STANDARD AND OPTINAL EQUIPMENTS

	_	47.	711 7
Safety equipments	STD	LC	Doze
ISO12117-2Fops top guard ISO 10262LEVEL pdz	0	0	0
Safety lock lever	0	0	0
Seat-belt	0	0	0
Emergency engine stop switch	0	0	0
Emergency escape hammer	0	0	0
Rear view mirror (light&left side)	0	0	0
Rear view camera	0	0	0
Side view camara	•	•	•
Working light (slewing table right side,boom left side)	0	0	0
Optional working light (cab left and right side)	•	•	•
Optional working light (boom right side)	•	•	•
LED working lights	•	•	•
Boom/arm anti-drift valve	0	0	0
Slewing anti-counter action	0	0	0
Automatic parking brake (slewing table)	0	0	0
Automatic parking brake (traveling)	0	0	0
Fire wall	0	0	0
Falling prevention handrail	0	0	0
Battery disconnect switch	0	0	0
Caution indication	0	0	0
Cabin lower guard	•	•	•
Cabin front guard	•	•	•
Cabin head guard	•	•	•
Step on side of cab	•	•	•
Fire extinguisher	•	•	•
Additional electric horn	•	•	•
Traveling alarm	•	•	•
Swing interlocking warning lamp	•	•	•
Loud speaker	•	•	•
System	STD	LC	Doze
APC mode (A, P and E)	0	0	0
Front attachment mode	0	0	0
Auto alaw and taugh alaw			

Cabin	STD	LC	Dozer
6 points viscous dumpling cab suspension	0	0	0
Pull up front window	0	0	0
7 inch touch screen control LCD monitor	0	0	0
Double slide operator seat	0	0	0
Seat suspension adjustable to operator's weight	•	•	•
Automatic air conditioner (pressurized)	0	0	0
Defroster	0	0	0
Large capacity heat & cold insulation box	0	0	0
Intermitted windshield wiper	0	0	0
AM/FM radio	0	0	0
Two stereo speakers	0	0	0
LED interior light	0	0	0
Cup holder	0	0	0
Helmet hook	0	0	0
24V electric supply port	0	0	0
Transparent roof hatch with sun visor	•	•	•
Sun shade	•	•	•
Sun visor	•	•	•
Rain visor	•	•	•
Ash tray (with cup holder)	•	•	•
12 volt power supply	•	•	•
USB port (x2)	•	•	•
Seat cover	•	•	•
_			
Piping and other	STD	LC	Dozer
_ · · · ·	T -		

Service port (1 spool)

Additional piping (for crusher)

Additional piping (for rotator) Air cleaner double element

Electric refueling pump Specification for cold region

Additional counter weight (J 500kg)

- wworking	equipments	STD	LC	Dozer
	0.25m³ bucket	•	•	•
	0.35m³ bucket	•	•	•
	0.40m³bucket	•	•	•
	0.45m³bucket	•	•	•
Bucket	0.50m³bucket	0	0	0
	0.55m³ bucket	•	•	•
	0.60m³ bucket	•	•	•
	Plate to close spaces between teeth of⊡bucket	•	•	•
	Arm□(2.50m)	0	0	0
Arm	Arm (3.00m)	•	•	•
	Various type of reinforced arm	•	•	•
Boom	Standard boom (4.65m)	0	0	0
DOUIII	Bracket on boom for small		-	_
	swing radius (4.65m)	•	•	•
Travelino	swing radius (4.65m)	STD	LC	Dozer
		STD	LC }	Dozer
	swing radius (4.65m) g equipments			
	swing radius (4.65m) g equipments 500mm	0	7	0
	swing radius (4.65m) g equipments 500mm 500mm (reinforced)	0) ©	
Grouser shoe	swing radius (4.65m) equipments 500mm 500mm (reinforced) 600mm	•) ©	•
Grouser shoe	swing radius (4.65m) g equipments 500mm 500mm (reinforced) 600mm 700mm	•	?	
Grouser shoe Dozer blade	swing radius (4.65m) equipments 500mm 500mm (reinforced) 600mm 700mm 500mm/shoe		?	© • • •
Grouser shoe Dozer blade Cover on the	swing radius (4.65m) equipments 500mm 500mm (reinforced) 600mm 700mm 500mm/shoe 600mm/shoe	•	?	© • • • • • • • • • • • • • • • • • • •
Grouser shoe Dozer blade Cover on the Traveling mot	swing radius (4.65m) equipments 500mm 500mm (reinforced) 600mm 700mm 500mm_shoe 600mm_shoe bottom face of traveling frame	© • • • ? ?	?	○•····○
Grouser shoe Dozer blade Cover on the	swing radius (4.65m) gequipments 500mm 500mm (reinforced) 600mm 700mm 500mm:shoe 600mm:shoe bottom face of traveling frame or cover (reinforced)	© • • • ? ?	?	© • • • • • • • • • • • • • • • • • • •

