

ENGINE

Model	Isuzu AM-4HK1X Cooled EGR
Emissions Certification	Tier 4 Interim
Fuel	Requires ultra low-sulfur fuel B5 biodiesel tolerant
Type	Water-cooled, 4-cycle, high pressure common rail system Turbo-charged w/ air cooled intercooler, DPD system
Cylinders	4-cylinder in line
Displacement	317 in ³ (5.2 L)
Bore/Stroke	5 x 5 in (115 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 gradeability:	
Side-to-side	35°
Fore and aft	35°
Net horsepower – SAE J1349 @ 1800 RPM:	160 hp (119.3 kW)
Net max. torque – SAE J1349 @ 1500 RPM:	458 lb-ft (621 N-m)
Cooling operating range:	109° to -13° F (43° to -25° C)
Oil	Requires low-ash oil CJ-4

DRIVETRAIN

Travel control	Dual stage relief/ counter balance design
Brakes	Mechanical disc
Service brakes	SAHR disc – each motor
Two speed travel:	
Max. high speed	3.1 mph (5.0 kph)
Max. low speed	2.0 mph (3.2 kph)
Automatic downshift	
Drawbar pull	45,187 lbf (201 kN)
Gradeability	70% – 35° slope

ELECTRICAL

Voltage	24 Volts
Alternator rating	50 amp
Batteries	2 x 12 Volt
Battery reserve capacity	92 Ah/5 hour
Work lights	24 Volt
1 boom	70 watt
1 upper	70 watt

OPERATOR ENVIRONMENT

Air conditioner output	13,492 BTU/hr
Heater output	12,892 BTU/hr
Sound level inside cab – ISO6395	70 dBA
Electrical outlet	12 Volt
Cab interior light	10 watt
Rear view camera	Standard
Seat	Air-suspension

ATTACHMENT

Boom	18 ft 8 in (5 700 mm)
Arm	9 ft 8 in (2 940 mm)
Bucket digging force*	31,923 lb (142 kN)
w/ Auto Power-Boost	34,171 lb (152 kN)

OPERATING WEIGHT

Operating weight	55,997 lb (25 400 kg)
w/ shoes	2 ft 7 in (800 mm)
w/ boom	18 ft 8 in (5 700 mm)
w/ arm	9 ft 8 in (2 940 mm)
w/ bucket	1,435 lb (651 kg)
w/ counterweight	13,095 lb (5 940 kg)

NOTE: w/ operator/full fuel/standard equipment

GROUND PRESSURE

@ Standard operating weight	5.8 psi (0.4 bar)
w/ 31.5 in (800 mm) triple semi-grouser shoes	

NOTE: *Digging force ratings based on ISO6015.

HYDRAULICS

System design	Open center
Main pumps	Two variable displacement/ axial pistons
Max. rated flow	55.7 gpm (211 L/min)
System pressures:	
Boom, arm and bucket	4,975 psi (343 bar)
w/ power boost	5,337 psi (368 bar)
Travel circuits	4,975 psi (343 bar)
Swing circuits	4,264 psi (294 bar)
Pilot pump	1 x gear design
Max. capacity	4.8 gpm (18 L/min)
Controls	w/ boom/arm holding valve Four-spool section
Right track travel, bucket, boom and arm acceleration.	
Left track travel, bucket, boom and arm acceleration.	Five-spool section
Work mode selections	SP: Speed Priority H: Heavy Duty A: Automatic

HYDRAULICS (cont.)

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	53.9 in (1 370 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 (1 460 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 (1 010 mm)

SERVICE CAPACITIES

Fuel tank	85 gal (320 L)
Hydraulic system	67 gal (252 L)
Hydraulic tank	30 gal (114 L)
Engine oil w/ filter	6 gal (23.1 L)
Swing drive	5.3 qt (5 L)
Final drive – each side	5.3 qt (5 L)
Cooling system	8 gal (30.9 L)

