

ENGINE

Model	Isuzu AM-4HK1X Tier 4 Interim Certified (Cooled EGR)
Fuel	Requires ultra low-sulfur fuel B5 biodiesel tolerant
Type	Water-cooled, 4-cycle, high pressure common rail system. Turbo-charged with air cooled intercooler, DPD system
Cylinders	4-cylinder in-line
Displacement	317 in ³ (5.2 L)
Bore/Stroke	4.53 in x 4.92 in (115 mm x 125 mm)
Fuel injection	Direct injection (electronic)
Fuel filter	Replaceable, full flow spin-on cartridge
Air filter	Dry type element w/ warning restriction indicator
Oil filter	Replaceable, full flow spin-on cartridge
Engine oil operating angle ratings:	
Side-to-side	Rated 35° slope
Fore and aft	Rated 35° slope
Net horsepower	
SAE J1349	160 hp (119.3 kW) @ 1800 RPM
Net maximum torque	
SAE J1349	458 lb-ft (621 N-m) @ 1500 RPM
Cooling	110° to -13°F (43° to -25°C) at 55% concentration
Oil	Requires low-ash oil (CJ-4)

SERVICE CAPACITIES

Fuel tank	108 gal (410 L)
Hydraulic system	63 gal (240 L)
Hydraulic tank	39 gal (147 L)
Engine oil w/ filter	6.1 gal (23.1 L)
Swing drive	5.3 qt (5.0 L)
Final drive (each side)	5.3 qt (5.0 L)
Cooling system	7.6 gal (28.7 L)

ELECTRICAL

Voltage	24 Volts
Alternator rating	50 amp
Batteries	2 x 12 Volt
Battery Reserve Capacity	92 Ah / 5 hour
Work lights (2)	24 Volt / 70 watt (1 x boom; 1 x upper)

SWING MECHANISM

Swing speed	0 – 11.8 RPM
Swing torque	47,200 lb-ft (64,000 N-m)
Swing brake	Mechanical disc

UNDERCARRIAGE

Length	14 ft 8 in (4.47 m)
Track gauge	7 ft 10 in (2.4 m)
Carrier rollers	2 per side
Track rollers	8 per side
Shoes—triple grouser	49 per side
Shoe width (Std.)	31.5 in (800 mm)
Link pitch	7.5 in (190 mm)
Track	
Chain	Grease lubricated / strutted
Guides	Single
Adjustment	Hydraulic

GROUND PRESSURE

@ Standard Operating Weight	4.9 psi (.34 bar)
	w/ 31.5 in (800 mm) triple semi-grouser shoes

HYDRAULICS

System design	Open center
Main pumps	Two variable displacement/ axial pistons
Max rated flow	2 x 55.7 gpm (2 x 211 L/min)
System pressures	
Boom, arm & bucket	4,970 psi (350 bar)
Boom, arm & bucket w/ power boost	5,330 psi (375 bar)
Travel circuits	4,970 psi (350 bar)
Swing circuits	3,920 psi (275 bar)
Pilot pump	1 x gear design
Max capacity	4.8 gpm (18 L/min)
Controls with boom/arm holding valve	
Right track travel, bucket, boom and arm acceleration	Four-spool section
Left track travel, auxiliary, swing, boom acceleration	Five-spool section
Work Mode Selections	SP: Speed priority H: Heavy duty A: Automatic
Swing motor	Fixed displacement axial piston
Swing final drive	Planetary gear reduction
Travel motor	Two-speed independent travel / axial piston

HYDRAULIC CYLINDERS

Boom cylinders	Two (2)
Cylinder bore	4.7 in (120 mm)
Cylinder rod diameter	3.3 in (85 mm)
Cylinder stroke	49.4 in (1255 mm)
Arm cylinder	One (1)
Cylinder bore	5.5 in (140 mm)
Cylinder rod diameter	3.9 in (100 mm)
Cylinder stroke	57.5 in (1460 mm)
Bucket cylinder	One (1)
Cylinder bore	4.7 in (120 mm)
Cylinder rod diameter	3.3 in (85 mm)
Cylinder stroke	39.8 in (1010 mm)

