

STANDARD AND OPTIONAL EQUIPMENTS

● Safety equipments		STD	Dozer	● Cab		STD	Dozer	● Working equipments		STD	Dozer
ISO 12117-2 (OPG top guard ISO 10262 LEVEL 1)		⊙	⊙	4 points viscous cab suspension		⊙	⊙	Bucket	0.12m³ bucket	●	●
Safety lock lever		⊙	⊙	Pull up front window		⊙	⊙		0.16m³ bucket	●	●
Seat-belt		⊙	⊙	LCD color monitor		⊙	⊙		0.22m³ bucket	●	●
Emergency engine stop switch		⊙	⊙	Sliding and reclining type seat		⊙	⊙		0.28m³ bucket	●	●
Emergency escape hammer		⊙	⊙	Seat suspension adjustable to operator's weight		●	●		0.34m³ bucket	●	●
Rear view mirror (right&left side)		⊙	⊙	Automatic air conditioner (pressurized)		⊙	⊙	Arm	Plate to close spaces between teeth of bucket	●	●
Rear view camera		⊙	⊙	2 hole front window washer		⊙	⊙		Arm (1.62m)	⊙	⊙
Side view camera		●	●	Window wiper with intermittent time adjustment function		⊙	⊙		Arm (2.07m)	●	●
Working light (slewing table right side, boom left side)		⊙	⊙	Defroster		⊙	⊙		Various type of reinforced arm	●	●
Optional working light (cab left and right side)		●	●	Intermittent windshield wiper		⊙	⊙				
Optional working light (boom right side)		●	●	AM/FM radio		⊙	⊙	● Standard equipments ● Option			
LED working lights		●	●	Two stereo speakers		⊙	⊙	● Traveling equipments		STD	Dozer
Boom/arm anti-drift valve		⊙	⊙	Interior light		⊙	⊙	Grouser shoe	450mm	⊙	⊙
Slewing anti-counter action		⊙	⊙	Magazine rack		⊙	⊙		600mm	●	●
Automatic parking brake (slewing table)		⊙	⊙	Cup holder		⊙	⊙	Dozer blade	450mm shoe	●	●
Automatic parking brake (traveling)		⊙	⊙	Floor mat		⊙	⊙		600mm shoe	●	●
Fire wall		⊙	⊙	Travelling pedal and footrest		⊙	⊙	Center frame undercover		⊙	⊙
Battery disconnect switch		⊙	⊙	Armrest		●	●	Track guard	1 piece side	●	●
Caution indication		⊙	⊙	Ash tray and cigarette lighter		⊙	⊙		2 pieces each side	●	●
Cab lower guard		●	●	Skylight clear		●	●				
Cab front guard		●	●	Open-close type window		⊙	⊙				
Cab head guard		●	●	Seat cover		⊙	⊙				
Fire extinguisher		●	●	● Piping and other		STD	Dozer				
Additional electric horn		●	●	Service port (1 spool)		⊙	⊙				
Traveling alarm		●	●	High performance filter		●	●				
Swing warning lamp		●	●	Additional piping for breaker & crusher (with manual selector valve)		●	●				
Reverse alarm		●	●	Additional piping for breaker & crusher (with electric control selector valve)		●	●				
● System		STD	Dozer	Additional piping (for crusher)		●	●				
APC mode (A, P and E)		⊙	⊙	Additional piping (for rotator)		●	●				
Auto-slow, one touch slow		⊙	⊙	Lowering control device (boom)		●	●				
Automatic transmission for traveling		⊙	⊙	Lowering control device (arm)		●	●				
2 speed modes for traveling		⊙	⊙	Air cleaner double element		⊙	⊙				
				Increased counter weight (+500kg)		●	●				
				Under cover slewing table (thicker)		●	●				
				Electric refueling pump		●	●				
				Specification for cold region		●	●				
				Designated paint		●	●				
				Tool set		⊙	⊙				



HD 308 US-7
REGZAM | HYDRAULIC EXCAVATOR

Ultra Slewing

BUCKET

Type 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
	with side cutters, mm	480	555	670	770	890
Number of bucket teeth		3	3	3	4	4
Shape of bucket						
Standard boom +	Standard arm (1.62m)	●	●	●	●	▲
	Long arm (2.07m)	●	●	●	▲	×

● : General purpose (used with material weight 1,800kg/m³ or less)
▲ : Light work (used with material weight 1,600kg/m³ or less)
× : Unusable
○ : Green colored area means standard.