OTHER SPECIFICATIONS

Swing speed	0 – 11.8 RPM
Swing torque	47,204 lb-ft (64 000 N-m)
Swing brake	Mechanical disc
Undercarriage:	
Length	14 ft 8 in (4 470 mm)
Track gauge	7 ft 10 in (2 400 mm)
Carrier rollers	2
Track rollers	8
Shoes – Triple grouser	49
Shoe width – std.	2 ft 7 in (800 mm)
Link pitch	7 in (190 mm)
Track:	
Chain	Grease lubricated/strutted
Guides	Single
Adjustment	Hydraulic

LIFT CAPACITIES

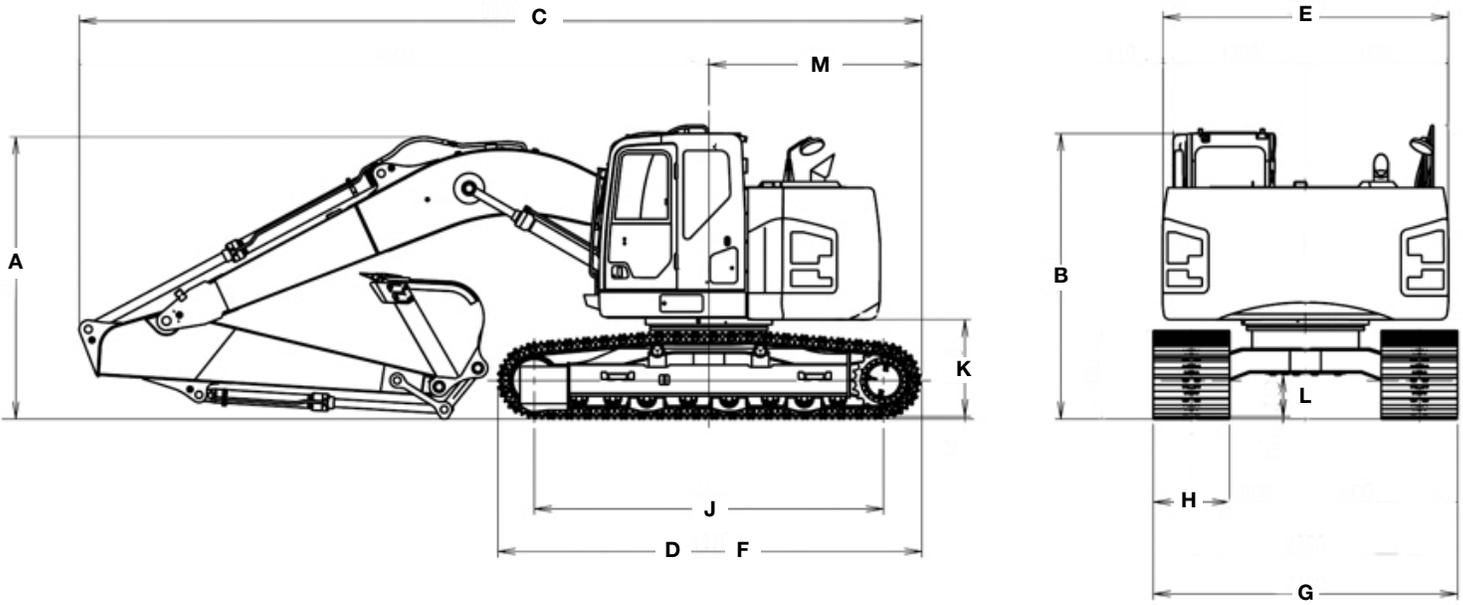
7 ft 10 in (2.40 m) Lift capacities using a 1,550 lb (703 kg) bucket, 13,092 lb (5 940 kg) counterweight.