DRIVETRAIN

Travel control	Dual stage relief / counter balance design
Brakes	Mechanical disc
Service brakes	SAHR disc (each motor)
Two speed travel	
Max high speed	3.5 mph (5.6 kph)
Max low speed	2.1 mph (3.4 kph)
	Automatic downshift
Drawbar pull	42,265 lbf (188 kN)
Gradeability	70% (35° slope)

CAB AND CONTROLS

Air-conditioner output	18,100 BTU/hr
Heater output	20,150 BTU/hr
Sound level—ISO6395 (inside cab)	70 dBA
Electrical outlet	12 Volt
Cab interior light (1)	10 watt
Rear-view camera (1)	Standard
Seat	Air-suspension

ATTACHMENTS

Boom	18 ft 8 in (5.7 m)
Arm options	9 ft 8 in (2.94 m)
Bucket digging force*	31,923 lbf (142 kN)
w/ Auto Power-Boost	34,171 lbf (152 kN)

*Digging force ratings based on ISO6015

OPERATING WEIGHT

Operating weight	47,800 lb (21,685 kg)
w/ shoes	31.5 in (800 mm)
w/ boom	18 ft 8 in (5.70 m)
w/ arm	9 ft 8 in (2.94 m)
w/ bucket	1,450 lb (657 kg)
w/ counterweight	9,370 lb (4250 kg)
w/ operator / full fuel / standard equipment	

CX210C LIFT CAPACITIES

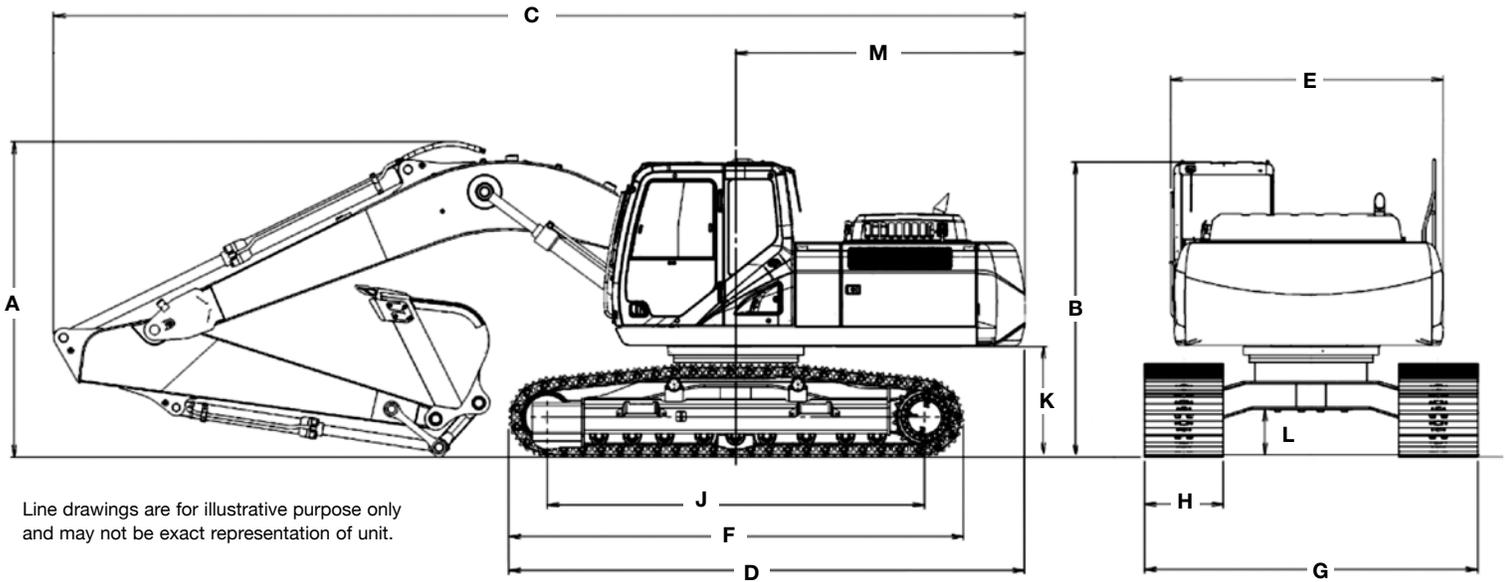
7 ft 10 in (2.40 m) Arm Lift capacities calculated using a 1,550 lb (703 kg) bucket, 9,370 lb (4250 kg) counterweight.

