# specifications

Operating Weight: 61,729 lbs. (28 000 kg) SAE Net Horsepower: 177 HP (132 kW) Bucket Range: .50 - .86 yd3 (.38 - .66 m3)

#### Engine

Isuzu AH-4HK1X Tier 3 turbocharged diesel engine with electronic fuel control, 4-cylinder, water-cooled, EGR with cooler, air-to-air intercooler, fuel cooler, auto idle start, neutral safety start, glow plugs, auto warm-up, EPF engine protection, dual stage fuel filtration, remote oil filter, green plug oil drain.

SAE net horsepower	177 HP (132 kW) @ 2,000 rpm
Displacement	5.2 L
Maximum torque	469 lbf-ft (636 N-m) @ 1,500 rpm
Starter	24V-5.0kW
Alternator	50 amp
Battery	

#### Cab and Controls

Pressurized cab with climate control a/c and heat with defroster, LCD monitor, illuminated soft-touch switches, loweffort controls pre-wired for auxiliary hydraulics, control pattern changer, single pedal travel, sliding LEXAN® MARGARD® windows, safety glass front window with automatic locking system and vandal cover, intermittent windshield wiper with washer, emergency rear window exit, polycarbonate roof hatch with sunshade, shockless cab suspension with four fluid mountings, KAB® reclining suspension seat, sliding 4-position tilting control consoles, AM/FM radio, digital clock, dome light, seat belt, coat hook, cup holder, storage compartments, floor mat, footrests, ashtray, 24-volt cigarette lighter, 12-volt outlet, travel alarm, handrail, mirrors.

Four selectable working modes, anti-theft password protection system, on-board self-diagnostic system with memory, auto-idling system, one-touch decelerator, auto power boost, gate lock safety shutoff.

A/C output	18,100 BTU/hr
Heater output	20,150 BTU/hr
Sound level (inside cab)	70.5 dB(A)
Sound level (exterior)	99.7 dB(A)

#### Hydraulic System

Open-center system, two variable displacement axial piston pumps and one gear pump for pilot controls, main control valve with one 4-spool valve and one 5-spool valve with auxiliary spool - stackable, oil cooler, auto power boost, boom and arm holding valves, o-ring face seals, 6 micron return filter, firewall.

Hydraulic Pumps

Pliot pump maximum flow	5.3 gpm (20 I/min)
Relief Valve Settings	
Boom/arm out	4,970 psi (343 bar)
in Power-Boost Mode	5,340 psi (368 bar)
Arm in	3,060 psi (211 bar)
Bucket	4,260 psi (294 bar)
Swing circuit	3,920 psi (270 bar)
Travel	4,970 psi (343 bar)
Hydraulic Cylinders	

	number of cylinders – bore x rod x stroke
Boom	2 – 5.1" x 3.5" x 52.6"
	(130 mm x 90 mm x 1,335 mm)
Arm	1 – 5.9" x 4.1" x 68.4"
	(150 mm x 105 mm x 1,737 mm)
Bucket	1 – 3.7" x 2.6" x 34.7"
	(95 mm x 65 mm x 881 mm)

### Hydraulic Oil Filtration

Return filter	6 micron
Pilot filter	8 micron
Suction screen	105 micron



#### 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. Mechanical disc swing brake. Auto power swing.

Swing speed	0 – 10.7 rpm
Swing radius front	20′ 5″ (6.22 m)
Swing radius rear	9′ 8″ (2.95 m)
Swing torque	51,480 lbf-ft. (69.8 kN•m)

#### Undercarriage

X Pattern carbody with 15' 3" (4.65 m) LC long undercarriage by 8' 6" (2.6 m) track gauge, sealed and strutted track chain with track guide, sealed rollers and idlers, two-speed independent hydrostatic travel with compact planetary final drive, disc type brakes, adjustable track tension, swivel guard.

