STANDARD AND OPTIONAL EQUIPMENTS

Safety equipments	STD	LC
ISO 12117-2 ROPS cabin (with ISO 10262 FOPS top guard LEVEL I)	0	0
Safety lock lever	0	0
Winding/rewinding seat belt	0	0
Emergency engine stop switch	0	0
Emergency escape hammer	0	0
Rear view mirrors (right&left side)	0	0
Rear view Camera	0	0
Right side view camara	•	۲
Working light (slewing table right side,boom left side)	0	0
Additional working lights (cabin left and right side)	•	٠
Additional working light (boom right side)	•	٠
LED working lights	•	٠
Boom/Arm anti-drift valves	O	0
Slewing anti-counter action	O	0
Automatic parking brake (swing)	O	0
Automatic parking brake (traveling)	O	0
Fire walls	O	0
Falling prevention handrail	0	0
Battery disconnect switch	O	0
Caution indication signs	0	0
Cabin lower guard	•	٠
Cabin front guard	•	٠
Cabin head guard	•	•
Step on side of cabin	•	٠
Fire extinguisher		٠
Additional electric horns	•	٠
Traveling alarm	•	٠
Swing interlocking warning lamp	•	٠
Loud speaker	•	•

Cabin	STD	_
6points viscous dampling cabin suspension	0	L
Pull up front windshield	0	L
7 inch touch screen control LCD monitor	0	
Double slide operator's seat	0	
Seat suspension adjustable to operator's weight	0	
Automatic air conditioner (pressurized)	0	Γ
Defroster	0	
Large capacity warming & cooling insulation box	0	Γ
Intermitted windshield wiper	0	Г
AM/FM radio	0	Г
Two stereo speakers	0	Γ
LED interior light	0	Γ
Cup holder	0	Γ
Helmet hook	0	Г
24V electric supply port	0	Г
Transparent roof hatch with sun shade	•	Γ
Sun shade	•	Γ
Sun visor	•	Γ
Rain visor	•	Γ
Ash tray (with cup holder)	•	Г
12V electric supply port	•	Г
USB ports (x2, total 2.5A)	•	Γ
Seat cover	•	Γ
Seat-heater	•	Г
Piping and other	STD	_
Attachment service port (1spool)	0	L
High performance return filter		L

Additional piping for breaker & crusher

Accumulators for breaker

Additional piping (for rotator)

Lowering control device (boom)

Control pattern change valve. (ISO-SAE

Under cover slewing table (reinforced Electric refueling pump

Pre-cleaner (automatic dust eject)

Lowering control device (arm)

Air cleaner double elements

Specification for cold region

Designated painting Tool set

Boost piping for crusher

Working	equipments	STD	LC
	0.55m ³ bucket		٠
	0.80m ³ bucket	•	٠
	1.00m ³ bucket	0	0
Bucket	1.10m ³ bucket	•	•
Ducket	1.30m ³ bucket	•	٠
	1.40m ³ bucket		٠
	1.00m ³ reinforced bucket	•	٠
	1.10m ³ reinforced bucket	•	٠
	Arm (2.96m)	0	0
Arm	Arm (3.56m)	•	٠
	Various type of reinforcements	•	٠
	Standard boom (5.88m)	0	0
Boom	Reinforced boom (5.88m)	•	٠
	Bracket for high reach position	•	٠
Link	Standard side link	0	0
LINK	Reinforced side link		٠

Traveling	Traveling equipments						
	600mm	0	0				
Grouser shoe	700mm		•				
	800mm		•				
Covers on the	0	0					
Reinforced tra	•	•					
Track guard	1 pc each side	0	0				
Hack guaru	3 pcs each side	•	•				
	Standard equipments Option	-No	settin				

TRACK SHOES

600

25,000 [25,800]

2,990 [3,200]

55 [51]

0.56 [0.52]

2.96m standard arm and 1.0m (ISO) bucket. [] HD1025LC-7

mm

kPa

kgf/cm²

Operating weight and Ground pressure figures,

Opurple colored area means standard.

