

**KATO**

**SUPER  
EXCEED**

# HD 1430 III HD 1430 III-LC

**FULLY HYDRAULIC EXCAVATOR**

*Bucket capacity: 0.7m<sup>3</sup> - 1.8m<sup>3</sup> (ISO)*

*Engine output: 183kW/2,150min<sup>-1</sup>*

*(249PS/2,150rpm) (ISO Net)*

*Operating weight: 30,200kg (HD1430 III)/*

*31,100kg (HD1430 III-LC)*



**Powerful Machine  
Harmonized with Your**

**PHD**



# 1430III Demands



### *High Power & Speedy Operation*

Digging force Arm: 162 kN

Bucket: 223 kN

Improvement in slewing torque: 12 % up\*<sup>1</sup>

### *Reliable Undercarriage*

Heavy-duty track guard

Heavy-duty front idler support

Tough track-link & shoe plate

### *Fatigue Free & Comfortable Cabin*

Auto air conditioner

UV-cut glass

Mono piece big & wide side window

Wide range adjustable seating position

Anti-static-electricity fabric seat

### *Powerful New Engine*

Max. Output: 183 kW/2,150 min<sup>-1</sup>(ISO Net)

Max. Torque: 831 N·m/1,800 min<sup>-1</sup>(ISO Net)

Improvement in fuel consumption: up to 15 %\*<sup>1</sup>  
(general/H-mode)

### *Durable Cooling System*

High Performance radiator and aluminum oil cooler

Easy access for cleaning

**580 litter fuel tank, 18 hours continuous operation.\*<sup>2</sup>**

**Replacement Interval of Hydraulic Oil : 5000 hours**

\*<sup>1</sup> Based on the comparison with HD1430

\*<sup>2</sup> Depends on condition of machine and type of work.



# Technical Specifications



●Traveling motor with reduction

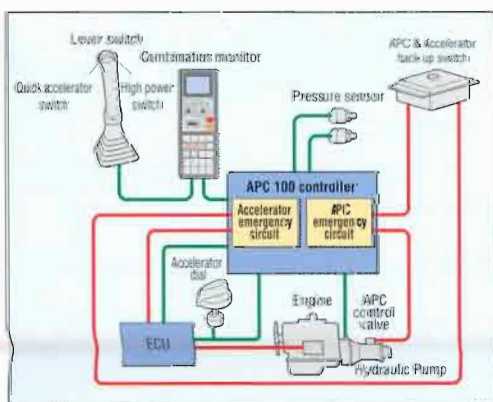


●Intercooler, Oil cooler, Radiator

●Fire wall



●Combination monitor



●"APC" system

## ENGINE

Model	Mitsubishi 6D16-TLE2A, 4 cycle intercooler turbo charged diesel engine
Number of cylinders	6
Bore & Stroke	118mm × 115mm
Total displacement	7.54 L
Rated output	183kW/2,150min <sup>-1</sup> (249PS/2,150rpm) (ISO Net)
Max. torque	831N·m/1,800min <sup>-1</sup> (84.7kgf·m/1,800rpm) (ISO Net)
Compression ratio	17.5:1
Combustion system	Direct injection
Specific fuel consumption	220g/kW-hour (162g/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-35A
Governor	Electric
Air cleaner	Dry type filter

## SWING SYSTEM

Drive	Axial piston motor with shockless valve and reduction gear.
Brake	A hydraulic brake that locks automatically when the swing brake 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 <sup>-1</sup> (10.0rpm)
Tail swing radius	3,460mm
Min. front swing radius	4,640mm

## 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	223kN (22,800kgf)
(High power)	233kN (23,900kgf)
Arm digging force	162kN (16,500kgf)
(High power)	170kN (17,300kgf)

Note: High power can be used with STD arm and short arm

## 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 HD1430III 51 each side HD1430III-LC
Roller .....	2 upper, 8 lower (9 for LC)
Track adjustment .....	Grease cylinders with recoil springs
Lubrication .....	Sealed-for-life rollers and front idlers with floating seals
Travel speed .....	High 0~5.5km/h Medium 0~3.7km/h Low 0~2.6km/h
Gradeability .....	70% (35°)
Max. drawbar pull .....	264.8kN (27,000kgf)
Ground clearance (less grouser bar) .....	500mm
Track length .....	4,640mm HD1430III 4,970mm HD1430III-LC

