

160X₃ SPECIFICATIONS

SAE Net Horsepower: 124 HP (92 kW)

Operating Weight: 37,919 lbs. (17 200 kg)

Digging Depth: 19 ft. 11 in. (6.06 m)



Engine

Isuzu AM-4JJ1X Tier 4A turbocharged diesel engine with electronic control (ECM) and high pressure common-rail fuel injection, 4-cylinder, Water-cooled, Cooled Exhaust Gas Recirculation (CEGR), Intercooler, Variable-Geometry Turbocharger (VGT), Diesel Particulate Diffuser (DPD) with Diesel Oxidation Catalyst (DOC) and Diesel Particulate Filter (DPF) for "passive regeneration" of exhaust emissions, Electronic fuel pump and priming, Fuel cooler, Auto-idle start, Auto warm-up, EPF engine protection, Dual-stage fuel filtration, In-cab fuel filter restriction indicator, Remote oil filter, Green plug oil drain, Double element air filter.

SAE Net Horsepower 124 hp (92 kW) @ 2,200 rpm
 Displacement 183 cu in (3.0 L)
 Maximum Torque ... 288 lbf-ft (391 Nm) @ 1800 rpm
 Starter..... 24V-4.0kW
 Alternator..... 50 amp
 Battery (2) 12-volt 72 amp hours

Cab and Controls

ROPS certified cab with climate control A/C and heat with defroster, Control panel with LED Hi-Definition color monitor, Rearview camera display, Fuel-efficiency gauge, DPF regeneration gauge, Low-effort joysticks pre-wired for auxiliary hydraulics, Control pattern changer, Safety glass windows, Sunroof with sunshade, Shockless cab suspension with four fluid mountings, KAB® reclining suspension seat, Sliding 4-position tilting control consoles, AM/FM sound system with MP3 auxiliary input jack, 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, Handrails, Mirrors, Side-entry cab filter, Spare parts kit.

Four selectable working modes, Anti-theft password protection system, On-board self-diagnostic system with memory and service interval reminders, Auto-idling system, One-touch decelerator, Auto-idle engine shutdown, Auto-power boost, Neutral safety start, Gate-lock safety shutoff.

A/C Rating 20,080 BTU/h
 Heater Rating 21,030 BTU/h
 Sound Level - Cab Interior..... 70.0 dB(A)
 Sound Level - Exterior..... 100.0 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 section and one 5-spool section with auxiliary spool: stackable, Auxiliary Control System, Oil cooler, Auto-power boost, Boom and arm holding valves, 6 micron return filter, Firewall.

Hydraulic Pumps

Pump Output 2 x 37.5 gpm (142 L/min)
 Pilot Pump Maximum Flow... 5.3 gpm (20 L/min)

Relief Valve Settings

Boom/Arm/Bucket 4,970 psi (34.3 MPa)
 in Power Boost 5,260 psi (36.3 MPa)
 Swing Circuit 4,050 psi (27.9 MPa)
 Travel Circuit 4,970 psi (34.3 MPa)

Hydraulic Cylinders

number of cylinders - bore x rod x stroke
 Boom 2 - 4.5" x 3.1" x 46.4"
 (115 mm x 80 mm x 1,179 mm)
 Arm 1 - 4.9" x 3.5" x 50.4"
 (125 mm x 90 mm x 1,280 mm)
 Bucket 4.1" x 3.0" x 38.8"
 (105 mm x 76 mm x 985 mm)

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 11.5 rpm
 Tail Swing 8' 0" (2.45 m)
 Swing Torque..... 33,264 lbf-ft (45.1 kNm)

Undercarriage

X Pattern carbody with 13' 1" (3.99 m) LC long undercarriage by 6' 6" (1.99 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, Carbody belly pan.

Carrier Rollers 2 per Side
 Track Rollers 7 per Side
 Track Link Pitch 7.5" (190 mm)
 Shoes 44 per Side
 Shoe Width..... 23.6" (600 mm)
 Ground Pressure..... 5.95 psi (0.041 MPa)

Travel System

Two-speed independent hydrostatic travel with compact axial-piston motors, Hydraulic motor powered output shaft coupled to a planetary reduction drive and track sprocket, All hydraulic components mounted within the width of side frame, Automatic downshift for high torque to overcome obstacles, Spring-applied hydraulic release parking brake built into each motor, Travel motors equipped with counterbalance valve to prevent over-speeding down an incline, Single-pedal straight line travel.