Grouser shoe

700

25,300 [26,100]

3,090 [3,300]

47 [44]

0.48 [0.45]

800

25,600 [26,400]

3,190 [3,400]

42 [39]

0.43 [0.40]

0

Automatic transmission for traveling	
	0
2 speed modes for traveling O	0

System
APC modes (A, P and E)

Front attachment mode

	BUCKET										
	Type of bucket		Hoe bucket								
Bucket capa	acity m³, ISO	0.55	0.80	1.00	1.10	1.30	1.40				
Bucket	W/O side cutters, mm	720	950	1,170	1,220	1,400	1,490				
width	with side cutters, mm	833	1,060	1,280	1,330	1,510	-				
Number of I	bucket teeth	3	4	5	5	5	5				
Shape of bu	ucket						A				
Standard	Standard arm (2.96m)	•	•		▲[●]						
boom +	Long arm (3.56m)	٠				×	×				

General purpose (used with material weight 1,800kg/m² or less)
Light work (used with material weight 1,600kg/m² or less)
Loading only (used with material weight 1,100kg/m² or less) ×: Unusable [] HD1025LC-7
Opurple colored area means standard.

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

YouTube



Type of shoes

Operating weight

Distance between shoe edge of both side

with 5.88m standard boom,

Shoe width

Ground pressure

• •

• •

• •

• •

• •

0 0

• •

• •

• •

• • • • • • © ©



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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KATO WORKS CO., LTD.







High Performance and Durability

Environment-friendly

- Environment-friendly and high mileage
- The engine is EU StageV and US EPA Tier4 Final compliant

Operability

- Improvements made for faster cycle time due to the newly adopted hydraulic system
- Operability is improved due to the reduction in operation force.

Maintainability

- Good access to service parts
- Safe features for maintenance
- High output and compact size engine
- Large maintenance space

Safety

- New ROPS cabin for safer and comfortable operation
- New engine neutral start mechanism

Comfortable cabin

- New air conditioner
- Complete interior
- Operability is improved
- Pressurizing function
- New operator seat

New APC

- Large size liquid crystal display
- Touch screen control
- Rear and side view monitor are available

2



High Productivity and Smart Design

Environment-friendly and high mileage The engine is EU StageV and US EPA Tier4 Final compliant.



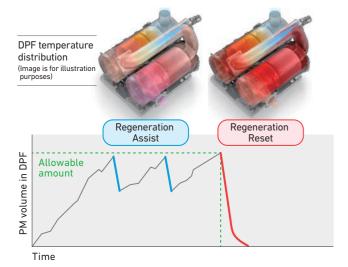
High performance and environment-friendly Yanmar engine The engine after treatment, DOC, DPF and SCR cuts the PM(Particular Matter) and NOx(Nitrogen Oxides). The engine is compliant to EU StageV and US EPA Tier4 Final.

The large capacity DEF (Desel Exhaust Fluid) tank

DEF replenishment is every 1 time per 2 times of fuel replenishment(subject to working condition). DEF tank is located inside of the tool box and easy to access.

DPF regeneration control system

The new 3 step control system makes it possible to have continuous operation without stopping the machine and is very fuel efficient.



2 stage turbo charged system

Output performance that accommodates for both heavy duty work and low fuel consumption.

Its equipped with one large and small turbochargers, which enable for the turbochargers to generate sufficient torque from low speed rotation. It also contributes to low fuel consumption and enhances machine life.



Increase maximum allowable attachment

The fuel

consumption

is decreased

Compared to previous model HD1023II---2830kg-HD1025-7...3270kg

Powerful digging force

The cycle

improved by

time is

Bucket digging force нотога 167км д HD1025-7-----176kN



able.

Refurbished hydraulic system for improved operability

New Control Valve

Pressure loss reduction is contributory to low fuel consumption. The add-on valve is now mountable, hence smartly corresponding to the conventional optional equipment that require additional space for certain necessary valves. In addition, KATO has a traditionally fine cut and smoothly refined compatible feeling made by detailed tuning.

New main pump

Contributory to reduction in fuel consumption is the newly mounted efficient main pump. Moreover, a variety of optional equipment can now be accommodated for due to the PTO pump being mount-

High mileage

Improvement of the hydraulic system includes, adopting a large diameter for piping, reduced pressure loss and minimized energy loss.



The maximum slewing torque has been increased by 15%

The operation speed is increased by high relief pressure of slewing motor and new hydraulic system.

New counter weight and durable slewing body

Enhanced the counter weight which also increased stability. The thickness of the slewing frame has been increased and also durability has been enhanced.



Improved Durability

Reinforced bucket

The new plate configuration prevents wear on welded part. The side plates durability have been enhanced and improved. The diameter of the bucket pin and arm boss width have been increased and is also improved in rigidity.

