

CX460

**EXCAVATOR
TIER II CERTIFIED**

ENGINE

Model	Isuzu AA-6SD1XQB, Tier II 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	316 hp (235 kW) @ 1950 rpm
Maximum torque @ 1600 rpm	
Net	940 lb-ft (1275 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 left track travel, boom, bucket and arm	
5-spool section for right 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 140 Ah (5 hr rate)

SERVICE CAPACITIES

Hydraulic tank	
Refill capacity	58 gal (220 L)
Total system	119 gal (450 L)
Final drive (per side)	15.9 qt (15 L)
Swing drive	11.1 qt (10.5 L)
Engine	
w/filter change	34.9 qt (33 L)
Fuel	161 gal (610 L)
Radiator	48.1 qt (45.5 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 101,257 lb (45 929 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
+25 ft (7.62 m)													28 ft 4 in (8.64 m)	16,747 lbs* (7596 kg)	16,747 lbs* (7596 kg)
+20 ft (6.1 m)												11,365 lbs* (5155 kg)	33 ft 4 in (10.16 m)	10,822 lbs* (4909 kg)	10,822 lbs* (4909 kg)
+15 ft (4.57 m)												11,049 lbs* (5012 kg)	34 ft 10 in (10.62 m)	11,119 lbs* (5044 kg)	10,975 lbs* (4978 kg)
+10 ft (3.05 m)	31,143 lbs* (14 126 kg)	31,143 lbs* (14 126 kg)	43,006 lbs* (19 507 kg)	41,374 lbs (18 767 kg)	31,735 lbs* (14 395 kg)	26,516 lbs (12 027 kg)	25,926 lbs* (11 760 kg)	18,707 lbs (8485 kg)	22,439 lbs* (10 178 kg)	13,868 lbs* (6290 kg)	14,069 lbs* (6382 kg)	10,543 lbs* (4782 kg)	35 ft 6 in (10.82 m)	11,751 lbs* (5330 kg)	10,249 lbs (4649 kg)
+5 ft (1.52 m)	17,924 lbs* (8130 kg)	17,924 lbs* (8130 kg)	50,584 lbs* (22 945 kg)	37,694 lbs (17 098 kg)	35,999 lbs* (16 329 kg)	24,613 lbs (11 164 kg)	28,399 lbs* (12 882 kg)	17,622 lbs (7993 kg)	22,631 lbs* (10 265 kg)	13,233 lbs (6002 kg)	15,444 lbs (7005 kg)	10,210 lbs (4631 kg)	35 ft 6 in (10.82 m)	12,790 lbs* (5801 kg)	9,948 lbs (4512 kg)
Ground- line	23,984 lbs* (10 879 kg)	23,984 lbs* (10 879 kg)	53,886 lbs* (24 443 kg)	35,719 lbs (16 202 kg)	38,664 lbs* (17 538 kg)	23,277 lbs (10 558 kg)	29,285 lbs (13 284 kg)	16,776 lbs (7610 kg)	22,064 lbs (10 008 kg)	12,719 lbs (5769 kg)			34 ft 10 in (10.62 m)	14,406 lbs* (6534 kg)	10,049 lbs (4558 kg)
-5 ft (-1.52 m)	33,441 lbs* (15 169 kg)	33,441 lbs* (15 169 kg)	53,552 lbs* (24 291 kg)	34,994 lbs (15 873 kg)	39,317 lbs* (17 834 kg)	22,566 lbs (10 236 kg)	28,704 lbs (13 020 kg)	16,262 lbs (7376 kg)	21,725 lbs (9854 kg)	12,411 lbs (5629 kg)			33 ft 6 in (10.16 m)	16,972 lbs* (7699 kg)	10,622 lbs (4818 kg)
-10 ft (-3.05 m)	45,056 lbs* (20 437 kg)	45,056 lbs* (20 437 kg)	50,359 lbs* (22 842 kg)	35,026 lbs (15 887 kg)	37,818 lbs* (17 154 kg)	22,391 lbs (10 156 kg)	28,532 lbs (12 942 kg)	16,110 lbs (7308 kg)	21,702 lbs (9844 kg)	12,391 lbs (5620 kg)			30 ft 11 in (9.42 m)	20,776 lbs (9424 kg)	11,879 lbs (5388 kg)
-15 ft (-4.57 m)	59,790 lbs* (27 120 kg)	59,790 lbs* (27 120 kg)	44,172 lbs* (20 036 kg)	35,638 lbs (16 165 kg)	33,734 lbs* (15 301 kg)	22,699 lbs (10 296 kg)	25,972 lbs* (11 781 kg)	16,374 lbs (7427 kg)					27 ft 5 in (8.36 m)	22,456 lbs* (10 186 kg)	14,400 lbs (6532 kg)
-20 ft (6.1 m)	44,173 lbs* (20 037 kg)	44,173 lbs* (20 037 kg)	33,698 lbs* (15 285 kg)	33,698 lbs* (15 285 kg)	25,493 lbs* (11 563 kg)	23,606 lbs (10 707 kg)							22 ft 4 in (6.81 m)	21,787 lbs* (9882 kg)	20,197 lbs (9161 kg)