Load (Lift Point) Height	5 ft (1.5 m)		10 ft (3 m)		15 ft (4.5 m)		20 ft (6 m)		25 ft (7.5 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+25 ft (7.5 m)							8,500 lb* (3856 kg)*	8,500 lb* (3856 kg)*			22 ft 11 in (6.98 m)	7,300 lb* (3311 kg)*	7,300 lb* (3311 kg)*
+20 ft (6 m)							10,200 lb* (4627 kg)*	10,200 lb* (4627 kg)*	9,300 lb* (4218 kg)*	7,550 lb (3425 kg)	26 ft 7 in (8.10 m)	6,900 lb* (3130 kg)*	6,700 lb (3039 kg)
+15 ft (4.5 m)					13,500 lb* (6123 kg)*	13,500 lb* (6123 kg)*	11,200 lb* (5080 kg)*	10,750 lb (4876 kg)	10,350 lb* (4695 kg)*	7,400 lb (3357 kg)	28 ft 8 in (8.74 m)	6,850 lb* (3107 kg)*	5,700 lb (2585 kg)
+10 ft (3 m)			25,800 lb* (11 703 kg)*	25,800 lb* (11 703 kg)*	17,750 lb* (8051 kg)*	16,100 lb* (7303 kg)*	13,400 lb* (6078 kg)*	10,250 lb (4649 kg)	10,950 lb* (4967 kg)*	7,100 lb (3221 kg)	29 ft 8 in (9.04 m)	7,050 lb* (3198 kg)*	5,200 lb (2359 kg)
+5 ft (1.5 m)					21,150 lb* (9593 kg)*	15,000 lb (6804 kg)	15,150 lb (6872 kg)	9,700 lb (4400 kg)	10,650 lb (4831 kg)	6,800 lb (3084 kg)	29 ft 8 in (9.04 m)	7,450 lb* (3379 kg)*	5,100 lb (2313 kg)
Ground- line			16,800 lb* (7620 kg)*	16,800 lb* (7620 kg)*	22,900 lb* (10 387 kg)*	14,350 lb (6509 kg)	14,850 lb (6736 kg)	9,300 lb (4218 kg)	10,450 lb (4740 kg)	6,600 lb (2994 kg)	28 ft 10 in (8.78 m)	8,250 lb* (3742 kg)*	5,300 lb (2404 kg)
-5 ft (-1.5 m)	18,100 lb* (8210 kg)*	18,100 lb* (8210 kg)*	24,850 lb* (11 272 kg)*	24,850 lb* (11 272 kg)*	22,850 lb* (10 365 kg)*	14,250 lb (6464 kg)	14,650 lb (6645 kg)	9,200 lb (4173 kg)	10,400 lb (4717 kg)	6,600 lb (2994 kg)	27 ft 0 in (8.23 m)	9,250 lb (4196 kg)	5,900 lb (2676 kg)
-10 ft (-3 m)	24,850 lb* (11 272 kg)*	24,850 lb* (11 272 kg)*	31,550 lb* (14 311 kg)*	28,800 lb* (13 063 kg)*	21,650 lb* (9820 kg)*	14,500 lb (6577 kg)	14,850 lb (6736 kg)	9,350 lb (4241 kg)			23 ft 11 in (7.29 m)	11,250 lb (5103 kg)	7,150 lb (3243 kg)
-15 ft (-4.5 m)			25,700 lb* (11 657 kg)*	25,700 lb* (11 657 kg)*	17,950 lb* (8142 kg)*	15,000 lb (6804 kg)					19 ft 4 in (5.89 m)	12,050 lb* (5466 kg)*	10,150 lb (4604 kg)

9 ft 8 in (2.94 m) Arm Lift capacities calculated using a 1,450 lb (658 kg) bucket, 9,370 lb (4250 kg) counterweight.

