

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

• 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)

Digging Force

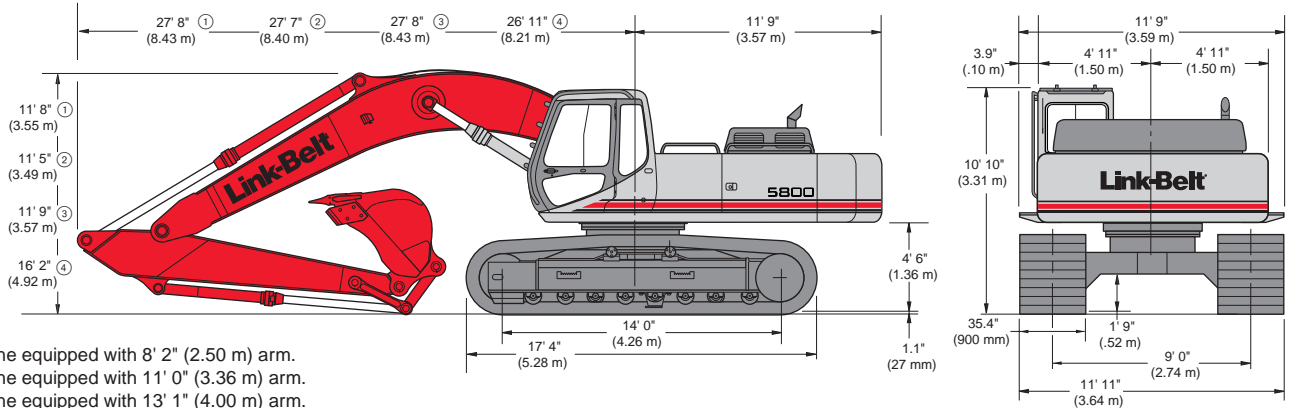
OPERATING WEIGHT

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

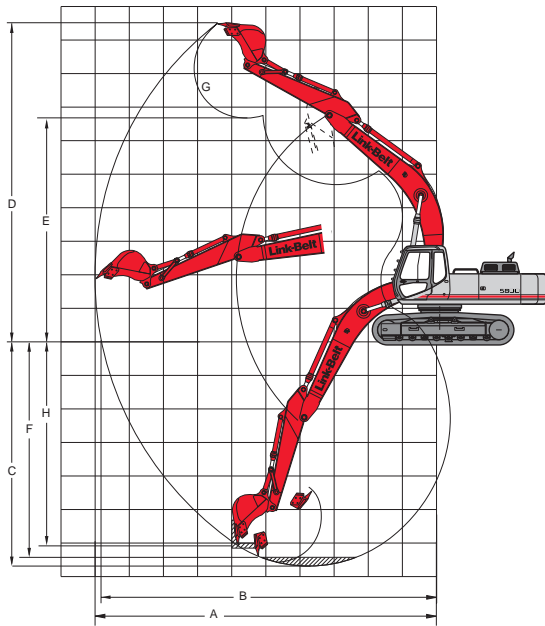
- Cummins M11C320-1.5c diesel engine
- 70 amp alternator
- Double element air filter
- 24-volt starting system, battery lighting system, sealed heavy duty electrical connectors
- Ether starting aid
- Intelligent Quantum (IQ) Control with manual backup system
- Self-diagnostic system
- Nephron filtration 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* | 24,400 | 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. kg | | | | | | | | | | | | |
| +20' 0" (6.10 m) | lbs. kg | | | | | | | | | | | 12,270* | 11,640 |
| +15' 0" (4.57 m) | lbs. kg | | | | | | | | | 15,540* | 15,140 | 14,130* | 11,350 |
| +10' 0" (3.05 m) | lbs. kg | | | | | | | 19,500* | 19,250 | 17,180* | 14,480 | 15,620* | 10,940 |
| +5' 0" (1.52 m) | lbs. kg | 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. kg | 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 | lbs. kg | 24,950* | 24,950* | 45,570* | 37,880 | 31,800* | 24,480 | 24,610* | 17,450 | 20,320* | 13,080 | 16,530 | 10,090 |
| -5' 0" (1.52 m) | lbs. 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 |
| -10' 0" (3.05 m) | lbs. kg | 28,250* | 28,250* | 47,960* | 36,170 | 34,250* | 23,310 | 26,280* | 16,670 | 20,640* | 12,570 | 16,190 | 9,780 |
| -15' 0" (4.57 m) | lbs. kg | 12 814* | 12 814* | 21 755* | 16 407 | 15 536* | 10 573 | 11 921* | 7 562 | 9 362* | 5 702 | 7 344 | 4 436 |
| -20' 0" (6.10m) | lbs. kg | 33,900* | 33,900* | 47,930* | 35,630 | 34,790* | 22,730 | 26,860* | 16,220 | 20,300* | 12,270 | 16,010 | 9,610 |
| -25' 0" (7.62m) | lbs. kg | 15 377* | 15 377* | 21 741* | 16 162 | 15 781* | 10 310 | 12 184* | 7 357 | 9 208* | 5 566 | 7 262 | 4 359 |
| | lbs. kg | 43,160* | 43,160* | 45,650* | 35,740 | 33,660* | 22,630 | 26,070* | 16,100 | 20,240* | 12,200 | 15,070 | 9,690 |
| | lbs. 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. kg | 55,150* | 55,150* | 40,690* | 36,330 | 30,420* | 22,920 | 23,420* | 16,310 | 17,740* | 12,460 | | |
| | lbs. kg | 25 016* | 25 016* | 18 457* | 16 479 | 13 799* | 10 397 | 10 623* | 7 398 | 8 047* | 5 652 | | |
| | lbs. kg | 44,620* | 44,620* | 31,990* | 31,990* | 23,890* | 23,520 | 17,190* | 16,970 | | | | |
| | lbs. 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. kg | | | 6,690* | 6,690* |
| +20' 0" (6.10 m) | lbs. kg | | | 3 035* | 3 035* |
| +15' 0" (4.57 m) | lbs. kg | | | 6,670* | 6,670* |
| +10' 0" (3.05 m) | lbs. kg | | | 3 026* | 3 026* |
| +5' 0" (1.52 m) | lbs. kg | | | 6,800* | 6,800* |
| Ground | lbs. kg | | | 3 084* | 3 084* |
| Line | lbs. kg | 10,040* | 8,380 | 7,090* | 7,020 |
| -5' 0" (1.52 m) | lbs. kg | 4 554* | 3 801 | 3 216* | 3 184 |
| -10' 0" (3.05 m) | lbs. kg | 11,280* | 8,140 | 7,550* | 6,920 |
| -15' 0" (4.57 m) | lbs. kg | 5 117* | 3 692 | 3 425* | 3 139 |
| -20' 0" (6.10m) | lbs. kg | 11,210* | 7,920 | 8,240* | 7,060 |
| -25' 0" (7.62m) | lbs. kg | 5 085* | 3 593 | 3 738* | 3 202 |
| | lbs. kg | | | 9,250* | 7,480 |
| | lbs. kg | | | 4 196* | 3 393 |
| | lbs. kg | | | 10,760* | 8,300 |
| | lbs. kg | | | 4 881* | 3 765 |
| | lbs. kg | | | 13,200* | 9,770 |
| | lbs. kg | | | 5 988* | 4 432 |
| | lbs. kg | | | 13,720* | 12,610 |
| | lbs. 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 Esco buckets with Super V tooth system.

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.

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.

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.

Single pedal travel

- Standard on 3400, 3900, 4300 and 5800.

Quantum

SERIES EXCAVATORS



Company LLC

Lexington, Kentucky

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