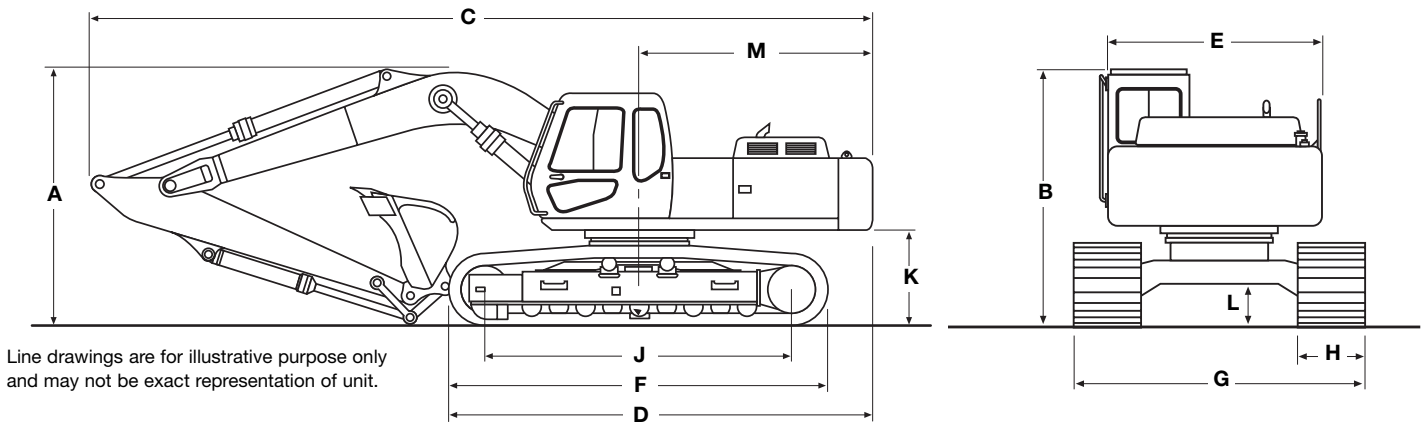
11 ft 1 in (3.38 m) Arm Lift capacities calculated using a 3,198 lb (1451 kg) bucket, 18,003 lb (8166 kg) counterweight operating in "Light" Mode.

