STANDARD AND OPTIONAL EQUIPMENTS

Safety equipments	STD	L
ISO 12117-2 ROPS cab (with ISO 10262 FOPS top guard LEVEL ${ m I}$)	0	(
Safety lock lever	0	(
Seat-belt Seat-belt	0	@
Emergency engine stop switch	0	0
Emergency escape hammer	0	0
Rear view mirrors (right&left side)	0	O
Rear view Camera	0	@
Right side view camara	•	•
Working light (slewing table right side,boom left side)	0	0
Additional working lights (cab left and right side)	•	•
Additional working light (boom right side)	•	•
LED working lights	•	•
Boom/Arm anti-drift valves	0	0
Slewing anti-counter action	0	@
Automatic parking brake (swing)	0	0
Automatic parking brake (traveling)	0	0
Fire walls	0	O
Falling prevention handrail	0	0
Battery disconnect switch	0	0
Caution indication signs	0	0
Cab lower guard	•	•
Cab front guard	•	•
Cab head guard	•	•
Step on side of cab	•	•
Fire extinguisher	•	•
Additional electric horns	•	•
Traveling alarm	•	•
Swing interlocking warning lamp	•	•
Loud speaker	•	•
System	STD	L
APC modes (A, P and E)	0	(
	_	_

Cab	STD	
6points viscous dampling cab suspension	SID @	LC
Pull up front windshield	0	0
7 inch touch screen control LCD monitor	0	0
		_
Double slide operator's seat	0	0
Seat suspension adjustable to operator's weight	0	0
Automatic air conditioner (pressurized)	0	0
Defroster	0	0
Large capacity warming & cooling insulation box	0	0
Intermitted windshield wiper	0	0
AM/FM radio	0	0
Two stereo speakers	0	0
LED interior light	0	0
Cup holder	0	0
Helmet hook	0	0
24V electric supply port	0	0
Transparent roof hatch with sun shade	•	•
Sun shade	•	•
Sun visor	•	•
Rain visor	•	•
Ash tray (with cup holder)	•	•
12V electric supply port	•	•
USB ports (x2, total 2.5A)	•	•
Seat cover	•	•

Piping and other	STD	LC
Attachment service port (1spool)	0	0
High performance return filter	•	•
Additional piping for breaker & crusher	•	•
Accumulators for breaker	•	•
Boost piping for crusher	•	•
Additional piping (for rotator)	•	•
Lowering control device (boom)	•	•
Lowering control device (arm)	•	•
Control pattern change valve (ISO-SAE)	•	•
Air cleaner double elements	0	0
Pre-cleaner (automatic dust eject)	0	0
Increased counter weight (+500kg)	•	•
Reinforced under cover (slewing table)	•	•
Electric refueling pump	•	•
Electric grease gun	•	•
Specification for cold region	•	•
Designated painting	•	•
Tool set	0	0

Working equipments STD LC						
Bucket	0.7m³ bucket	•	•			
Buonot	1.1m³ bucket	•	•			
	1.4m³ bucket	0	0			
	1.6m³ bucket	•	•			
	1.8m³ bucket	•	•			
	1.4m3 reinforced bucket	•	•			
	1.4m3 bucket (side-pin tooth)	•	•			
	1.6m3 bucket (side-pin tooth)	•	•			
Arm	3.14m standard arm	0	0			
	3.14m reinforced arm	•	•			
	4.14m long arm	•	•			
	Various type of reinforcements	•	•			
Boom	6.48m standard boom	0	0			
	6.48m reinforced boom	•	•			
	Bracket for small swing radius	•	•			
	Various type of reinforcements	•	•			
Link	Standard side link	0	0			
	Reinforced side link	•	•			

•••	•••				
• • •	• • •				
• • •	• • •				
• •	•				
•					
	_				
0	-				
•	0				
•	-				
0	0				
Reinforced traveling motor cover					
Traveling frame with motor case reinforcement					
	•				