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
+30 ft (9 m)					10,000 lb* (4 536 kg)*	10,000 lb* (4 536 kg)*					16 ft 8 in (5.08 m)	8,500 lb* (3 856 kg)*	8,500 lb* (3 856 kg)*
+25 ft (7.5 m)					8,050 lb* (3 651 kg)*	8,050 lb* (3 651 kg)*	9,800 lb* (4 445 kg)*	9,800 lb* (4 445 kg)*			22 ft 11 in (6.99 m)	7,300 lb* (3 311 kg)*	7,300 lb* (3 311 kg)*
+20 ft (6 m)					11,300 lb* (5 126 kg)*	11,300 lb* (5 126 kg)*	10,750 lb* (4 876 kg)*	10,750 lb* (4 876 kg)*	9,800 lb* (4 445 kg)*	8,200 lb (3 719 kg)	26 ft 5 in (8.05 m)	6,900 lb* (3 130 kg)*	6,900 lb* (3 130 kg)*
+15 ft (4.5 m)			18,000 lb* (8 165 kg)*	18,000 lb* (8 165 kg)*	14,350 lb* (6 509 kg)*	14,350 lb* (6 509 kg)*	11,900 lb* (5 398 kg)*	11,600 lb (5 262 kg)	10,750 lb* (4 876 kg)*	8,050 lb (3 651 kg)	28 ft 7 in (8.71 m)	6,850 lb* (3 107 kg)*	6,300 lb (2 858 kg)
+10 ft (3 m)			26,800 lb* (12 156 kg)*	26,800 lb* (12 156 kg)*	18,500 lb* (8 391 kg)*	17,350 lb* (7 870 kg)*	13,900 lb* (6 305 kg)*	11,150 lb (5 058 kg)	11,650 lb* (5 284 kg)*	7,800 lb (3 538 kg)	29 ft 6 in (8.99 m)	7,050 lb* (3 198 kg)*	5,800 lb (2 631 kg)
+5 ft (1.5 m)					21,650 lb* (9 820 kg)*	16,300 lb (7 394 kg)	15,650 lb* (7 099 kg)*	10,600 lb (4 808 kg)	12,000 lb (5 443 kg)	7,500 lb (3 402 kg)	29 ft 6 in (8.99 m)	7,500 lb* (3 402 kg)*	5,700 lb (2 585 kg)
Groundline			17,500 lb* (7 938 kg)*	17,500 lb* (7 938 kg)*	22,850 lb* (10 365 kg)*	15,650 lb (7 099 kg)	16,550 lb* (7 507 kg)*	10,200 lb (4 627 kg)	11,800 lb (5 352 kg)	7,300 lb (3 311 kg)	28 ft 7 in (8.71 m)	8,250 lb* (3 742 kg)*	5,950 lb (2 699 kg)
-5 ft (-1.5 m)	18,100 lb* (8 210 kg)*	18,100 lb* (8 210 kg)*	25,650 lb* (11 635 kg)*	25,650 lb* (11 635 kg)*	22,600 lb* (10 251 kg)*	15,550 lb (7 053 kg)	16,500 lb (7 484 kg)	10,100 lb (4 581 kg)	11,750 lb (5 330 kg)	7,250 lb (3 289 kg)	26 ft 9 in (8.15 m)	9,700 lb* (4 400 kg)*	6,600 lb (2 994 kg)
-10 ft (-3 m)	25,300 lb* (11 476 kg)*	25,300 lb* (11 476 kg)*	29,950 lb* (13 585 kg)*	29,950 lb* (13 585 kg)*	20,950 lb* (9 503 kg)*	15,800 lb (7 167 kg)	15,300 lb* (6 940 kg)*	10,300 lb (4 672 kg)			23 ft 8 in (7.21 m)	11,350 lb* (5 148 kg)*	8,000 lb (3 629 kg)
-15 ft (-4.5 m)			23,450 lb* (10 637 kg)*	23,450 lb* (10 637 kg)*	16,550 lb* (7 507 kg)*	16,050 lb (7 280 kg)					19 ft 0 in (5.79 m)	11,150 lb* (5 058 kg)*	11,150 lb* (5 058 kg)*