Carrier rollers	2 per side
Track rollers	9 per side
Track link pitch	7.48" (190 mm)
Shoes	51 per side
Shoe width	31.5" (800 mm)
Ground pressure	6.1 psi (.42 bar)

#### Lubricant and Coolant Capacity

Fuel tank	108.31 gal. (410 liters)
Hydraulic tank	38.8 gal. (147 liters)
Hydraulic system	66.04 gal. (250 liters)
Final drive (per side)	1.3 gal. (5.0 liters)
Swing drive	2.56 gal. (9.7 liters)
Engine oil	6.1 gal. (23.1 liters)
Cooling system	6.65 gal. (25.2 liters)

#### Travel System

Two-speed independent hydrostatic travel with compact axial piston motors. Hydraulic motor powered output shaft coupled to a planetary reduction unit and track sprocket. All hydraulic components mounted within the width of side frame. Automatic downshift. Single pedal travel. Spring applied, hydraulically released disc parking brake built into each motor. Each travel motor equipped with counterbalance valve to prevent overspeeding down an incline.

Max. travel speed	2.2 - 3.4 mph (3.5 - 5.5 km/h)
Drawbar pull	
	70% (35°)

#### Attachment

Boom	33′ 10″ (10.3 m)
Available Arms	Digging Force*
• 26′ 3″ (8.00 m)	9,060 lbf (40.3 kN)
Bucket Digging Force	17,310 lbf (77 kN)

\*Digging force ratings are based on ISO 6015, "Earthmoving Machinery - Hydraulic Excavators - Tool Forces.

#### Fuel Usage\*

Heavy	. 5.01 gal / hr (18.97 liter / hr
Average	. 4.34 gal / hr (16.44 liter / hr
Light	

\*Fuel economy varies widely depending on application, "Heavy" represents nearly continuous operation in tough digging applications in SP Mode. "Light" represents easy digging applications utilizing the machine about 50% of the time in SP Mode.

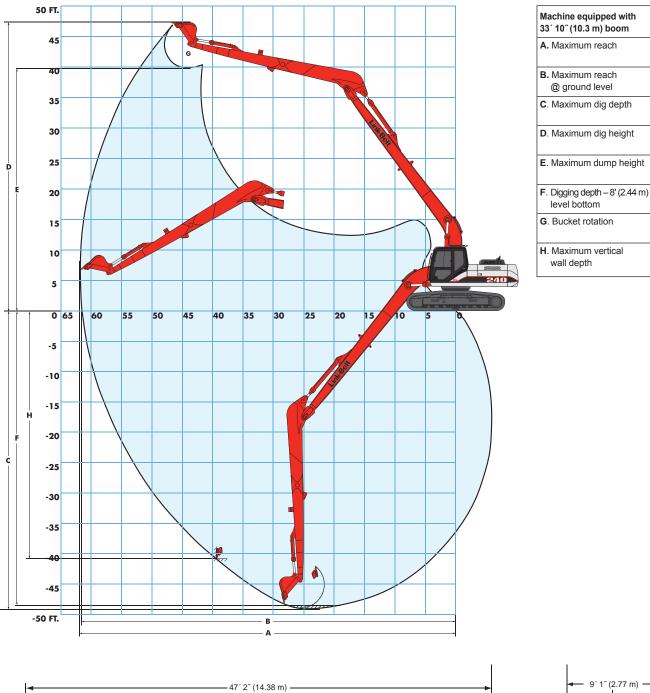
#### Operating Weight

Working weight with 31.5" (800 mm) shoes, 33' 9" (10.3 m)
boom, 26' 3" (8.00 m) arm 745 lb. (338 kg) bucket
61,729 lbs (28,000 kg)

# **240 X2 LF Specifications**

## Working Ranges

—10′3″(3.13 m)—



- 37′ 6″ (11.44 m) -

	9'1"(2.77 m) -	
3.1. (3.0 m) (940 mm)	4' 8" (1.34 m) (1.34 m)	9′11″ (3.02 m)
2′ 7″ (800 mm)	1.6° (460 mm)	<u> </u>