TRACK SHOES

Type of shoes		Grouser shoe	
Type of shoes			
Shoe width	mm	450	600
Operating weight	kg	7,470	7,610
Distance between shoe edge of both side	mm	2,300	2,450
Ground pressure	kPa	33	25
	kgf/cm²	0.34	0.26

○ Green colored area means standard.

<http://www.kato-works.co.jp>

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

● Contact for enquiry:

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QUALITY & EXPERIENCE
SINCE 1895



US
7

Further advancements on Eco-friendliness and Operability

Cycle time Improved by **13%**
(compared with HD308US-6A at P mode)



High Performance Environment-friendly Engine



Emission Aftertreatment System

DPF greatly reduce the PM (particulate matter) resulting in low emission.

EGR (Exhaust gas Recirculation)

The large capacity water-cooled EGR cooler suppresses the NOx.

Hydraulic piping improvement

In addition to increasing the diameter of the front piping hose to the boom cylinder and arm cylinder, max optimization of each part of the hydraulic piping, pressure loss reduction and minimization of energy loss.



Digging Force

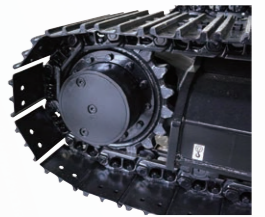
Max. arm digging force **42.2kN**
 Max. bucket digging Force **61.4kN**

Working Range

Max. digging radius **6,470mm**
 Max. digging depth **4,120mm**
 Max. digging height **7,430mm**

Travelling body

Has adopted a new travelling motor that has a high torque.



Transportation convenience

The newly configured hook holes (front & rear) for transportation are ISO complaint. This has significantly made excavator transportation convenient.



Enhancement on Operability of Hydraulic system

Adoption of a new control valve

New control valve with optimized internal structure. It contributes to better fuel efficiency due to the pressure loss reduction. Smart assembly implemented with the removal of the add-on valve and option spool is mounted as a standard feature. In addition, KATO has a traditionally fine cut and smoothly refined compatible feeling made by detailed tuning.



New Main Pump

Contributes to workability improvement due to 14% increase on the rated flow rate. It also accommodates for the attachments requiring a large flow.



Swing motor with enhanced specifications

The shock that occurs on the onset of swing acceleration or deceleration is greatly reduced by the relief valve.



Lever operational ability lightened

Light operational feeling is actualized due to reduced lever response. Operational fatigue has also been lessened.

With the ultra-slewing you have safe work on a road with 3m on one side


180° Swing width **2,920mm**
 Front minimum swing radius **1,630mm**
 Tail slewing radius **1,290mm**



Even more superior Maintainability & Serviceability

Grease gun relocation

Has been relocated to the rear cover to avoid hanging and away from the control valve, a heat source.




Radiator net replacement

It is separable type therefore being easier for removal.




Centralized filter arrangement

A cartridge type main fuel filter has been adopted and the filters are remotely arranged in the right rear of this excavator. This has significantly made replacement work and access easier.



Fuel Size Increment

This has the largely reduced the refueling frequency.



Cleaner element replacement

Double element has been made a standard feature.



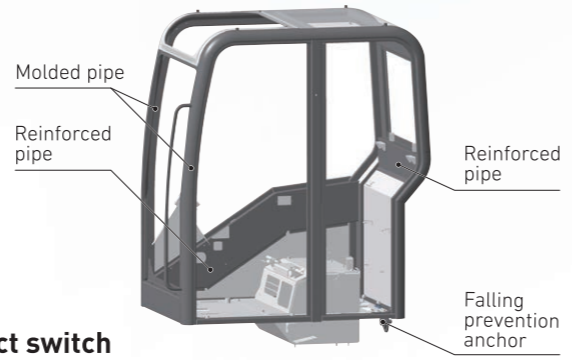
Remote structuring of arm-tip greasing

Workability improvement by greasing on side of the arm.





