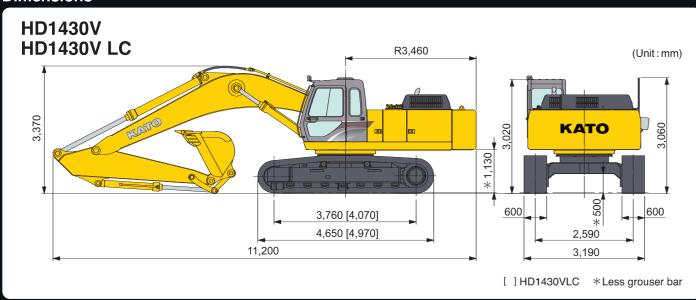
Innovations For The Future



Dimensions



Address inquiries to :

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





QUALITY & EXPERIENCE SINCE 1895

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Equipments



PROMINENT FEATURES



Powerful & Steady Operation

Arm Digging Force:

159kN (with High Power: 166kN) Bucket Digging Force:

224kN (with High Power: 235kN)



Advanced Noize Emission Control

Lower noise emission control adopting low noise exhaust muffler and advanced low noise hydraulic system offers fatigue-free and safer operation. Low noise means low energy-loss machine.



Responsible Emission Control and Lower Fuel Consumption

Mitsubishi 6M60-TLE3A 183kW/2,150min⁻¹

Technical Specifications

ENGINE

Model····· Mitsubishi 6M60-TLE3A, 4 cvcle intercooler turbo charged diesel engine Number of cylinders 6 Bore & Stroke 118mm X 115mm Total displacement······7.54 L Rated output······ 183kW/2,150min⁻¹ (249PS/2,150rpm)(ISO Net) Max. torque ······ 824N • m/1,800min-1 (84.0kgf · m/1,800rpm)(ISO Net) Combustion system Direct injection Specific fuel consumption ... 228g/kW-hour (168g/PS-hour) Cooling system······ Pressurized water circulated by a centrifugal pump with thermostat Lubrication system ······

Pressurized oil fed by a gear pump through full-flow and by-pass cartridge filter

Starter Electric, 24V-5kW
Generator Alternator, 24V-50A
Fuel Injection system Electrouic
Control Common rail type

Air cleaner Dry type filter

HYDRAULIC SYSTEM

Pumps.....

Variable double piston pump and gear pump controled by Automatic Power Control (APC) system.

Max. discharge flow······· 2×307 L/min⁻¹ Max. discharge pressure·······

31.4MPa (320kgf/cm²) pressure

Max. discharge pressure (travel circuit only).....

32.9MPa (335kgf/cm²)

Oil filtration

Full-flow filter with replaceable element,a drain cartridge filter,a pilot linefilter and a suction strainer

Control valves······

5+4 section multiple control valves (with one free service circuit)

Pilot pump····· Gear type
Oil cooler··· Finned tube, forced ventilation
Pressure relief valves······

Primary and secondary on each circuit

CAB & CONTROLS

Type······All weather sound suppressed, 1,000mm wide pressed steel cab mounted on 6 point viscourse mounting. Right hand levers······Controls the boom & bucket

Inner right hand lever
(with foot pedal)······· Controls the right
Inner left hand lever hand track
(with foot pedal)····· Controls the left hand

Left hand lever··· Controls the arm & swing Pilot control····· Travel, boom, arm, bucket and swing

Engine throttle Electric "Accell dial"

Meter & gauges Hour meter, water
temperature and fuel

Indicator lamps... Engine diagnosys lamp
Working lights......Provided on the boom
left side and mounted
on the frame

Lubrication chart Inside the tool box

APC200

- Quick Selection of Working Modes
- **P**: Professional Mode for heavy duty application (H Mode)
- A: All-around Multi Purpose 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 back up light
- Engine oil pressure
- Engine oil filter
- Hydraulic oil filter
- Engine Preheater
- Hydraulic oil temperature
- Water temperature
- Water level
- Fuel levelECU monitor
- Battery charge
- APC monitor and air cleaner
- Fuel water level
- Calendar