11′ 1″ (3.39 m) —

9′8″ (2.94 m)

12′ 7″ (3.84 m)

- 15´ 3″ (4.65 m) -

26′ 3″ Arm

(8.00 m)

60′ 1″ (18.32 m) 59′ 9″

(18.22 m)

47′ 9″

(14.56 m)

45′ 9″ (13.95 m)

38′ 8″ (11.78 m)

47′ 3″

(14.41 m)

178°

39′ 10″

(12.13 m)

# 240 X2 LF Specifications

### Lifting Capacities

**26** 3" **(8.00 m) Arm** with 33 9" (10.3 m) Boom and 745 lb. (338 kg) Bucket with Power-Boost Applied

Radius of Load													
		<b>10' 0" (3.05 m)</b> End Side		<b>15' 0" (4.57 m)</b> End Side		<b>20' 0" (6.10 m)</b> End Side		<b>25' 0" (7.62 m)</b> End Side		<b>30' 0" (9.14 m)</b> End Side		<b>35' 0" (10.7 m)</b> End Side	
+40 0"	lbs / (kg)												
+35 0"	lbs / (kg)												
+30 0"	lbs / (kg)												
+25 0"	lbs / ( <i>kg</i> )												
+20´ <b>0</b> ″	lbs / (kg)												
+15 0"	lbs / ( <i>kg</i> )												
+10 ′ 0″	lbs / (kg)									6,100*/(2 <i>767*</i> )	6,100*/(2767*)	5,400*/(2 <i>449</i> )	5,400*/(2 <i>449</i> )
+5´ <b>0</b> ″	lbs / ( <i>kg</i> )	6,250*/(2 <i>835*</i> )	6,250*/(2835*)	15,700*/(7 <i>122*</i> )	15,700*/(7 <i>122*</i> )	11,400*/(5171*)	11,400*/(5 171*)	8,700*/( <i>3 946*</i> )	8,700*/( <i>3 946*</i> )	7,100*/(3 <i>221*</i> )	7,100*/(3221*)	6,100*/(2 <i>767*</i> )	6,100*/( <i>2767*</i> )
Ground	lbs / (kg)	3,950*/(1792*)	3,950*/(1 792*)	9,700*/(4400*)	9,700*/(4400*)	13,400*/(6078*)	12,800 / (5 806)	10,200*/(4627*)	9,450/(4 <i>287</i> )	8,150*/(3 <i>697*</i> )	7,250/(3 <i>289</i> )	6,850*/(3 107*)	5,700/( <i>2586</i> )
-5´ <b>0″</b>	lbs / (kg)	4,300*/(1 <i>950*</i> )	4,300*/(1950*)	7,650*/(3 <i>470*</i> )	7,650*/(3470*)	14,500*/(6577*)	11,450/(5 194)	11,450*/(5 194*)	8,500/( <i>3856</i> )	9,050 / (4 105*)	6,600/(2994)	7,500*/(3 <i>402*</i> )	5,250/( <i>2381</i> )