9 ft 8 in (2.94 m) Lift capacities using a 1,450 lb (658 kg) bucket, 13,092 lb (5 940 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
+30 ft (9 m)					4,700 lb* (2 132 kg)*	4,700 lb* (2 132 kg)*							19 ft 7 in (5.97 m)	5,650 lb* (2 563 kg)*	5,650 lb* (2 563 kg)*
+25 ft (7.5 m)							8,850 lb* (4 014 kg)*	8,850 lb* (4 014 kg)*					25 ft 0 in (7.62 m)	4,950 lb* (2 245 kg)*	4,950 lb* (2 245 kg)*
+20 ft (6 m)							9,850 lb* (4 468 kg)*	9,850 lb* (4 468 kg)*	8,950 lb* (4 060 kg)*	8,450 lb (3 833 kg)			28 ft 3 in (8.61 m)	4,700 lb* (2 132 kg)*	4,700 lb* (2 132 kg)*
+15 ft (4.5 m)			10,950 lb* (4 967 kg)*	10,950 lb* (4 967 kg)*	12,300 lb* (5 579 kg)*	12,300 lb* (5 579 kg)*	10,950 lb* (4 967 kg)*	10,950 lb* (4 967 kg)*	10,050 lb* (4 559 kg)*	8,250 lb (3 742 kg)	5,300 lb* (2 404 kg)*	5,300 lb* (2 404 kg)*	30 ft 2 in (9.19 m)	4,650 lb* (2 109 kg)*	4,650 lb* (2 109 kg)*
+10 ft (3 m)			23,800 lb* (10 795 kg)*	23,800 lb* (10 795 kg)*	17,100 lb* (7 756 kg)*	17,100 lb* (7 756 kg)*	13,200 lb* (5 987 kg)*	11,400 lb (5 171 kg)	11,100 lb* (5 035 kg)*	7,950 lb (3 606 kg)	7,950 lb* (3 606 kg)*	5,800 lb (2 631 kg)	31 ft 1 in (9.47 m)	4,850 lb* (2 200 kg)*	4,850 lb* (2 200 kg)*
+5 ft (1.5 m)			21,000 lb* (9 525 kg)*	21,000 lb* (9 525 kg)*	20,850 lb* (9 457 kg)*	16,700 lb (7 575 kg)	15,150 lb* (6 872 kg)*	10,800 lb (4 899 kg)	12,100 lb* (5 488 kg)*	7,650 lb (3 470 kg)	8,700 lb* (3 946 kg)*	5,650 lb (2 563 kg)	31 ft 1 in (9.47 m)	5,150 lb* (2 336 kg)*	5,150 lb* (2 336 kg)*
Groundline			19,400 lb* (8 800 kg)*	19,400 lb* (8 800 kg)*	22,750 lb* (10 319 kg)*	15,900 lb (7 212 kg)	16,400 lb* (7 439 kg)*	10,350 lb (4 695 kg)	11,900 lb (5 398 kg)	7,400 lb (3 357 kg)	6,800 lb* (3 084 kg)*	5,550 lb (2 517 kg)	30 ft 3 in (9.22 m)	5,700 lb* (2 585 kg)*	5,500 lb (2 495 kg)
-5 ft (-1.5 m)	16,250 lb* (7 371 kg)*	16,250 lb* (7 371 kg)*	24,800 lb* (11 249 kg)*	24,800 lb* (11 249 kg)*	22,850 lb* (10 365 kg)*	15,600 lb (7 076 kg)	16,550 lb (7 507 kg)	10,150 lb (4 604 kg)	11,750 lb (5 330 kg)	7,300 lb (3 311 kg)			28 ft 6 in (8.69 m)	6,650 lb* (3 016 kg)*	6,000 lb (2 722 kg)
-10 ft (-3 m)	22,350 lb* (10 138 kg)*	22,350 lb* (10 138 kg)*	32,050 lb* (14 538 kg)*	30,800 lb (13 971 kg)	21,850 lb* (9 911 kg)*	15,750 lb (7 144 kg)	16,000 lb* (7 257 kg)*	10,200 lb (4 627 kg)	11,650 lb* (5 284 kg)*	7,450 lb (3 379 kg)			25 ft 8 in (7.82 m)	8,400 lb* (3 810 kg)*	7,100 lb (3 221 kg)
-15 ft (-4.5 m)	32,300 lb* (14 651 kg)*	32,300 lb* (14 651 kg)*	26,700 lb* (12 111 kg)*	26,700 lb* (12 111 kg)*	18,650 lb* (8 459 kg)*	16,150 lb (7 326 kg)	13,050 lb* (5 919 kg)*	10,600 lb (4 808 kg)					21 ft 4 in (6.50 m)	11,050 lb* (5 012 kg)*	9,500 lb (4 309 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.