BOOM, ARM AND BUCKET

Boom cylinders······· Two, double acting
Bore & Stroke······ 150mm×1,450mm
Arm cylinder······ One, double acting
Bore & Stroke····· 170mm×1,840mm
Bucket cylinder····· One, double acting
Bore & Stroke····· 150mm×1,230mm
Lubrication····· Grease nipples, with
centralized greasing for
remote points
Bucket digging force··· 224kN (22,800kgf)
(High power)····· 235kN (24,000kgf)

Bucket digging force 224kN (22,800kgf)
(High power) 235kN (24,000kgf)
Arm digging force 159kN (16,200kgf)
(High power) 166kN (16,900kgf)
Note: High power can be used with STD arm and short arm.

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······ 10.0min⁻¹ (10.0rpm)
Tail swing radius·········· 3,460mm
Min. front swing radius······ 4,640mm

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··· 48 each side HD1430V 51 each side HD1430VLC

Roller 2 upper, 7 lower (8 for LC)
Track adjustment Grease cylinders

 $\mbox{with recoil springs} \\ \mbox{Lubrication} \cdots \mbox{Sealed-for-life rollers and} \\$

front idlers with floating seals
Travel speed······ High 0~5.7km/h

 $\label{low 0} Low~0{\sim}3.9 km/h$ Gradeability $\cdots\cdots 70\%~(35^\circ)$

Max. drawbar pull······ 270kN (27,500kgf) Ground clearance (less grouser bar) ···500mm

Track length······· 4,650mm HD1430V 4,970mm HD1430VLC

SERVICE DATA

Fuel tank 650 L

Cooling system 44 L

Engine oil 32 L

Track drives 2×4.0 L

Swing drive 11.6 L

Hydraulic oil tank
(level) 200 L
(system) 404 L

In standard figure, with the 3.14m arm,
600mm grouser shoes and 1.4m³ (ISO),
bucket.

Operating weight 31,000kg: HD1430V

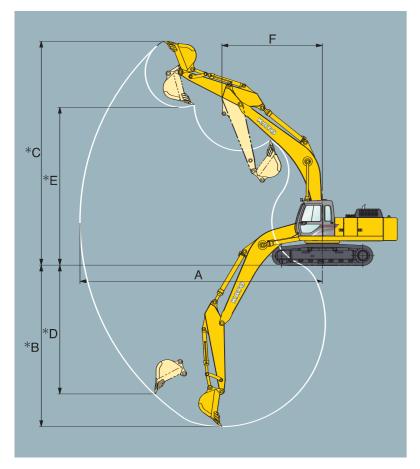
31,800kg: HD1430VLC

Ground pressure 62kPa: HD1430V

59kPa: HD1430VLC

 $oldsymbol{3}$

Working Ranges



			(Unit : mm)
Arm	Short Arm (2.46m)	STD Arm (3.14m)	Long Arm (4.14m)
A -Max. digging radius	10,600	11,180	12,070
* B -Max. digging depth	6,770	7,450	8,450
* C -Max. digging height	10,140	10,330	10,610
* D -Max. vertical wall	5,130	5,950	7,020
* E -Max. dumping height	7,110	7,280	7,570
F -Min. swing radius	4,950	4,640	4,680

*Less grouser bar.

Bucket

-	Type of bucket	Backhoe bucket										
Bucket capacity m³, ISO		1.1	1.4	1.6	1.8							
Bucket width with side cutters, mm		1,100	1,290	1,475	1,600							
		1,210	1,400	1,590	-							
Number of b	oucket teeth	4	5	6	6							
Short arm		•	•	•								
Standard boom +	Standard arm	•	•	•								
	Long arm	•	A	×	×							

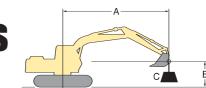
[●] General purpose ▲ Light work ◎ Rock digging □ Loading ○ Usable X Unusable

Track Shoes

Type of Sho	es		Flat shoe			
Shoe width	mm	600	700	800	914	760
Overall width mm		3,190	3,290	3,390	3,504	3,350
Ground pressure	HD-1430V	62 (0.63)	54 (0.55)	48 (0.49)	43 (0.44)	51 (0.52)
kPa (kgf/cm²)	HD-1430VLC	59 (0.60)	51 (0.52)	46 (0.47)	41 (0.42)	49 (0.50)
Net weight change kg	HD-1430V	S.T.D.	+330	+890	+1,590	+1,570
ivet weight change kg	HD-1430VLC	S.T.D.	+350	+950	+1,690	+1,670

OYellow colored area means standard.