-10´ <b>0</b> ″	lbs / (kg)	5,150*/(2 <i>336*</i> )	5,150*/(2336*)	7,600*/(3447*)	7,600*/(3447*)	13,050*/(5919*)	10,600/(4808)	12,250*/(5557*)	7,850/( <i>3561</i> )	9,750*/(4423*)	6,100/(2767)	7,950 / (3 606)	4,850/(2 <i>200</i> )
-15´ <b>0</b> ″	lbs / (kg)	6,000*/(2722*)	6,000*/(2722*)	8,250*/( <i>3742*</i> )	8,250*/(3742*)	12,700*/(5 761*)	10,200/(4627)	12,500 / (5 <i>670</i> )	7,450/(3 <i>379</i> )	9,600 / (4 355)	5,750/(2 <i>608</i> )	7,700 / (3 493)	4,550/( <i>2064</i> )
-20´ <b>0</b> ″	lbs / (kg)	6,950*/(3 153*)	6,950*/(3 153*)	9,300*/(4 <i>218*</i> )	9,300*/(4 <i>218*</i> )	13,400*/(6078*)	10,150/(4604)	12,300/(5 <i>579</i> )	7,300/(3311)	9,400 / ( <i>4 264</i> )	5,550/(2517)	7,500 / (3 402)	4,400/(1996)
-25´ <b>0</b> ″	lbs / (kg)	8,200*/(3720*)	8,200*/(3720*)	10,400*/(4717*)	10,400*/(4717*)	14,800* / (6 713*)	10,250/(4 <i>649</i> )	12,300/(5 <i>579</i> )	7,300/(3311)	9,400 / ( <i>4 264</i> )	5,550/(2517)	7,450/(3 <i>379</i> )	4,350/(1 <i>973</i> )
-30´ <b>0</b> ″	lbs / (kg)	9,750*/(4423*)	9,750*/(4423*)	12,200*/(5534*)	12,200*/(5534*)	15,950*/(7 <i>235*</i> )	10,500/(4763)	12,450/(5 <i>647</i> )	7,450/( <i>3 379</i> )	9,450 / (4 <i>287</i> )	5,600/(2 <i>540</i> )	7,550/(3425)	4,450/(2 <i>019</i> )
-35´ <b>0</b> ″	lbs / (kg)	11,600*/(5 262*)	11,600*/(5262*)	14,550*/(6 <i>600*</i> )	14,550*/(6 <i>600*</i> )	14,950*/(6 <i>781*</i> )	10,900/(4944)	11,900*/(5398*)	7,700/(3493)	9,650*/(4 <i>377*</i> )	5,850/(2 <i>654</i> )	7,700/(3 <i>493</i> )	4,600 / (2 <i>087</i> )
-40´ <b>0</b> ″	lbs / (kg)	13,700*/(6214*)	13,700*/(6214*)	17,050*/(7 <i>734*</i> )	17,050*/(7 <i>734*</i> )	13,300*/(6033*)	11,500/(5 <i>216</i> )	10,650*/(4831*)	8,150/( <i>3697</i> )	8,650*/(3 <i>924*</i> )	6,200/( <i>2812</i> )	7,050*/(3198*)	4,950 / (2 <i>245</i> )
-45´ <b>0</b> ″	lbs / (kg)			13,700*/(6 <i>214*</i> )	13,700*/(6 <i>214*</i> )	10,700*/(4854*)	10,700*/(4854*)	8,500*/( <i>3859</i> *)	8,500*/( <i>3859*</i> )				