	BUCKET

	Type of bucket	Backhoe bucket						
Bucket cap	pacity m³, ISO	0.25	0.35	0.40	0.45	0.50	0.55	0.60
Bucket	W/O side cutters, mm	540	695	745	875	890	965	1,090
width	with side cutters, mm	630	785	835	965	980	1,055	1,180
Number of	bucket teeth	3	4	4	4	5	5	5
Shape of b	ucket							
Standard	Standard arm (2.50m)	•	•	•	•	•	•	
boom +	Long arm (3.00m)	•	•	•	•	•	×	×

	I KACK SHUES				
			G	arouser sho	e
	Type of shoes				
pody	Shoe width	mm	500 [500reinforced]	600	700
main body	Operating weight	kg	12,900 [13,400]	13,100	13,400
Specifications for	Distance between shoe edge of both side	mm	2,490	2,590	2,690
cificativ	Ground	kPa	41 [40]	34	30
Spe	pressure	kgf/cm ²	0.42[0.41]	0.35	0.30

TDACK CHOEC

Ground pressure when equip standard bucket and arm. [] HD512LC-7 Yellow colored area means standard.

Auto-slow, one touch slow

Automatic transmission for traveling 2 speed modes for traveling

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:



Available through

EARTHMOVING

0459 927 346 (0459 WAREHOUSE) Shed C1/C2 194 Zillmere Road, Boondall Brisbane 4034

earthmovingwarehouse.com.au

7th GENERATION TECHNOLOGY HD512-7 **REGZAM | HYDRAULIC EXCAVATOR**

[●] General purpose ▲ Light work □ Loading × Unusable

Yellow colored area means standard.



High performance & Environment-friendly KATO conventional excavator

Environment-friendly

- □Tier4/Stage4 compliant engine
- New control valve reduces the fuel consumption

Durability

- New standard bucket
- The traveling body has been enhanced

Safety

- -□New ROPScabin
- New engine neutral start mechanism

Comfortable cabin

- □New air conditioner
- Complete interior
- Operability is up
- Pressurizing function

New APC

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

Maintainability

- Goodaccess to service parts
- Daily cleaning has been facilitated
- -□Safe features for maintenance







High productivity and comfort operability

High performance and environment-friendly Isuzu engine



Selective Catalytic Reduction (SCR)

The SCRsystem cuts the NOx(nitrogen oxides), PM (particular matter) and NMHC(non-methane hydrocarbon). The emission control is compliant with Stage4 and Tire4.

EGR(Exhaust Gas Recirculation) system

The large capacity water-cooled EGRcooler suppresses the NOx.

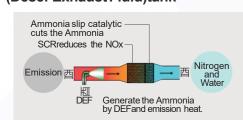
Selective Catalytic Reduction (SCR) system

The SCRsystem provides chemical reaction between Urea and NOx in emission. This reaction generates Nitrogen and Water which are friendly to the environment.