Travel Speeds 1.7 - 3.4 mph (2.8 - 5.4 km/h)
 Drawbar Pull..... 36,194 lbf (161 kN)
 Gradeability 70% (35°)

Attachment

Boom 16' 11" (5.15 m)

Available Arms

Digging Force
 • 8' 7" (2.62 m) 17,760 lbf (79 kN)
 with Auto Power Boost..... 18,880 lbf (84 kN)
 • 10' 0" (3.05 m) 16,190 lbf (72 kN)
 with Auto Power Boost..... 17,310 lbf (77 kN)
 Bucket Digging Force 25,180 lbf (112 kN)
 with Auto Power Boost..... 26,530 lbf (118 kN)

Lubricant and Coolant Capacity

Fuel Tank 79.3 Gallons (300.0 Liters)
 Hydraulic System 43.6 Gallons (165.0 Liters)
 Hydraulic Tank 23.8 Gallons (90.0 Liters)
 Final Drive (per side) 1.5 Gallons (6.0 Liters)
 Swing Drive 1.3 Gallons (5.0 Liters)
 Engine Oil 4.5 Gallons (17.0 Liters)
 Coolant System 4.3 Gallons (16.2 Liters)

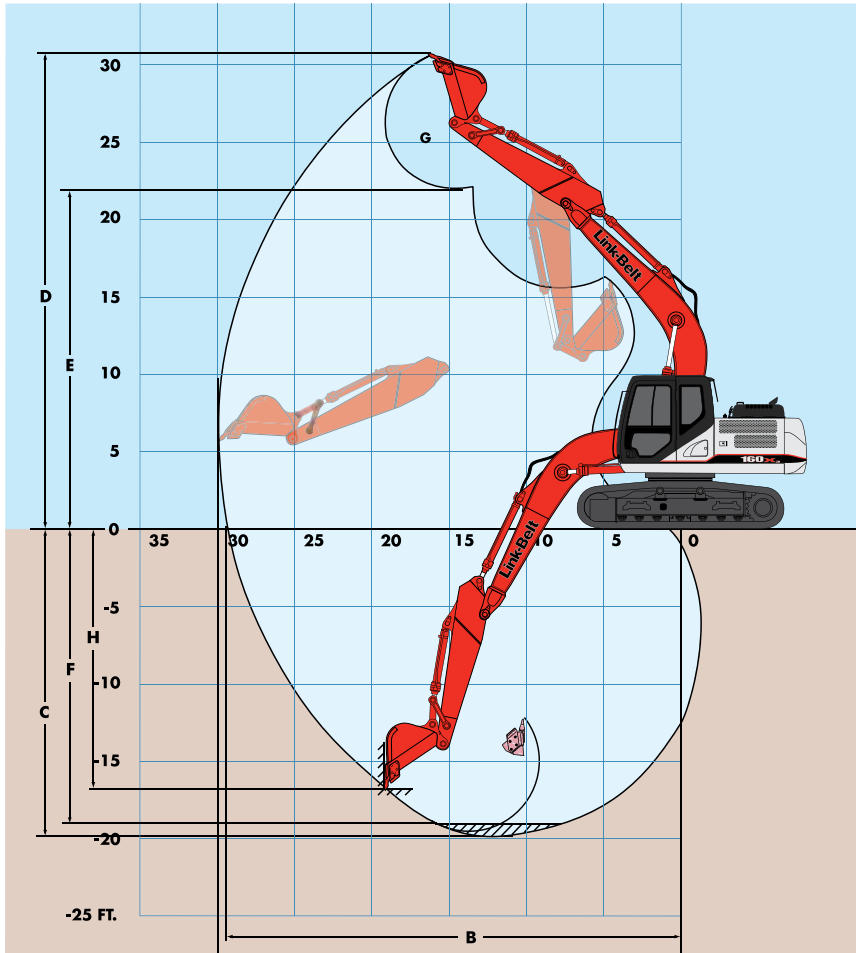
Operating Weight

Working weight with 23.6" (600 mm) shoes,
 16' 11" (5.15 m) boom, 8' 7" (2.62 m) arm,
 7,500 lb (3 400 kg) counterweight
 1,070 lb. (484 kg) bucket
 37,919 lbs. (17 200 kg)