26' 3" (8.00 m) Arm with 33' 9" (10.3 m) Boom and 745 lb. (338 kg) Bucket with Power-Boost Applied

Radius of Load											
		<b>40' 0" (12.2 m)</b> End Side		<b>45' 0" (13.7 m)</b> End Side		<b>50' 0" (15.2 m)</b> End Side		<b>55' 0" (16.8 m)</b> End Side		Cap. at Max. Read End Side	
+40′0″	lbs / (kg)									3,050*/(1 383*)	3,050*/(1383*)
+35 0"	lbs / (kg)									3,000*/(1361*)	3,000*/(1361*)
+30′0″	lbs / (kg)					3,650*/(1 <i>656*</i> )	3,650*/(1656*)			3,000*/(1361*)	3,000*/(1361*)
+25´ <b>0</b> ″	lbs / (kg)			3,700*/(1 <i>678*</i> )	3,700*/(1678*)	3,700*/(1 <i>678*</i> )	3,700*/(1678*)			3,000*/(1361*)	2,650/(1 <i>202</i> )
+20´ <b>0</b> ″	lbs / (kg)			3,950*/(1792*)	3,950*/(1792*)	3,850*/(1746*)	3,700/(1 <i>678</i> )	3,800*/(1724*)	2,850/(1293)	3,050*/(1 383*)	2,400/(1 <i>089</i> )
+15 0"	lbs / (kg)	4,450*/(2 <i>019*</i> )	4,450*/(2019*)	4,250*/(1 <i>928*</i> )	4,250*/(1928*)	4,050*/(1 <i>837*</i> )	3,550/(1 <i>610</i> )	4,000*/(1 <i>814*</i> )	2,750/(1 <i>247</i> )	3,150*/(1429*)	2,200/(998)
+10^ <b>0</b> "	lbs / (kg)	4,950*/(2245*)	4,950*/(2245*)	4,600*/(2 <i>0</i> 87*)	4,200 / (1 905)	4,300*/(1 <i>950*</i> )	3,350/(1 <i>520</i> )	4,150*/(1 <i>882*</i> )	2,600/(1179)	3,300*/(1497*)	2,050 / (930)
+5´ <b>0</b> ″	lbs / (kg)	5,450*/(2472*)	4,950/(2245)	4,950*/(2 <i>245*</i> )	3,950/(1 <i>792</i> )	4,600*/(2 <i>087*</i> )	3,100/(1406)	4,200 / (1 905)	2,450/(1 111)	3,500*/(1588)	1,950/(885)
Ground	lbs / (kg)	5,950*/(2699*)	4,550/(2 <i>064*</i> )	5,300*/(2 <i>404*</i> )	3,650/(1 <i>656</i> )	4,850*/(2 <i>200*</i> )	2,900/(1315)	4,100/(1 <i>860</i> )	2,300/(1 <i>043</i> )	3,550/(1610)	1,900/( <i>862</i> )
-5´ <b>0″</b>	lbs / (kg)	6,450*/(2 <i>926*</i> )	4,200 / (1 905)	5,650/(2 <i>563</i> )	3,400/(1 <i>542</i> )	4,700/(2132)	2,750/(1247)	3,950 / (1 792)	2,200/(998)	3,600/(1633)	1,900/( <i>862</i> )
-10´ <b>0</b> ″	lbs / (kg)	6,500 / (2 <i>948</i> )	3,900/(1 <i>769</i> )	5,400/(2449)	3,150/(1 <i>429</i> )	4,550/(2 <i>064</i> )	2,600/(1179)	3,850 / (1 74 <i>6</i> )	2,100/(953)	3,700/(1 <i>678</i> )	2,000/(907)
-15´ <b>0</b> ″	lbs / (kg)	6,300 / (2858)	3,700/(1 <i>678</i> )	5,250/( <i>2 381</i> )	3,000/(1361)	4,450/(2019)	2,500/(1134)	3,800/(1724)	2,050/( <i>930</i> )	3,900/(1769)	2,100/(953)
-20´ <b>0</b> ″	lbs / (kg)	6,150 <i>/</i> ( <i>2 790</i> )	3,600/(1 <i>633</i> )	5,150/( <i>2336</i> )	2,950/(1338)	4,400/(1996)	2,450/(1 111)			4,200 / (1 905)	2,350/(1066)
-25´ <b>0</b> ″	lbs / (kg)	6,150 / (2 790)	3,550/(1 <i>610</i> )	5,150/(2 <i>336</i> )	2,900/(1315)	4,400/(1996)	2,450/(1 111)			4,700 / (2 132)	2,650/(1 <i>202</i> )
-30´ <b>0</b> ″	lbs / (kg)	6,200/(2 <i>812</i> )	3,600/(1633)	5,250 / (2 381)	3,000/(1361)					5,500/(2495)	3,200/(1 <i>452</i> )
-35´ <b>0</b> ″	lbs / (kg)	6,400 / (2 903)	3,800/(1724)							4,900*/(2223*)	4,150/(1 <i>882</i> )
-40´ <b>0</b> ″	lbs / (kg)										
-45´ <b>0</b> ″	lbs / (kg)										

#### 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.
- 4. Least stable position is over the side.
- Operator should be fully acquainted with the Operator's Manual & Operating Safety Booklet, furnished by LBX before operating the machine.
- Capacities apply only to the machine as originally manufactured and normally equipped by LBX Company, LLC.
- 7. Lift capacity ratings are based on SAE J/ISO 10567, "Earthmoving Machinery
  - Hydraulic Excavators Lift Capacity."

