

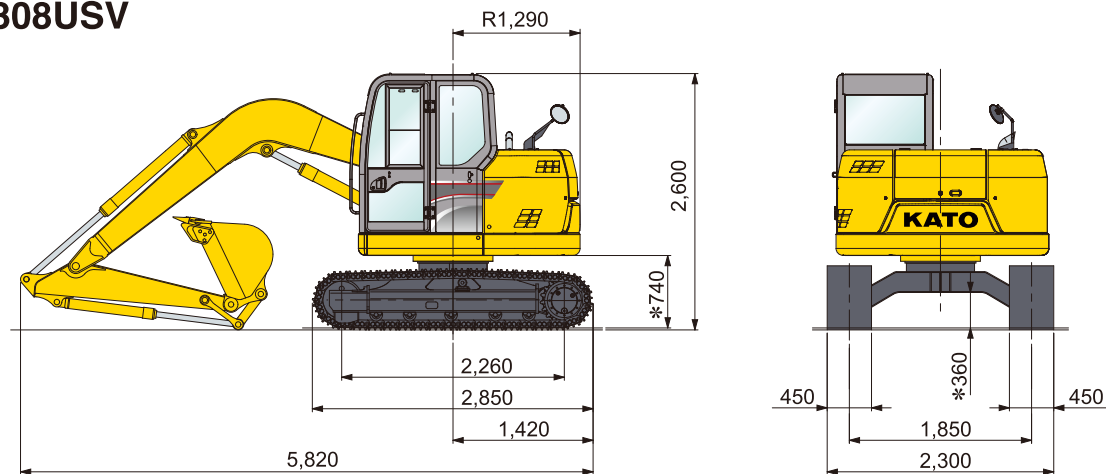
Innovations For The Future

Eco & Tough



Dimensions

HD308USV



*Less grouser bar

Address inquiries to :

NOTE : Illustrations may include optional equipment. KATO products and specifications are subject to improvements and changes without notice.



KATO

**QUALITY & EXPERIENCE
SINCE 1895**

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C03111
11.2010-1000(TG)1
7.2012-1000(TG)1-1-1 Printed in Japan

KATO

REGZM

FULLY HYDRAULIC EXCAVATOR

HD308USV

Bucket capacity: 0.12m³-0.34m³(ISO)

Engine output: 40.0kW / 2,000min⁻¹(ISO Net)

Operating weight: 7,300kg



REGZM

HD 308 USV

***It is a word of ACTIVE MACHINE
with 5 essential design features***

- User friendly design
- Environmentally cautious design
- Lower fuel consumption
- Easy Maintenance
- Robotic shape design



Easier Maintenance



Maintenance accessibility is improved.

Gathered filters and parallel established radiator & oil cooler through Wide Opening Tail supports easy maintenance.



Improved Stability

Increased tail radius and new shaped counter weight improve stability.

Tail Slewing Radius: 1290mm
(With Optional Weight): 1370mm



Clearance for Feet

Compact established pedals & levers offers wider space for feet.



New APC (APC150)

Adoption of new APC system (APC150) offers easier operations and maintenance.

- Quick selection of working modes
- Color monitor display and Back-light at touch switches
- 12 maintenance information available

Technical Specifications

ENGINE

Model	ISUZU 4LE2X
	4 cycle intercooler turbo charged diesel engine
Number of cylinders	4
Bore & Stroke	85.0mm×96.0mm
Total displacement	2.179 L
Rated output	40.0kW/2,000min ⁻¹ (ISO Net)
Max. torque	209N·m/1,500min ⁻¹ (ISO Net)
Compression ratio	18.3:1
Combustion system	Direct injection
Specific fuel consumption	234±7g/kW-hour
Cooling system	Pressurized water circulated by a centrifugal pump with thermostat
Lubrication system	Pressurized oil fed by a gear pump through full-flow and by-pass cartridge filter
Starter	Electric, 24V-3.2kW
Generator	Alternator, 24V-50A
Governor	Mechanical
Air cleaner	Dry type filter

HYDRAULIC SYSTEM

Pumps	Double variable piston pump and gear pump
Max. discharge flow	2×74.0L/min
Max. discharge pressure	29.4MPa
Max. discharge pressure (travel circuit only)	31.4MPa
Oil filtration	Full-flow filter with replaceable element, a pilot line filter and suction strainer
Control valves	5+4 section multiple control valves (with one free service circuit)
Pilot pump	Gear type
Oil cooler	Finned tube, forced ventilation
Pressure relief valves	Primary and secondary on each circuit