The large capacity DEF (Desel Exhaust Fluid) tank

DEFreplenishment is every 1 time per 5 times of fuel replenishment (subject to working condition).

DEFtank is locating inside of the tool box and easy to access.



High mileage Diameter of the boom cylinder

hose and bucket cylinder hose have been increased. It reduces the pressure loss and minimizes the power loss.



control valve

The new control valve provides better operability. Feeling of the leveling operation has been improved by providing the arm-semi-parallel circuit and the arm spool. The productivity is up than before.



NOXis decreased by The fuel economy is increased by **Digging force** Max.arm diggingforce au **72**kN uat highpoweruuu-94_{kN} Max. bucket digging force 98_{kN} uat highpoweruuu Working range Max. digging radius 8,300mm Max. digging depth 5,590mm Max. digging height 8,740mm KAT0 HD 512

New bucket

Bucket bottom

New bucket bottom design protects welded portion from wear. Thicker plate has been provided to the bottom and durability has up.



Arm adjustment mechanism

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

Side-cutter

By securing the bolt to 4 corners of side-cutter, the load to the bolt has been reduced.

Reinforced bucket

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

New traveling body

Idler frame has enhanced

There is a bracket for the idler wheel. Durability is up.



The traveling motor pipe is storable to the frame. Cross section area has been increased and rigidity has improved.

Track guard (option)

New design enhances wear resistance.

New shock absorber

The adjustable cylinder is integrated into the shock absorber. Component parts have reduced.

Air cleaner

The Double-element collects the dust in the

Expansion tank

The expansion tank has been equipped to the radiator. It increases air breeding and cooling performance.

Dozer edge

New mechanism is available to replace the edge.





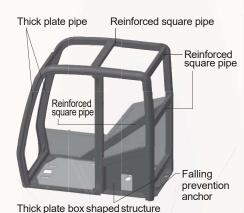






Safer cab with various **features**

The KATO original cab is durable and smart design. The cabin is compliant with ROPS direction (ISO12117-2). It secures the safety and protection of the operator from roll-over accident. The cabin is also compliant with ISO10262 (Top guard levels) and protect the operator from falling objects.





Window and rise up wiper

The large size right window and the rise up wiper secure excellent view. The wiper is storable to the right pillar.



Safety lock lever

The new electronic control lock mechanism enhances safe 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

- Rearview camera
- Sideview camera (option)
- **Emergency**enginestopswitch
- Emergencyescapehammer

- Fanguard Retractablesidemirror
- LEDworking light (option) Fire extinguisher(option)



To prevent falling accident, the handrail

has been provided to the upper structure.

The large size anti-slip step enables oper-

ator to access the upper structure safer.

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.

Handrail and step

Best comfort and high efficiency



Heat&cold insulation box

It is capableto store 6 drink bottles (500ml).

Rear stowage space

It is capable to stow such as 2I size drink bottle.





The foot rest has been relocated to optimum position. Replacement of



New operation lever

Operation switches are arranged to up and bottom. Round shape grip is easy to handle.



Pressurized cabin

It prevents dust by enhancing the airtightness.



Air conditioner

Air volume is increased by 26% Filter is paper type

New foot rest arrangement

the floor mat has becomeeasier

Drink holder



Soft material is used for the drink holder. Various arrangements are available.

Other cabin features

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









New APCfor smart operation



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

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



It indicates rear and side view at 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.



Air conditioner

The air conditioner operation is available on the display.



Alarm message

The display indicates various alarms. It also indicates the DEFaqueousfluid replenishing timing.



Various information

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



High performance and superior maintenance



Fuel main filter

It is locating on the right-rear position which is easy to access.



Greasing port for slewing motor

The extension hose has been provided to the slewing motor. The greasing port is locating which is easy to access.



Cab maintenance space

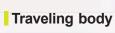
It is able to replace the filter for the air conditioner and replenish the washer fluid from the cab maintenancespacewhich is locating on outside of the cab.





