Technical Specification

Model: HD85V5 Machine weight: 8,100kg Operating weight: 8,175kg Bucket capacity: 0.11m³ ~ 0.28m³ [Standard 0.25m³]

■ENGINE

Model YANMAR 4TNV98C Rated output ····· 42.7kW/2,100min-1 Max. torque 235N • m/1,365min-1

DIMENSIONS

Overall length 2,630mm Overall height Overall width 2,200mm Max. ground clearance 350mm Tail slewing radius 1,400mm 2,730mm Shoe width ---- 450mm

■TRAVEL&SWING SYSTEM

Travel speed ······· 2.5/4.4km/h Max. swing speed ····· 9.0min-1 Grade ability 58% (30°) Ground pressure 38kPa(0.39kgf/cm²)

■DIGGING FORCE

Bucket digging force ····· 55.0kN Arm digging force 39.0kN

■CAPACITY

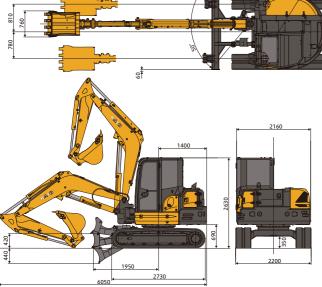
Hydraulic tank ······ 75L (reference capacity) Fuel tank 110L

■HYDRAULIC SYSTEM

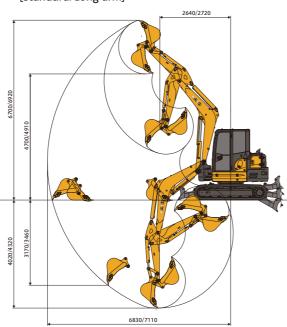
Pumps ······ Double variable piston pump and gear pump Constant displacement piston type with swing brake Variable displacement plunger motor Travel motor

Control valves 11 section multiple control valves Max. pressure/ ····· 24.5MPa (250kgk/cm²)

DIMENSION (mm)



■WORKING RANGE (mm) [Standard/Long arm]



■STANDARD AND OPTIONAL EQUIPMENT

Safety equipment		Piping and others		Operation seat
Cabin(ROPS)	0	Anti-burst valve		12V electric supply port
OPG	•	1st aux. piping for attachment	0	Cup holder
All-lever lock structure	0	(W/A selectable) %3	_	Arm rest
(Neutral engine-start system)	0	2nd aux. piping for attachment **4		Electric control throttle knob
Retractable seat-belt	0	3rd aux. piping for attachment		Multiple one-key
Boom working light %1	0	Aux. piping proportional control		Analogue monitor
LED boom working light **1	•	Stop valve		Seat suspension
Front and Rear working light	•	Accumulator		
Rear side mirror	•	Pattern change valve (ABCD)		System
Automatic parking brake		Pattern change valve (AF)		Mode selection
(slewing table)	0	Designated paint		(Vmax mode/ ECO mode)

Relief valve for aux port (17.2MPa)	•	Traveling speed 1 fixed mode
Relief valve for aux port (20.6MPa)	•	Maintenance
Working equipment		Outer fuel filler port
0.11m ³	•	Double element air cleaner Cartridge type return filter

450mm steel shoe Traveling frame undercove

ront guard Traveling alar

Operation room option		-
Heater %2		Н
Air conditioner %2	0	H
AM radio	•	H

Automatic parking brake

Swing table under cove

Caution indication

Engine fan guard Secondary engine stop switch

 Operation room option 				
Heater *2				
Air conditioner %2	0			
AM radio				

• operation room option		
Heater %2		Arm
Air conditioner %2	0	Doz
AM radio		DOZ
AWTadio		Add

Operation room option			0.2011	•
' '			STD Arm	0
Heater **2		Arm	Long Arm (+300mm)	•
Air conditioner %2		Dozer blade	Reinforced type	0
AM radio			counterweight(+340kg)	
•		Auditional C	builter weight (+340kg)	
		Traveling	g equipment	
		I AE	Omm rubbar abaa	0

,	Accumulator	_	
)	Pattern change valve (ABCD)		
)	Pattern change valve (AF)		
))	Designated paint		
)	Relief valve for aux port		
ŋ	(13.7MPa)		
)	Relief valve for aux port		
	(17.2MPa)	_	

working equipment			Double element air cleaner
	0.11m³		Cartridge type return filter
			Hydraulic oil tank with air breather
Bucket			system
			Side by side cooling
	0.28m ³		Large fuel filter
STD Arm		0	Water separator with electric sensor
krm	Long Arm (+300mm)		Dustproof net in front of radiator
lozer blade Reinforced type		0	Castle nut for adjustment (boom tip)
additional counterweight(+340kg)			Castle nut for adjustment (arm link)
			Engine error code display
Traveling equipment			Engine diagnosis CAN service

