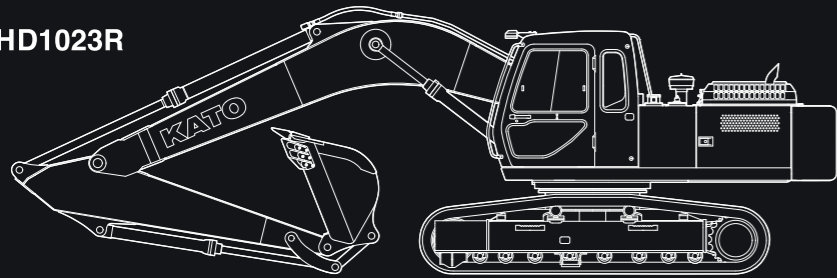


**Innovations
For The Future**

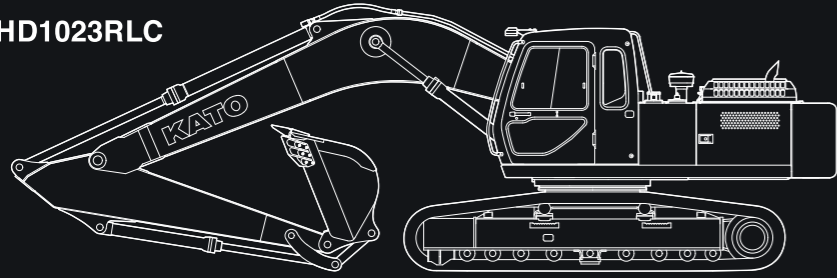
Eco & Tough



HD1023R



HD1023RLC



KATO

REGZM

FULLY HYDRAULIC EXCAVATOR

HD1023R

Bucket capacity : 0.55m³-1.5m³(ISO)
Engine output : 125kW / 2,100min⁻¹(ISO Net)
Operating weight : 23,000kg (HD1023R)
23,600kg (HD1023RLC)

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**

KATO WORKS CO.,LTD.

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Overseas Marketing Department Tokyo(03)3458-1115
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REGZAM

HD1023R

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

- User friendly design
- Reliable ISUZU Engine Mounted (6BG1)
- 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

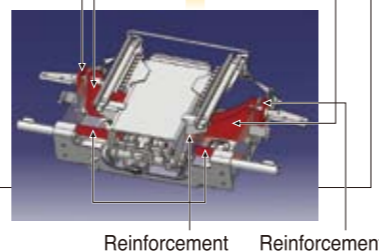
E: ECO Mode
for economical works

Less rolling seat



Durable Seat Suspension

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



Technical Specifications

ENGINE

Model..... ISUZU 6BGI, 4 cycle intercooler turbo charged diesel engine
 Number of cylinders..... 6
 Bore & Stroke..... 105mm X 125mm
 Total displacement..... 6.494 L
 Rated output..... 125kW/2,100min⁻¹ (170PS/2,100rpm)(ISO Net)
 Max. torque..... 637N·m/1,800min⁻¹ (65kgf·m/1,800rpm)(ISO Net)
 Compression ratio..... 18.0:1
 Combustion system..... Direct injection
 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-4.5kW
 Generator..... Alternator, 24V-50A
 Governor..... Mechanical
 Air cleaner..... Dry type filter

HYDRAULIC SYSTEM

Pumps..... Double variable piston pump and gear pump
 Max. discharge flow..... 2x247L/min
 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 line filter and a suction strainer
 Control valve..... 5+4 section multiple control valve (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 viscous 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 handtrack
 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.
 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
- Hydraulic oil filter
- Engine Preheater
- Hydraulic oil temperature
- Water temperature
- Water level
- Fuel level
- Battery charge
- Calendar

BOOM, ARM AND BUCKET

Boom cylinders..... Two, double acting
 Bore & Stroke..... 140mm X 1,370mm
 Arm cylinder..... One, double acting
 Bore & Stroke..... 150mm X 1,680mm
 Bucket cylinder..... One, double acting
 Bore & Stroke..... 130mm X 1,155mm
 Lubrication..... Grease nipples, with centralized greasing for remote points
 Bucket digging force..... 167kN (17,000kgf) (High power)..... 174kN (17,800kgf)
 Arm digging force..... 120kN (12,200kgf) (High power)..... 126kN (12,900kgf) (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..... 11.0min⁻¹
 Tail swing radius..... 2,940mm
 Min. front swing radius..... 3,880mm

