

ENGINE

Model	Isuzu AH-6UZ1XYSS, Tier III certified
Type	4-stroke, turbocharged
Cylinders	6
Bore/Stroke	4.72 in x 5.71 in (120 x 145 mm)
Displacement	600 in ³ (9839 cc)
Fuel injection	Direct
Fuel injection pump	Electronic
Fuel	Diesel
Cooling	Liquid
Horsepower per SAE J1349	
Net	362 hp (270 kW) @ 1950 rpm
Maximum torque @ 1500 rpm	
Net	1058 lb-ft (1435 N-m)

BOOM/ARM

Boom	
Length	22 ft 11 in (6.98 m)
Boom w/arm cylinder & plumbing	9,155 lb (4153 kg)
Hoist cylinders (2)	882 lb (400 kg) ea
Total weight	10,919 lb (4953 kg)

13 ft 1 in Arm (4.00 m)

Length	13 ft 1 in (4.00 m)
Bare arm	3,812 lb (1729 kg)
Bucket cylinder linkage & plumbing	1,936 lb (878 kg)
Total weight	5,748 lb (2607 kg)

11 ft 1 in Arm (3.38 m)

Length	11 ft 1 in (3.38 m)
Bare arm	3,735 lb (1694 kg)
Bucket cylinder linkage & plumbing	1,936 lb (878 kg)
Total weight	5,671 lb (2572 kg)

8 ft 4 in Arm (2.53 m)

Length	8 ft 4 in (2.53 m)
Bare arm	3,296 lb (1495 kg)
Bucket cylinder linkage & plumbing	1,936 lb (878 kg)
Total weight	5,232 lb (2373 kg)

UNDERCARRIAGE

Number of rollers	
Top, each track	2
Bottom, each track	9
Number of shoes	
Triple grouser – each side	50
Link pitch	9 in (228.6 mm)

HYDRAULICS

Pumps (2)	Variable displacement axial piston design
Capacity –	
Maximum	2 x 95.1 gpm (360 L/min)
System relief pressure –	
Standard	4,554 psi (31.4 MPa)
Power Boost	4,975 psi (34.3 MPa)
Control valves –	
4-spool section for right track travel, boom, bucket and arm	
5-spool section for left track travel, boom, auxiliary, swing and arm	
Boom and arm anti-drift valves	
Pilot control hydraulic system –	
Pump (1)	Gear design
Maximum capacity	7.9 gpm (30 L/min)
Relief pressure	566 psi (3.9 MPa)
Swing –	
Motor (1)	Fixed displacement axial piston design
Speed	0-9.0 rpm
Brake	Spring-applied hydraulically released with dual cushion relief
Tail swing radius	11 ft 11 in (3.62 m)
Travel –	
Motor (1)	Two-speed axial piston design
Final drive	Planetary gear reduction
Drawbar pull	78,908 lb (351 kN)
Travel Speeds –	
Auto shift high to low	
	Forward/Reverse
Low	1.9 mph (3.1 km/h)
High	3.3 mph (5.3 km/h)
Travel control valve –	
Dual stage relief and counter-balance design	

HYDRAULIC CYLINDERS

Boom cylinders (2) –	
Bore diameter	6.7 in (170 mm)
Rod diameter	4.5 in (115 mm)
Stroke	61.0 in (1550 mm)
Arm cylinder (1) –	
Bore diameter	7.5 in (190 mm)
Rod diameter	5.1 in (130 mm)
Stroke	71.7 in (1820 mm)
Bucket cylinder (1) –	
Bore diameter	6.5 in (165 mm)
Rod diameter	4.5 in (115 mm)
Stroke	50.6 in (1285 mm)

ELECTRICAL

Voltage	24 volts, negative ground
Alternator	50 amp
Batteries (2)	Low-maintenance 128 Ah (5 hr rate)

SERVICE CAPACITIES

Hydraulic tank	
Refill capacity	61 gal (230 L)
Total system	122 gal (460 L)
Final drive (per side)	15.9 qt (15 L)
Swing drive	11.1 qt (10.5 L)
Engine	
w/filter change	38 qt (36 L)
Fuel	161 gal (610 L)
Radiator	40.2 qt (38 L)

OPERATING WEIGHT

With 11 ft 1 in (3.38 m) arm, 35.4 in (900 mm) track shoes, 3,198 lb (1451 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment 102,974 lb (46 708 kg)

LIFT CAPACITIES

13 ft 1 in (4.00 m) Arm Lift capacities calculated using a 3,021 lb (1372 kg) bucket, 18,003 lb (8166 kg) counterweight operating in "Light" Mode.

