

ENGINE	
Model	Isuzu AQ-6WG1X Cooled EGR
Emissions Cert	ification Tier 4 Final
Fuel	Requires ultra low-sulfur fuel B5 biodiesel tolerant
Type hi	Water-cooled, 4-cycle, gh pressure common rail system. Turbo-charged w/ air cooled intercooler, SCR system
Cylinders	6-cylinder in-line
Displacement	957 in ³ (15.6 L)
Bore/Stroke	4.72 x 5.71 in (147 x 154 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 gradeat Side-to-side Fore and aft	oility: 35° 35°
Net horsepower – ISO 14396 @ 1800 RPM: 460 HP (343 kW)	
Gross horsepower – ISO 14396 @ 1800 RPM: 512 hp (382 kW)	
Net Max. Torque - ISO 14396 @ 1450 RPM: 1,623 Ib·ft (2 200 N·m)	
Cooling operati	ing 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 Max. low speed Automatic downshift	2.7 mph (4.3 km/h) 1.9 mph (3.0 km/h)
Drawbar pull	101,000 lbf (449 kN)
Gradeability	70% - 35 degree slope

ELECTRICAL	
Voltage	24 Volts
Alternator rating	50 amp
Batteries Battery reserve capacity	2 x 12 Volt 140 Ah/5 hours
Work lights – 4 2 boom, 1 upper, 2 cab	24 Volt/70 watt

OPERATOR ENVIRONMENT

Air-conditioner output	18,100 BTU/hr
Heater output	20,150 BTU/hr
Sound level inside cab - ISC	D6395 71.0 dBA
Electrical outlet	12 Volt
Cab interior light	10 watt
Rear view camera	Standard
Seat He	ated, air-suspension

ATTACHMENT

Boom	25 ft 4 in (7 700 mm)
Arm options	9 ft 9 in (3.02 m)
Bucket digging force*	68,790 lbf (306 kN)
w/ Auto Power Up	75,090 lbf (334 kN)

NOTE: *Digging force rating based on ISO6015 using an 11 ft 6 in (3 510 mm) arm.

OPERATING WEIGHT

Operating weight	159,600 lb (72 400 kg)
w/ shoes	2 ft 11 in (900 mm)
w/ boom	21 ft 6 in (6 580 mm)
w/ arm	9 ft 9 in (3.02 m)
w/ bucket	6,600 lb (2 993 kg)
w/ counterweight	22,900 lb (10 400 kg)

NOTE: w/ operator/full fuel/standard equipment.

GROUND PRESSURE

@ Standard operating weight 11.3 psi (0.78 bar) w/ 35.4 in (900 mm) triple semi-grouser shoes

HYDRAULICS	
System design	Open center
Main pumps Tv	vo variable displacement/ axial piston
Max. rated flow	2 x 125 gpm (472 L/min)
System pressures: Boom, arm and bucke w/ Power Boost Travel circuits Swing circuits	et 4,550 psi (320 bar) 4,970 psi (350 bar) 4,970 psi (350 bar) 4,050 psi (285 bar)
Pilot pump Max. capacity	1 x gear design 7.1 gpm (27 L/min)
Controls w	/ boom/arm holding valve
Right track travel, bucket, boom and arm acceleration. Left track travel, bucket, boom and arm acceleration.	Four-spool section
Work Mode selections SP: Speed Priorit H: Heavy Dut A: Automatic	
Swing motor Fixed	displacement axial piston
Swing final drive	Planetary gear reduction
Travel motor	Two-speed independent travel/axial piston

PRELIMINARY

MASS EXCAVATOR TIER 4 FINAL CERTIFIED

HYDRAULIC CYLINDERS

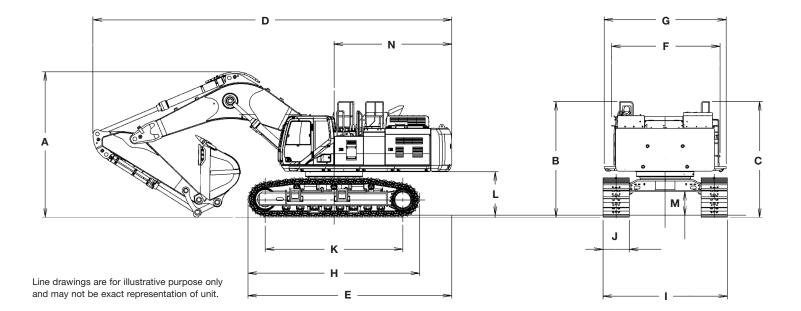
Boom cylinders	Two (2)
Cylinder bore	7.5 in (190 mm)
Cylinder rod diameter	5.1 in (130 mm)
Cylinder stroke	71.1 in (1 805 mm)
Arm cylinder	One (1)
Cylinder bore	8.3 in (210 mm)
Cylinder rod diameter	5.7 in (145 mm)
Cylinder stroke	80.9 in (2 055 mm)
Bucket cylinder	One (1)
Cylinder bore	7.9 in (200 mm)
Cylinder rod diameter	5.5 in (140 mm)
Cylinder stroke	57.1 in (1 450 mm)