⊚Standard equipments ●Option —No setting

	11.4	OI		_	
		Ck	L	_	
Э.	•1	- 4	٧г	_	
	_	_	A 10	_	

	Type of bucket		Ho	e bucket		
Bucket capa	acity m³, ISO	0.70	1.10	1.40	1.60	1.80
Bucket	W/O side cutters, mm	750	1,100	1,290	1,475	1,660
width	with side cutters, mm	860	1,210	1,400	1,590	_
Number of I	oucket teeth	3	4	5	6	6
Shape of bucket		Fig.	P			
	Standard arm (3.14m)	•	•		A	
Standard boom +	Reinforced (3.14m)	•	•	•	A	
5001	Long arm (4.14m)	•		×	×	×

- : General purpose (used with material weight 1,800kg/m or less)

 ▲ : Light work (used with material weight 1,600kg/m or less)

 □ : Loading only (used with material weight 1,100kg/m or less)

Front attachment mode Auto-slow, one touch slow Automatic transmission for traveling

2 speed modes for traveling

Yellow colored area means standard.

TRACK SHOES

IIIAOII SIIOES							
	Grouser shoe						
	Type of shoes						
Shoe width mm		600	700	800	914		
for main b	Overall width	mm	3,190	3,290	3,390	3,510	
ations for	Operating weight	kg	32,000 [32,800]	32,330 [33,150]	32,890 [33,750]	33,590 [34,490]	
Specifications	Ground pressure	kPa	64 [61]	55 [52]	48 [46]	42 [40]	

Operating weight and Ground pressure figures, with 6.48m standard boom, 3.14m standard arm and 1.4m (ISO) bucket.

Yellow colored area means standard. [] HD1430LC-7

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:



SINCE 1895

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Displays Outstanding Power in **Heavy-Duty Operation**

Mounts a new reliable US EPA Tier 4 and EU Stage IV complaint Daimler (Mercedes-Benz) OM936LA (MTU 6R1000) engine.



Selective Catalytic Reduction (SCR) system

The SCR system cuts the NOx (nitrogen oxides), PM (particulate matter) and NMHC (non-methane hydrocarbon). The emission control is compliant with Stage IV and Tier4.

EGR (Exhaust Gas Recirculation) system

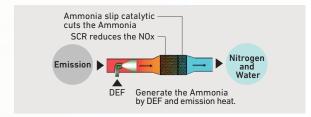
The large capacity water-cooled EGR cooler suppresses

Selective Catalytic Reduction (SCR) system

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

The large capacity DEF (Desel Exhaust Fluid) tank

DEF replenishment is every 1 time per 3 times of fuel replenishment (subject to working condition).



Max. digging depth 7,450mm Max. digging height 10,420mm Cycle time improved by **Great improvement** made on the cycle time Implementation of dramatic improvement on work efficiency due to optimization of the hydraulic circuit also enhances its usability. At E-mode, it is also possible to operate at a Reduction speed equal to or faster than the P-mode of the previous of fuel model. (HD1430V) consumption by the HD1430V

Digging force

Max. arm digging forcece — 159kN at high power Max. bucket digging force 224kN 235_{kN} at high power

Working range

Max. digging radius 11,210mm

Further reduction in fuel consumption, thanks to the improvement on energy efficiency of the hydraulic circuit.

New control valve

Operability enhancement resulting from the improvement of internal structure of the new control valve. Hydraulic fluid flow has been made efficient with the newly adopted bucket flow circuit. Moreover, great reduction of pressure loss because of the adoption of the large diameter spool. It also contributes to reduction in fuel consumption



Pressure loss is greatly reduced due to the optimization of the hydraulic piping.