Load (Lift Point) Height	10 ft (3.05 m)		15 ft (4.57 m)		20 ft (6.1 m)		25 ft (7.62 m)		30 ft (9.14 m)		35 ft (10.67 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+30 ft (9.14 m)													33 ft 0 in (10.06 m)	9,100 lbs* (4128 kg)*	9,100 lbs* (4128 kg)*
+25 ft (7.62 m)													33 ft 1 in (10.09 m)	8,700 lbs* (3946 kg)*	8,700 lbs* (3946 kg)*
+20 ft (6.1 m)													38 ft 2 in (11.62 m)	8,600 lbs* (3901 kg)*	8,600 lbs* (3901 kg)*
+15 ft (4.57 m)													39 ft 4 in (11.99 m)	8,750 lbs* (3969 kg)*	8,650 lbs* (3924 kg)
+10 ft (3.05 m)	43,250 lbs* (19 618 kg)*	43,250 lbs* (19 618 kg)*	41,400 lbs* (18 779 kg)*	41,400 lbs* (18 779 kg)*	30,550 lbs* (13 857 kg)*	27,250 lbs (12 360 kg)	24,950 lbs* (11 317 kg)*	19,000 lbs (8618 kg)	21,550 lbs* (9775 kg)*	13,900 lbs (6305 kg)	17,450 lbs* (7915 kg)*	10,400 lbs (4717 kg)	39 ft 10 in (12.13 m)	9,100 lbs* (4128 kg)*	8,200 lbs (3674 kg)
+5 ft (1.52 m)	19,350 lbs* (8777 kg)*	19,350 lbs* (8777 kg)*	50,050 lbs* (22 702 kg)*	39,050 lbs (17 713 kg)	34,950 lbs* (15 853 kg)*	25,250 lbs (11 453 kg)	27,400 lbs* (12 428 kg)*	17,850 lbs (8097 kg)	22,800 lbs* (10 342 kg)*	13,250 lbs (6010 kg)	17,650 lbs (8006 kg)	10,050 lbs (4559 kg)	39 ft 7 in (12.05 m)	9,700 lbs* (4400 kg)*	8,100 lbs (3674 kg)
Ground-line	24,750 lbs* (11 226 kg)*	24,750 lbs* (11 226 kg)*	52,800 lbs* (23 950 kg)*	36,750 lbs (16 670 kg)	38,050 lbs* (17 259 kg)*	23,750 lbs (10 773 kg)	29,250 lbs* (13 268 kg)*	16,950 lbs (7688 kg)	21,250 lbs (9639 kg)	12,700 lbs (5761 kg)	17,350 lbs (7870 kg)	9,750 lbs (4423 kg)	38 ft 6 in (11.74 m)	10,600 lbs* (4808 kg)*	8,350 lbs (3787 kg)
-5 ft (-1.52 m)	32,700 lbs* (14 832 kg)*	32,700 lbs* (14 832 kg)*	53,400 lbs* (24 222 kg)*	36,050 lbs (16 352 kg)	38,900 lbs* (17 645 kg)*	22,950 lbs (10 410 kg)	29,100 lbs (13 200 kg)	16,350 lbs (7416 kg)	21,800 lbs (9888 kg)	12,300 lbs (5579 kg)	15,000 lbs* (6804 kg)*	9,600 lbs (4354 kg)	36 ft 9 in (11.19 m)	12,000 lbs* (5443 kg)*	9,050 lbs (4105 kg)
-10 ft (-3.05 m)	42,400 lbs* (19 232 kg)*	42,400 lbs* (19 232 kg)*	50,850 lbs* (23 065 kg)*	36,150 lbs (16 397 kg)	37,750 lbs* (17 123 kg)*	22,750 lbs (10 319 kg)	28,850 lbs (13 086 kg)	16,150 lbs (7326 kg)	21,700 lbs (9843 kg)	12,200 lbs (5534 kg)			33 ft 11 in (10.34 m)	14,200 lbs (6441 kg)*	10,400 lbs (4717 kg)
-15 ft (-4.57 m)	57,050 lbs* (25 877kg)*	57,050 lbs* (25 877kg)*	45,500 lbs* (20 638 kg)*	36,700 lbs (16 647 kg)	34,350 lbs* (15 581 kg)*	23,000 lbs (10 433 kg)	26,450 lbs* (11 998 kg)*	16,300 lbs (7394 kg)	19,500 lbs* (8845 kg)*	12,500 lbs (5670 kg)			29 ft 10 in (9.09 m)	16,150 lbs* (7,326 kg)*	13,100 lbs (5942 kg)
-20 ft (6.1 m)	48,800 lbs* (22 135 kg)*	48,800 lbs* (22 135 kg)*	36,200 lbs* (16 420 kg)*	36,200 lbs* (16 420 kg)*	27,350 lbs* (12 406 kg)*	23,750 lbs (10 773 kg)	19,350 lbs* (8,777 kg)*	17,050 lbs (7734 kg)							

