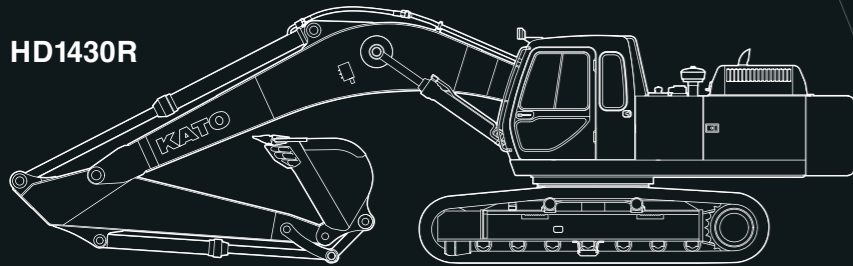


**Innovations
For The Future**

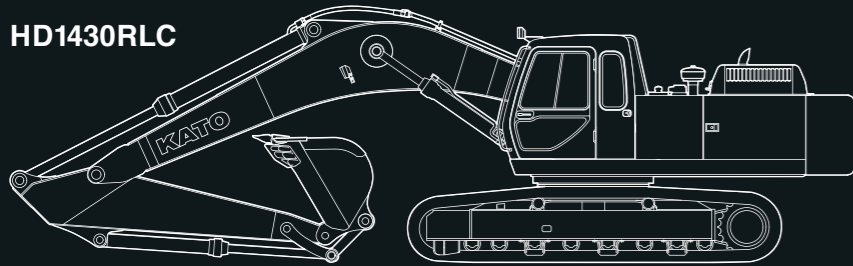
Eco & Tough



HD1430R



HD1430RLC



Address inquiries to :

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



KATO

**QUALITY & EXPERIENCE
SINCE 1895**

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KATO

REGZM

FULLY HYDRAULIC EXCAVATOR

HD1430R

Bucket capacity : 1.1m³ - 1.8m³(ISO)

Engine output : 183kW / 2,150min⁻¹(ISO Net)

Operating weight : 30,400kg(HD1430R)
31,200kg(HD1430RLC)





REGZAM

HD1430R

**REGZAM means "ACTIVE MACHINE"
with 5 essential design features**

- User friendly design
- Reliable Mitsubishi Engine (6D16-TLE2A)
- New APC Control
- Fatigue Free & Comfortable Cabin
- Powerful Operation

Equipment



New APC System

- Easily selectable 3 working modes with one-touch switches.

- Advanced TFT color monitor liquid crystal display.
- Back-light at touch switches
- 14 maintenance information available



P: Professional Mode
for heavy duty application

A: All-around Multi Purpose Mode
for all application

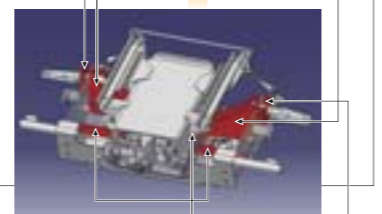
E: ECO Mode
for economical works

Less rolling seat



Durable Seat Suspension

- Less rolling motion of lever-consol & seat assures powerful & precise operations.



Reinforcement Reinforcement

Technical Specification

ENGINE

Model.....
Mitsubishi 6D16-TLE2A, 4 cycle 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..... 831N · m/1,800min⁻¹ (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-50A

Fuel Injection system..... Electronic Control Common rail type

Air cleaner..... Dry type filter

HYDRAULIC SYSTEM

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

Max. discharge flow..... 2X301 L/min⁻¹

Max. discharge pressure.....
31.4MPa (320kgf/cm²)

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 viscouse 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 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

Indicator lamps... Engine diagnosis lamp

Working lights.....Provided on the boom left side and mounted on the frame

Lubrication chart..... Inside the tool box

APC150

- 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 level
- Battery charge
- APC monitor and air cleaner
- Fuel water level
- Calendar

BOOM, ARM AND BUCKET

Boom cylinders..... Two, double acting

Bore & Stroke..... 150mm X 1,450mm

Arm cylinder..... One, double acting

Bore & Stroke..... 170mm X 1,840mm

Bucket cylinder..... One, double acting

Bore & Stroke..... 150mm X 1,230mm

Lubrication..... Grease nipples, and/or centralized greasing for remote points

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 shock-less 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 HD1430R
51 each side HD1430RLC

Roller..... 2 upper, 7 lower (8 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
Low 0~3.7km/h

Gradeability..... 70% (35°)

Max. drawbar pull.....264.8kN (27,000kgf)