Arm adjustment mechanism

The new mechanism to adjust the rattling of the arm. Easy to adjust by removing the shim.

Reinforced bucket (option)

Bucket bottom reinforcement plates have been provided in horizontal direction. Worn plates are replaceable.







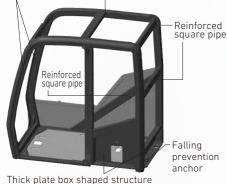
Safer cabin with various features

The KATO original cabin is durable and of smart design. The cabin is compliant with ROPS safety standard (ISO 12117-2). It secures the safety and protection of the operator from roll-over over accident. The cabin is also compliant with ISO 10262 (Top guard level I) and protect the operator from falling objects.

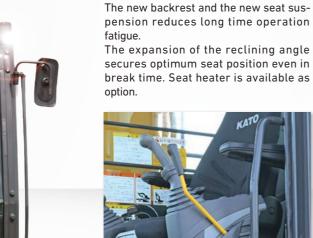
Thick plate pipe Reinforced square pipe

но1025-7

Safety







Safety lock lever

New comfort seat

The new electronic control lock mechanism enhances safety and prevents miss operation. It locks the hydraulic circuit in case the console is jumped up. The engine start operation is active only when the lever is applied to lock position.

Other safe features

Rear view camera Emergency engine stop switch
Retractable side mirror

Fire wall



Polycarbonate door window

Polycarbonate prevents the crack comes from scattering stone. Hard coating which has provided to surface secures high resistance to yellowing or scratch.



Large size step with anti-slip

possible for the operator to access upper structure easier and provides safe maintenance.



Best comfort and high efficiency









and closing door lock

Heat&cold insulation box

It is capable of storing 6 drink bottles (500mL).



Rear stowage space It is capable of storing objects such as 2L size drink bottle.

The foot rest has been relocated

to optimum position. Replace-

ment of the floor mat has become

Soft material is used for the drink

holder. Various arrangements

available.

easier.

New foot rest

arrangement

Drink holder

are available.

Also wide space for the booklet is







Fan guard Emergency escape hammer
LED working light (option) Winding/rewinding seat belt
Fire extinguisher (option) Large size handrail







New operation lever

- Operation switches are arranged to up and bottom. Round shape grip is easy to handle.
- The operating force is decreased by approx.25%

Pressurized cabin

It prevents dust by enhancing the airtightness.

Other cabin features

- Seat suspension
- Luggage space
- Helmet hook
- AM/FM radio with 2 speakers
- USB port (option)
- 12V electric port (option)
- Ash tray (option)
- Sun visor (option)
- Rain visor (option)
- Transparent roof hatch (option)
- Seat-heater (option)



Air conditioner

• Air volume is increased by 26% Filter is paper type



Luggage space



USB port (option)





но1025-7

New APC

Visibility

Large and high resolution display

The display is 7 inch size and IPS liquid crystal display provides high quality image.

Safety

Rear view camera for standard feature

Operator is able to confirm rear and side view through dual view display (side view camera is an option)



It indicates rear and side view at the same time.

Operability Touch screen control is available for all operation.



Mode selection

Pull-down menu enables operator to confirm all mode on the display at once.



Attachment Setting

Simple operations to set optimum hydraulic pressure and flow for attachments such as Breakers and Crushers



Alarm message

The display indicates various alarms. It also indicates the DEF aqueous fluid replenishing timing.



Various information

Operator is able to set up to display various information such as maintenance information.

High performance and superior maintenance

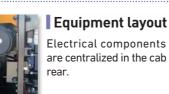


LED light (option) The LED lights have been provided to the cab, right-front and the boom.





space It is able to replace the filter for the air conditioner and replenish the washer fluid from the cab maintenance space located outside of the cab.



Electrical components are centralized in the cab



Battery disconnect switch In non-operation state, it safely shuts off standby





Swing motor reduction gear

Maintainability has been improved with the remote type supply port.

High performance bush

The dimple design bush keeps the grease longer than before. It prevents the wear and galling.

Engine room

With the high output compact size engine a wide engine maintenance space is secured.



Centralized filter arrangement

Filters are located on the right rear of the machine. It facilitates the replacement work.



Cooling system

The expansion tank (pressurized reserve tank) is located on top of the radiator, with improved air venting to the engine and cool ability.