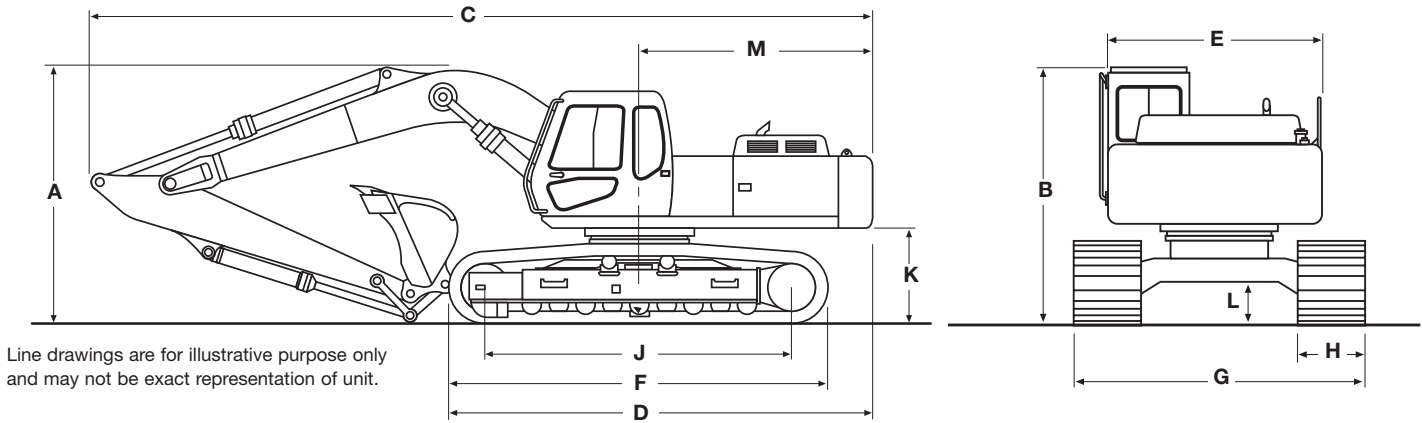
11 ft 1 in (3.38 m) Arm Lift capacities calculated using a 3,198 lb (1451 kg) bucket, 18,003 lb (8166 kg) counterweight operating in "Light" Mode.