SERVICE CAPACITIES

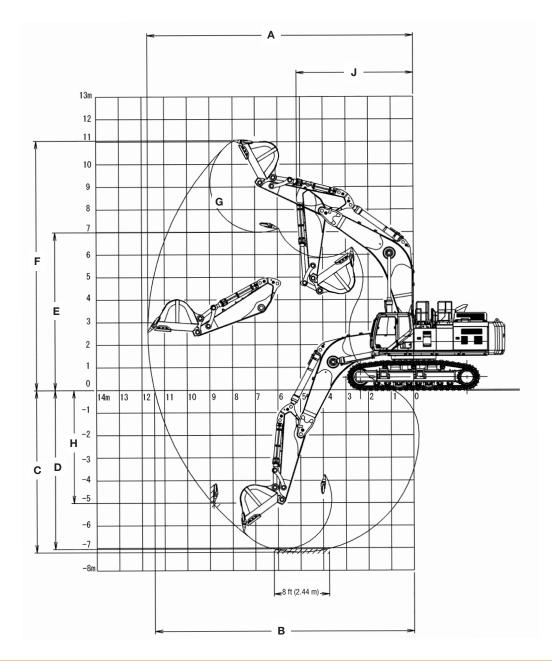
Fuel tank	238 gal (900 L)
Hydraulic system Hydraulic tank	172 gal (650 L) 81.9 gal (310 L)
Engine oil w/filter	13.7 gal (52 L)
Swing drive	3.6 gal (13.5 L)
Final drive-each side	4.0 gal (15.0 L)
Cooling system	28.5 gal (108 L)
Def tank	40 gal (152 L)

OTHER SPECIFICATIONS

Swing speed	0 - 6.7 RPM
Swing torque	178,000 lb·ft (241 000 N·m)
Swing brake	Mechanical disc
Undercarriage: Length Track gauge Carrier rollers Track rollers	19 ft 4 in (5 880 mm) 10 ft 10 in (3 350 mm) 3 8
Shoes – Triple grous Link pitch	ser 47 10.25 in (260.35 mm)
Track: Chain Guides Adjustment	Grease lubricated/strutted Single Hydraulic



DIMENSIONS	
	9 ft 9 in (3.02 m) Arm
A. Overall height – with attachment	16 ft 6 in (4 960 mm)
B. Cab height	11 ft 6 in (3 510 mm)
C. Overall height – top of guardrail	13 ft 5 in (3 950 mm)
D. Overall length – with attachment	40 ft 5 in (12 250 mm)
E. Overall length – without attachment	22 ft 8 in (6 960 mm)
F. Width of upperstructure – without catwalks	12 ft 2 in (3 700 mm)
G. Width of upperstructure – with catwalks	13 ft 8 in (4 170 mm)
H. Track overall length	19 ft 4 in (5 880 mm)
I. Track overall width with 35.4 in (900 mm) shoes:	
Extended	13 ft 11 in (4 250 mm)
Retracted	11 ft 11 in (3 640 mm)
J. Track shoe width	2 ft 11 in (900 mm)
K. Center to center – idler to sprocket	15 ft 5 in (4 710 mm)
L. Upperstructure ground clearance	4 ft 11 in (1 500 mm)
M. Minimum ground clearance	2 ft 9 in (825 mm)
N. Rear tail swing radius	13 ft 3 in (4 050 mm)
Operating weight	159,600 lb (72 400 kg)
Ground pressure	11.2 psi (0.78 bar)