## HYDRAULIC SYSTEM

Pumps .....	Variable double piston pump and gear pump controlled by Automatic Power Control(APC)system.
Max. discharge flow .....	2×301 L/min <sup>1</sup>
Max. discharge pressure .....	31.4MPa (320kgf/cm <sup>2</sup> )
Max. discharge pressure (travel circuit only) .....	32.9MPa (335kgf/cm <sup>2</sup> )
Oil filtration .....	Full-flow filter with replaceable element, a drain cartridge filter, a pilot line filter 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

## SERVICE DATA

Fuel tank .....	580 L
Cooling system .....	36 L
Engine oil .....	32 L
Track drives .....	2×4.0 L
Swing drive .....	11.3 L
Hydraulic oil tank (level) .....	250 L
(system) .....	485 L
In standard figure, with the 3.14m arm, 600mm grouser shoes and 1.4m <sup>3</sup> (ISO) bucket.	
Operating weight .....	30,200kg:HD1430III 31,100kg:HD1430III-LC
Ground pressure .....	61kPa (0.62kgf/cm <sup>2</sup> ):HD1430III 58kPa (0.59kgf/cm <sup>2</sup> ):HD1430III-LC

## CAB & CONTROLS

Type .....	All weather sound suppressed, 1,000mm wide pressed steel cab mounted on 6 point viscouse mounting.
Right hand lever .....	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 lever .....	Controls the arm & swing
Pilot control .....	Travel, boom, arm, bucket and swing
Engine throttle .....	Electric "Accel dial"
Meter & gauges .....	Hour meter, water temperature and fuel level
Monitor display .....	Engine oil pressure, engine oil filter, hydraulic oil filter, hydraulic oil temperature, water temperature, water level, fuel level, battery charge, APC monitor and air cleaner.
Indicator lamps .....	Caution lamp & Engine preheater indicator lamp & Engine diagnosis lamp
Working lights .....	Provided on the boom left side and mounted on the frame
Lubrication chart .....	Inside the tool box

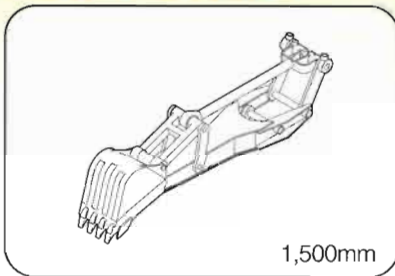


●Air conditioner control panel (option)



# Working Ranges

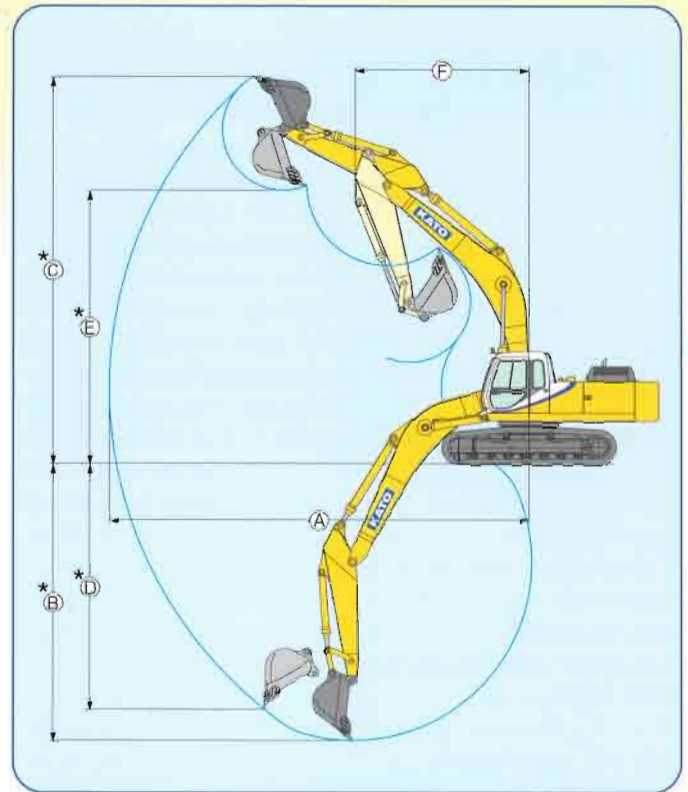
## Extension Arm



(Unit : mm)

Range	Arm	Short Arm (2.46m)	STD Arm (3.14m)	Long Arm (4.14m)
Ⓐ -Max. digging radius		10,600	11,180	12,070
*Ⓑ -Max. digging depth		6,720	7,400	8,400
*Ⓒ -Max. digging height		10,140	10,330	10,610
*Ⓓ -Max. vertical wall		5,740	6,560	7,480
*Ⓔ -Max. dumping height		7,110	7,280	7,570
Ⓕ -Min. swing radius		4,950	4,640	4,680

\*Less grouser bar.