Load (Lift Point) Height	5 ft (1.5 m)		10 ft (3 m)		15 ft (4.5 m)		20 ft (6 m)		25 ft (7.5 m)		30 ft (9 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+25 ft (7.5 m)									5,050 lb* (2291 kg)*	5,050 lb* (2291 kg)*			25 ft 0 in (7.62 m)	4,950 lb* (2245 kg)*	4,950 lb* (2245 kg)*
+20 ft (6 m)									8,450 lb* (3833 kg)*	7,800 lb (3538 kg)			28 ft 4 in (8.64 m)	4,700 lb* (2132 kg)*	4,700 lb* (2132 kg)*
+15 ft (4.5 m)							10,250 lb* (4649 kg)*	10,250 lb* (4649 kg)*	9,700 lb* (4400 kg)*	7,600 lb (3447 kg)	5,650 lb* (2563 kg)*	5,400 lb (2449 kg)	30 ft 4 in (9.25 m)	4,650 lb* (2109 kg)*	4,650 lb* (2109 kg)*
+10 ft (3 m)			22,350 lb* (10 138 kg)*	22,350 lb* (10 138 kg)*	16,350 lb* (7416 kg)*	16,200 lb (7348 kg)	12,600 lb* (5715 kg)*	10,500 lb* (4763 kg)*	10,650 lb* (4831 kg)*	7,300 lb (3311 kg)	8,150 lb (3697 kg)	5,250 lb (2381 kg)	31 ft 4 in (9.55 m)	4,800 lb* (2177 kg)*	4,800 lb* (2177 kg)*
+5 ft (1.5 m)			20,000 lb* (9072 kg)*	20,000 lb* (9072 kg)*	20,400 lb* (9253 kg)*	15,400 lb (6985 kg)	14,750 lb* (6690 kg)*	9,900 lb* (4491 kg)*	10,800 lb (4899 kg)	6,950 lb (3152 kg)	8,050 lb (3651 kg)	5,100 lb (2313 kg)	31 ft 4 in (9.55 m)	5,150 lb* (2336 kg)*	4,750 lb (2155 kg)
Ground- line			18,700 lb* (8482 kg)*	18,700 lb* (8482 kg)*	22,600 lb* (10 251 kg)*	14,550 lb (6600 kg)	15,000 lb (6804 kg)	9,450 lb (4286 kg)	10,550 lb (4785 kg)	6,700 lb (3039 kg)	7,550 lb* (3425 kg)*	5,000 lb (2268 kg)	30 ft 6 in (9.29 m)	5,650 lb* (2563 kg)*	4,900 lb (2223 kg)
-5 ft (-1.5 m)	16,200 lb* (7348 kg)*	16,200 lb* (7348 kg)*	24,050 lb* (10 909 kg)*	24,050 lb* (10 909 kg)*	23,000 lb* (10 433 kg)*	14,300 lb (6486 kg)	14,750 lb (6690 kg)	9,250 lb (4196 kg)	10,400 lb (4717 kg)	6,600 lb (2994 kg)			28 ft 8 in (8.74 m)	6,600 lb* (2994 kg)*	5,350 lb (2427 kg)
-10 ft (-3 m)	22,000 lb* (9979 kg)*	22,000 lb* (9979 kg)*	33,100 lb* (15 014 kg)*	28,600 lb (12 973 kg)	22,350 lb* (10 138 kg)*	14,450 lb (6554 kg)	14,800 lb (6713 kg)	9,300 lb (4218 kg)	10,550 lb (4785 kg)	6,750 lb (3062 kg)			25 ft 11 in (7.89 m)	8,350 lb* (3787 kg)*	6,350 lb (2880 kg)
-15 ft (-4.5 m)	31,100 lb* (14 107 kg)*	31,100 lb* (14 107 kg)*	28,700 lb* (13 018 kg)*	28,600 lb (12 973 kg)	19,750 lb* (8958 kg)*	14,850 lb (6736 kg)	14,000 lb* (6350 kg)*	9,800 lb* (4445 kg)*					21 ft 7 in (6.58 m)	11,700 lb* (5307 kg)*	8,500 lb (3856 kg)