Ground clearance (less grouser bar) ...500mm

Track length..... 4,650mm HD1430R
4,970mm HD1430RLC

SERVICE DATA

Fuel tank..... 580 L

Cooling system..... 37 L

Engine oil..... 32 L

Track drives..... 2 X 4.0 L

Swing drive.....11.6 L

Hydraulic oil tank

(level)..... 280 L (system).....485 L

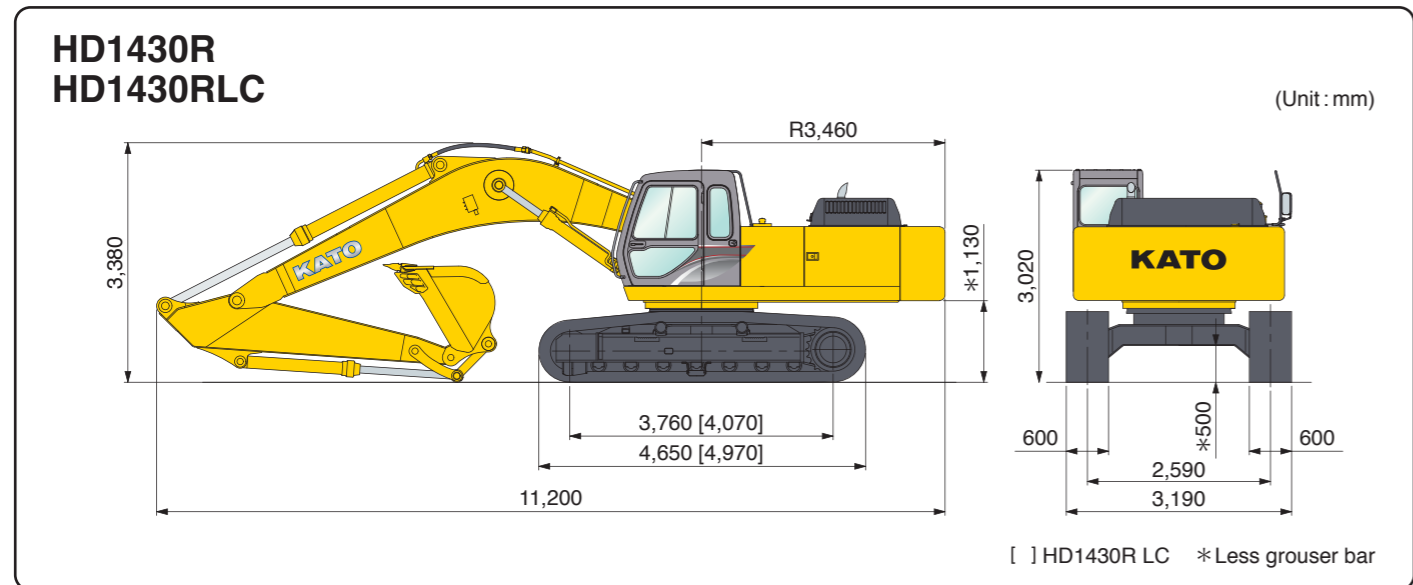
In standard figure, with the 3.14m arm, 600mm grouser shoes and 1.4m³ (ISO), bucket.

Operating weight..... 30,400kg: HD1430R
31,200kg: HD1430RLC

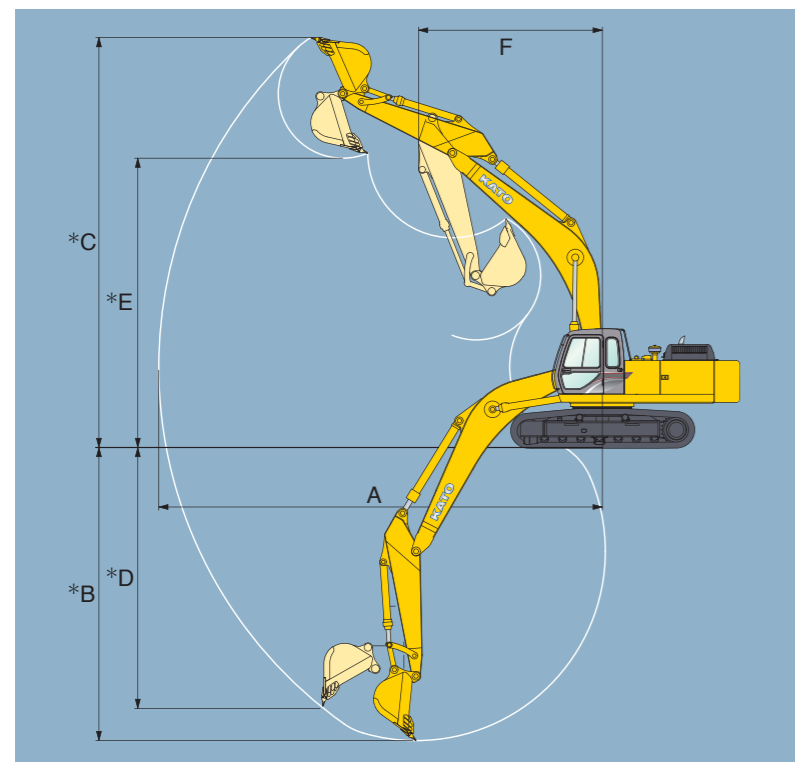
Ground pressure.....
61kPa (0.62kgf/cm²): HD1430R