160x₃ Specifications

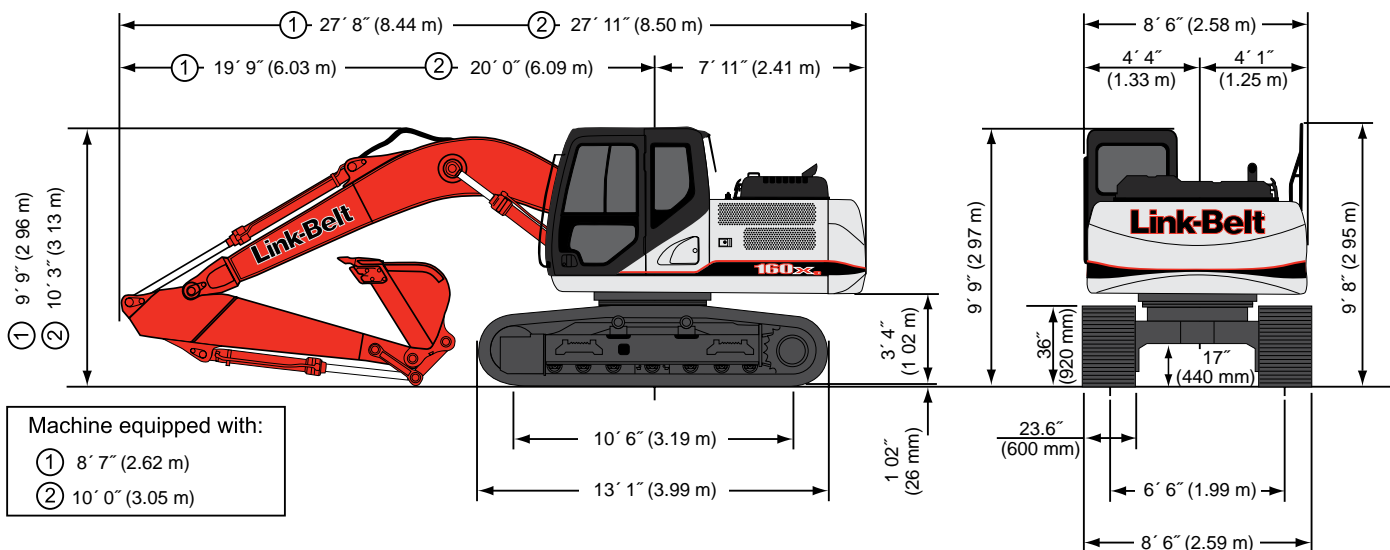
Working Range and Travel Dimensions

Working Range



Machine Equipped with 16' 11" (5.15 m) Boom	Arm 8' 7" (2.62 m)	Arm 10' 0" (3.05 m)
A. Maximum reach	29' 8" (9.04 m)	30' 9" (9.38 m)
B. Maximum reach @ ground level	29' 1" (8.87 m)	30' 3" (9.22 m)
C. Maximum dig depth	19' 11" (6.06 m)	21' 4" (6.49 m)
D. Maximum dig height	30' 4" (9.24 m)	30' 6" (9.29 m)
E. Maximum dump height	21' 8" (6.61 m)	21' 11" (6.69 m)
F. Digging depth 8' (2.44 m) level bottom	19' 2" (5.85 m)	20' 8" (6.29 m)
G. Bucket rotation	178°	178°
H. Maximum vertical wall depth	16' 8" (5.08 m)	17' 2" (5.22 m)