Load (Lift Point) Height	10 ft (3.05 m)		15 ft (4.57 m)		20 ft (6.1 m)		25 ft (7.62 m)		30 ft (9.14 m)		35 ft (10.67 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+30 ft (9.14 m)													30 ft 8 in (9.35 m)	11,598 lbs* (5261 kg)*	11,598 lbs* (5261 kg)*
+25 ft (7.62 m)													34 ft 0 in (10.36 m)	11,098 lbs* (5034 kg)*	11,098 lbs* (5034 kg)*
+20 ft (6.1 m)													36 ft 3 in (11.04 m)	10,948 lbs* (4966 kg)*	10,199 lbs (4626 kg)
+15 ft (4.57 m)													37 ft 6 in (11.43 m)	11,098 lbs* (5034 kg)*	9,249 lbs (4195 kg)
+10 ft (3.05 m)													37 ft 12 in (11.58 m)	11,548 lbs* (5238 kg)*	8,749 lbs (3968 kg)
+5 ft (1.52 m)													37 ft 9 in (11.49 m)	12,248 lbs* (5556 kg)*	8,649 lbs (3923 kg)
Ground-line	22,398 lbs* (10 160 kg)*	22,398 lbs* (10 160 kg)*	53,048 lbs* (24 062 kg)*	36,099 lbs (16 374 kg)	38,598 lbs* (17 508 kg)*	23,249 lbs (10 545 kg)	29,349 lbs (13 312 kg)	16,599 lbs (7529 kg)	21,999 lbs (9978 kg)	12,449 lbs (5647 kg)			36 ft 8 in (11.17 m)	13,398 lbs (6077 kg)*	9,999 lbs (4082 kg)
-5 ft (-1.52 m)	33,998 lbs* (15 421 kg)*	33,998 lbs* (15 421 kg)*	52,348 lbs* (23 745 kg)*	36,049 lbs (16 351 kg)	38,548 lbs* (17 485 kg)*	22,749 lbs (10 319 kg)	28,849 lbs (13 085 kg)	16,149 lbs (7325 kg)	21,699 lbs (9842 kg)	12,199 lbs (5533 kg)			34 ft 9 in (10.58 m)	15,148 lbs* (6871 kg)*	9,849 lbs (4467 kg)
-10 ft (-3.05 m)	46,598 lbs* (21 137 kg)*	46,598 lbs* (21 137 kg)*	48,598 lbs* (22 044 kg)*	36,399 lbs (16 510 kg)	36,598 lbs* (16 601 kg)*	22,749 lbs (10 319 kg)	28,398 lbs* (12 881 kg)*	16,099 lbs (7302 kg)	21,749 lbs (9865 kg)	12,249 lbs (5556 kg)			31 ft 9 in (9.66 m)	17,648 lbs* (8005 kg)*	11,599 lbs (5261 kg)
-15 ft (-4.57 m)	56,398 lbs* (25 582 kg)*	56,398 lbs* (25 582 kg)*	41,848 lbs* (18 982 kg)*	37,149 lbs (16 850 kg)	31,998 lbs* (14 514 kg)*	23,199 lbs (10 523 kg)	24,248 lbs* (10 999 kg)*	16,449 lbs (7461 kg)					27 ft 3 in (8.30 m)	15,398 lbs* (6985 kg)*	15,299 lbs (6939 kg)
-20 ft (6.1 m)															

8 ft 4 in (2.53 m) Arm Lift capacities calculated using a 3,353 lb (1521 kg) bucket, 18,003 lb (8166 kg) counterweight operating in "Light" Mode.