Minimization of energy loss, pressure loss reduction, optimization of every hydraulic piping all thanks to the increment of the piping diameter in front of the bucket and arm



Reputable undercarriage

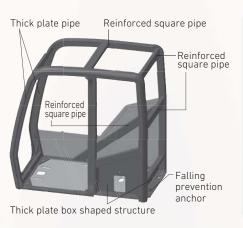
Further improvements made on reliability, hence a travelling frame of the previous model with a solid-track record, has been adopted. Improvement made on durability for the track roller and carrier roller

- The travelling frame under cover is now a standard feature.
- Reinforcement made to the cover plates' thickness of the traveling motors'by 2.2 times. In addition, an enhanced square bar as a newly added feature (optional)
- Reinforcement of the traveling frame's internal structure by 1.4 times.
- Enhanced track guard reinforcement making bending difficulty.



Safer Cab with Various **F**eatures

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





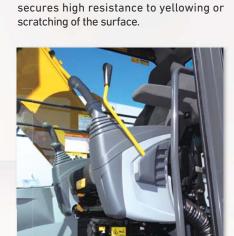
Window and rise up wiper

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



Handrail and step

To prevent falling accident, the handrail has been provided to the upper structure. The large size anti-slip step enables operator to access the upper structure safer.



Polycarbonate door window

Polycarbonate prevents the cracking that

arise from scattering stones. Hard coating

Safety lock lever

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

Other safe features

- Rear view camera
- Side view camera (option)
- Emergency escape hammer
 LED working light (option)
- Seat belt
- Fire wall
- Fan guard
- Emergency engine stop switch
 Retractable side mirror
 - Fire extinguisher (option)



Best Comfort and High Efficiency



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.



arrangement



New operation lever

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



Cab pressurization

It prevents dust by enhancing the airtightness.



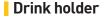
Air conditioner

Air volume is increased by 26%

Paper type filter

New foot rest

The foot rest has been relocated to optimum position. Replacement of the floor mat has now become easier.



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





Other cab features

- Seat suspension with large size shock absorber
- 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)



USB port (option)



New APC for Smart Operation



Visibility

Large and high resolution display

The display is 7 inch in size and the 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 operations.



Mode selection

Pull-down menu enables operator to confirm all modes 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 DEF aqueous fluid replenishing timing.



Various information

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



High Performance and Superior Maintenance



Cab maintenance

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



Battery disconnect switch

It is capable to shut down the battery completely into a non-operation state. The maintenance for electronic devices becomes safer.



Fuel pre-filter

The integrated water separator is mounted towards the rear right of the body, providing easier to access.



Reinforced swing motor type and reduction gear lubrication pipe

Durability enhancement as a result of mounting a better swing motor, consisting of a reinforced shaft. Improved maintainability with the newly adopted elongated hydraulic pipe supply port and remote type discharge port.



Large capacity tool box

In addition to storage of tools and the grease pump, the large capacity tool box is also capable of stowing a 20L polyethylene tank, a grease cartridge (that can hold 20 grease containers), all together at once.



Or C

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



New pre-cleaner

Laborsaving during maintenance as it is equipped with automatic dust cleaning mechanism.



Cooling system

Facilitates for easier cleaning with the new parallel arrangement of the radiator, oil-cooler and intercooler.



Expansion tank

Improvement in engine air bleeding and cooling performance. The expansion tank is located on top of the radiator.



Air cleaner equipped with a double element

The engine durability is improved by capturing particles like dust in the air intake. In addition, the element replacement intervals are extended.

Technical Specifications

ENGINE

Model····· Daimler OM936LA (MTU 6R1000) · 4-cycle, water-cooled, in-line, direct injection with turbocharged Number of cylinders... Bore & Stroke 110 mm × 135 mm Total displacement ··· 7.70 L Rated output ····· 205kW/1,950min⁻¹ (ISO 14396) 182kW/1.950min⁻¹ (ISO 9249 Net) ··· 1.150N·m/1.200min Max. torque 1,120N·m/1,200min⁻¹ (ISO 9249 Net) Compression ratio 17.6:1 · Pressurized Cooling system ···· 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 ·· Electric, 24V-5.5kW · Alternator, 28V-100A · Dry type double Air cleaner