CAB & CONTROLS

Type	All weather sound suppressed, cab mounted on 4 point viscous mounting.
Right hand levers	Controls the boom & bucket
Inner right hand lever (with foot pedal)	Controls the right hand track

Inner left hand lever (with foot pedal)	Controls the left hand track
Left hand lever	Controls the arm & swing
Pilot control	Travel, boom, arm, bucket and swing
Engine throttle	Electric "Accell dial"
Meter & gauges	Hour meter, water temperature and fuel level
Working lights	Provided on the boom left side and right front cover
Lubrication chart	Inside of the right front side cover

APC150

- Quick Selection of Working Modes
 - A: All-around Multi Purpose Mode for all application from precision work to heavy duty work by stroke of operation levers
 - E: ECO Mode for economical works
- Color monitor display with back up light
- Engine oil pressure
- Hydraulic oil filter
- Engine preheater
- Hydraulic oil temperature
- Water temperature
- Water level
- Fuel level
- Battery charge
- APC monitor and air cleaner
- Fuel water level
- Calendar

BOOM, ARM AND BUCKET

Boom cylinders	One, double acting
Bore & Stroke	105mm×960mm
Arm cylinder	One, double acting
Bore & Stroke	95mm×920mm
Bucket cylinder	One, double acting
Bore & Stroke	85mm×745mm
Lubrication	Grease nipples, with centralized greasing for remote points
Bucket digging force	61.4kN (6,300kgf)
Arm digging force	42.2kN (4,300kgf)

SWING SYSTEM

Drive	Axial piston motor with shockless valve and reduction gear.
Brake	A hydraulic brake that locks automatically when the swing control lever is in the neutral position and a mechanical parking brake which is applied when the safety lock lever is pulled backwards, the engine is turned off or the swing control lever is in the neutral position.
Lubrication	Completely housed and grease bathed
Max. swing speed	10.0min ⁻¹
Tail swing radius	1,290mm
Min. front swing radius	1,630mm