## Bucket

Type of bucket		Backhoe bucket					Slope forming bucket	Rock bucket	Ripper	
Bucket capacity	m <sup>3</sup> , ISO	0.7	1.1	1.4	1.6	1.8	—	0.9	—	
Bucket width	w/o side cutters, mm	750	1,100	1,290	1,475	1,600	2,200 × 1,200	—	—	
	with side cutters, mm	860	1,210	1,400	1,590	—	—	970	—	
Bucket weight	kg	820	10,10	1,140	1,250	1,300	860	1,700	630	
Number of bucket teeth		3	4	5	6	6	—	5	1	
Shape of bucket										
Standard boom +	Short arm	●	●	●	●	□	○	○	●	
	Standard arm	●	●	●	▲	□	○	○	●	
	Long arm	●	●	▲	×	×	○	×	×	
	Extension arm	●	▲	×	×	×	▲	×	×	

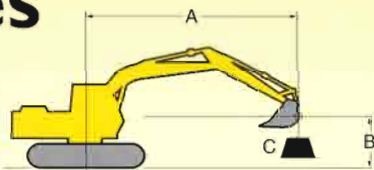
● General purpose ▲ Light work ○ Rock digging □ Loading ○ Usable × Unusable

## Track Shoes

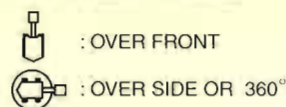
Type of shoes	Grouser shoe					Flat shoe
Shoe width	mm	600	700	800	914	760
Overall width	mm	3,200	3,300	3,400	3,510	3,360
Ground pressure kPa (kgf/cm <sup>2</sup> )	HD-1430III	61 (0.62)	53 (0.54)	47 (0.48)	42 (0.43)	51 (0.52)
	HD-1430III-LC	58 (0.59)	50 (0.51)	45 (0.46)	40 (0.41)	48 (0.49)
Net weight change	kg	S.T.D.	+330	+890	+1,590	+1,550
		S.T.D.	+350	+950	+1,690	+1,640

● Yellow colored area means standard.

# Lifting Capacities



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



**HD1430 III 600mm Shoe, 6.48m Boom, 3.14m Arm, 1.4m<sup>3</sup> Bucket (1,140kg)**

Unit: 1,000kg

LIFT POINT HEIGHT B (m)	LIFT POINT RADIUS A (m)																MAXIMUM LIFT POINT RADIUS				
	2.00		3.00		4.00		5.00		6.00		7.00		8.00		9.00		m	m	m		
	OVER FRONT	OVER SIDE OR 360°	OVER FRONT	OVER SIDE OR 360°	OVER FRONT	OVER SIDE OR 360°	OVER FRONT	OVER SIDE OR 360°	OVER FRONT	OVER SIDE OR 360°	OVER FRONT	OVER SIDE OR 360°	OVER FRONT	OVER SIDE OR 360°							
7.00														* 5.03	* 5.03			* 3.08	* 3.08	8.46	
6.00														* 5.27	5.11			* 3.03	* 3.03	8.98	
5.00											* 5.75	* 5.75	* 5.55	4.99	* 5.00	3.96	* 3.04	* 3.04	9.37		
4.00									* 7.01	* 7.01	* 6.37	6.11	* 5.96	4.83	5.59	3.87	* 3.10	* 3.10	9.63		
3.00					* 8.11	* 8.11	* 9.71	* 9.71	* 8.08	7.49	* 7.08	5.83	* 6.44	4.65	5.47	3.75	* 3.21	3.18	9.79		
2.00					* 7.03	* 7.03	* 8.46	* 8.46	* 9.13	7.09	* 7.80	5.57	6.52	4.47	5.34	3.64	* 3.39	3.08	9.84		
1.00					* 5.63	* 5.63	* 6.84	* 6.84	* 7.57	* 7.57	* 9.48	6.76	7.87	5.34	6.35	4.31	5.23	3.53	* 3.63	3.04	9.78
0.00					* 8.19	* 8.19	* 6.85	* 6.85	* 7.24	* 7.24	* 8.65	6.51	7.67	5.15	6.21	4.18	5.14	3.45	* 3.97	3.08	9.62
-1.00	* 8.25	* 8.25	* 7.66	* 7.66	* 6.85	* 6.85	* 7.14	* 7.14	* 8.32	6.36	7.53	5.03	6.11	4.09	5.08	3.39	* 4.44	3.19	9.35		
-2.00	* 8.86	* 8.86	* 7.27	* 7.27	* 6.84	* 6.84	* 7.16	* 7.16	* 8.29	6.29	7.46	4.97	6.07	4.05			5.11	3.41	8.96		
-3.00	* 7.75	* 7.75	* 6.99	* 6.99	* 6.85	* 6.85	* 7.30	* 7.30	* 8.53	6.29	7.47	4.97	6.09	4.07			5.65	3.78	8.43		
-4.00	* 7.16	* 7.16	* 6.85	* 6.85	* 6.96	* 6.96	* 7.59	* 7.59	* 9.15	6.37	7.56	5.05					6.52	4.39	7.73		
-5.00	* 6.88	* 6.88	* 6.87	* 6.87	* 7.24	* 7.24	* 8.21	* 8.21	9.84	6.55							8.10	5.46	6.81		
-6.00					* 7.91	* 7.91	* 9.73	9.06									* 8.94	7.73	5.56		