PERFORMANCE SPECS	
	9 ft 9 in (3.02 m) Arm
A. Maximum dig radius	39 ft 4 in (11 730 mm)
B. Dig radius at groundline	37 ft 11 in (11 440 mm)
C. Maximum dig depth	24 ft 2 in (7 180 mm)
D. Dig depth - 8 ft 0 in (2.44 m) level bottom	23 ft 10 in (7 030 mm)
E. Dump height	23 ft 1 in (6 990 mm)
F. Maximum reach height	36 ft 8 in (11 060 mm)
G. Bucket rotation	170°
H. Maximum vertical wall dig depth	12 ft 9 in (5 000 mm)
J. Minimum swing radius	17 ft 8 in (5 150 mm)
Arm digging force:	
Standard	63,170 lb (281 kN)
Power Boost	69,020 lb (307 kN)
Bucket digging force:	
Standard	75,310 lb (335 kN)
Power Boost	82,280 lb (366 kN)

CADA	OTTES
	CITIES

Load (Lift Point Height)	MINIMUM REACH			0 ft (0 m)		5 ft (1.5 m)		10 ft (3 m)		15 ft (4.5 m)	
	@	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE
+30 ft (9 m)	28 ft 1 in (8.46 m)	16,750 lb* (7 100 kg)*	16,750 lb* (7 100 kg)*								
+25 ft (7.5 m)	25 ft 7 in (7.79 m)	21,800 lb* (10 610 kg)*	21,800 lb* (10 610 kg)*								
+20 ft (6 m)	23 ft 10 in (7.21 m)	32,550 lb* (14 910 kg)*	32,550 lb* (14 910 kg)*								
+15 ft (4.5 m)	18 ft 4 in (5.43 m)	44,700 lb* (21 020 kg)*	44,700 lb* (21 020 kg)*								
+10 ft (3 m)	12 ft 11 in (3.93 m)	22,500 lb* (10 190 kg)*	22,500 lb* (10 190 kg)*							65,400 lb* (30 410 kg)*	65,400 lb [*] (30 410 kg
+5 ft (1.5 m)	12 ft 6 in (3.8 m)	24,100 lb* (10 970 kg)*	24,100 lb* (10 970 kg)*							74,600 lb* (34 560 kg)*	74,600 lb* (34 560 kg)
Groundline	9 ft 7 in (2.93 m)	33,900 lb* (15 370 kg)*	33,900 lb* (15 370 kg)*					34,850 lb* (15 560 kg)*	34,850 lb* (15 560 kg)*	78,000 lb* (34 500 kg)*	72,350 lb (33 580 kg
-5 ft (-1.5 m)	2 ft 11 in (0.89 m)	29,950 lb* (13 670 kg)*	29,950 lb* (13 670 kg)*			43,300 lb* (19 330 kg)*	43,300 lb* (19 330 kg)*	49,150 lb* (21 830 kg)*	49,150 lb* (21 830 kg)*	76,600 lb* (35 370 kg)*	72,250 lb (33 580 kg
-10 ft (-3 m)	3 ft 0 in (0.9 m)	43,250 lb* (19 040 kg)*	43,250 lb* (19 040 kg)*			51,950 lb* (23 300 kg)*	51,950 lb* (23 300 kg)*	69,700 lb* (30 840 kg)*	69,700 lb* (30 840 kg)*	70,000 lb* (32 380 kg)*	70,000 lb [*] (32 380 kg)
-15 ft (-4.5 m)	5 ft 5 in (1.59 m)	73,150 lb* (32 350 kg)*	73,150 lb* (32 350 kg)*					79,100 lb* (36 830 kg)*	79,100 lb* (36 830 kg)*	57,600 lb* (26 850 kg)*	57,600 lb (26 850 kg
-20 ft (-6 m)	13 ft 7 in (3.74 m)	37,950 lb* (19 570 ka)*	37,950 lb* (19 570 kg)*							34,600 lb* (16 860 ka)*	34,600 lb (16 860 kg