# 240 X2 LF Specifications

#### **Bucket Sizes**

Bucket Type	SAE Heaped Capacity (yd³) (m³)	Width Outside Lip (in) (mm)	Bucket <b>Weight</b> (lbs) (kg)	Number <b>of</b> Teeth	Arm Length <b>26´-3</b> " 8.00 m
STDP	0.50 0.38	24 610	791 359	4	Н
	0.66 0.50	30 762	889 403	4	M
	0.82 0.63	36 914	1007 457	5	L
DITCH	0.77 0.59	54 1372	903 410	0	Ĺ
	0.86 0.66	60 1524	964 437	0	L

STDP - Standard duty plate

Approval Code For Arm/Bucket Combinations				
	Heavy material (up to 3,370 lbs./yd³)			
	Medium material (up to 2,700 lbs./yd³)			
	Light material (up to 2,020 lbs./yd³)			
N/A	Not applicable			

### Standard Equipment

- KAB 515 sliding/reclining suspension seat with adjustable 4-inch armrests, lumbar support and retractable seat belt
- · Safety glass front window with auto lock, windshield wiper and washer with intermittent speeds, Lexan® side and rear tinted windows
- · 4-position tilting consoles with memory position and hydraulic lock-out
- Auto climate control a/c and heat
- AM/FM stereo with mute button, horn, interior light, digital clock, hour meter, floor mat, cup holder, sun shade, storage, LH and RH rear view mirrors
- Single pedal travel
- Travel alarm with cancel switch
- · Vandal guarding with bolt-on FOG capability
- EPA Tier III Isuzu diesel engine
- · Common rail fuel injection
- · Turbocharger with intercooler
- Neutral safety start
- · Idle start
- Glow plug pre-heat
- · Auto engine warm-up
- Auto idling system
- · One-touch idle
- Dual remote fuel filters with water separation
  Attachment cushion valve
- Double element air filter with in-cab restriction indicator
- External fuel gauge
- · Remote, full-flow engine oil filter
- · Green plug engine oil drain
- EPF Engine Protection
- · Emergency engine stop
- Open-center hydraulic system
- · Four selectable work modes including attachment mode

- Auto power boost
- · Auto swing priority
- · Pre-set auxiliary pump settings 10
- · Auxiliary valve
- Stackable main control valve
- · Control pattern changer
- · Long undercarriage
- · Sealed and lubricated track chain
- · Two-speed with auto shift and straight travel
- Planetary drive
- · Spring-applied, hydraulic release brake
- Hydraulic track adjust
- Swivel guard belly pan
- Track guide
- · Vandal locks with common key
- 16,534 lb (7,500 kg) counterweight with lifting eyes
- · Hand rail
- Tool box
- 33-ft 9-in boom
- EMS (Extended Maintenance System) 1,000 hour service interval throughout entire attachment except bucket
- 26-ft 3-in arm
- Tracks
  - 31.5-in (800 mm) 3-bar grouser
- Arm and boom holding valves
- Cylinder cushion
- Centralized lube bank
- Bucket anti-clatter device
- · Illuminated LCD service monitor
- · On-board diagnostic system
- Anti-theft device
- 12-volt accessory outlet
- 70-watt work lights on boom and upper

### **Options**

- Arms to convert to standard excavator (requires counterweight conversion) 9-ft 10-in (3.00 m) 8-ft 2-in (2.50 m) 11-ft 6-in (3.50 m)
- · Cab lights exterior
- Air-suspension seat
- Free swing
- · Cyclone pre-clean air filter
- FOG guard
- Front guard mesh or bars
- HD bucket linkage
- Track guides triple
- · Double-acting auxiliary hydraulics (not for hammer use)