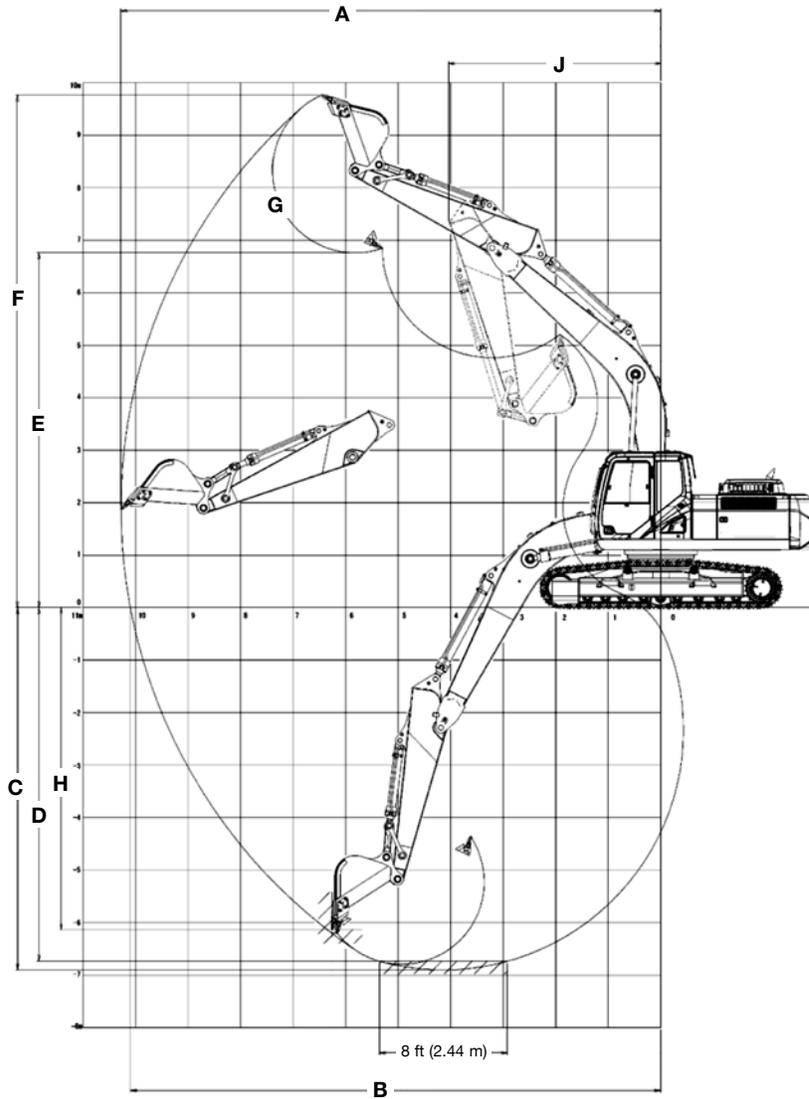
NOTE: *Lift capacities do not exceed 75% of the minimum tipping load or 87% of the hydraulic lift capacity. Capacities that are marked with an asterisk are hydraulic limited.