Load (Lift Point Height)	20 ft (6 m)		25 ft (7.5 m)		30 ft (9 m)		35 ft (10.5 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+30 ft (9 m)					19,650 lb* (10 050 kg)*	19,650 lb* (10 050 kg)*			30 ft 6 in (9.41 m)	17,300 lb* (7 790 kg)*	17,300 lb* (7 790 kg)*
+25 ft (7.5 m)					25,450 lb* (11 630 kg)*	25,450 lb* (11 630 kg)*			33 ft 9 in (10.35 m)	16,500 lb* (7 470 kg)*	16,500 lb* (7 470 kg)*
+20 ft (6 m)			31,800 lb* (14 600 kg)*	31,800 lb* (14 600 kg)*	27,400 lb* (12 600 kg)*	26,900 lb (12 490 kg)	21,100 lb* (10 670 kg)*	19,550 lb (9 180 kg)	35 ft 10 in (10.94 m)	16,350 lb* (7 410 kg)*	16,350 lb* (7 410 kg)*
+15 ft (4.5 m)	41,450 lb* (19 210 kg)*	41,450 lb* (19 210 kg)*	34,700 lb* (15 990 kg)*	34,700 lb* (15 990 kg)*	30,700 lb* (14 090 kg)*	25,950 lb (12 100 kg)	26,450 lb* (12 190 kg)*	19,050 lb (8 930 kg)	36 ft 11 in (11.27 m)	16,600 lb* (7 510 kg)*	16,600 lb* (7 510 kg)*
+10 ft (3 m)	48,900 lb* (22 540 kg)*	48,900 lb* (22 540 kg)*	38,200 lb* (17 690 kg)*	34,200 lb (15 910 kg)	32,250 lb* (14 840 kg)*	24,750 lb (11 540 kg)	27,550 lb* (12 690 kg)*	18,450 lb (8 620 kg)	37 ft 3 in (11.36 m)	17,200 lb* (7 820 kg)*	16,100 lb (7 300 kg)
+5 ft (1.5 m)	54,600 lb* (25 210 kg)*	46,900 lb (21 820 kg)	41,550 lb* (19 220 kg)*	32,400 lb (15 090 kg)	33,600 lb* (15 540 kg)*	23,700 lb (11 050 kg)	27,250 lb (12 700 kg)	17,850 lb (8 340 kg)	36 ft 10 in (11.23 m)	18,400 lb* (8 350 kg)*	16,150 lb (7 320 kg)
Groundline	56,500 lb* (26 110 kg)*	44,850 lb (20 870 kg)	43,000 lb* (19 890 kg)*	31,100 lb (14 490 kg)	34,150 lb* (15 820 kg)*	22,900 lb (10 680 kg)	26,750 lb* (12 520 kg)	17,500 lb (8 170 kg)	35 ft 8 in (10.86 m)	20,300 lb* (9 220 kg)*	16,950 lb (7 700 kg)
-5 ft (-1.5 m)	55,550 lb* (25 690 kg)*	44,200 lb (20 590 kg)	42,350 lb* (19 610 kg)*	30,600 lb (14 250 kg)	33,050 lb* (15 370 kg)*	22,700 lb (10 570 kg)			33 ft 7 in (10.25 m)	23,400 lb* (10 570 kg)*	18,850 lb (8 530 kg)
-10 ft (-3 m)	51,750 lb* (23 990 kg)*	44,550 lb (20 730 kg)	39,050 lb* (18 190 kg)*	30,900 lb (14 370 kg)	27,850 lb* (13 310 kg)*	23,400 lb (10 860 kg)			30 ft 7 in (9.35 m)	25,450 lb* (11 540 kg)*	22,400 lb (10 100 kg)
-15 ft (-4.5 m)	42,600 lb* (19 990 kg)*	42,600 lb* (19 990 kg)*	29,250 lb* (14 130 kg)*	29,250 lb* (14 130 kg)*					26 ft 3 in (8.07 m)	23,550 lb* (10 710 kg)*	23,550 lb* (10 710 kg)*
-20 ft (-6 m)	(10 670 kg)*	(10 670 kg)*							18 ft 7 in (6.06 m)	24,900 lb* (10 300 kg)*	24,900 lb* (10 300 kg)*

NOTE: *Lift capacities marked with an asterisk (*) are limited by 87% hydraulic capacity and 75% tipping capacity.

STANDARD EQUIPMENT

ENGINE

Isuzu AQ-6WG1X **Tier 4 Final Certified** Selective Catalytic Reduction - SCR **Diesel Oxidation Catalyst - DOC** Cooled Exhaust Gas Recirculation - CEGR EGR Coolers Six-cylinder turbo-charged diesel VGT turbocharger Electronic fuel injection High pressure common rail system Neutral safety start Auto-engine warm up Glow-plug pre-heat Fuel Economy Assist System - FEA Engine Protection Feature - EPF Dual-stage fuel filtration Dual element air filter Remote oil filter Drain for fuel tank Remote engine oil drain 500-hour engine oil change interval 24 Volt system Engine oil sample port Battery disconnect switch Air pre-cleaner - Cyclone High ambient temperature cooling package Emergency engine stop External Fuel and DEF gauges Fan housing Fuel cooler Fuel filter restriction indicator Fuel shut-off valve Idle start Radiator, oil cooler, intercooler - protective screen