Load (Lift Point) Height	10 ft (3.05 m)		15 ft (4.57 m)		20 ft (6.1 m)		25 ft (7.62 m)		30 ft (9.14 m)		35 ft (10.67 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+30 ft (6.1 m)													27 ft 4 in (8.33 m)	16,548 lbs* (7506 kg)*	16,548 lbs* (7506 kg)*
+25 ft (6.1 m)													31 ft 1 in (9.48 m)	15,798 lbs* (7166 kg)*	13,899 lbs (6304 kg)
+20 ft (6.1 m)													33 ft 6 in (10.22 m)	15,598 lbs* (7075 kg)*	11,749 lbs (5329 kg)
+15 ft (4.57 m)													34 ft 11 in (10.65 m)	15,748 lbs* (7143 kg)*	10,549 lbs (4785 kg)
+10 ft (3.05 m)													35 ft 6 in (10.81 m)	16,348 lbs* (7415 kg)*	9,949 lbs (4513 kg)
+5 ft (1.52 m)													35 ft 2 in (10.72 m)	17,298 lbs* (7846 kg)*	9,899 lbs (4490 kg)
Ground-line													34 ft 0 in (10.36 m)	18,249 lbs* (8277 kg)*	10,349 lbs (4694 kg)
-5 ft (-1.52 m)	37,398 lbs* (16 964 kg)*	37,398 lbs* (16 964 kg)*	50,048 lbs* (22 702 kg)*	36,849 lbs (16 714 kg)	37,898 lbs* (17 190 kg)*	22,849 lbs (10 364 kg)	28,999 lbs (13,153 kg)	16,299 lbs (7393 kg)	21,999 lbs* (9978 kg)	12,499 lbs (5669 kg)			31 ft 11 in (9.71 m)	19,498 lbs* (8844 kg)*	11,599 lbs (5261 kg)
-10 ft (-3.05 m)	52,998 lbs* (24 040 kg)*	52,998 lbs* (24 040 kg)*	44,698 lbs* (20 275 kg)*	37,199 lbs (16 873 kg)	34,598 lbs* (15 694 kg)*	23,149 lbs (10 500 kg)	26,748 lbs* (12 133 kg)*	16,499 lbs (7461 kg)					28 ft 6 in (8.69 m)	17,848 lbs* (8096 kg)*	14,149 lbs (6418 kg)
-15 ft (-4.57 m)	44,748 lbs* (20 297 kg)*	44,748 lbs* (20 297 kg)*	35,948 lbs* (16 306 kg)*	35,948 lbs* (16 306 kg)*	27,848 lbs* (12 632 kg)*	23,849 lbs (10 817 kg)									

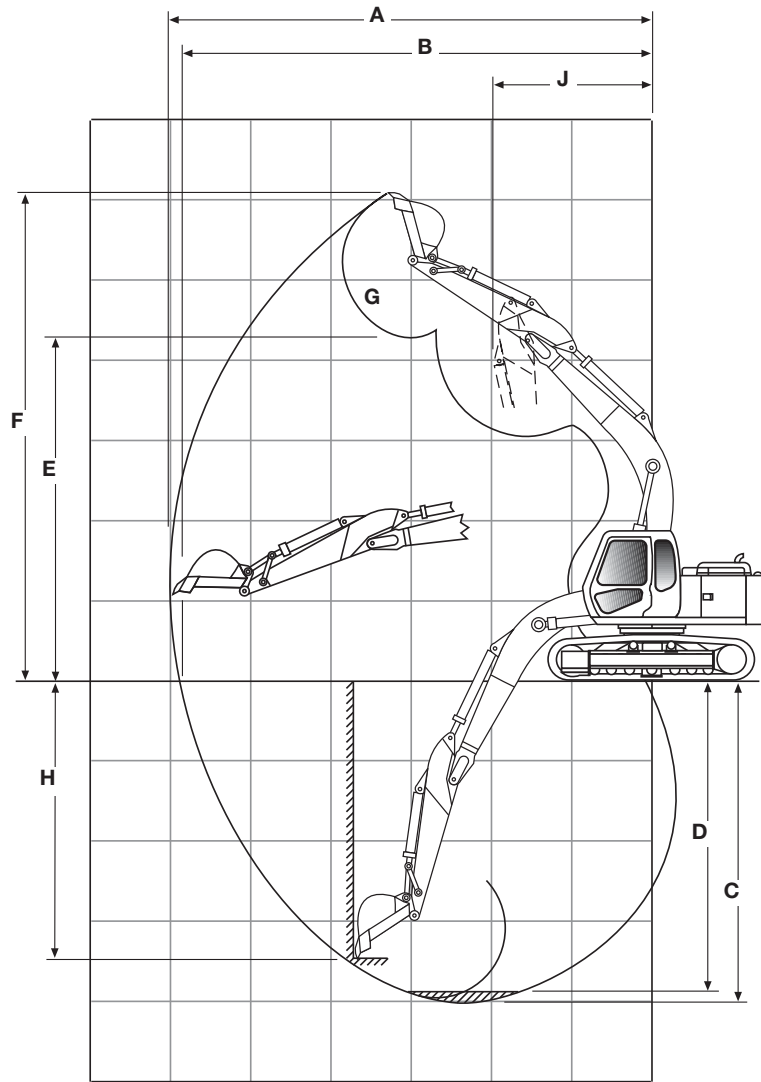
*Lift capacities do not exceed 75% of the minimum tipping load or 87% of the hydraulic lift capacity. Capacities that are marked with an asterisk are hydraulic limited.