Lifting Capacities



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

: OVER FRONT : OVER SIDE OR 360°

HD1430V 600mm Shoe. 6.48m Boom, 3.14m Arm, 1.4m3 Bucket (1,140kg)

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LIFT							LIFT PO	DINT R	ADIUS	A (n	n)						AT	MAXIM	UM
POINT	2.0	00	3.	00	4.	00	5.	00	6.0	00	7.	00	8.	00	9.	00	LIFT P	OINT R	ADIUS
HEIGHT	Я		Я		H		H		r ^h		H		П		Я		Я		RADIUS
B (m)			Ü								🗓				╽		U		(m)
6.00													*5.23	5.20					
5.00											*5.71	*5.71	*5.52	5.09	*4.97	4.04			
4.00							*8.06	*8.06	*7.00	*7.00	*6.34	6.23	*5.93	4.93	*5.70	3.96	*3.14	*3.14	9.60
3.00					*8.73	*8.73	*9.74	*9.74	*8.07	7.65	*7.06	5.96	*6.41	4.76	5.63	3.85	*3.26	*3.26	9.75
2.00						*7.77	*9.15	*9.15	*9.13	7.27	*7.79	5.71	6.72	4.59	5.52	3.74	*3.43	3.20	9.80
1.00						*7.67		*8.31	*10.05	6.95	8.12	5.49	6.56	4.44	5.41	3.64	*3.68	3.17	9.74
0.00			*8.03	*8.03		*7.71		*8.00	*9.43	6.73	7.94	5.32	6.43	4.32	5.33	3.57	*4.03	3.22	9.58
-1.00	*8.16			*8.82		*7.71		*7.92	*9.12	6.59	7.82	5.21	6.35	4.24	5.28	3.52	*4.52	3.35	9.30
-2.00	*10.29	*10.29	*8.27	*8.27		*7.67		*7.95	*9.12	6.53	7.76	5.16	6.31	4.21			*5.22	3.59	8.90
-3.00	*8.85			*7.90		*7.67		*8.10	*9.40	6.54	7.78	5.18	6.35	4.24			5.95	3.98	8.36
-4.00	*8.10			*7.70	*7.76	*7.76	*8.42	*8.42	10.04	6.64	7.88	5.27					6.90	4.64	7.65
-5.00	*7.73	*7.73	*7.69	*7.69		*8.06	*9.12		*9.95	6.83							*8.48	5.80	6.72
-6.00					*8.82	*8.82	*10.05	9.44									*8.97	8.31	5.44

HD1430VLC 600mm Shoe, 6.48m Boom, 3.14m Arm, 1.4m³ Bucket (1,140kg) LIFT POINT RADIUS A (m)