FUEL ECONOMY SYSTEMS

Engine Idle/Fuel Economy System: Auto-idle One-touch idle Auto-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 Arm speed assistance – 2 pump flow Auxiliary flow control Auxiliary valve Boom speed assistance – 2 pump flow Bucket curl assist Control levers pre-wired for auxiliary hydraulics Electronically controlled hydraulic pumps Holding valve – Boom and Arm Fire wall Hydraulic filter restriction indicator Neutral pump de-stroke Oil cooler Power save Pump stand-by pressure Auto travel speed change Selectable work modes Free swing Hydraulic oil sample port Control pattern selector Pre-set auxiliary pump settings Auxiliary valve 5,000-hour hydraulic oil change interval 1,000-hour hydraulic filter change interval SAHR brake

UPPER STRUCTURE

ISO mirrors – 3 Cab ISO-Mounts – fluid and spring Upper mounted work light – 70 watt Swivel guard belly pan Center cover – over main CV Fuel tank belly pan Handrail – RH access ISO guard rails Lifting eyes for counterweight Lockable fuel cap, service doors and toolbox

ATTACHMENTS

Boom – 21 ft 11 in (6 580 mm) Heavy-duty bucket linkage Boom mounted work light – 70 watt Auxiliary pipe brackets Centralized grease fittings Attachment cushion valve Arm and boom regeneration Bucket anti-clatter device Chrome pins Easy Maintenance System (EMS) bushings Teardrop pin retention keepers

OPERATOR ENVIRONMENT

ROPS protection FOPS cab top guard - Level 1 Pressurized cab Face vent Cab lights - 2 Interior dome light One-touch lock front window One piece window - right Safety glass windows Gate lock hydraulic activation Emergency exit and hammer Clear polycarbonate roof window with sunshade AC/heat/defrost with auto climate control LED Color monitor - 7 in (180 mm) 26 selectable languages for monitor On-board diagnostic system 10 programmable attachments settings on monitor - 5 single flow, 5 dual flow Seat belt - 3 in (76 mm) Heated high-back cloth seat with air suspension and 65° tilt adjustment Sliding seat - 3.54 in (90 mm)

Adjustable armrests Tilting consoles – 4-position Sliding cockpit - 3.15 in (80 mm) Low-effort joystick controls Controls pre-wired for auxiliary Single pedal travel Straight travel AM/FM radio with antenna, 2 speakers and Bluetooth capabilities Aux-in port for personal electronics Radio mute switch - joystick Rear-view camera Anti-theft system - start code system Rubber floormat 12 Volt electric outlet 24 Volt cigarette lighter Windshield wiper/washer Cup holder Storage compartments Warm/cool storage compartment Travel alarm with cancel switch Ianition kevs One key start & lock-up Cab filter - external Cab handrails Operator's manual

UNDERCARRIAGE

Retractable undercarriage 35.4 in (900 mm) steel shoes, triple semi-grouser Full overlap turntable bearing tub Double track chain guides Hydraulic track adjustment Sealed link chain Steps Carbody belly pan - swivel guard X-pattern carbody Lashing points - tie downs Extra Filter Kit: Engine oil filter Filter wrench Fuel filters Grease gun Green plug oil drain hose for engine oil drain Hydraulic return filter Pilot circuit hydraulic filter

TELEMATICS

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

OPTIONAL EQUIPMENT

ENGINE

Refuling pump

HYDRAULICS

Auxiliary hydraulics:

- Single acting/joystick activated Double acting/joystick activated - thumb Multi-function with electronic pressure control/joystick activated with electronic proportional controls
- Secondary low-flow/joystick activated Proportional hydraulic controls
- Hose Burst Check Valve HBCV

Hydraulic CWT Removal Device

ATTACHMENTS

Arm options: 9 ft 9 in (3.02 m) 13 ft 5 in (4.11 m) 16 ft 4 in (5.00 m) Tools: Heavy-duty/Extreme-duty/Ditching Buckets; Hammers; Thumbs; Compaction plates. Load holding control

UPPER STRUCTURE

Rubber bumper guard - order through Service Parts Catwalk - left and right side

UNDERCARRIAGE

Full Length Track Chain Guards

OPERATOR ENVIRONMENT

FOPS cab top guard - Level 2 Front grill guard - 2 x 2 in (50.8 x 50.8 mm) screen mesh Front rock guard - vertical bars Two piece/OPG 1 Front rock guard - vertical bars One piece/OPG 2 Rain deflector - not available with Front guards Sun visor Side-view camera LED Package: Includes 1 Side view camera and 6 LED Lights - 2 front cab mounted, 2 rear mounted and 1 mounted on each side Full View Monitors (270 degree aerial view)

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