DIMENSIONS

	13 ft 1 in (4.00 m) Arm	11 ft 1 in (3.38 m) Arm	8 ft 4 in (2.53 m) Arm
A. Overall height	11 ft 10 in (3.60 m)	11 ft 10 in (3.60 m)	12 ft 0 in (3.67 m)
B. Cab height	10 ft 9 in (3.27 m)	10 ft 9 in (3.27 m)	10 ft 9 in (3.27 m)
C. Overall length	39 ft 1 in (11.92 m)	39 ft 2 in (11.94 m)	39 ft 4 in (11.99 m)
D. w/o attachment	20 ft 9 in (6.33 m)	20 ft 9 in (6.33 m)	20 ft 9 in (6.33 m)
E. Width of upperstructure	10 ft 1 in (3.08 m)	10 ft 1 in (3.08 m)	10 ft 1 in (3.08 m)
E. Width of upperstructure w/catwalks	11 ft 9 in (3.58 m)	11 ft 9 in (3.58 m)	11 ft 9 in (3.58 m)
F. Track overall length	17 ft 11 in (5.45 m)	17 ft 11 in (5.45 m)	17 ft 11 in (5.45 m)
G. Track overall width w/35.4 in (900 mm) shoes	12 ft 0 in (3.65 m)	12 ft 0 in (3.65 m)	12 ft 0 in (3.65 m)
H. Track shoe width	35.4 in (900 mm)	35.4 in (900 mm)	35.4 in (900 mm)
J. Center to center (idler to sprocket)	14 ft 5 in (4.40 m)	14 ft 5 in (4.40 m)	14 ft 5 in (4.40 m)
K. Upperstructure ground clearance	4 ft 4 in (1.33 m)	4 ft 4 in (1.33 m)	4 ft 4 in (1.33 m)
L. Minimum ground clearance	1 ft 9 in (0.54 m)	1 ft 9 in (0.54 m)	1 ft 9 in (0.54 m)
M. Tail swing radius	11 ft 11 in (3.62 m)	11 ft 11 in (3.62 m)	11 ft 11 in (3.62 m)
Working weight*	103,051 lb (46 743 kg)	102,974 lb (46 708 kg)	102,535 lb (46 509 kg)
Ground pressure	7.8 psi (54 kPa)	7.8 psi (54 kPa)	7.8 psi (54 kPa)

*With 35.4 in (900 mm) track shoe, 3,198 lb (1451 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment.



PERFORMANCE SPECS

	13 ft 1 in (4.00 m) Arm	11 ft 1 in (3.38 m) Arm	8 ft 4 in (2.53 m) Arm
A. Maximum dig radius	41 ft 2 in (12.55 m)	39 ft 4 in (12.00 m)	36 ft 10 in (11.23 m)
B. Dig radius at groundline	40 ft 5 in (12.33 m)	38 ft 7 in (11.77 m)	36 ft 1 in (10.99 m)
C. Maximum dig depth	27 ft 4 in (8.34 m)	25 ft 4 in (7.72 m)	22 ft 6 in (6.87 m)
D. Dig depth - 8 ft 0 in (2.44 m) level bottom	26 ft 11 in (8.21 m)	24 ft 10 in (7.58 m)	21 ft 11 in (6.69 m)
E. Dump height	26 ft 1 in (7.94 m)	25 ft 5 in (7.74 m)	24 ft 4 in (7.42 m)
F. Overall reach height	37 ft 2 in (11.34 m)	36 ft 7 in (11.14 m)	35 ft 6 in (10.82 m)
G. Bucket rotation	176°	176°	176°
H. Vertical straight wall dig depth	23 ft 6 in (7.16 m)	21 ft 7 in (6.57 m)	18 ft 7 in (5.67 m)
J. Minimum swing radius	16 ft 6 in (5.04 m)	16 ft 4 in (4.99 m)	16 ft 10 in (5.14 m)
Arm digging force			
Standard	37,093 lb (165 kN)	46,985 lb (209 kN)	57,776 lb (257 kN)
Power Boost	40,690 lb (181 kN)	51,481 lb (229 kN)	63,171 lb (281 kN)
Bucket digging force			
Standard	55,528 lb (247 kN)	55,528 lb (247 kN)	55,528 lb (247 kN)
Power Boost	60,698 lb (270 kN)	60,698 lb (270 kN)	60,698 lb (270 kN)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