**HD1430 III-LC 600mm Shoe, 6.48m Boom, 3.14m Arm, 1.4m<sup>3</sup> Bucket (1,140kg)**

Unit: 1,000kg

LIFT POINT HEIGHT B (m)	LIFT POINT RADIUS A (m)																MAXIMUM LIFT POINT RADIUS				
	2.00		3.00		4.00		5.00		6.00		7.00		8.00		9.00		m	m	m		
	OVER FRONT	OVER SIDE OR 360°	OVER FRONT	OVER SIDE OR 360°	OVER FRONT	OVER SIDE OR 360°	OVER FRONT	OVER SIDE OR 360°	OVER FRONT	OVER SIDE OR 360°	OVER FRONT	OVER SIDE OR 360°	OVER FRONT	OVER SIDE OR 360°							
7.00														* 5.03	* 5.03			* 3.08	* 3.08	8.46	
6.00														* 5.27	5.25			* 3.03	* 3.03	8.98	
5.00											* 5.75	* 5.75	* 5.55	5.13	* 5.00	4.08	* 3.04	* 3.04	9.37		
4.00									* 7.01	* 7.01	* 6.37	6.27	* 5.96	4.97	* 5.73	3.99	* 3.10	* 3.10	9.63		
3.00					* 8.11	* 8.11	* 9.71	* 9.71	* 8.08	7.69	* 7.08	6.00	* 6.44	4.79	* 6.04	3.88	* 3.21	* 3.21	9.79		
2.00					* 7.03	* 7.03	* 8.46	* 8.46	* 9.13	7.29	* 7.80	5.73	* 6.94	4.61	6.19	3.76	* 3.39	3.19	9.84		
1.00					* 5.63	* 5.63	* 6.84	* 6.84	* 7.57	* 7.57	* 9.48	6.96	* 8.47	5.50	7.37	4.45	6.08	3.65	* 3.63	3.15	9.78
0.00					* 8.19	* 8.19	* 6.85	* 6.85	* 7.24	* 7.24	* 8.65	6.71	8.94	5.32	7.22	4.32	5.98	3.57	* 3.97	3.19	9.62
-1.00	* 8.25	* 8.25	* 7.66	* 7.66	* 6.85	* 6.85	* 7.14	* 7.14	* 8.32	6.56	8.80	5.20	7.12	4.23	5.93	3.52	* 4.44	3.31	9.35		
-2.00	* 8.86	* 8.86	* 7.27	* 7.27	* 6.84	* 6.84	* 7.16	* 7.16	* 8.29	6.49	8.73	5.14	7.08	4.19			* 5.12	3.54	8.96		
-3.00	* 7.75	* 7.75	* 6.99	* 6.99	* 6.85	* 6.85	* 7.30	* 7.30	* 8.53	6.49	8.73	5.14	7.10	4.21			* 6.16	3.91	8.43		
-4.00	* 7.16	* 7.16	* 6.85	* 6.85	* 6.96	* 6.96	* 7.59	* 7.59	* 9.15	6.57	8.82	5.22					7.60	4.53	7.73		
-5.00	* 6.88	* 6.88	* 6.87	* 6.87	* 7.24	* 7.24	* 8.21	* 8.21	* 10.07	6.76							* 8.46	5.63	6.81		
-6.00					* 7.91	* 7.91	* 9.73	9.32									* 8.94	7.95	5.56		