Travel Dimensions















Specifications **160X₃**

Lifting Capacities

Lifting Capacities - ISO Ratings

Radius of Load												
8' 7" (2.62 m) Arm with 16' 11" (5.15 m) Boom and 1,050 lb. (480 kg) Bucket with Power-Boost Applied												
	5' 0" (1.52 m)		10' 0" (3.05 m)		15' 0" (4.57 m)		20' 0" (6.10 m)		25' 0" (7.62 m)		Cap at Max. Reach	
	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side
+25' 0" lbs							5,150*	5,150*			3,650*	3,650*
(7.62 m) kg							2 336*	2 336*			1 656*	1 656*
+20' 0" lbs							7,100*	7,100*			3,300*	3,300*
(6.10 m) kg							3 221*	3 221*			1 497*	1 497*
+15' 0" lbs							9,200*	7,000	6,750*	4,650	3,200*	3,200*
(4.57 m) kg							4 173*	3 175	3 062*	2 109	1 451*	1 451*
+10' 0" lbs			18,500*	18,500*	13,350*	10,450	10,400	6,600	7,150	4,500	3,250*	3,250*
(3.05 m) kg			8 391*	8 391*	6 055*	4 740	4 717	2 994	3 243	2 041	1 474*	1 474*
+5' 0" lbs			21,350*	17,600	15,900	9,600	9,950	6,150	6,950	4,250	3,450*	3,350
(1.52 m) kg			9 684*	7 983	7 212	4 354	4 513	2 790	3 152	1 928	1 565*	1 520
Ground lbs			17,200*	16,250	15,150	8,950	9,550	5,800	6,750	4,100	3,850*	3,450
Line kg			7 802*	7 371	6 872	4 060	4 332	2 631	3 062	1 860	1 746*	1 565
-5' 0" lbs	13,450*	13,450*	21,950*	16,450	14,850	8,700	9,400	5,650	6,700	4,050	4,550*	3,850
(1.52 m) kg	6 101*	6 101*	9 956*	7 462	6 736	3 946	4 264	2 563	3 039	1 837	2 064*	1 746
-10' 0" lbs	19,550*	19,550*	28,000*	16,750	14,950	8,800	9,500	5,800			6,000*	4,750
(3.05 m) kg	8 868*	8 868*	12 701*	7 598	6 781	3 992	4 309	2 631			2 722*	2 155
-15' 0" lbs	28,400*	28,400*	22,600*	17,400	15,100	9,350					10,550*	7,000
(4.57 m) kg	12 882*	12 882*	10 251*	7 893	6 849	4 241					4 785*	3 175

Radius of Load												
10' 0" (3.05 m) Arm with 16' 11" (5.15 m) Boom and 950 lb. (440 kg) Bucket with Power-Boost Applied												
	5' 0" (1.52 m)		10' 0" (3.05 m)		15' 0" (4.57 m)		20' 0" (6.10 m)		25' 0" (7.62 m)		Cap at Max. Reach	
	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side
+25' 0" lbs							4,850*	4,850*			3,400*	3,400*
(7.62 m) kg							2 200*	2 200*			1 542*	1 542*
+20' 0" lbs							6,550*	6,550*	4,800*	4,800*	3,100*	3,100*
(6.10 m) kg							2 971*	2 971*	2 177*	2 177*	1 406*	1 406*
+15' 0" lbs							8,400*	7,150	6,550*	4,750	3,050*	3,050*
(4.57 m) kg							3 810*	3 243	2 971*	2 155	1 383*	1 383*
+10' 0" lbs			16,350*	16,350*	12,200*	10,700	10,150*	6,700	7,250	4,550	3,150*	3,150*
(3.05 m) kg			7 416*	7 416*	5 534*	4 853	4 604*	3 039	3 289	2 064	1 429*	1 429*
+5' 0" lbs			24,150*	18,150	15,900	9,750	10,050	6,250	7,000	4,300	3,350*	3,150
(1.52 m) kg			10 954*	8 233	7 212	4 423	4 559	2 835	3 175	1 950	1 520*	1 429
Ground lbs	7,250*	7,250*	19,350*	16,550	15,200	9,000	9,600	5,850	6,750	4,100	3,750*	3,250
Line kg	3 289*	3 289*	8 777*	7 507	6 895	4 082	4 354	2 654	3 062	1 860	1 701*	1 474
-5' 0" lbs	12,700*	12,700*	22,000*	16,250	14,800	8,650	9,350	5,650	6,650	4,000	4,450*	3,550
(1.52 m) kg	5 761*	5 761*	9 979*	7 371	6 713	3 924	4 241	2 563	3 016	1 814	2 018*	1 610
-10' 0" lbs	17,950*	17,950*	28,850*	16,500	14,800	8,700	9,400	5,650			5,800*	4,300
(3.05 m) kg	8 142*	8 142*	13 086*	7 484	6 713	3 946	4 264	2 563			2 631*	1 950
-15' 0" lbs	28,300*	28,300*	24,650*	17,050	15,100	9,050					9,300*	6,000
(4.57 m) kg	12 837*	12 837*	11 181*	7 734	6 849	4 105					4 218*	2 722

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.
- 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.
- Lift capacity ratings are based on SAE J1097, "Earthmoving Machinery – Hydraulic Excavators – Lift Capacity."