Cab with Isomount® system
Adjustable deluxe seat with
3 in (76 mm) retractable seat belt
Front window safety glass
Climate Control System
AM/FM Radio w/auto tuner
Roof hatch, skylight
Sliding Lexan® windows
Windshield wiper w/washer
Anti-theft device

ENGINE

Isuzu AH-6UZ1XYSS turbocharged diesel
Tier III certified
Warm up mode
Selectable one touch or auto
accelerator/decelerator
Auto engine derate

OPTIONAL EQUIPMENT

UPPERSTRUCTURE

Arm: 13 ft 1 in, 11 ft 1 in or 8 ft 4 in
(4.00 m, 3.38 m or 2.53 m)

ELECTRICAL

Batteries (2)
Electronic Systems Monitor
Horn, dual

HYDRAULICS

ISO pattern pilot controls
4 Position mode selector: H, S, L & Auto
Auto Power Boost
2 Variable flow piston pumps
Auxiliary attachment mode
Neutral pump destroke
Auxiliary hydraulic valve
Boom and arm anti-drift valves
Selectable cushion control for boom and arm
Controlled free swing
Ultra Clean filtration system
Hydraulic reversing cooling fan

HYDRAULICS

Auxiliary hydraulics
Single acting, one pump
Double acting, single or dual pump
(includes heavy-duty bucket linkage)
Double acting general purpose for use
with thumb kit
Control pattern selector valve

UNDERCARRIAGE

Shoes: 35.4 in (900 mm) 3-bar, 50 per side
Track length: 17 ft 11 in (5.45 m)
Track gauge: 9 ft 0 in (2.75 m)
Sealed and lubed track

TRACK DRIVE

2-speed hydrostatic travel
Straight tracking travel priority
Disc-type parking brakes

UPPERSTRUCTURE

Boom: 22 ft 11 in (6.98 m) one piece
Free swing control
Hammer adaptable
Swing brake

OTHER

Counterweight: 18,003 lb (8166 kg)
Single key lockup

OTHER

Load holding control devices
Cylinder mounted
Case/JRB Slide-Loc® Hydraulic
Coupler
Counterweight removal device
Vandal guard
Front screen – 2 inch by 2 inch mesh
Front guard vertical bars 6 inch spacing
FOPS – Top cab guard – level 2
Retractable side frames

BUCKETS

Application	Width	SAE Heaped Capacity
General purpose	36 in to 66 in (0.91 to 1.68 m)	1.76 yd ³ to 4.05 yd ³ (1.35 m ³ to 3.10 m ³)
Heavy-duty	36 in to 60 in (0.91 to 1.52 m)	1.73 yd ³ to 3.24 yd ³ (1.32 m ³ to 2.48 m ³)
Extreme-duty	30 in to 48 in (0.76 to 1.22 m)	1.24 yd ³ to 2.28 yd ³ (0.95 m ³ to 1.74 m ³)
Ditching	72 in (1.82 m)	2.5 yd ³ (1.91 m ³)

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NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: CNH America LLC reserves the right to change these specifications without notice and without incurring any obligation relating to such change. CNH America LLC does not warrant the safety or reliability of attachments from other manufacturers.

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