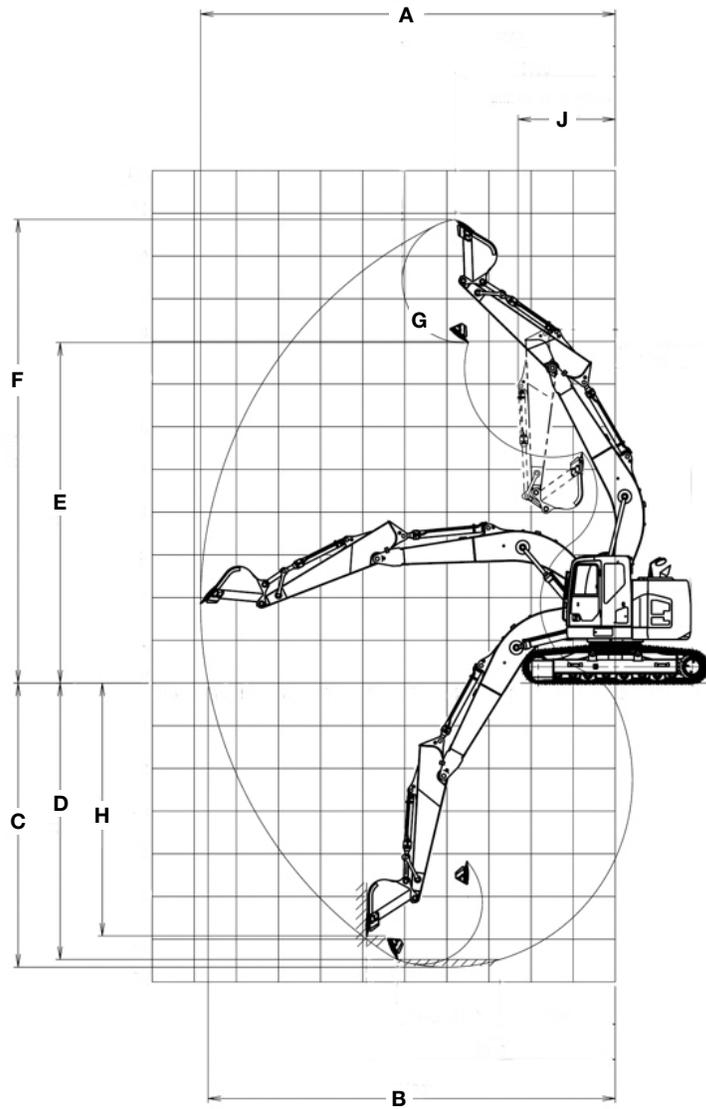


Line drawings are for illustrative purpose only and may not be exact representation of unit.

DIMENSIONS

	7 ft 10 in (2.40 m) Arm	9 ft 8 in (2.94 m) Arm
A. Overall height – with attachment	10 ft 5 in (3 180 mm)	10 ft 2 in (3 090 mm)
B. Cab height	10 ft 0 in (3 040 mm)	10 ft 0 in (3 040 mm)
C. Overall length – with attachment	29 ft 3 in (8 920 mm)	29 ft 0 in (8 830 mm)
D. Overall length – without attachment	14 ft 8 in (4 470 mm)	14 ft 8 in (4 470 mm)
E. Width of upper structure	9 ft 10 in (2 990 mm)	9 ft 10 in (2 990 mm)
F. Track overall length	14 ft 8 in (4 470 mm)	14 ft 8 in (4 470 mm)
G. Track overall width with 23.6 in (600 mm) shoes	10 ft 6 in (3 190 mm)	10 ft 6 in (3 190 mm)
H. Track shoe width	2 ft 7 in (800 mm)	2 ft 7 in (800 mm)
J. Center to center – idler to sprocket	12 ft 0 in (3 660 mm)	12 ft 0 in (3 660 mm)
K. Upper structure ground clearance	3 ft 4 in (1 020 mm)	3 ft 4 in (1 020 mm)
L. Minimum ground clearance	1 ft 5 in (440 mm)	1 ft 5 in (440 mm)
M. Rear tail swing radius	5 ft 8 in (1 720 mm)	5 ft 8 in (1 720 mm)
Operating weight*	55,803 lb (25 312 kg)	55,997 lb (25 400 kg)
Ground pressure	5.8 psi (0.4 bar)	5.8 psi (0.4 bar)