DIMENSIONS

	9 ft 8 in (2.94 m) Arm	7 ft 10 in (2.40 m) Arm
A. Overall height (w/ attachment)	9 ft 10 in (3.00 m)	10 ft 6 in (3.20 m)
B. Cab height	9 ft 8 in (2.95 m)	9 ft 8 in (2.95 m)
C. Overall length (w/ attachment)	30 ft 9 in (9.38 m)	31 ft 0 in (9.46 m)
D. Overall length (w/o attachment)	16 ft 3 in (4.96 m)	16 ft 3 in (4.96 m)
E. Width of upperstructure	9 ft 1 in (2.77 m)	9 ft 1 in (2.77 m)
Width of upperstructure w/ catwalks	NA	NA
F. Track overall length	14 ft 8 in (4.47 m)	14 ft 8 in (4.47 m)
G. Track overall width w/ 31.5 in (800 mm) shoes	10 ft 6 in (3.19 m)	10 ft 6 in (3.19 m)
H. Track shoe width	31.5 in (800 mm)	31.5 in (800 mm)
J. Center to center (idler to sprocket)	12 ft 0 in (3.66 m)	12 ft 0 in (3.66 m)
K. Upperstructure ground clearance	3 ft 5 in (1.04 m)	3 ft 5 in (1.04 m)
L. Minimum ground clearance	17 in (0.44 m)	17 in (0.44 m)
M. Rear tail swing radius	9 ft 0 in (2.75 m)	9 ft 0 in (2.75 m)
Operating weight*	47,800 lb (21 685 kg)	47,740 lb (21 654 kg)
Ground pressure	4.9 psi (.34 bar)	4.9 psi (.34 bar)

*With 31.5 in (800 mm) track shoe, 1,450 lb (657 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment.



PERFORMANCE SPECS

	9 ft 8 in (2.94 m) Arm	7 ft 10 in (2.40 m) Arm
A. Maximum dig radius	32 ft 6 in (9.90 m)	30 ft 11 in (9.42 m)
B. Maximum dig radius at groundline	31 ft 11 in (9.73 m)	30 ft 4 in (9.24 m)
C. Maximum dig depth	21 ft 10 in (6.65 m)	20 ft 1 in (6.11 m)
D. Dig depth—8 ft 0 in (2.44 m) level bottom	21 ft 3 in (6.47 m)	19 ft 4 in (5.90 m)
E. Dump height	22 ft 4 in (6.81 m)	21 ft 7 in (6.59 m)
F. Maximum reach height	31 ft 6 in (9.61 m)	30 ft 10 in (9.39 m)
G. Bucket rotation	177°	177°
H. Maximum vertical wall dig depth	19 ft 7 in (5.96 m)	18 ft 0 in (5.48 m)
J. Minimum swing radius	12 ft 6 in (3.80 m)	11 ft 10 in (3.60 m)
Arm digging force		
Standard	23,155 lb (103 kN)	27,651 lb (123 kN)
Power Boost	24,729 lb (110 kN)	29,675 lb (132 kN)
Bucket digging force		
Standard	31,923 lb (142 kN)	31,923 lb (142 kN)
Power Boost	34,171 lb (152 kN)	34,171 lb (152 kN)

STANDARD EQUIPMENT

ENGINE

Isuzu four-cylinder turbo-charged diesel
Tier 4 Interim Certified (CEGR)
Electronic fuel injection
High pressure common rail system
Diesel Particulate Defuser System (DPD)
Neutral safety start
Auto-engine warm up
Glow-plug pre-heat
EPF (Engine Protection Feature)
Dual-stage fuel filtration
Dual element air filter
Remote oil filter
Green plug oil drain
500-hour engine oil change interval
24-Volt system
Requires CJ-4 engine oil
Requires Ultra-low sulfur fuel

FUEL ECONOMY SYSTEMS

Engine Idle / Fuel Economy System
Auto-idle
One-touch idle
Idle shut-down
BEC—Boom Economy Control
AEC—Auto Economy Control
SWC—Swing Relief Control
SSC—Spool Stroke Control

HYDRAULICS

Auto power boost
Auto swing priority
Auto travel speed change
Selectable work modes
ISO pattern controls
Pre-set auxiliary pump settings

OPTIONAL EQUIPMENT

HYDRAULICS

Auxiliary hydraulics:
Single acting / joystick activated
Double acting / joystick activated
Multi-function / joystick activated
Secondary low-flow / joystick activated