SPECIFICATION AND COMBINATION OF BUCKET

Туре		Bucket					
acity (JIS M3) (m)	0.11	0.16	0.21	0.25	0.28		
without side cutter	365	465	565	675	675		
with side cutter	450	550	650	760	760		
Number of bucket teeth		3	4	4	4		
Standard arm		•	•	•			
Long arm		•	•	×	×		
	without side cutter with side cutter ucket teeth	acity (JIS M3) (m) 0.11 without side cutter 365 with side cutter 450 uucket teeth 3	acity (JIS M3) (m) 0.11 0.16 without side cutter 365 465 with side cutter 450 550 sucket teeth 3 3	acity (JIS M3) (m) 0.11 0.16 0.21 without side cutter 365 465 565 with side cutter 450 550 650 sucket teeth 3 3 4	acity (JIS M3) (mi) 0.11 0.16 0.21 0.25 without side cutter 365 465 565 675 with side cutter 450 550 650 760 bucket teeth 3 3 4 4 m • • •		

●:General purpose □:Light work ×:Unusable

Туре	Rubber	Steel		
Shoe width (mm)	450			
Overall width (mm)	2,200			
Ground pressure (kPa)	38			

- *1 Cannot be installed at the same time
- ※2 Cannot be installed at the same time
- #3 Control is proportional
 #4 2nd or 2nd and 3rd aux piping cannot be selected without the 1st aux piping
- Before using this machine, read the instruction manual precautions thoroughly to operate it correctly

 Specifications are subject to change without notice for improvement
- purposes

 Photographs shown in the catalog were taken for publication and therefore may differ in some cases from actual objects

 When operating the excavator, wear clothing and equipment in accordance to local legal and safety regulations.

Contact for enquiry:



KATO WORKS CO.,LTD.

connector

Auto-idling mode

Auto transmission

9-37, Higashi-ohi 1-chome, Shinagawa-ku, Tokyo, 140-0011, Japan Tel.: Head Office: Tokyo +81 (0) 3 3458-1111

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Great stability and high performance

Powerful Strong Reliable

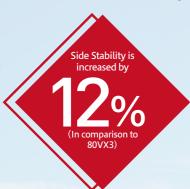
It established both workability and compactness

Workability

Enhancement of Stability

Stability is enhanced in comparison to the previous model by lowering the center of gravity.

The workability has been improved for efficient operation.



Wide Boom Swing Range

The swing angle is 80 degrees to the right and 50 degrees to the left.

Wide range of excavation is possible and can be useful for digging grooves on the shoulders of roads.

The front attachment is lighter than zero tail swing machine. It secures stability and also covers heavy duty.

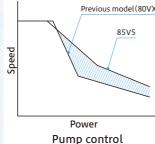


High Power Digging and Quick Response

It adopts a new high-performance main pump that enhances and provides great workability. It is powerful, has great response and good for multiple operation.

- Swing force is enhanced by 14%UP (in comparison to 80VX3)
- Dumping height is increased by 7%UP (in comparison to 80VX3)





Compact Tail Swing

The tail swing radius is only 300mm over from the crawler. It secures stability more than Zero Tail Swing.



Long Digging Radius

The digging radius is long enough to approach wide range and securely perform the dumping.



Fully Versatile Easy Skimming Work

The closer distance between bucket teeth and dozer blade allows it to skim the ground easier.



Safety

ROPS Compliant Cabin

This cabin is ROPS-compliant. It secures the safety and protection of the operator from roll-over accident.

Engine Start System and Safety Lock System

The engine is turned on when that lever is in the neutral position.

Auto-parking brake is activated when the lock lever is raised (Including dozer blade and swing). It offers high operation safety and prevents unexpected movements.



It is possible to stop the engine from outside the cabin during an emergency.





Excellent Visibilty

A wide view is provided in the compact body. The right front view is wide and maximizes the boom swing.

The side and rear mirrors allow you to monitor the surrounding conditions and work safely.

%Mirror is optional



Economy

Environment Friendly Engine

The engine is compliant to EU StageV and EPA Tier4 final. The DPF greatly reduces PM and the water-cooled EGR suppresses the NOx.

Enhanced Economy

Isochronous control system maintains the engine speed even if the workload changes. Fuel consumption is reduced in comparison to the previous model.