ROPS Cab with Improved Safety

Adopts a ROPS (ISO 12117-2) cab for protecting the operator in an event of a rollover. Even in the unlikely event of a rollover, cab deformity is minimized and operator protection space is secured. In addition, the cab is compliant with ISO OPG (Top guard level I) standards therefore protecting the operator from falling objects.




Rear-side view camera & the exclusive LCD monitor is available (optional)



Battery disconnect switch

In non-operation state, it safely shuts off standby power and this makes maintenance of electronic devices safer.



Best Comfort and Efficiency



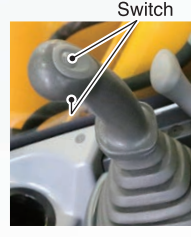
One-touch open-close see-through hatch

Setting a clear bronzy color and visibility emphasis for solar radiation reduction (optional).



New operation lever

Operation switches are arranged on the bottom and top of the lever knob. The lever knob is easy to control.



New foot rest arrangement


Improvement in operability and all new design.



- Other cab features**
- High performance fully automatic air conditioner
 - Defroster
 - Link-type one-touch open-close front window
 - Height adjustment function seat suspension (optional)
 - Dual speakers, AM/PM stereo system radio
 - Ashtray
 - Cigarette lighter (24V power socket)
 - Drink holder
 - Various cab guards (optional)
 - Demolition cab with cab guard roof wiper (optional)

Below seat stowage

(Not available if the seat suspension is configured)



Large opening top and bottom sliding window

Communication with those outside the cab made easier even when the door is closed.



Built-in APC 300 system

More information display

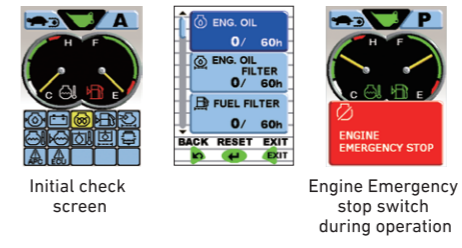
- Hour meter function
- User friendly settings for maintenance time for filters and oil

Equipped with Back-Up function

- Automatic back-up transition control even trouble is encountered with the APC

Improved Workload

- 3 Interchangeable modes that vary in accordance to the work at hand
- Substantial Improvement made on workload in comparison to the conventional model



- P: Pro-Mode**
- It is an optimized mode for productivity, it is appropriate for experienced operators and can adequately display the operator's skill and ability.
- A: All-round Mode**
- Covers a whole range of operations from precise to powerful works. With a good balance between operability and fuel economy, this mode is ideal for general operations.
- E: Eco-Mode**
- An energy-saving mode optimized for fuel economy.

Technical Specifications

ENGINE

Model YANMAR YDN-4TNV98C
Diesel engine
Number of cylinders 4
Bore & Stroke 98.0mm x 110.0mm
Total displacement 3,318L
Rated output 42.4kW/2,000min⁻¹
(ISO 14396)
40.8kW/2,000min⁻¹
(ISO 9249 Net)
Max. torque 235N·m/1,300min⁻¹
(ISO 14396)
232N·m/1,300min⁻¹
(ISO 9249 Net)
Compression ratio 18.3:1
Combustion system Direct injection
Cooling system Pressurized water circulated by a Impeller type 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-45A
Air cleaner Double element Dry type filter

HYDRAULIC SYSTEM

Pumps Double variable piston pump and gear pump
Max. discharge flow 2 x 84.6 L/min
Max. discharge pressure 29.4 MPa
Oil filtration Full-flow filter with replaceable element, a pilot line filter and suction strainer
Control valves 5+5 section multiple control valves (Including 2 spare aux hydraulic circuits + one for the dozer)
Pilot pump Gear type
Oil cooler Finned tube, forced ventilation
Pressure relief valves Primary and secondary on each circuit

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 13.0min⁻¹

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 0~5.0 km/h
Low 0~3.2 km/h
Gradeability 70% (35°)
Max. drawbar pull 80.4 kN

DIGGING FORCE (ISO 6015)