NOTE: *With 31.5 in (800 mm) track shoe, 1,550 lb (703 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment.



Line drawings are for illustrative purpose only and may not be exact representation of unit.

PERFORMANCE SPECS

	7 ft 10 in (2.40 m) Arm	9 ft 8 in (2.94 m) Arm
A. Maximum dig radius	30 ft 9 in (9 370 mm)	32 ft 4 in (9 850 mm)
B. Dig radius at groundline	30 ft 1 in (9 180 mm)	31 ft 9 in (9 670 mm)
C. Maximum dig depth	20 ft 1 in (6 120 mm)	21 ft 10 in (6 650 mm)
D. Dig depth – 8 ft 0 in (2.44 m) level bottom	19 ft 5 in (5 910 mm)	21 ft 3 in (6 480 mm)
E. Dump height	25 ft 0 in (7 630 mm)	26 ft 2 in (7 970 mm)
F. Maximum reach height	34 ft 6 in (10 515 mm)	35 ft 7 in (10 850 mm)
G. Bucket rotation	177°	177°
H. Maximum vertical wall dig depth	18 ft 0 in (5 480 mm)	19 ft 5 in (5 920 mm)
J. Minimum swing radius	8 ft 4 in (2 550 mm)	7 ft 7 in (2 310 mm)
Arm digging force:		
Standard	27,652 lb (123 kN)	23,155 lb (103 kN)
Power Boost	29,675 lb (132 kN)	24,729 lb (110 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

OPERATOR ENVIRONMENT

See page 1

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

UPPER STRUCTURE

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

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

ATTACHMENTS

Boom – 18 ft 8 in (5.70 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

TELEMATICS

CASE SiteWatch™ Telematics – includes hardware and a 3-yr Advanced data subscription

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

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

HYDRAULICS

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

UNDERCARRIAGE

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

ATTACHMENTS

Arm – 7 ft 10 in (2.40 m)
Coupler/Case multi-pin grabber
Buckets:
Heavy-duty
Extreme-duty
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 (0.61 m) to 48 in (1.22 m)	0.65 yd ³ (0.50 m ³) to 1.53 yd ³ (1.17 m ³)
Heavy-duty	24 in (0.61 m) to 48 in (1.22 m)	0.64 yd ³ (0.49 m ³) to 1.51 yd ³ (1.15 m ³)
Extreme-duty	24 in (0.61 m) to 42 in (1.07 m)	0.58 yd ³ (0.44 m ³) to 1.19 yd ³ (0.91 m ³)
Heavy-duty coupler	24 in (0.61 m) to 39 in (0.99 m)	0.55 yd ³ (0.42 m ³) to 1.03 yd ³ (0.79 m ³)
Ditching	60 in (0.61 m) to 66 in (1.68 m)	1.08 yd ³ (0.83 m ³) to 1.20 yd ³ (0.92 m ³)

This page intentionally left blank.



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.

CASE is a trademark registered in the United States and many other countries, owned by or licensed to CNH Industrial N.V., its subsidiaries or affiliates. CNH Industrial Capital is a trademark in the United States and many other countries, owned by or licensed to CNH Industrial N.V., its subsidiaries or affiliates.

Form No. CCE201503CX235CSRLC
Replaces form no. CCE201312CX235CSRLC

Printed in U.S.A.
CX235C SR LC • Page 6 of 6



www.casece.com

© 2015 CNH Industrial America LLC
All Rights Reserved



All Case construction equipment is biodiesel ready.