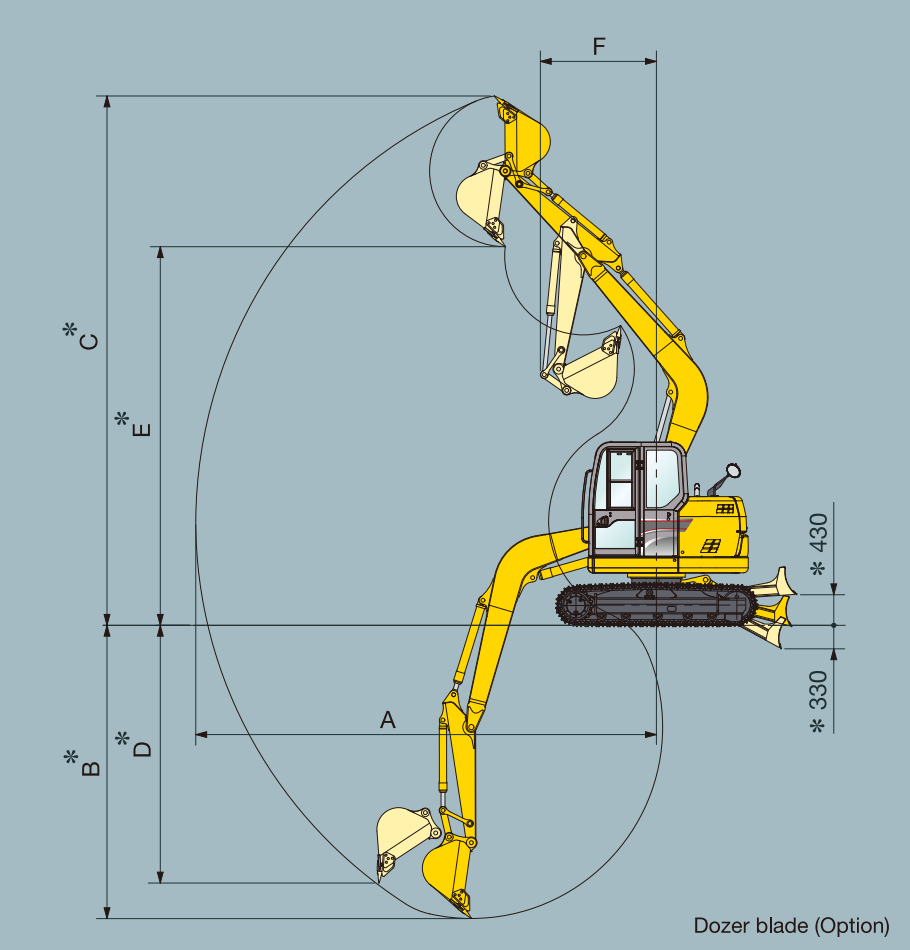
TRAVEL SYSTEM

Drive	Independent axial piston motor with reduction for each side
Brakes	Independent disk parking brake for each side, applied automatically when the travel levers are in the neutral position.
Track shoes	39 each side
Track adjustment	Grease cylinders with recoil springs
Lubrication	Sealed-for-life rollers and front idlers with floating seals
Travel speed	High 0~5.0km/h Low 0~3.2km/h
Gradeability	70% (35°)
Max. drawbar pull	66.9kN
Ground clearance (less grouser bar)	360mm
Track length	2,850mm

SERVICE DATA

Fuel tank	120 L
Cooling system	11 L
Engine oil	10.7 L
Track drives	2×1.3 L
Hydraulic oil tank (level)	51 L
(system)	98 L
In standard figure, with the 1.62m arm, 450mm grouser shoes and 0.28m ³ (ISO), bucket.	
Operating weight	7,300kg
Ground pressure	32kPa

Working Ranges



		Unit : mm	
Range	Arm	STD (1.62m)	Long Arm (2.07m)
A : Max. digging radius		6,470	6,910
*B : Max. digging depth		4,120	4,570
*C : Max. digging height		7,430	7,800
*D : Max. vertical wall		3,620	4,140
*E : Max. dumping height		5,320	5,680
F : Min. swing radius		1,630	2,010

* Less grouser bar.

Bucket

Type of bucket			Backhoe bucket					Slope forming bucket
Bucket capacity								

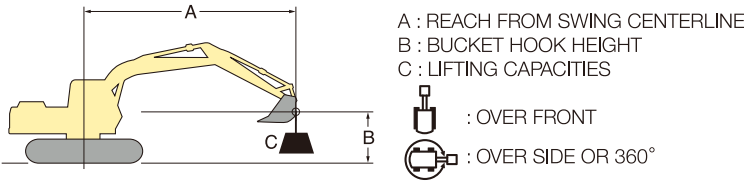
● General purpose ▲ Light work × Unusable ○ Yellow colored area means standard.

Track Shoes

		Pat crawler	Grouser shoe		Flat shoe	Triangle shoe	
Type of shoes							
Shoe width	mm	450	450	600	450	600	700
Overall width	mm	2,300	2,300	2,450	2,300	2,450	2,550
Ground pressure	kPa	32 (0.33)	32 (0.33)	25 (0.25)	34 (0.34)	25 (0.25)	22 (0.22)
Net weight change	kg	± 0	S.T.D	+120	+340	+260	+330

○ Yellow colored area means standard.

Lifting Capacities



HD308USV BOOM: 3.83m, ARM: 1.62m, BUCKET: 0.28m³ (230kg), SHOE WIDTH: 450mm, COUNTERWEIGHT: 1,060kg Unit: 1,000kg

LOAD POINT HEIGHT B (m)	OUTREACH A (m)								RATING AT MAXIMUM REACH		
	2.00		3.00		4.00		5.00		m	m	m
5.00			*1.35	*1.35							
4.00			*1.56	*1.56	*1.48	*1.48					
3.00	*2.85	*2.85	*2.03	*2.03	*1.70	1.52	1.26	1.02	1.09	0.88	5.39
2.00			*2.64	2.28	1.77	1.43	1.22	0.98	1.00	0.80	5.58
1.00			2.68	2.10	1.68	1.34	1.17	0.94	0.97	0.78	5.58
0.00	*3.06	*3.06	2.58	2.01	1.62	1.29	1.14	0.91	1.01	0.80	5.40
-1.00	*3.10	*3.10	2.56	1.99	1.59	1.26	1.13	0.90	1.13	0.90	5.01
-2.00	*3.09	*3.09	2.59	2.02	1.61	1.28			1.42	1.13	4.36
-3.00	*3.20	*3.20	*2.24	2.11					*1.98	1.83	3.29