Arm digging force 42.2kN
Bucket digging force 61.4kN

SERVICE DATA

Fuel tank 130 L
Cooling system 15.0 L
Engine oil 11.6 L
Track drives 2 x 1.3 L
Hydraulic oil tank
Level 51 L
System 98 L
In standard figure, with the 1.62m arm, 450mm grouser shoes and 0.28m³ (ISO) bucket.
Operating weight 7,470 kg
Ground pressure 33kPa

CAB&CONTROLS

Type All weather sound suppressed, cab mounted on 4 point viscous mounting.
Right hand levers Controls the boom & bucket
Front right hand lever (with foot pedal) Controls the right hand track
Front 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 and cab left side
Lubrication chart Inside of the left rear side cover

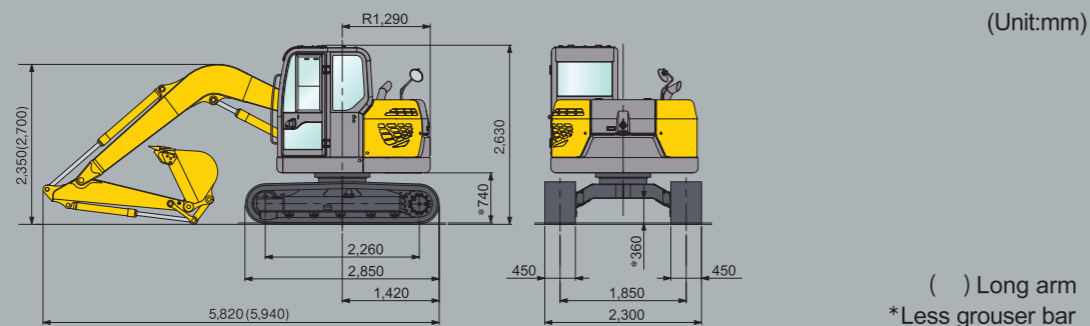
Quick Selection of Working Modes
P: Professional mode for experienced operator. Established both power and good response
A: All-round Multi Purpose Mode for all application from precision work to heavy duty work by stroke of operation levers
E: ECO Mode for economical works
Color monitor display with back up light

AIR CONDITIONER

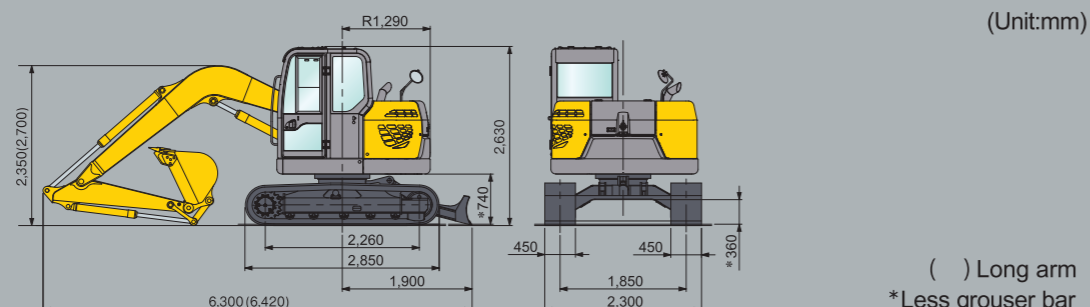
Air conditioner gas contains fluorinated greenhouse gases.
Industrial designation HFC-134a
Quantity 1.05kg
CO₂ equivalent 1.51ton
Global warming potential (GWP) 1430