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
+25 ft (7.62 m)													26 ft 3 in (8.00 m)	20,799 lbs* (9434 kg)	19,020 lbs (8627 kg)
+20 ft (6.1 m)													31 ft 4 in (9.55 m)	13,986 lbs* (6344 kg)	13,362 lbs (6061 kg)
+15 ft (4.57 m)													32 ft 11 in (10.03 m)	14,433 lbs* (6547 kg)	11,860 lbs (5380 kg)
+10 ft (3.05 m)													33 ft 8 in (10.26 m)	15,349 lbs* (6962 kg)	11,028 lbs (5002 kg)
+5 ft (1.52 m)													33 ft 8 in (10.26 m)	16,852 lbs* (7644 kg)	10,705 lbs (4856 kg)
Ground- line													32 ft 11 in (10.03 m)	19,002 lbs (8619 kg)	11,028 lbs (4929 kg)
-5 ft (-1.52 m)	35,327 lbs* (16 024 kg)	35,327 lbs* (16 024 kg)	52,177 lbs* (23 667 kg)	34,849 lbs (15 807 kg)	38,887 lbs* (17 639 kg)	22,369 lbs (10 146 kg)	28,544 lbs (12 948 kg)	16,113 lbs (7309 kg)	21,651 lbs (9821 kg)	12,337 lbs (5596 kg)			31 ft 3 in (9.53 m)	20,355 lbs (9233 kg)	11,611 lbs (5267 kg)
-10 ft (-3.05 m)	50,426 lbs* (22 873 kg)	50,426 lbs* (22 873 kg)	47,724 lbs* (21 647 kg)	35,146 lbs (15 951 kg)	36,417 lbs* (16 518 kg)	22,398 lbs (10 160 kg)	28,388 lbs* (12 876 kg)	16,123 lbs (7313 kg)					28 ft 9 in (8.76 m)	23,202 lbs (10 524 kg)	13,246 lbs (6008 kg)
-15 ft (-4.57 m)	52,427 lbs* (23 781 kg)	52,427 lbs* (23 781 kg)	40,120 lbs* (18 198 kg)	36,031 lbs (16 343 kg)	30,994 lbs* (14 059 kg)	22,927 lbs (10 399 kg)							24 ft 11 in (7.59 m)	23,220 lbs* (10 532 kg)	16,690 lbs (7570 kg)
-20 ft (6.1 m)													19 ft 2 in (5.84 m)	21,121 lbs* (9580 kg)	21,121 lbs* (9580 kg)

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
+20 ft (6.1 m)													22 ft 6 in (6.86 m)	25,023 lbs* (11 350 kg)	23,369 lbs (10 600 kg)
+15 ft (4.57 m)													27 ft 7 in (8.41 m)	23,851 lbs* (10 819 kg)	15,680 lbs (7113 kg)
+10 ft (3.05 m)													30 ft 5 in (9.27 m)	21,890 lbs* (9929 kg)	12,669 lbs (5747 kg)
+5 ft (1.52 m)													31 ft 10 in (9.70 m)	19,898 lbs* (9026 kg)	11,332 lbs (5140 kg)
Ground- line													31 ft 8 in (9.65 m)	19,830 lbs (8995 kg)	11,214 lbs (5087 kg)
-5 ft (-1.52 m)	33,325 lbs* (15 116 kg)	33,325 lbs* (15 116 kg)	49,628 lbs* (22 511 kg)	34,349 lbs (15 580 kg)	37,749 lbs* (17 123 kg)	21,939 lbs (9951 kg)	28,238 lbs* (12 809 kg)	15,790 lbs (7162 kg)	21,483 lbs (9744 kg)	12,142 lbs (5508 kg)			30 ft 0 in (9.14 m)	21,473 lbs (9740 kg)	12,137 lbs (5505 kg)
-10 ft (-3.05 m)	53,850 lbs* (24 426 kg)	53,850 lbs* (24 426 kg)	44,170 lbs* (20 035 kg)	34,958 lbs (15 857 kg)	34,342 lbs* (15 577 kg)	22,184 lbs (10 063 kg)	26,580 lbs* (12 056 kg)	15,989 lbs (7252 kg)					27 ft 4 in (8.33 m)	23,024 lbs* (10 444 kg)	14,143 lbs (6415 kg)
-15 ft (-4.57 m)	43,508 lbs* (19 735 kg)	43,508 lbs* (19 735 kg)	35,271 lbs* (15 999 kg)	35,271 lbs* (15 999 kg)	27,432 lbs* (12 443 kg)	23,008 lbs (10 436 kg)							23 ft 4 in (7.11 m)	21,935 lbs* (9949 kg)	18,514 lbs (8398 kg)