High performance

The new dimple design bush keeps the grease longer than before. These have been provided to boom foot, arm foot and



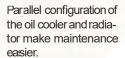


Sloop design center-flame and side-flame have been arranged in straight lines. Mud drainage performance is up.



Cooling system

The cleaning space is available on the upper part of the radiator.



It becomes more easily to replace fine meshed insect proof net.



Large capacitytool box

The large size tool box that is capable to store such as tool set, 10I DEF aqueousfluid container.



Batterydisconnectswitch

It is capable to shut down the battery completely in non-oparation state. The



Technical Specifications

ENG	
	cycle intercooler turbo
Number of cylinders	4
Bore & Stroke······	95.4mm×104.9mm
Total displacement···	2,999 L
Rated output······	···· 78.5kW/2,000min-1
	(ISO 14396)
	76.4kW/2,000min ⁻¹
	(ISO 9249 Net)
Max. torque······	··· 375N·m/1,800min ⁻¹
	(ISO 14396)
	367N·m/1,800min ⁻¹
	(ISO 9249 Net)
Compression ratio	16.5:1
	····· 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-4.0kW

Generator Alternator, 24V-50A

Air cleaner··· Double element Dry type filter

HYDRAULICSYSTEM TRAVEL SYSTEM

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 ·····

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····· 44 each side
46 each side (LC)
Track adjustment······ Grease cylinders
with recoil springs
Lubrication Sealed-for-life rollers and
front idlers with floating seals
Travel speed ······ High 0~5.8km/h
Low 0~3.3km/h
Gradeability70% (35°)
Max, drawbar pull······ 110 kN

Arm (2.50m) digging force ·····69kN
at high power·····72kN
Bucket digging force94kN
at high power98kN

Fuel tank·····275 L
Cooling system·····20.8 L
Engine oil19.6 L
DEF tank
capacity·····55 L
replenishment46 L
Track drives·····2×2.1L
Hydraulic oil tank
level80 L
system158 L
In standard figure, with the 2.50m arm,
500mm grouser shoes and 0.50m³ (ISO)
bucket.
Operating weight······12,900kg
Ground pressure 41kPa

CAB&CONTROLS

and fuel level

side cover

Lubrication chart·····Inside of the left rear

P: Professional mode for experienced

A: All-round Multi Purpose Mode for all

application from precision work to

heavy duty work by stroke of

E: ECO Mode for economical works

Color monitor display with touch screen

AIR CONDITIONER

Global warming potential (GWP)-----1430

····· 1.0kg

Air conditioner gas contains fluorinated

operator. Established both power and

Quick Selection of Working Modes

good response

operation levers

Rear / side View monitor

greenhouse gases.

CO2 equivalent ·····

Industrial designation · Quantity · ·

·· Provided on the boom left side and right

ston motor	Type······All weather sound suppresse
ch side	cab mounted on 6 point
rking brake	viscous mounting.
d	Right hand levers Controls the boom
he travel	buck
ral position.	Inner right hand lever
	(with foot pedal) Controls the rig
(LC)	hand trad
e cylinders	Inner left hand lever
coil springs	(with foot pedal) Controls the left har
lers and	trac
oating seals	Left hand lever ··· Controls the arm & swir
0∼5.8km/h	Pilot control·····Travel, boom, arm, buck
0~3.3km/h	and swir
··70% (35°)	Engine throttle ······Electric "Accell dial"
····· 110 kN	Meter & gauges ······ Hour meter, water
	temperature DEE

DIGGINGFORCE(ISO6015)

Arm (2.50m) digging force ······69kN
at high power·····72kN
Bucket digging force94kN
at high power98kN