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

## Standard Equipment

- New APC mode
- New auto-slow • One-touch-slow
- Multi-mode display monitor
- Adjustable monitor alarm
- 2 service hour meter
- 3 traveling mode
- Automatic travel speed change
- Spring assisted pull-up front window
- 6 points viscous damping cab suspension
- Multi position operator's seat
- Adjustable seat suspension
- Adjustable speed window wiper
- Rear emergency escape window
- Cabin light connected to cabin door
- 2 working lights (Upper front right side & Boom left side)
- Boom holding valve
- Arm holding valve
- Digging force booster (High power)
- Swing shockless valve
- Automatic swing parking brake
- Automatic travel parking brake
- One free service circuit (without relief valve)
- Rear view mirror (right side)
- Track guard, 1 pc each side
- Track guard, 3 pcs each side (LC)
- Front window washer (2 sprays)
- Fire Wall

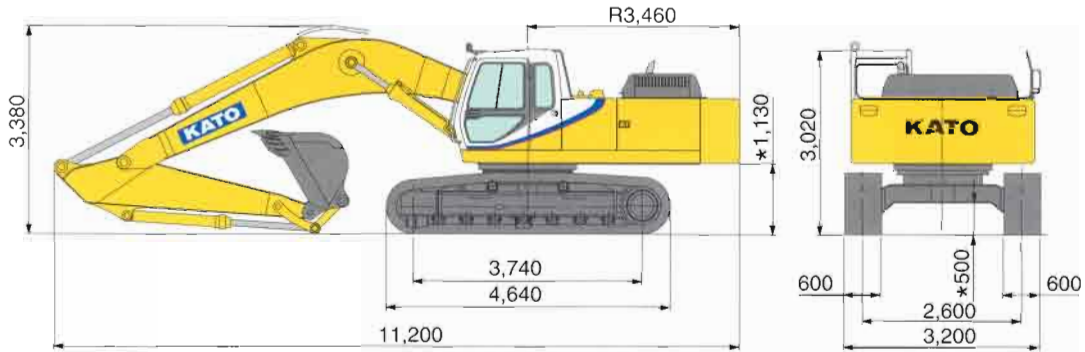
## Optional Equipment

- Tinted transparent hatch
- Seat belt
- Automatic climate control air conditioner
- Hot & cool box contained with AC
- Cabin heater
- Auto tuning AM/FM radio with clock
- 2 speaker stereo
- Working light (Cab left side)
- Working light (Boom right side)
- Working light (Cab right side)
- Cab access step
- Optional piping
- Cab front half guard
- Cab front full guard
- Cab head guard
- Electronic horn
- Cabin fan
- Swing warning light
- Travel alarm
- Refueling pump
- Air cleaner, double element
- Low temperature spec
- Tool set
- Track guard, 3 pcs each side
- BMH Package

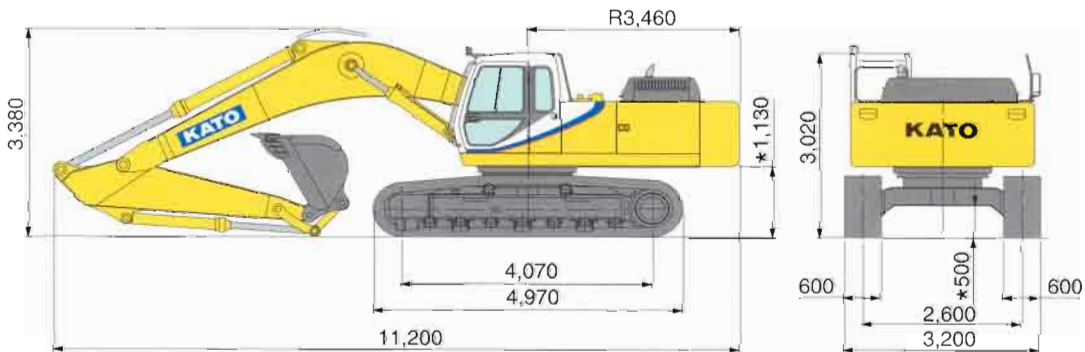
**Dimensions**

(Unit: mm)

**HD1430 III**



**HD1430 III-LC**



\*Less grouser bar

Address inquiries to

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



**KATO WORKS CO., LTD.**

Specifications subject to change without notice

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