

# HD308US-R5

## Progress to the Next Stage

# KATO

## FULLY HYDRAULIC EXCAVATOR

# REGZM

## HYDRAULIC EXCAVATOR

# HD308US-R5

Bucket capacity : 0.3m<sup>3</sup> (ISO)

Engine output : 42.6kW / 2,100min<sup>-1</sup> (ISO Net)

Operating weight : 8,300kg

### EQUIPMENT

- New APC
- Auto-slow, one touch slow
- Information Display
- 2 speed modes for traveling
- Two speed switch
- Pull up front window
- 4point silicon cab mount
- Double slide operation seat
- Intermitted windshield wiper
- Emergency exit rear window
- Cabin light
- 2 working lights  
(Front right, left side of boom)
- Boom/Arm Anti-drift valve
- High power of digging force
- Slewing anti-counter action
- Automatic parking brake (slewing)
- Automatic parking brake (traveling)
- Service port (1 spool)
- Rear view mirror (right side)
- AM/FM radio
- 13 cm dual corn speaker x2
- Air cleaner double element, pre-cleaner
- Tool set
- Arm protection plate
- Seat-belt
- Fire extinguisher
- Openable roof window



● Contact for enquiry:

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

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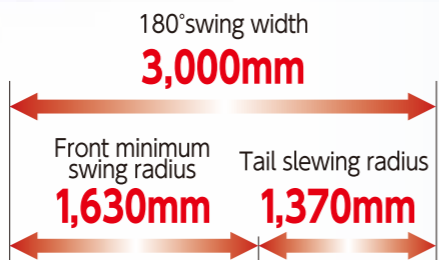


# A high-grade excavator looking at the future

## REGZM

### HD308US-R5

Ultra-slewing



- The ultra-slewing enables it to move quickly with ease in urban areas
- Mounted with a reliable Yanmar 4TNV98-Z engine (equivalent to stage3)
- The new APC system with excellent operability  
By switching between the three modes, one can choose the most appropriate mode of operation in accordance to different working conditions
- Reliability improved due to enhanced fuel filtration system
- Stability further improved due to installing additional counterweight as a standard feature
- ROPS Cab with improved safety  
Secures operator safety with molded pipes and reinforced plates  
ISO compliant ROPS cab
- Maintainability improved because of the widely opening cover
- Engine oil filter and fuel filter arrangement is such that maintenance is made easier from the ground
- Battery disconnect switch has been made a standard feature

ISO compliant ROPS cab



#### Digging Force

Max. arm digging force ..... **42.2kN** (4.3tf)  
Max. bucket digging force..... **61.4kN** (6.3tf)

# Better maintainability and safety Established a long-term stability of machine

- ▲ New air-pre filter
- ▲ Cooling system
- ▲ Battery disconnect switch is now a standard feature
- ▲ Under-arm reinforcement made a standard feature
- ▲ Additional counter weight a standard feature
- ▲ Double element air cleaner
- ▲ Maintenance work for engine oil filter possible from above the ground
- ▲ Triple fuel filters, pilot filter
- ▲ Boom light guard
- ▲ Dozer blade is a standard feature

# Ergonomic Cabin

## New APC model

### P: Pro-Mode

Pro mode that balances both power and good response.

### A: All-round mode

Is ideal for general operation and covers both precision and work that requires power.

### E: ECO mode

A mode primarily for economical works.

- Established easy to understand information display and simple operability
- Engine RPM and operation mode display is interchangeable with one touch