160x₃ Specifications

Standard and Optional Equipment

Standard and Optional Equipment

CAB	Travel Alarm with Cancel Switch..... ✓	Boom Speed Assistance - 2 Pump Flow . ✓
12V Power Outlet..... ✓	Trip Meter - Digital..... ✓	Bucket Curl Assist..... ✓
24V Lighter..... ✓	Vandal Cover (front window)..... ●	Control Levers Pre-Wired for Auxiliary .. ✓
AM/FM Sound System..... ✓	Wiper & Washer..... ✓	Control Pattern Changer (2 way)..... ✓
Anti-Theft Device..... ✓	Wiper Switch on RH Joystick..... ✓	Fire Wall..... ✓
Ashtray..... ✓	ENGINE	Free Swing..... ●
Auxiliary Switches on Control Lever..... ✓	Air Filter - Double Element..... ✓	Holding Valve - Arm..... ✓
Cab Exterior Light Harness..... ✓	Air Filter Restriction Indicator..... ✓	Holding Valve - Boom..... ✓
Cab Filter - External..... ✓	Auto Warm-Up System..... ✓	Hose Burst Check Valve..... ●
Cab Handrails..... ✓	Auto-Idle..... ✓	Hydraulic Filter Restriction Indicator..... ✓
Cab Interior Light..... ✓	Auto-Idle Engine Shutdown..... ✓	Long Life Hydraulic Oil - 5,000 Hour... ✓
Cab Lights..... ●	CEGR - Cooled Exhaust Gas..... ✓	Neutral Pump De-stroke..... ✓
Cab Iso-Mounts..... ✓	Recirculation..... ✓	Oil Cooler..... ✓
Clear Roof Window..... ✓	Cooling Fan..... ✓	Power Boost..... ✓
Climate Control A/C and Heater..... ✓	Diesel Oxidation Catalyst (DOC)..... ✓	Pressure Reading on Monitor..... ✓
Console Tilt..... ✓	Diesel Particulate Filter (DPF)..... ✓	Pump Stand-By Pressure..... ✓
Cup Holder..... ✓	Drain for Fuel Tank..... ✓	Straight Travel Circuit..... ✓
Defroster..... ✓	Dual Remote Fuel Filters with Water Separation..... ✓	AUXILIARY HYDRAULIC OPTIONS
Digital Clock..... ✓	EGR Coolers..... ✓	Single-Acting Auxiliary with Switch Activation..... ●
ECO Gauge..... ✓	Emergency Engine Stop..... ✓	Single-Acting Auxiliary with Pedal Activation..... ●
Emergency Exit and Hammer..... ✓	Engine Idle System..... ✓	Thumb Auxiliary with Switch Activation .. ●
Face Vent..... ✓	Remote Engine Oil Drain..... ✓	Multi-Function Auxiliary with Switch Activation..... ●
Floor Mat..... ✓	Engine Protection Feature..... ✓	Secondary Auxiliary with Switch Activation..... ●
FOPS Head Guard (Level 2)..... ●	External Fuel Gauge..... ✓	Combination Auxiliary with Switch Activation..... ●
Front Guard (mesh)..... ●	Fan Housing..... ✓	UNDERCARRIAGE
Front Guard (OPG 1,2)..... ●	Fuel Filter Restriction Indicator..... ✓	600 mm shoes (23.6 in) 3-Bar Steel..... ●
Front Window One-Touch Lock..... ✓	Fuel Management System..... ✓	700 mm shoes (27.5 in) 3-Bar Steel..... ●
Gate Lock Hydraulic Activation..... ✓	Fuel Shut-Off Valve..... ✓	Steps..... ✓
Horn..... ✓	Fuel Usage Monitor..... ✓	Carbody Belly Pan (swivel guard)..... ✓
Hot & Cool Box..... ✓	Glow Plug Pre-Heat..... ✓	Center Track Guide (single)..... ✓
Hour Meter - Digital..... ✓	Idle-Start..... ✓	Center Track Guide (triple)..... ●
KAB 815 Suspension Seat..... ✓	Intercooler..... ✓	Long Undercarriage..... ✓
KAB 855 Air-Suspension..... ●	Neutral Start..... ✓	Sealed Link Chain..... ✓
LED Color Monitor..... ✓	One-Touch Idle..... ✓	Strutted Track Chain..... ✓
Magazine Rack..... ✓	Passive Emissions-Regeneration..... ✓	X-Pattern Carbody..... ✓
Maintenance Interval Reminders..... ✓	Radiator / Oil Cooler Protective Screen..... ✓	
MP3 Auxiliary Input Jack..... ✓	Regeneration Gauge on Monitor..... ✓	
On-Board Diagnostic System..... ✓	Remote Oil Filter..... ✓	
One-Piece Right Window..... ✓	VGT Turbocharger..... ✓	
Radio Mute Switch..... ✓	HYDRAULICS	
Rain Deflector..... ●	Arm Regeneration..... ✓	
Rear View Camera..... ✓	Arm Speed Assistance - 2 Pump Flow... ✓	
Rear View Mirrors..... ✓	Attachment Cushion Valve..... ✓	
Roof Sun Shade..... ✓	Auto Swing Priority..... ✓	
ROPS Certified..... ✓	Auxiliary Flow Control..... ✓	
Safety Glass Windows..... ✓	Auxiliary Tool Settings - Memory..... ✓	
Seat Recline..... ✓	Auxiliary Valve..... ✓	
Selectable Monitor Languages..... ✓	Boom Regeneration..... ✓	
Side View Camera..... ●		
Small Storage..... ✓		
Sun Visor..... ●		