AT MAXIMUM

04E-75103000

POINT	2.00 3.00		00	4.	00	5.	00	6.0	00	7.	00	8.	00	9.0	00	LIFT P	OINT R	≀ADIU	
HEIGHT B (m)	ů		b		Ů						b		ů				b		RADI (m
6.00													*5.23	*5.23					
5.00											*5.71	*5.71	*5.52	5.21	*4.97	4.16			
4.00							*8.06	*8.06	*7.00	*7.00	*6.34	*6.34	*5.93	5.06	*5.70	4.07	*3.14	*3.14	9.
3.00						*8.73		*9.74	*8.07	7.83	*7.06	6.12	*6.41	4.89	*6.01	3.96	*3.26	*3.26	9.
2.00						*7.77	*9.15		*9.13	7.45	*7.79	5.86	*6.92	4.72	*6.35	3.85	*3.43	3.30	9.
1.00					*7.67			*8.31	*10.05	7.14	*8.45	5.64	*7.40	4.57	6.26	3.75	*3.68	3.27	9.
0.00			*8.03	*8.03		*7.71		*8.00	*9.43	6.91	*9.01	5.48	7.45	4.45	6.17	3.68	*4.03	3.32	9
	*8.16			*8.82		*7.71		*7.92	*9.12	6.77	9.09	5.36	7.36	4.37	6.13	3.63	*4.52	3.45	9
-2.00	*10.29			*8.27		*7.67		*7.95	*9.12	6.71	9.03	5.31	7.33	4.34			*5.22	3.70	8
-3.00	*8.85	*8.85		*7.90		*7.67	*8.10		*9.40	6.73	9.04	5.33	7.36	4.37			*6.29	4.11	8
-4.00	*8.10	*8.10		*7.70	*7.76	*7.76		*8.42	*10.10	6.82	*9.10	5.42					7.99	4.77	7
-5.00	*7.73	*7.73	*7.69	*7.69	*8.06	*8.06		*9.12	*9.95	7.02							*8.48	5.96	6
-6.00							*8.82	*8.82	*10.05	9.67							*8.97	8.52	5

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.

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 CO., LTD.

6. The operator should be fully acquainted with the operation manual before operating the machine.

Standard Equipments

- COLOR MONITOR DISPLAY (APC200)
- SEAT-BELT
- AUTOMATIC AIR CONDITIONER (PRESSURIZED)
- HOT & COOL BOX
- INTERMITTED WINDSHIELD WIPER
- EMERGENCY EXIT REAR WINDOW
- AM/FM RADIO (2 SPEAKERS) • 13 CM DUAL CORN SPEAKER X2
- CABIN LIGHT
- 3 STD WORKING LIGHTS (SLEWING TABLE-R, BOOM-L, CAB-L)
- REAR VIEW MIRROR-R
- REAR VIEW MIRROR-I
- WORKING MODE SELECTOR (APC200)
- AUTO-SLOW, ONE TOUCH SLOW
- BOOM/ARM ANTI-DRIFT VALVE
- SLEWING ANTI-COUNTER ACTION
- AUTOMATIC PARKING BRAKE (SLEWING TABLE)
- AUTOMATIC PARKING BRAKE (TRAVELING)
- SERVICE PORT (1 SPOOL)
- ENTRY SYSTEM
- TRACK GUARD (1 PD EACH SIDE)
- TRACK GUARD (3 PCS EACH SIDE): LC

Optional Equipments

- TRANSPARENT ROOF HATCH WITH SUN VISOR MULTI-LEVER
- WINDSHIELD HALF SIZE GUARD
- WINDSHIELD FULL SIZE GUARD
- CABIN HEAD GUARD
- ADDITIONAL ELECTRIC HORN
- ROOM FAN BUZZER TRAVELING
- FIRE EXTINGUISHER
- LOUD SPEAKER
- OPTIONAL WORKING LIGHT (BOOM-R)
- OPTIONAL WORKING LIGHT (CAB-R) UNDER COVER SLEWING TABLE (THICKER)
- 2 WAY OPTION PIPING (FOR CRUSHER & BREAKER)
- BOOSTING CIRCUIT FOR CRUSHER OPTION PIPING (FOR BREAKER)
- FLUSHER SLEWING
- ELECTRIC REFUELING PUMP
- AIR CLEANER DOUBLE ELEMENT
- PRF-CLEANER
- HOSE RUPTURE VALVE (FOR BOOM CYLINDERS)
- TRACK GUARD (3 PCS EACH SIDE)
- FULL-LENGTH TRACK GUARD
- TRAVELING MOTOR COVER (THICKER)
- COVER ON THE BOTTOM FACE OF TRAVELING FRAME
- ELECTRIC GREASE PUMP
- BMH PACKAGE
- REAR VIEW CAMERA AND MONITOR

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