2,905 LB. (1 318 KG) BUCKET POWER UP MODE APPLIED																
Bucket Hook Height		Radius of Load														
		10' 0" (3.05 m)		15' 0" (4.57 m)		20' 0" (6.10 m)		25' 0" (7.62 m)		30' 0" (9.14 m)		35' 0" (10.67m)		Cap. at Max. Reach		
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	
+25' 0" (7.62 m)	lbs.														8,290*	8,290*
	kg														3 760*	3 760*
+20' 0" (6.10 m)	lbs.									17,240*	15,000				8,260*	8,260*
	kg									7 820*	6 804				3 747*	3 747*
+15' 0" (4.57 m)	lbs.							20,440*	19,870	18,320*	14,580	12,230*	10,930	8,440*	8,440*	
	kg							9 272*	9 013	8 310*	6 613	5 548*	4 958	3 828*	3 828*	
+10' 0" (3.05 m)	lbs.	26,910*	26,910*	38,640*	38,640*	28,220*	26,820	22,860*	18,910	19,660*	14,020	16,170*	10,670	8,830*	8,470	
	kg	12 206*	12 206*	17 527*	17 527*	12 801*	12 166	10 369*	8 578	8 918*	6 359	7 335*	4 840	4 005*	3 842	
+5' 0" (1.52 m)	lbs.	15,590*	15,590*	45,700*	38,710	32,090*	25,140	25,080*	17,940	20,930*	13,450	16,790	10,360	9,460*	8,400	
	kg	7 072*	7 072*	20 730*	17 559	14 556*	11 404	11 376*	8 138	9 494*	6 101	7 616	4 699	4 291*	3 810	
Ground Line	lbs.	22,160*	22,160*	48,170*	36,930	34,790*	23,940	26,700*	17,180	21,050	12,980	16,520	10,110	10,410*	8,670	
	kg	10 052*	10 052*	21 850*	16 751	15 781*	10 859	12 111*	7 793	9 548	5 888	7 493	4 586	4 722*	3 933	
-5' 0" (1.52 m)	lbs.	29,200*	29,200*	48,640*	36,480	35,440*	23,320	27,390*	16,710	20,720	12,680	14,960*	9,990	11,840*	9,360	
	kg	13 245*	13 245*	22 063*	16 547	16 076*	10 578	12 424*	7 580	9 399	5 752	6 786*	4 531	5 371*	4 246	
-10' 0" (3.05 m)	lbs.	40,000*	40,000*	46,320*	36,640	34,440*	23,200	26,750*	16,560	20,640	12,610			14,110*	10,710	
	kg	18 144*	18 144*	21 011*	16 620	15 622*	10 524	12 134*	7 512	9 362	5 720			6 400*	4 858	
-15' 0" (4.57 m)	lbs.	52,340*	52,340*	41,480*	37,160	31,390*	23,450	24,270*	16,730					15,240*	13,360	
	kg	23 741*	23 741*	18 815*	16 856	14 239*	10 637	11 009*	7 589					6 913*	6 060	
-20' 0" (6.10 m)	lbs.	44,750*	44,750*	33,250*	33,250*	25,240*	24,100	18,130*	17,350							
	kg	20 299*	20 299*	15 082*	15 082*	11 449*	10 932	8 224*	7 870							

5800 Quantum Lifting Capacities continued

17' 8" (5.40 m) ARM EQUIPPED WITH 2,457 LB. (1 114 kg) BUCKET POWER UP MODE APPLIED													
Bucket Hook Height		Radius of Load											
		10' 0" (3.05 m)		15' 0" (4.57 m)		20' 0" (6.10 m)		25' 0" (7.62 m)		30' 0" (9.14 m)		35' 0" (10.67m)	
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
+25' 0" (7.62 m)	lbs.												
+20' 0" (6.10 m)	lbs.											12,270*	11,640
+15' 0" (4.57 m)	lbs.											5 566*	5 280
+10' 0" (3.05 m)	lbs.											15,540*	15,140
+5' 0" (1.52 m)	lbs.	32,150*	32,150*	38,680*	38,680*	27,900*	26,240	22,280*	18,500	18,870*	13,750	16,610*	10,500
Ground	lbs.	14 583*	14 583*	17 545*	17 545*	12 655*	11 902	10 106*	8 392	8 559*	6 237	7 534*	4 763
Line	kg	11 317*	11 317*	20 671*	17 182	14 424*	11 104	11 163*	7 915	9 217	5 933	7 498	4 577
-5' 0" (1.52 m)	lbs.	28,250*	28,250*	47,960*	36,170	34,250*	23,310	26,280*	16,670	20,640*	12,570	16,190	9,780
-10' 0" (3.05 m)	lbs.	12 814*	12 814*	21 755*	16 407	15 536*	10 573	11 921*	7 562	9 362*	5 702	7 344	4 436
-15' 0" (4.57 m)	lbs.	33,900*	33,900*	47,930*	35,630	34,790*	22,730	26,860*	16,220	20,300*	12,270	16,010	9,610
-20' 0" (6.10m)	lbs.	15 377*	15 377*	21 741*	16 162	15 781*	10 310	12 184*	7 357	9 208*	5 566	7 262	4 359
-25' 0" (7.62m)	lbs.	43,160*	43,160*	45,650*	35,740	33,660*	22,630	26,070*	16,100	20,240*	12,200	15,070	9 690
	kg	19 577*	19 577*	20 707*	16 212	15 268*	10 265	11 825*	7 303	9 181*	5 534	6 836	4 395
	lbs.	55,150*	55,150*	40,690*	36,330	30,420*	22,920	23,420*	16,310	17,740*	12,460		
	kg	25 016*	25 016*	18 457*	16 479	13 799*	10 397	10 623*	7 398	8 047*	5 652		
	lbs.	44,620*	44,620*	31,990*	31,990*	23,890*	23,520	17,190*	16,970				
	kg	20 240*	20 240*	14 511*	14 511*	10 837*	10 669	7 797*	7 698				