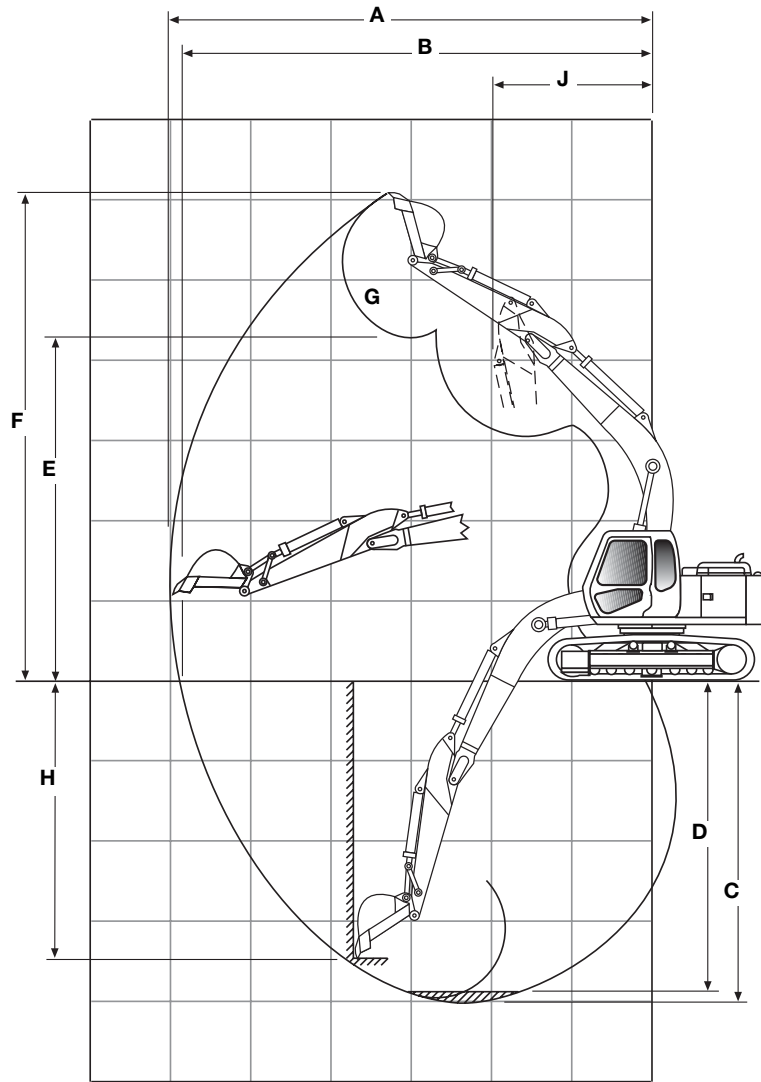
*Lift capacities do not exceed 75% of the minimum tipping load or 87% of the hydraulic lift capacity. Capacities that are marked with an asterisk are hydraulic limited.



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*	101,334 lb (45 964 kg)	101,257 lb (45 929 kg)	100,818 lb (45 730 kg)
Ground pressure	7.6 psi (53 kPa)	7.6 psi (53 kPa)	7.6 psi (53 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 AA-6SD1XQB turbocharged diesel
 Tier II 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

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: 20 ft 11 in (6.98 m) one piece
 Free swing control
 Hammer adaptable, no reinforcing required
 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

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)
Heavy-duty cast lip	39 in to 45 in (0.99 to 1.14 m)	1.90 yd ³ to 2.27 yd ³ (1.45 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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