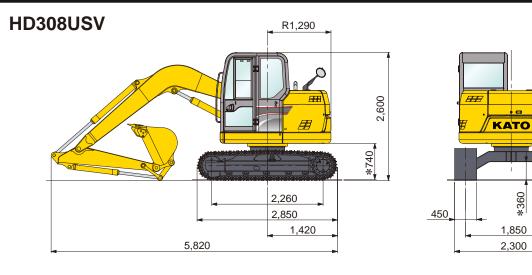
## Innovations For The Future

## **Eco & Tough**

### **Dimensions**

Address inquiries to :



\*Less grouser bar

:360

450

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





## **KATO WORKS CO., LTD.**

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## KATO





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

User friendly design
 Environmentally cautious design
 Lower fuel consumption
 Easy Maintenance

REGZAM

HD 308USV

Robotic shape design



1717



## **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



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**

ENGI	NE
Model······	ISUZU 4LE2X
4 cy	cle intercooler turbo
ch	narged diesel engine
Number of cylinders…	
Bore & Stroke	
Total displacement ·····	······ 2.179 L
Rated output······	40.0kW/2,000min-1
	(ISO Net)
Max. torque ······	·209N • m/1,500min <sup>-1</sup>
	(ISO Net)
Compression ratio	
Combustion system·····	····· Direct injection
Specific fuel consumpt	ion
	··· 234±7g/kW-hour
Cooling system	Pressurized water
	circulated by a
	centrifugal pump
	with thermostat
Lubrication system ·····	
	by a gear pump
	through full-flow
	and by-pass
	cartridge filter
Starter	
Generator	
Governor	
Air cleaner ······	Dry type filter
	CVCTEM
HYDRAULIC	STATEIN

PumpsDouble variable piston pump
and gear pump
Max. discharge flow 2x74.0L/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

## ARM

Boom cylinders	
Bore & Stroke ·······	·· 1
Arm cylinder	
Bore & Stroke ·······	••
Bucket cylinder	On
Bore & Stroke ·······	••
Lubrication ······ Grease	; nip
central	zed
remote	poi
Bucket digging force…	6′
Arm digging force	42



## AND BUCKET

ne, double acting 05mm×960mm ne, double acting 95mm×920mm ne, double acting 85mm×745mm ipples, with ed greasing for oints 61.4kN (6,300kgf) 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 <sup>-1</sup>
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 automati- cally 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
Max. drawbar pull····· 66.9kN
Ground clearance 360mm

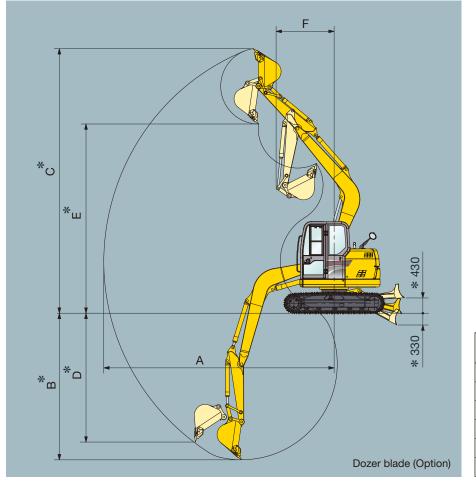
(less grouser bar) Track length ..... 2,850mm

## 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 <sup>3</sup> (ISO),
bucket.
Operating weight 7,300kg
Ground pressure 32kPa



## **Working Ranges**



		Unit : mm
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
-	*   ess	arouser bar

	*	Less	grouser	bar.
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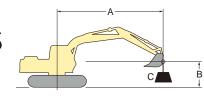
Ту	pe of bucket		Backhoe bucket						
Bucket capacity	m³, ISO	0.12	0.16	0.22	0.28	0.34			
Bucket width	W/O side cutters, mm	370	440	555	650	770	1,400 ×		
BUCKEL WILLIT	with side cutters, mm	480	555	670	770	890	800		
Bucket weight	kg	170	190	210	230	250	305		
Number of bucket	teeth	3	3	3	4	4	-		
Shape of bucket					, And				
Standard boom +	Standard arm	•	•	•	•	<b></b>	•		
	Long arm	•	•	•	<b>A</b>	×			
	Extension arm			×	X	×			

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

Track Shoes											
Type of shoes		Pat crawler Grouser shoe			Flat shoe	Triangle shoe					
		R									
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 0...3 (00

HD308USV BOOM: 3.83m, ARM: 1.62m, BUCKET: 0.28m <sup>3</sup> (230kg), SHOE WIDTH: 450mm, COUNTERWEIGHT: 1,060kg Unit: 1,000kg												
LOAD		RATING AT										
POINT	2.	00	3.0	00	4.	00	5.	00	MAXIMUM REACH			
HEIGHT B (m)	Ľ		Ů		Ů		Ů		Ū		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: 0.22m<sup>3</sup> (210kg), SHOE WIDTH: 450mm, COUNTERWEIGHT: 1,060kg

LOAD	OUTREACH A (m)										RATING AT		
POINT	2.	00	3.	00	4.	00	5.	00	6.	00	MAXI	MUM RE	EACH
HEIGHT B (m)	ŋ		ŋ		ŋ		Ů		ŋ		Ů		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.
- Capacities marked with an asterisk(\*) are limited by hydraulic capacities.
  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

A : REACH FROM SWING CENTERLINE **B** : BUCKET HOOK HEIGHT C : LIFTING CAPACITIES

Ů

: OVER FRONT

🗀 : OVER SIDE OR 360°

Unit: 1,000kg

### **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)