17' 8" (5.40 m) ARM (CON'T)					
Bucket Hook Height		Radius of Load			
		40' 0" (12.19 m)		Cap. at Max. Reach	
		End	Side	Side	
+25' 0" (7.62 m)	lbs.			6,690*	6,690*
+20' 0" (6.10 m)	lbs.			3 035*	3 035*
+15' 0" (4.57 m)	lbs.			6,670*	6,670*
+10' 0" (3.05 m)	lbs.			3 026*	3 026*
+5' 0" (1.52 m)	lbs.			6,800*	6,800*
Ground	lbs.			3 084*	3 084*
Line	kg	10,040*	8,380	7,090*	7,020
-5' 0" (1.52 m)	lbs.	4 554*	3 801	3 216*	3 184
-10' 0" (3.05 m)	lbs.	11,280*	8,140	7,550*	6,920
-15' 0" (4.57 m)	lbs.	5 117*	3 692	3 425*	3 139
-20' 0" (6.10m)	lbs.	11,210*	7,920	8,240*	7,060
-25' 0" (7.62m)	lbs.	5 085*	3 593	3 738*	3 202
	kg			9,250*	7,480
	lbs.			4 196*	3 393
	lbs.			10,760*	8,300
	kg			4 881*	3 765
	lbs.			13,200*	9,770
	kg			5 988*	4 432
	lbs.			13,720*	12,610
	kg			6 223*	5 720

Notes: Excavator lifting capacities

- Lifting capacities shown should not be exceeded. Weight of all lifting accessories must be deducted from the above lifting capacities.
- Lifting capacities are based on machine standing on firm, uniform supporting surface. User must make allowances for job conditions such as soft or uneven ground.
- Lifting capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities. Capacities marked with an asterisk (*) are limited by hydraulic capacities.
- Least stable position is over the side.
- Lifting capacities are in compliance with SAE J1097. Operator should be fully acquainted with the Operator's Manual & Operating Safety Booklet, furnished by manufacturer before operating the machine.
- Capacities apply only to the machine as originally manufactured and normally equipped by LBX Company, LLC.

Intelligent Quantum (IQ) Control "The Smart System"

- **Four selectable working modes.** The mode selection system enables the operator to program the machine's speed to the job application:
H: Heavy Mode For heavy digging jobs, or any time you need extra power
S: Standard Mode For standard digging and loading operations
L: Light Mode For grading and other jobs where safety and precision are more important than power
F: Fine Mode For lifting and operations that need fingertip accuracy
- **Preselectable allied attachment work mode**
- **Selectable cushion attachment control**
- **Self-Diagnostic System**
- **Auto engine warm up**

Hose Burst Check Valves (HBCV) Optional

Integral Cylinder Cushion Design

Attachment
New design heavy duty box section attachment with central lube bank.

Illuminated LCD Service Monitor
Programmable in 14 languages.

Operator's Control Station
Mounted on 6 fluid mountings with: heater, oscillating fan, seat belt, horn, dome light, AM/FM radio, digital clock, and 3 safety control lockouts including a gate lock safety shutoff.

Buckets
Wide variety of quality Escó buckets with Super V tooth system.

Quantum

SERIES EXCAVATORS

Power Up Button
9% power increase at the touch of a button.

Boom Priority Mode
Increases boomhoist speed relative to swing, maximizing efficiency when loading within a 90° work area. (Standard on 4300 & 5800)

One-Touch Decelerator or Auto Idling
Operator has choice of one-touch decelerator or programmable auto idling.

Hand Grab Rails
Standard on operator's cab and on top of both sides of machinery house.

Boom Holding Valves

Nephron Oil Filtration System
Cleans the hydraulic fluid of condensation and all contaminants over one micron in diameter.

Diesel Engines
Turbocharged, reliable, fuel efficient, and quiet.

Swing-Out Oil Cooler
Opens 60° for easy maintenance. (Standard on 2800, 3400, 3900 & 4300)

Long Undercarriage
LC undercarriage with heavy duty excavator style components.

Auxiliary Spool
For allied attachments.

Track Frame
Reduces soil buildup.

Alternating Inner/Outer Flanged Rollers
Assures proper rail engagement; filled with synthetic oil.

Operator's Seat
Reclining/sliding fully suspended seat for all day comfort.

Control Console
4-position tilting/sliding.

Undercovers
Fully covered upper and lower.

Remote Mounted Severe Duty Oil Cooler
Driven by a spare hydraulic pump, this high ambient cooling package cools the hydraulic oil for all-day, efficient operation. (Standard on 5800)

Superior Visibility
Safety glass front window. LEXAN® MARGARD™ rear and side windows eliminate need for vandal covers.

Carbody
X-style carbody for strength and durability.

Three Speed Travel
Low, mid-range, and high speed controlled by foot switch.
Automatic downshift function
Automatically shifts machine from high to mid-range speed when traveling on an incline for increased tractive effort.

Swing
Selectable free swing mode provides extra smooth swing. Integral swing cushion valve for smooth stops.

Single pedal travel Standard on 3400, 3900, 4300 and 5800.

LBX Company LLC Lexington, Kentucky

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