Dimensions

HD308US-7



HD308US-7 Dozer

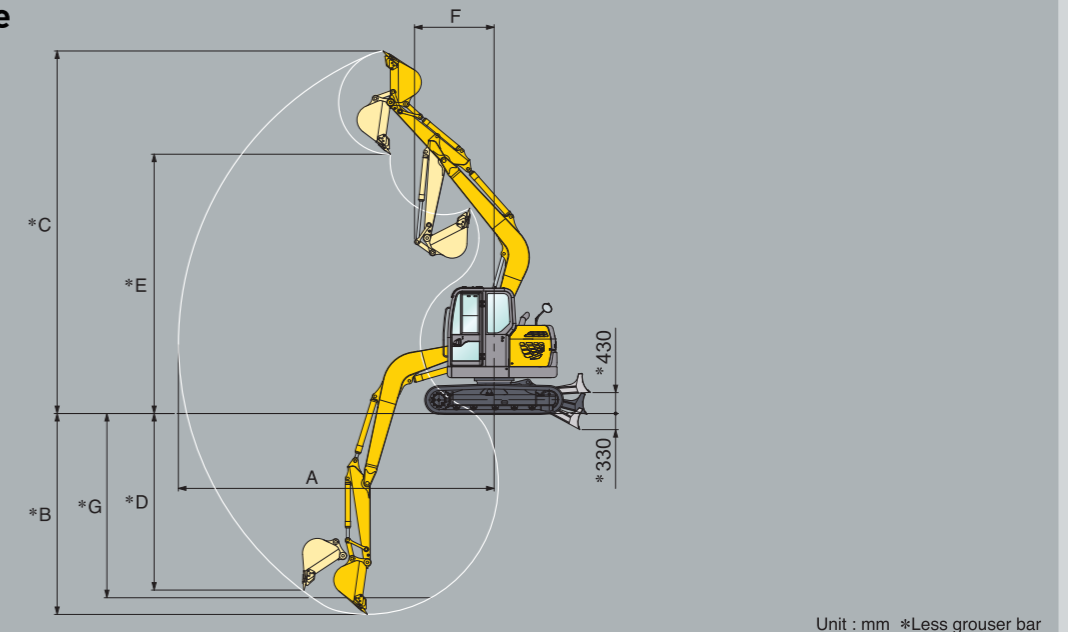


Working Ranges



HD308US-7
Specs

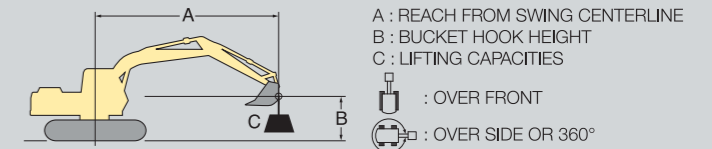
Standard backhoe



Unit : mm *Less grouser bar

Range	Arm	Standard boom	
		Standard arm 1.62 m	Long arm 2.07m
A : Maximum digging radius		6,470	6,910
* B : Maximum digging depth		4,120	4,570
* C : Maximum digging height		7,430	7,800
* D : Maximum vertical wall		3,620	4,140
* E : Maximum dumping height		5,320	5,680
F : Minimum swing radius		1,630	2,010
* G : Maximum digging depth at 2,440mm (8ft) floor length		3,780	4,290

Lifting Capacities



Standard arm BOOM: 3.83m ARM: 1.62m BUCKET: 0.28m³ 230kg SHOE WIDTH: 450mm COUNTERWEIGHT: 1060kg UNIT: kg

LIFT POINT HEIGHT B	LIFT POINT RADIUS A						AT MAXIMUM LIFT POINT RADIUS		
	1.5m		3.0m		4.5m		RADIUS (m)		
	()	()	()	()	()	()			
4.5m			*1410	*1410			*1440	1380	4.46
3.0m	*3850	*3850	*2010	*2010	*1590	1300	1140	920	5.41
1.5m			2890	2280	1490	1200	1020	820	5.62
0.0m	*2040	*2040	2700	2110	1410	1130	1050	840	5.42
-1.5m	*3090	*3090	2690	2100	1400	1120	1290	1030	4.74
-3.0m	*3130	*3130	*2240	2210			*1960	1880	3.32

Long arm BOOM: 3.83m ARM: 2.07m BUCKET: 0.22m³ 210kg SHOE WIDTH: 450mm COUNTERWEIGHT: 1060kg UNIT: kg

LIFT POINT HEIGHT B	LIFT POINT RADIUS A						AT MAXIMUM LIFT POINT RADIUS				
	1.5m		3.0m		4.5m		6.0m		RADIUS (m)		
	()	()	()	()	()	()	()				
4.5m					*1230	*1230			*1270	1150	4.97
3.0m			*1690	*1690	*1420	1330			990	800	5.89
1.5m			*2630	2350	1510	1220	920	730	890	710	6.08
0.0m	*1880	*1880	2720	2130	1410	1130			910	730	5.9
-1.5m	*3040	*3040	2660	2070	1370	1090			1080	860	5.29
-3.0m	*3100	*3100	*2640	2140					1670	1330	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.