ATTACHMENTS

Arm—7 ft 10 in (2.4 m)
Coupler / Case multi-pin grabber
Buckets
Heavy-duty
Extreme-duty
Heavy-duty Coupler
Ditching
Load holding control
Free swing (order kit through Service Parts)
Hose Burst Check Valve (HBCV)

BUCKETS

Application	Width	SAE Heaped Capacity
General Purpose	24 in to 48 in (0.61 m to 1.22 m)	0.65 yd ³ to 1.53 yd ³ (0.50 m ³ to 1.17 m ³)
Heavy-duty	24 in to 48 in (0.61 m to 1.22 m)	0.64 yd ³ to 1.51 yd ³ (0.49 m ³ to 1.15 m ³)
Extreme-duty	24 in to 42 in (0.61 m to 1.07 m)	0.58 yd ³ to 1.19 yd ³ (0.44 m ³ to 0.91 m ³)
Heavy-duty Coupler	24 in to 39 in (0.61 m to 0.99 m)	0.55 yd ³ to 1.03 yd ³ (0.42 m ³ to 0.79 m ³)
Ditching	60 in to 66 in (1.52 m to 1.68 m)	1.08 yd ³ to 1.20 yd ³ (0.83 m ³ to 0.92 m ³)

HYDRAULICS (continued)

Auxiliary valve
Auxiliary pipe brackets
5,000-hour hydraulic oil change interval
1,000-hour hydraulic filter change interval
SAHR brake

UPPERSTRUCTURE

Right and left side mirrors
Isolation mounted cab (fluid and spring)
Common key vandal locks
Upper mounted work light (70 watt)
Swivel guard belly pan

ATTACHMENTS

Boom—18 ft 8 in (5.7 m)
Arm—9 ft 8 in (2.94 m)
Heavy-duty bucket linkage
Boom mounted work light (70 watt)
Auxiliary pipe brackets
Centralized grease fittings
Attachment cushion valve
Arm and boom regeneration

OPERATOR STATION

ROPS protection
FOPS cab top guard (Level 1)
Pressurized cab
One-touch lock front window
AC/heat/defrost w/ auto climate control
Color monitor—7 in (180 mm)
Interior dome light
Air-suspension seat (cloth)
Seat belt
Adjustable armrests

OPERATOR STATION (continued)

Tilting consoles—4-position
Low-effort joystick controls
Sliding cockpit—7 in (180 mm)
Controls pre-wired for auxiliary
Straight travel
AM/FM radio w/ antenna and 2 speakers
Aux-in port for personal electronics
Rear-view camera
Anti-theft system (start code system)
Rubber floor mat
12-volt electric outlet
24-volt cigarette lighter
External rear view mirrors
Cab mounted work lights (2 x 70 watt)
Windshield wiper / washer
Clear (polycarbonate) roof window w/ sunshade
Cup holder
Storage compartments
Warm / cool storage compartment
On-board diagnostic system
Travel alarm with cancel switch
One key start and lock-up

UNDERCARRIAGE

31.5 in (800 mm) steel shoes, triple semi-grouser
Full overlap turntable bearing tub
Single track chain guides
Hydraulic track adjustment
X-pattern carbody

OPERATOR STATION

Control pattern selector
FOPS cab top guard (Level 2)
Front grill guard—2 x 2 screen mesh
Front rock guard—vertical bars
(two piece) / OPG 1
Front rock guard—vertical bars
(fixed / one piece) / OPG 2
Vandal guard
Rain deflector
Sun visor
Side-view camera

UPPERSTRUCTURE

Refueling pump
Rubber bumper guard (order through Service Parts)
High ambient temperature cooling package

UNDERCARRIAGE

27.6 in (700 mm) steel shoes, triple semi-grouser
23.6 in (600 mm) steel shoes, triple semi-grouser
23.6 in (600 mm) rubber shoes
Track chain guides—triple

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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: Case Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Case Construction Equipment Inc. does not warrant the safety or reliability of attachments from other manufacturers.

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