HYDRAULIC SYSTEM TRAVEL SYSTEM CAB&CONTROLS

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 ····· 2×Axial piston motor and
reduction gear
(independent for each side)
Brakes ··· Mechanical parking brakes
operated interlocking travel
levers neutral position
Track shoes····· 48 each side
51 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 0~3.9km/h
Gradeability70% (35°)
Max. drawbar pull 270 kN

Bucket digging force ·····224 kN
at high power ·····235 kN
Arm (2.93m) digging force ·····159 kN
at high power ······166 kN

Fuel tank·····645 L
Cooling system····· 36 L
Engine oil 29.5 L
DEF tank
Capacity95 L
Replenishment ······79 L
Track drives······2×4.0 L
Hydraulic oil tank
Level200 L
System405 L

DEF and fuel level

···Provided on the boom

left side and tool-box

front side

Lubrication chart ···· Inside of the tool-box lid

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

E: ECO Mode for economical works

AIR CONDITIONER

Global warming potential (GWP)·····1430

.....1.43ton

operation levers

greenhouse gases.

CO2 equivalent ·····

Industrial designation ··

Quick Selection of Working Modes

P: Professional mode for the

ston motor and	Type ······ All weather sound suppresse
ear	cab mounted on 6 point
ent for each side)	viscous mounting
I parking brakes	Right hand levers ····· Controls the boom
terlocking travel	buck
ral position	Inner right hand lever
each side	(with foot pedal)·····Controls the rig
each side (LC)	hand tra
···· Grease cylinders	Inner left hand lever
with recoil springs	(with foot pedal) · · · · · Controls the left ha
for-life rollers and	tra
ers with floating seals	Left hand levers · · Controls the arm & swi
···· High 0~5.8km/h	Pilot controls ···· Travel, boom, arm, buck
Low 0~3.9km/h	and swi
·····70% (35°)	Engine throttle ······Electric "Accel dial"
270 kN	Meters & gauges ··· Hour meter,
2701111	water temperature

Working lights ·

DIGGING FORCE (ISO 6015)

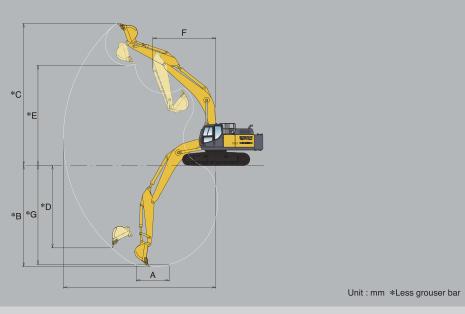
Bucket digging force224kN	
at high power ·····235 kN	
Arm (2.93m) digging force ······159 kN	
at high power ·····166 kN	

SERVICE DATA

Working Ranges

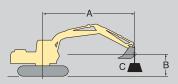


Standard backhoe



	Standar	rd boom	Bracket on boom for small swing radius (option)				
Range Arm	Standard arm 3.14 m	Long arm 4.14m	Standard arm 3.14 m	Long arm 4.14 m			
A : Maximum digging radius	11,210	12,100	11,210	12,100			
*B: Maximum digging depth	7,450	8,450	5,820	6,820			
*C: Maximum digging height	10,420	10,720	12,300	12,910			
* D : Maximum vertical wall	6,070	6,970	4,890	5,870			
* E : Maximum dumping height	7,350	7,660	9,060	9,670			
F : Minimum swing radius	4,460	4,680	2,730	2,760			
*G: Maximum digging depth at 2,440mm (8ft) floor length	7,290	8,320	5,660	6,690			

Air conditioner gas contains fluorinated **Lifting Capacities**



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

: OVER FRONT : OVER SIDE OR 360°

BOOM: 6.48 m, ARM: 3.14 m, BUCKET: 1.4 m³ (1140 kg), SHOE WIDTH: 600 mm, COUNTERWEIGHT: 6,400 kg Unit: kg