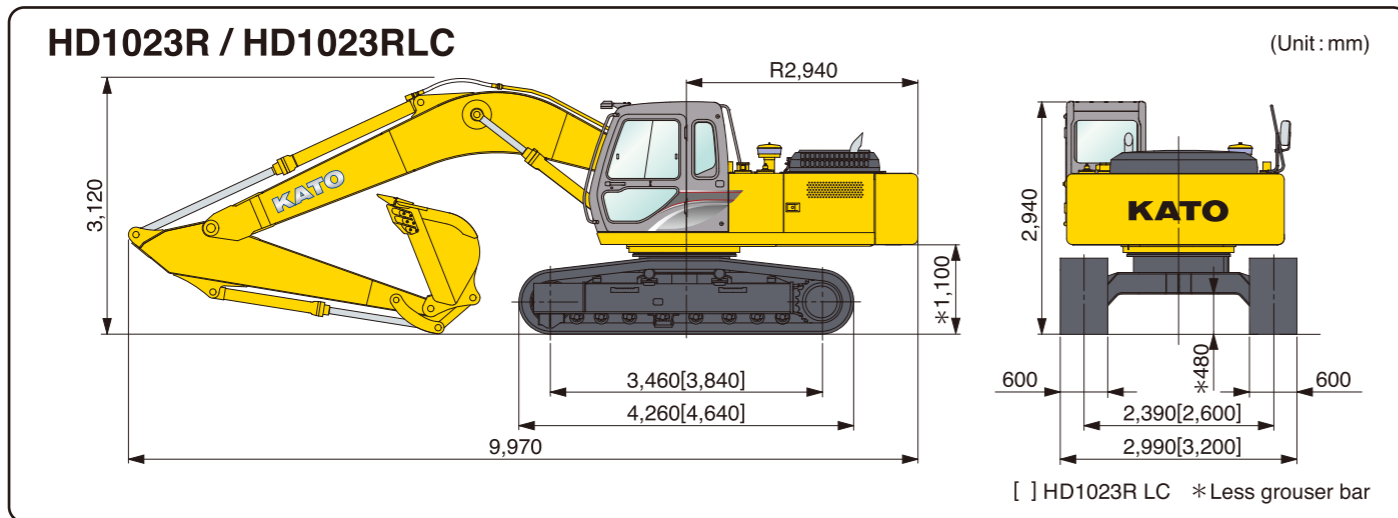
TRAVEL SYSTEM

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..... 47 each side HD1023R
 51 each side HD1023R 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 0~3.9km/h
 Gradeability..... 70% (35°)
 Max. drawbar pull..... 186.3kN (19,000kgf)
 Ground clearance..... 480mm (less grouser bar)
 Track length..... 4,260mm HD1023R
 4,640mm HD1023R LC