HD308USV BOOM: 3.83m, ARM: 2.07m, BUCKET: 0.22m³ (210kg), SHOE WIDTH: 450mm, COUNTERWEIGHT: 1,060kg Unit: 1,000kg

LOAD POINT HEIGHT B (m)	OUTREACH A (m)								RATING AT MAXIMUM REACH		
	2.00		3.00		4.00		5.00		6.00		m
6.00											
5.00					*1.18	*1.18					
4.00					*1.27	*1.27	*1.29	1.08			
3.00			*1.69	*1.69	*1.49	*1.49	1.29	1.05			0.94 0.76 5.89
2.00	*3.72	*3.72	*2.33	*2.33	*1.80	1.46	1.23	1.00	0.89	0.71	0.87 0.69 6.06
1.00	*2.53	*2.53	2.73	2.15	1.70	1.36	1.18	0.95	0.86	0.68	0.85 0.67 6.06
0.00	*2.92	*2.92	2.60	2.03	1.62	1.29	1.14	0.90			0.87 0.69 5.89
-1.00	*3.02	*3.02	2.54	1.98	1.58	1.25	1.11	0.88			0.95 0.75 5.54
-2.00	*3.07	*3.07	2.55	1.98	1.58	1.25					1.14 0.90 4.96
-3.00	*3.28	*3.28	2.61	2.04	1.63	1.30					1.60 1.27 4.06

- NOTE : 1. Lifting capacities are based on ISO 10567.
2. Lifting capacities shown do not exceed 87% of machine hydraulic capacity or 75% of minimum tipping load.
3. Capacities marked with an asterisk (*) are limited by hydraulic capacities.
4. Lifting capacities are based on machine standing on firm, uniform supporting surface.
User must make allowances for job conditions such as soft or uneven ground.
5. Lifting capacities shown should not be exceeded. Weight of all lifting accessories must be deducted from the above lifting capacities.
6. Capacities apply only to the machine as originally manufactured and equipped by KATO WORKS CO., LTD.
7. The operator should be fully acquainted with the Operation Manual before operating the machine.

Standard Equipment

- COLOR MONITOR DISPLAY (APC150)
- SEAT-BELT
- AUTOMATIC AIR CONDITIONER (PRESSURIZED)
- INTERMITTED WINDSHIELD WIPER
- EMERGENCY ESCAPE HAMMER
- AM/FM RADIO (2 SPEAKERS)
- DUAL CORN SPEAKER X2
- CABIN LIGHT
- 3 STD WORKING LIGHTS (FRONT RIGHT SIDE, BOOM-L, CAB-L)
- TAIL VIEW MIRROR
- WORKING MODE SELECTOR (APC150)
- AUTO-SLOW, ONE TOUCH SLOW
- AUTOMATIC PARKING BRAKE (SLEWING TABLE)
- AUTOMATIC PARKING BRAKE (TRAVELING)
- SERVICE PORT (1 SPOOL)
- ENTRY SYSTEM

Optional Equipment

- OPTIONAL WORKING LIGHT (BOOM-R)
- OPTIONAL WORKING LIGHT (CAB-L)
- UNDER COVER SLEWING TABLE (THICKER)
- OPTION PIPING
- BOOSTING CIRCUIT FOR CRUSHER
- MULTI-LEVER
- WINDSHIELD HALF SIZE GUARD
- WINDSHIELD FULL SIZE GUARD
- CABIN GUARD
- REAR VIEW MIRROR-R
- REAR VIEW MIRROR-L
- ELECTRIC HORN
- FLUSHER SLEWING
- BUZZER TRAVELING
- ELECTRIC REFUELING PUMP
- FIRE EXTINGUISHER
- AIR CLEANER DOUBLE ELEMENT
- HIGH PERFORMANCE FUEL FILTER
- HOSE RUPTURE VALVE (FOR BOOM CYLINDERS)
- HOSE RUPTURE VALVE (FOR ARM CYLINDER)
- TRACK GUARD (1 PCS EACH SIDE)
- TRACK GUARD (2 PCS EACH SIDE)
- OPTIONAL WEIGHT (+500kg)