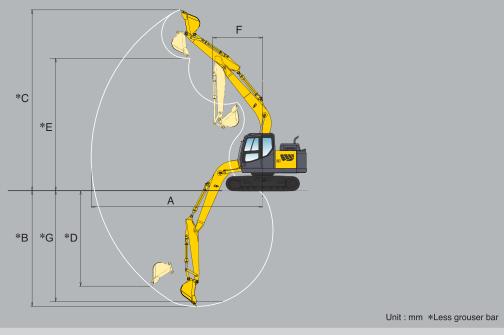
SERVICE DATA

Fuel tank275 L
Cooling system·····20.8 L
Engine oil19.6 L
DEF tank
capacity55 L
replenishment46 L
Track drives·····2×2.1L
Hydraulic oil tank
level80 L
system ·····158 L
In standard figure, with the 2.50m arm,
500mm grouser shoes and 0.50m³ (ISO)
bucket.
Operating weight·····12,900kg
Ground pressure 41kPa

Working Ranges

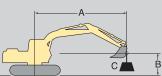


Standard backhoe



	Standard boom				
Range Arm	Standard arm 2.50m	Long arm 3.00m			
A : Maximum digging radius	8,300	8,770			
*B: Maximum digging depth	5,590	6,070			
* C : Maximum digging height	8,740	9,070			
* D : Maximum vertical wall	4,620	5,030			
* E : Maximum dumping height	6,410	6,730			
F : Minimum swing radius	2,420	2,720			
* G:□Maximumdigging depth at 2,440mm (8ft) floor length	5,370	5,880			

Lifting Capacities



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

: OVER FRONT : OVER SIDE OR 360°

BOOM: 4.65m, ARM: 2.50m, BUCKET: 0.5m3 (430kg), SHOE WIDTH: 500mm, COUNTERWEIGHT: 2,100kg

LIFT		LIFT POINT RADIUS A(m)									AT MAXIMUM		
POINT	1.50		3.00		4.50		6.00		LIFT POINT RADIUS				
HEIGHT B(m)	Ů		u		Ů		u		Ů		RADIUS (m)		
6.00									*2090	*2090	5.09		
4.50					*2190	*2190	*2400	1,980	*1710	1,550	6.75		
3.00			*3960	*3960	*3070	*3070	*2760	1,880	*1740	1,310	7.21		
1.50			*5280	*5280	*4190	2,810	2,640	1,760	1,860	1,220	7.34		
0.00			*4780	*4780	4,010	2,600	2,530	1,660	1,900	1,230	7.16		
-1.50	*5190	*5190	*4790	*4790	3,910	2,510	2,480	1,610	2,130	1,380	6.63		
-3.00	*4750	*4750	*5010	4,900	3,940	2,540			2,760	1,810	5.66		
-4.50			*6050	5,200					*4860	3,360	3.93		

HD512LC-7 BOOM: 4.65m, ARM: 2.50m, BUCKET: 0.5m³ (430kg), SHOE WIDTH: 500mm, COUNTERWEIGHT: 2,100kg

LIFT	LIFT POINT RADIUS A(m)								AT MAXIMUM		
POINT	1.50		3.00		4.50		6.00		LIFT POINT RADIUS		
HEIGHT B(m)	ů		Ů		ů		ů		Ů		RADIUS (m)
6.00									*2090	*2090	5.09
4.50					*2190	*2190	*2400	2,050	*1710	1,610	6.75
3.00			*3960	*3960	*3070	*3070	*2760	1,960	*1740	1,370	7.21
1.50			*5280	*5280	*4190	2,920	2,740	1,830	*1880	1,270	7.34
0.00			*4780	*4780	4,160	2,700	2,630	1,730	1,980	1,290	7.16
-1.50	*5190	*5190	*4790	*4790	4,060	2,610	2,580	1,680	2,220	1,450	6.63
-3.00	*4750	*4750	*5010	*5010	4,100	2,640			2,870	1,880	5.66
-4.50			*6050	5,380					*4860	3,490	3.93

- 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 instruction manual before operating the machine.

Dimensions