Vmax Mode and ECO Mode

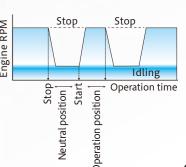
Operation mode is selectable from Vmax mode, which is operation speed oriented.

ECO mode that ensures low fuel consumption.



Auto-idling is Standard Feature

Optimum engine speed is engaged automatically in few seconds after returning the operation lever to neutral position. It saves fuel consumption by approx. 10%.



HD85

Durability



Removable Side Cover

and easy to maintain.

damage is repairable.

The separated side covers are removable

The lower cover that is susceptible

Working Light Under The Boom

The light installed under the boom is protected from damage.

Reinforced Boom Cylinder Cover

The V-shaped double structure reinforced boom cylinder cover protects the cylinder from damages.



Boom Swing Pin

Single large size pin reduces the wearing and rattling sounds.



Reinforced Dozer Blade

Dozer blade arm adopts sturdy square It is strong and durable against twist.



Door Protection

When wide open, the door tip fits into the counterweight, preventing door damage.



Cover Protection

The cover is placed inside of the counter weight and is protected from damage.



※Image shows additional counterweight

Comfortability

Comfortable Operating Station

This spacious operating station reduces operator's fatigue.

12V Electric Supply Port

Engine Error Code Display

(12V 10A)

Monitor with

always lit LED light.

Double Proportional

without using pedals.

2nd spare port is with the left one. **%2nd spare port is optional**

The spare port can be operated with the switch on the grip. It improved operability thanks to hand operation

Operation for 1st spare port is with the right lever grip,

Control

Equipped with an electric supply port.



The seat height and suspension



are adjustable.



It is easily openable thanks to

Window Storage Rack

Front Window with Damper Assistance

damper assistance.

It can store the front window.



Rear Storage Space



Large Capacity Storage



Traveling Auto-shifting Mode

Traveling speed 1 and 2 are automatically changed according to the traveling motor load. Speed 1 can only be set by operating the switch on the dozer lever.

Brand new monitor with improved visibility of display thanks to the Display of engine error code, supports efficient maintenance.

Light lever (1st Aux. port)

Left lever (2nd Aux. port)

Centralized switches



Cup holder —

HD 85

HD85

Damper with automatic lock

Maintenance



Easy Refueling

The fuel filler port is placed at an outer position for easy refueling without cover opening.

DPF Muffler



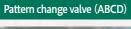
Option

Hydraulic Pump

Air Conditioner Heater









CD) Traveling pedal

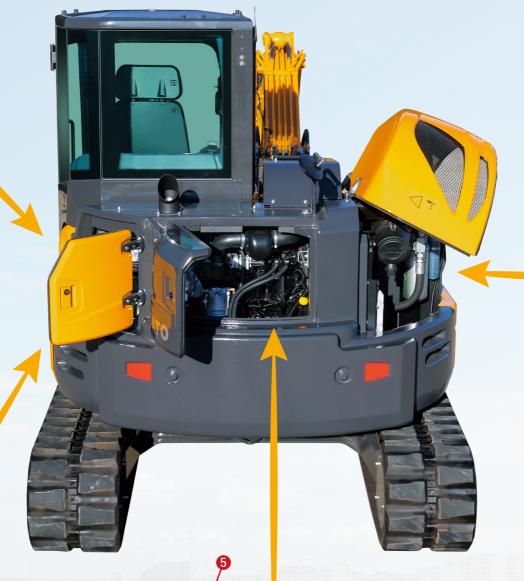


Additional counter weight



Good Access to Service Ports

Fully-opening rear and right-side covers give you a good access to the engine and other service ports.





- 5 Water separator with electric sensor
- 6 Fuel filter

Side by side cooling 3 Control valve

- 2 Air cleaner (Double element)
- 4 Hydraulic oil return filter

Cartridge Type Return Filter

Adopts cartridge type hydraulic oil return filter. It is easily changeable, protects from sand contamination, and offers time reduction for its change.

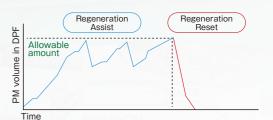
DPF Automatic Regeneration

The computer identifies soot accumulation and burns automatically during the operation. There is no operation limit during the automatic regeneration. The automatic regeneration extends the interval of manual regeneration and enable it to operate for a longer time period.

*The interval of manual regeneration is depends on usage conditions.

Outside Storage





Steel shoe



Light for Cabin



Long arm Proportional control lever



**1st Aux. port : Standard **2nd Aux. port : Option