Storage box

The supply port for the DEF is available and easy to access. It possible to store a 10L DEF container.



Fuel tank

450L large size fuel tank. The remote type water discharge port makes

Technical Specifications

ENGINE

LITOITE
Model······YANMAR4TN107FTT
Type ······ 4-cycle, water-cooled,
in-line, direct injection with
turbocharged
Number of cylinders 4
Bore & Stroke 107 mm ×127 mm
Total displacement 4.567 L
Rated output······127kW/1,900min ⁻¹
(ISO 14396)
121.6kW/1,900min ⁻¹
(ISO 9249 Net)
· · · · · · · · · · · · · · · · · · ·
Max. torque
(ISO 14396)
788N•m/1,500min ⁻¹
(ISO 9249 Net)
Compression ratio 17.5:1
Cooling system ······ Pressurized
coolant circulated
by coolant pump
with the thermostat
and expansion tank
Lubrication system ······Pressurized oil fed
by a gear pump
through full-flow
and by-pass
cartridge filter
Starter ······ Electric, 24V-5.0kW
Generator Alternator, 24V-80A
Air cleaner ··· Double element Dry type filter

Pumps......Double variable piston pump and gear pump Max, discharge flow 2×266 L/min Max. discharge pressure 34.3MPa Max, discharge pressure ·36.3MPa (high power) ··· 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) ····· Gear type Pilot pump. 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 ······12.0min Max, swing speed....

HYDRAULIC SYSTEM 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 47 each side 51 each side (LC) Track adjustment Grease cylinders with recoil springs Lubrication ···· Sealed-for-life rollers and front idlers with floating seals ······ High 0~5.5km/h Travel speed. Low 0~3.9km/h Gradeability ······70% (35°) … 194kN Max. drawbar pull.....

DIGGING FORCE (ISO 6015)

Bucket digging force 176k
at high power ····· 186kN
Arm (2.96m) digging force 128kN
at high power ····· 135kN

SERVICE DATA

Fuel tank······450 L
Cooling system ····· 34 L
Engine oil····· 23 L
DEF tank
capacity55 L
replenishment ····· 46 L
Track drives
Hydraulic oil tank
level 170 L
system ······ 340 L

CABIN&CONTROLS

Type All weather sound suppressed, cab mounted on 6 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 levers ·· Controls the arm & swing Pilot controls ···· Travel, boom, arm, bucket and swing Engine throttle Electric "Accell dial" Meters & gauges ····· Hour meter, water temperature.DEF and fuel level Working lights... ·· Provided on the boom left side and right front cover Lubrication chart Inside of the left rear

side cover Quick Selection of Working Modes… P: Professional mode for the

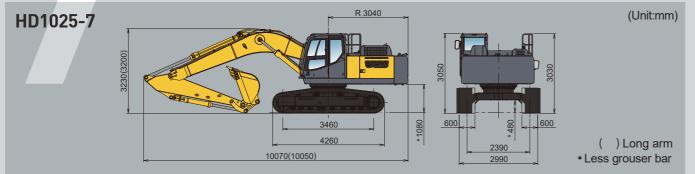
experienced operator, Established both power and good response A: All-round multipurpose Mode for all application from precision work to heavy duty work by stroke of operation levers E: ECO Mode for economical works · Color monitor display with touch screen

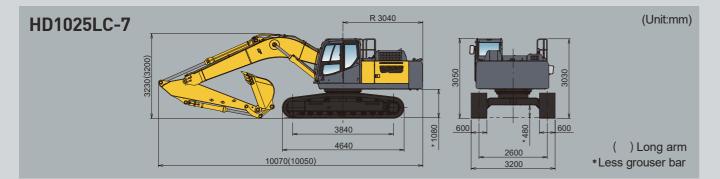
• Rear / side View monitor

AIR CONDITIONER

Air conditioner gas contains fluorinated greenhouse gases. Industrial designation · · HFC-134a Quantity . ·····1.0kg CO₂ equivalent ·1 43ton Global warming potential (GWP)1430