UPPERSTRUCTURE	Belly Pans..... ✓
Center Cover (Over Main CV)..... ✓	Fuel Tank Belly Pan..... ✓
Hand Rail - RH Access..... ✓	Lifting Eyes for Counterweight..... ✓
Lockable Fuel Cap and Service Doors.. ✓	Rubber Bumper Guards..... ●
Tool Box - Lockable..... ✓	Turntable Tub..... ✓
Work Lights - Boom and Tool Box..... ✓	
ATTACHMENT	8' 7" (2.62 m) Arm..... ●
Attachment Reinforcement Plate (boom+arm)..... ●	Auxiliary Pipe Brackets..... ✓
Boom Work Light..... ✓	Bucket Anti-Clatter Device..... ✓
Chrome pins..... ✓	Easy Maintenance System..... ✓
HD Bucket Link..... ●	Quick Couplers..... ●
Remote Lube Bank..... ✓	Teardrop pin retention keepers..... ✓
Thumbs..... ●	
PARTS KIT	Bucket Anti-Clatter Device..... ✓
Engine Manual..... ✓	Engine Oil Filter..... ✓
Filter Wrench..... ✓	Fuel Filters..... ✓
Grease Gun..... ✓	Green Plug Drain Hose for Engine Oil Drain..... ✓
Hydraulic Return Filter..... ✓	Ignition Keys..... ✓
Pilot Circuit Hydraulic Filter..... ✓	Rearview Mirrors..... ✓
Work Light for Boom..... ✓	

Equipment Key
Standard ✓ Optional ●

Bucket Sizes

Bucket Type	SAE Heaped Capacity		Width Outside Lip		Bucket Weight		Number of Teeth	Arm Length	
	(yd³)	(m³)	(in)	(mm)	(lbs)	(kg)		8' 7" 2.62 m	10' 0" 3.05 m
STDP Standard duty plate	0.58	0.44	24	610	913	415	4	H	H
	0.76	0.58	30	762	1016	462	4	H	H
	0.95	0.73	36	914	1139	518	5	M	M
	1.14	0.87	42	1067	1245	566	6	L	L
HDP Heavy duty plate	0.57	0.44	24	610	1203	547	4	H	H
	0.76	0.58	30	762	1336	607	4	H	M
	0.95	0.73	36	914	1468	667	5	M	L
	1.14	0.87	42	1067	1598	726	5	L	L
XDP Extreme duty plate	0.50	0.38	24	610	1085	493	4	H	H
	0.65	0.50	30	762	1202	546	4	H	H
	0.81	0.62	36	914	1347	612	5	H	M
	0.97	0.74	42	1067	1464	665	5	M	L
	1.13	0.86	48	1219	1581	718	5	L	L
POWER	0.50	0.38	24	610	1554	706	4	H	H
	0.65	0.50	30	762	1654	752	4	H	H
	0.81	0.62	36	914	1780	809	5	M	L
	0.97	0.74	42	1067	1875	852	6	L	L
DITCH	0.95	0.73	60	1524	1050	477	-	M	M
	1.06	0.81	66	1676	1124	511	-	M	L

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

STDP - Standard duty plate
HDP - Heavy duty plate
XDP - Extreme duty plate
POWER - HDP for use with ESCO multi-pin grabber only