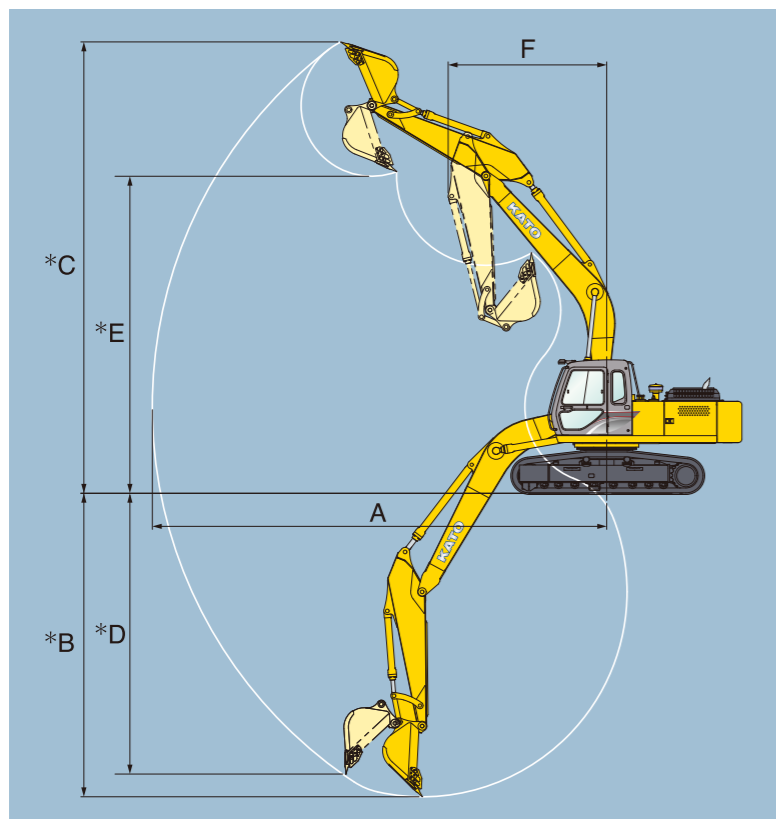
SERVICE DATA

Fuel tank..... 380 L
 Cooling system..... 24 L
 Engine oil..... 24 L
 Track drives..... 2 X 5.3 L
 Swing drive..... 11.3 L
 Hydraulic oil tank (level)..... 165 L
 (system)..... 290 L
 In standard figure, with the 2.96m arm, 600mm grouser shoes and 1.0m³ (LC: 1.1m³)ISO, bucket.
 Operating weight..... 23,000kg: HD1023R
 23,600kg: HD1023R LC
 Ground pressure..... 50kPa (0.5kgf/cm²): HD1023R
 47kPa (0.48kgf/cm²): HD1023R LC

Dimensions



Working Ranges



Range	Arm	Super Short Arm (1.9m)	Short Arm (2.47m)	STD Arm (2.96m)	Long Arm 3.95m
A : Max. digging radius		9,400	9,910	10,350	11,260
*B : Max. digging depth		5,950	6,520	7,010	8,010
*C : Max. digging height		9,600	9,880	10,060	10,500
*D : Max. vertical wall		5,100	5,750	6,250	7,190
*E : Max. dumping height		6,550	6,810	6,990	7,440
F : Min. swing radius		4,160	4,010	3,880	3,800

*Less grouser bar.

Bucket

Type of bucket		Backhoe bucket						
Bucket capacity m ³ , ISO		0.55	0.8	1.0	1.1	1.3	1.4	1.5
Bucket width	W/O side cutters, mm	800	950	1,170	1,220	1,400	1,490	1,580
	with side cutters, mm	915	1,065	1,285	1,335	1,515	—	—
Standard boom +	Short arm	●	●	●	●	▲	▲	□
	Standard arm	●	●	●	▲ [●]	▲	□	×
	Long arm	●	●	▲	□	×	×	×

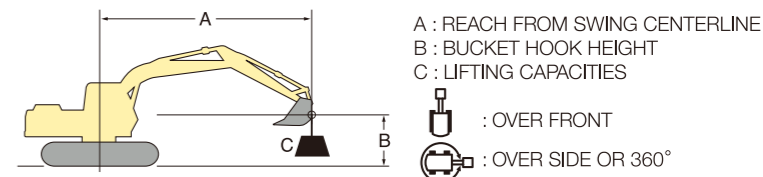
● General purpose ▲ Light work □ Loading ○ Usable × Unusable — No setting
 ○ Yellow colored area means standard.
 (HD1023R 1.0m³, HD1023R LC 1.1m³) * Super Short Arm: On demand basis.

Track Shoes

Type of shoes	Grouser shoe		
Shoe width mm	600	700	800
Overall width mm	2,990 [3,200]	3,090 [3,300]	3,190 [3,400]
Ground pressure (kPa)	50 [47]	43 [40]	38 [36.5]
Net weight change (kg)	S.T.D.	+280 [+300]	+540 [+590]

○ Yellow colored area means standard. [] HD1023R LC

Lifting Capacities



HD1023R BOOM: 5.87m, ARM: 2.96m, BUCKET: 1.0m³ (865kg), SHOE WIDTH: 600mm, COUNTERWEIGHT: 4,900kg 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	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	RADIUS (m)	RADIUS (m)	RADIUS (m)
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HD1023RLC BOOM: 5.87m, ARM: 2.96m, BUCKET: 1.1m³ (875kg), SHOE WIDTH: 600mm, COUNTERWEIGHT: 4,900kg 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	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	RADIUS (m)	RADIUS (m)	RADIUS (m)
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- 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)
- SEAT-BELT
- 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)
- AIR CLEANER DOUBLE ELEMENT
- PRE-CLEANER
- COVER ON THE BOTTOM FACE OF TRAVELING FRAME
- ROOM FAN
- HIGH PERFORMANCE FUEL FILTER

Optional Equipment

- TRANSPARENT ROOF HATCH WITH SUN VISOR
- OPTIONAL WORKING LIGHT (BOOM-R)
- OPTIONAL WORKING LIGHT (CAB-R)
- 2 WAY OPTION PIPING (FOR CRUSHER & BREAKER)
- OPTION PIPING (FOR BREAKER)
- WINDSHIELD HALF SIZE GUARD
- WINDSHIELD FULL SIZE GUARD
- CABIN HEAD GUARD
- ELECTRIC REFUELING PUMP