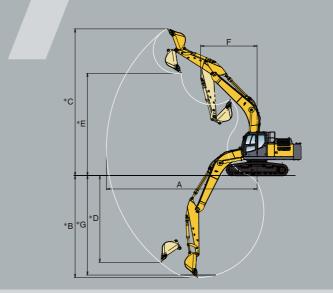






Working Ranges

Standard backhoe



	Standar	d boom	Small swing position		
Range Arm	Standard arm 2.96 m	Long arm 3.56 m	Standard arm 2.96 m	Long arm 3.56 m	
A : Maximum digging radius	10,340	10,910	10,340	10,910	
* B : Maximum digging depth	7,000	7,610	5,690	6,300	
* C : Maximum digging height	10,080	10,370	11,500	11,940	
* D : Maximum vertical wall	5,960	6,590	4,910	5,520	
* E : Maximum dumping height	7,030	7,310	8,340	8,770	
F : Minimum swing radius	3,880	3,810	2,450	2,540	
* G: Maximum digging depth at 2,440mm (8ft) floor length	6,830	7,460	5,530	6,150	

Lifting Capacities

HD1025-7 BOOM: 5.88 m, ARM: 2.96 m, SHOE WIDTH: 600mm, COUNTERWEIGHT: 5,300 kg

LIFT		LIFT POINT RADIUS A(m)								AT MAXIMUM			
POINT	1.	50	3.	00	4.	50	6.	00	7.	50	LIFT	POINT RA	ADIUS
HEIGHT B(m)	ŋ		ŋ		ŋ		Ů		ŋ		ŋ		RADIUS (m)
7.50							*5,600	*5,600			*5,440	*5,440	6.71
6.00							*5,710	*5,710	*5,950	4,620	*5,050	4,370	7.73
4.50							*6,520	6,440	*6,150	4,530	*4,940	3,770	8.36
3.00					*9,960	9,220	*7,700	6,070	6,070	4,370	4,820	3,470	8.69
1.50					*12,270	8,540	8,170	5,730	5,880	4,190	4,690	3,360	8.74
0.00					12,360	8,200	7,920	5,500	5,740	4,070	4,800	3,420	8.53
-1.50	*6,800	*6,800	*11,380	*11,380	12,270	8,120	7,820	5,410	5,700	4,030	5,210	3,700	8.04
-3.00	*12,880	*12,880	*19,120	16,030	12,380	8,210	7,880	5,470			6,130	4,340	7.20
-4.50			*16,210	*16,210	*11,470	8,510					*8,230	5,920	5.87
	~ —												

HD1025LC-7 LIFT POINT RADIUS A(n LIFT POINT 1.50 3.00 4.50 HEIGHT Ш Ш Ľ۳ – B(m) 7.50 6.00 4.50 3.00 *9.960 *9.960 1.50 *12.270 9.660 0.00 *13,570 9,310 -1.50 *6,800 *11,380 *11,380 *13,890 *6,800 9,220 -3.00 *12,880 *12,880 *19,120 18,670 *13,320 9,320 -4.50 *16,210 *16,210 *11,470 9,630

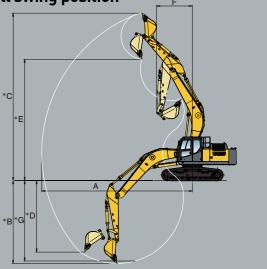
NOTE : 1. Lifting capacities are based on ISO 10567.

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 apply only to the machine as originally manufactured and equipped by KATO WORKS CO., LTD.
The operator should be fully acquainted with the instruction manual before operating the machine.

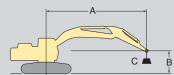
9



Small swing position



Unit : mm *Less grouser bar



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

: OVER FRONT Ľ٦.

: OVER SIDE OR 360°

BOOM: 5.88m, ARM: 2.96m, SHOE WIDTH: 600mm, COUNTERWEIGHT: 5,300kg

m)				AT MAXIMUM						
	6.	00	7.	50	LIFT POINT RADIUS						
	ŋ		ŋ		ŋ		RADIUS (m)				
	*5,600	*5,600			*5,440	*5,440	6.71				
	*5,710	*5,710	*5,950	5,130	*5,050	4,850	7.73				
	*6,520	*6,520	*6,150	5,040	*4,940	4,200	8.36				
	*7,700	6,770	*6,710	4,870	*5,010	3,870	8.69				
	*8,920	6,430	6,870	4,690	*5,260	3,760	8.74				
	9,360	6,190	6,730	4,560	5,600	3,840	8.53				
	9,260	6,100	6,680	4,520	6,090	4,150	8.04				
	9,320	6,150			7,180	4,870	7.20				
					*8,230	6,640	5.87				

10

Unit : kg

Unit : ka