LIFT		LIFT POINT RADIUS A(m)												AT MAXIMUM		
POINT	1.3	50	3.	00	4.50		6.00		7.50		9.00		LIFT POINT RADIUS			
HEIGHT B(m)	B		B		B		P		B		ľ		ů		RADIUS (m)	
7.50									*4930	*4930			*3980	*3980	7.97	
6.00									*5150	*5150	*2970	*2970	*2750	*2750	9.03	
4.50									*5780	*5780	*5520	4130	*2770	*2770	9.56	
3.00					*9130	*9130	*7970	7840	*6640	5460	5810	3970	*2910	*2910	9.83	
1.50					*7210	*7210	*9520	7280	*7540	5150	5630	3800	*3160	*3160	9.86	
0.00			*8150	*8150	*6890	*6890	*8610	6890	7320	4910	5490	3670	*3580	3270	9.65	
-1.50	*9280	*9280	*7420	*7420	*6870	*6870	*8240	6700	7180	4780	5430	3620	*4280	3500	9.20	
-3.00	*8340	*8340	*6970	*6970	*6970	*6970	*8510	6690	7180	4780			*5550	4020	8.45	
-4.50	*7150	*7150	*6810	*6810	*7350	*7350	*9700	6860					7640	5130	7.33	
-6.00					*8620	*8620							*8840	8140	5.58	

HD1430LC-7 BOOM: 6.48 m, ARM: 3.14 m, BUCKET: 1.4 m³ (1140 kg), SHOE WIDTH: 600 mm, COUNTERWEIGHT: 6,400 kg Unit: kg

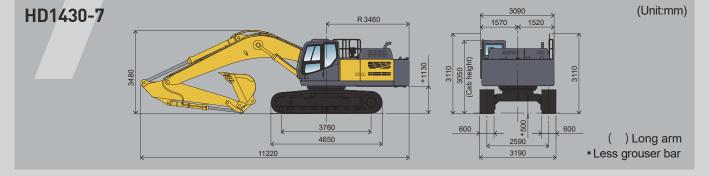
LIFT	LIFT POINT RADIUS A(m)												AT MAXIMUM		
POINT	1.5	50	3.	00	4.50 6		6.00 7.50		9.00		LIFT POINT RADIUS				
HEIGHT B(m)	b		B						ů		B		ů		RADIUS (m)
7.50									*4930	*4930			*3980	*3980	7.97
6.00									*5150	*5150	*2970	*2970	*2750	*2750	9.03
4.50									*5780	*5780	*5520	4240	*2770	*2770	9.56
3.00					*9130	*9130	*7970	7970	*6640	5600	*5960	4080	*2910	*2910	9.83
1.50					*7210	*7210	*9520	7460	*7540	5290	*6470	3910	*3160	*3160	9.86
0.00			*8150	*8150	*6890	*6890	*8610	7070	*8300	5050	6350	3780	*3580	3370	9.65
-1.50	*9280	*9280	*7420	*7420	*6870	*6870	*8240	6880	8330	4920	6290	3730	*4280	3610	9.20
-3.00	*8340	*8340	*6970	*6970	*6970	*6970	*8510	6670	8330	4920			*5550	4140	8.45
-4.50	*7150	*7150	*6810	*6810	*7350	*7350	*9700	7040					*8120	5270	7.33
-6.00					*8620	*8620							*8840	8340	5.58

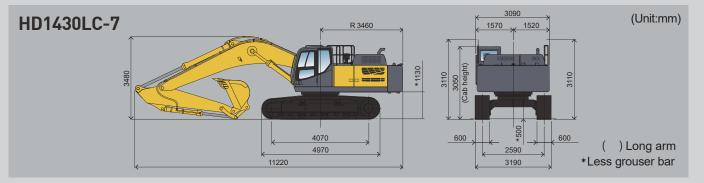
- 1. Lifting capacities are based on ISO 10567.
 2. Lifting capacities shown do not exceed 87% of machine hydraulic capacity or 75% of minimum tipping load.
 3. Capacities marked with an asterisk (*) are limited by hydraulic capacities.
 4. Lifting capacities are based on machine standing on firm, uniform 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

elements air filter

with intake stack





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