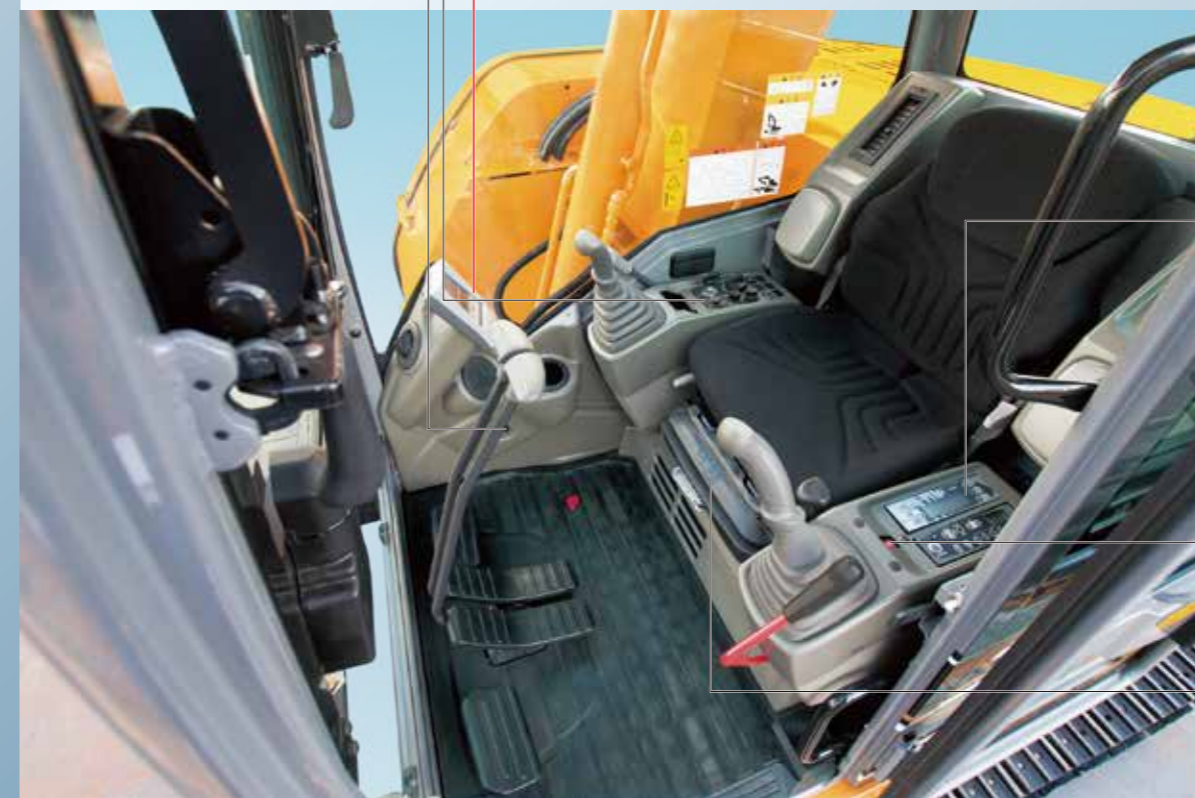
▲ Work mode display

▲ Engine RPM display

Two speed switch ▶

▲ Switch panel

▲ Improved hour meter position. Easy to be confirmed even from outside the cabin.



▼ Radio with MP3 player and USB port



▲ Air-conditioner control panel



▲ Engine emergency stop switch



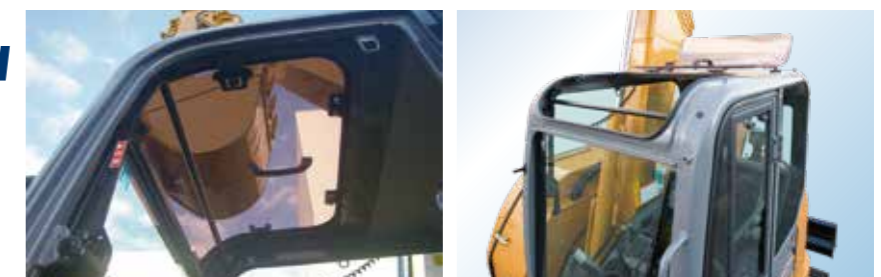
▲ Seat suspension

# Common rail electronically-controlled fuel system improves fuel efficiency More energy efficient and environmentally friendly

Reliable Yanmar 4TNV98-Z engine (equivalent to stage3)

- Max. output power : 42.6kW / 2,100min<sup>-1</sup> (ISO Net)
- Max. torque : 236N·m / 1,575min<sup>-1</sup> (ISO Net)