58kPa (0.59kgf/cm²): HD1430RLC

Dimensions



Working Ranges



(Unit : mm)

Range	Arm		
	Short Arm (2.46m)	STD Arm (3.14m)	Long Arm (4.14m)
Ⓐ -Max. digging radius	10,600	11,190	12,070
* Ⓑ -Max. digging depth	6,720	7,400	8,400
* Ⓒ -Max. digging height	10,140	10,330	10,610
* Ⓓ -Max. vertical wall	5,120	5,950	6,850
* Ⓔ -Max. dumping height	7,100	7,280	7,570
Ⓕ -Min. swing radius	4,800	4,640	4,620

*Less grouser bar.

Bucket

Type of bucket		Backhoe bucket			
Bucket capacity	m ³ , ISO	1.1	1.4	1.6	1.8
Bucket width	w/o side cutters, mm	1,100	1,290	1,475	1,600
	with side cutters, mm	1,210	1,400	1,590	-
Number of bucket teeth		4	5	6	6
Standard boom +	Short arm	●	●	●	□
	Standard arm	●	●	▲	□
	Long arm	●	▲	×	×

● General purpose ▲ Light work □ Loading × Unusable
○ Yellow colored area means standard.

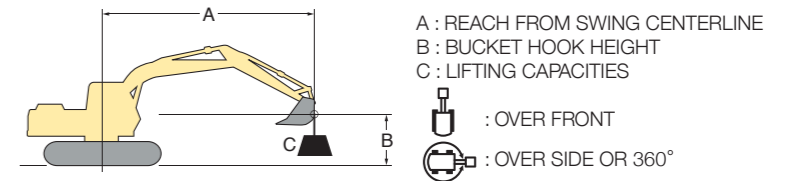
Track Shoes

Type of shoes	Grouser shoe				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 (kPa)		61 [58]	53 [50]	47 [45]	42 [40]	50 [48]
Net weight change (kg)		S.T.D.	+330 [+350]	+890 [+950]	+1,590 [+1,690]	+1,570 [+1,670]

○ Yellow colored area means standard.

[] HD1430RLC

Lifting Capacities



HD1430R 600mm Shoe, 6.48m Boom, 3.14m Arm, 1.4m³ Bucket (1,133kg) Unit: 1,000kg

LIFT POINT HEIGHT B (m)	LIFT POINT RADIUS A (m)														AT MAXIMUM LIFT POINT RADIUS				
	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	RADIUS (m)		RADIUS (m)		RADIUS (m)						
7.00																			
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-4.00																			
-5.00																			

12E-75102000

HD1430RLC 600mm Shoe, 6.48m Boom, 3.14m Arm, 1.4m³ Bucket (1,133kg) Unit: 1,000kg

LIFT POINT HEIGHT B (m)	LIFT POINT RADIUS A (m)														AT MAXIMUM LIFT POINT RADIUS				
	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	RADIUS (m)		RADIUS (m)		RADIUS (m)						
7.00																			
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12E-75103000

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 operation manual before operating the machine.

Standard Equipment

- COLOR MONITOR DISPLAY (APC150)
- AUTOMATIC AIR CONDITIONER (PRESSURIZED)
- HOT & COOL BOX
- INTERMITTENT 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
- WORKING MODE SELECTOR (APC150)
- 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)
- TRACK GUARD (1 PD EACH SIDE)
- TRACK GUARD (3 PCS EACH SIDE): LC

Optional Equipment

- SEAT-BELT
- TRANSPARENT ROOF HATCH WITH SUN VISOR
- WINDSHIELD HALF SIZE GUARD
- WINDSHIELD FULL SIZE GUARD
- CABIN HEAD GUARD
- ROOM FAN
- FIRE EXTINGUISHER
- OPTIONAL WORKING LIGHT (BOOM-R)
- OPTIONAL WORKING LIGHT (CAB-R)
- SLEWING TABLE UNDER COVER (THICKER)
- 2 WAY OPTION PIPING (FOR CRUSHER & BREAKER)
- BOOSTING CIRCUIT FOR CRUSHER
- OPTION PIPING (FOR BREAKER)
- ELECTRIC REFUELING PUMP
- AIR CLEANER DOUBLE ELEMENT
- PRE-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
- BMH PACKAGE