# Open-close rooftop window Secures upper visibility



▲ Open rooftop feature

# Technical Specifications

## ENGINE

Model..... Four stroke cycle  
Yanmar 4TNV98-ZCVK-BHC engine

Number of cylinders..... 4

Bore & Stroke..... 98mm×110mm

Total displacement..... 3.32 L

Rated output.....42.6kW/2,100min<sup>-1</sup> (ISO Net)

Max. torque..... 236N·m/1,575min<sup>-1</sup> (ISO Net)

Compression ratio..... 18.5:1

Combustion system..... Direct injection

Unit fuel consumption..... 246.8g/kW·h

Cooling system..... Pressure sealed radiator-cooling system

Lubrication system..... Lubrication by trochoid pump

Starter..... Electric, 24V-3.5kW

Generator..... Alternator, 24V-45A

Governor..... Electronic variable speed control

Air cleaner..... Dry type double filter

## CAB & CONTROLS

Type..... Adopts a medium sized cab with 4 viscous mounts

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..... Operation mode, Engine RPM, Warning (Fuel, Engine oil, Hydraulic oil temp, Hydraulic oil filter, Battery, Air cleaner, Engine coolant)

Working lights..... Left side of boom and front right side

## APC

- 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
- Engine oil pressure
- Hydraulic oil filter
- Engine preheater
- Hydraulic oil temperature
- Water temperature
- Water level
- Fuel level
- Battery charge
- Air cleaner

## HYDRAULIC SYSTEM

Pumps..... Double variable piston pump and gear pump

Max. discharge flow..... 2×74L/min

Max. discharge pressure..... 29.4MPa

Max. discharge pressure (High power)..... 31.4MPa

Oil filtration..... Full-flow filter with replaceable element, a pilot line filter and suction strainer

Control valves..... 5+5 section multiple control valves (with one free service circuit)

Pilot pump..... Gear type

Oil cooler..... Finned tube, forced ventilation

Pressure relief valves..... Overload relief valve

## 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

Dozer cylinder..... One

Bore and stroke..... 125mm×140mm

Lubrication..... Grease nipples, with centralized greasing for remote points

Bucket digging orce..... 61.4kN

Arm digging force..... 42.2kN

## SWING SYSTEM

Drive..... Axial piston motor with shockless valve and reduction gear.

Brake..... 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..... 1,370mm

Min. front swing radius

Standard Boom..... 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..... 130 L

Cooling system..... 15.3 L

Engine oil..... 11.6 L

Track drives..... 2×1.3 L

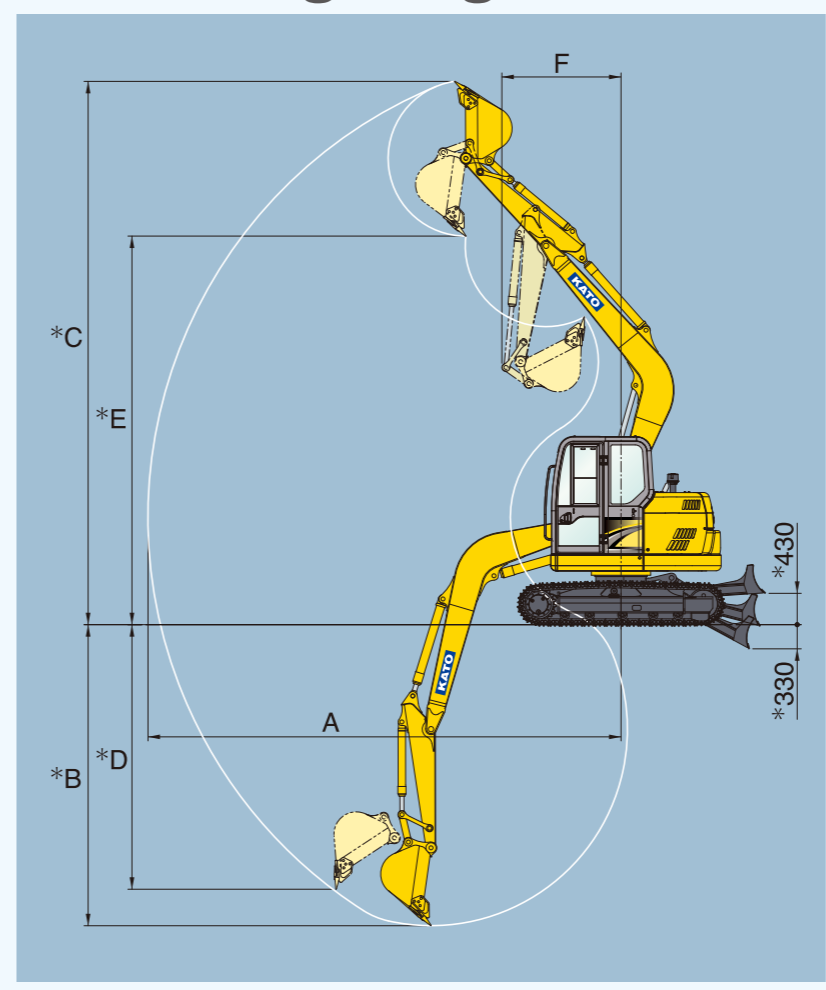
Hydraulic oil tank (level)..... 50.9 L (system).....103 L

In standard figure, with the 1.62m arm, 450mm grouser shoes and 0.30m<sup>3</sup> (ISO), bucket.

Operating weight..... 8,300kg

Ground pressure..... 43kPa

# Working Ranges



Range	Arm	Standard arm 1.62m
A : Maximum digging radius		6,470
*B : Maximum digging depth		4,120
*C : Maximum digging height		7,430
*D : Maximum vertical wall		3,620
*E : Maximum dumping height		5,320
F : Min. swing radius		1,630

Unit: mm  
\* Less grouser bar

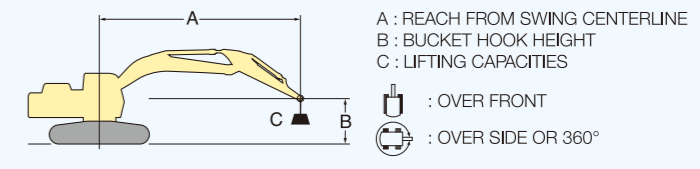
## Bucket

Type of bucket	Backhoe bucket	
Bucket capacity	m <sup>3</sup> , ISO 0.30	
Bucket width	W/O side cutters	mm 702
	with side cutters	mm 816
Number of bucket teeth	4	
Shape of bucket		

## Track Shoes

Type of shoes	Grouser shoe
Shoe width	mm 450
Distance between shoe edge of both side	mm 2,300
Ground pressure	kPa 43
	kgf/cm <sup>2</sup> 0.44

Ground pressure when equip standard bucket and arm.



# Lifting Capacity

HD308US-R5 BOOM : 3.83m, ARM : 1.62m, BUCKET : 0.3m<sup>3</sup> (240kg), SHOE WIDTH : 450mm, COUNTERWEIGHT : 1,560kg UNIT: kg

LIFT POINT HEIGHT B(m)	LIFT POINT RADIUS A(m)						AT MAXIMUM LIFT POINT RADIUS		
	1.5		3.0		4.5		RADIUS		RADIUS (m)
4.5			1,800	1,800			1,710	1,710	4.47
3.0			2,430	2,430	1,890	1,700	1,560	1,360	5.19
1.5			3,270	2,900	1,870	1,620	1,430	1,250	5.41
0.0			3,330	2,790	1,810	1,570	1,480	1,290	5.20
-1.5	4,880	4,880	3,240	2,800			1,830	1,580	4.49

- NOTE:
- Lifting capacities are based on ISO 10567.
  - 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.
  - Lifting capacities shown should not be exceeded. Weight of all lifting accessories must be deducted from the above lifting capacities.
  - Capacities apply only to the machine as originally manufactured and equipped by KATO WORKS (CHINA) LTD.
  - The operator should be fully acquainted with the Operation Manual before operating the machine.

