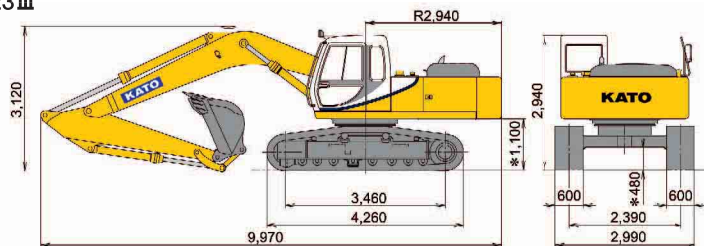


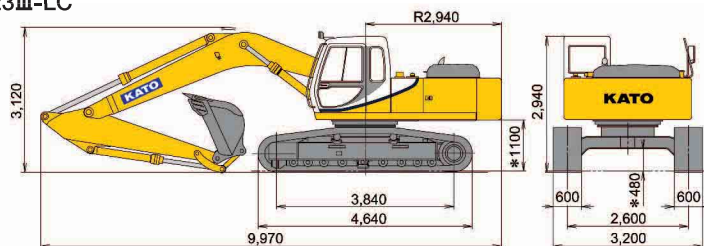
Dimensions

(Unit: mm)

HD1023Ⅲ



HD1023Ⅲ-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.



**QUALITY & EXPERIENCE
SINCE 1895**

KATO WORKS CO.,LTD.

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KATO

**SUPER
EXCEED**

**HD 1023Ⅲ
HD 1023Ⅲ-LC**

FULLY HYDRAULIC EXCAVATOR

Bucket capacity: 0.55m³ - 1.5m³(ISO)
Engine output: 125kW/2,150min⁻¹(ISO Net)
Operating weight: 23,000kg (HD1023Ⅲ)/
23,600kg (HD1023Ⅲ-LC)



Gentle with Nature, Gentle with you Try and Feel the New Epoch of Performance



Roomy and Comfortable Cabin

Auto air conditioner
UV cut glass
Ideal layout of each controlling gear
Mono piece big & wide side window
Anti-static-electricity fabric seat
Wide range adjustable seating position

Powerful Engine

Max Output: 125kW/2150min⁻¹(ISO Net)
with inter-cooler & turbo-charger

Low Noise Emission

102dB(A)*, sound power level

Low Engine Emission

Complying with the latest
emission control

Durable Cooling System

High performance radiator and
aluminum oil cooler
Easy access for cleaning.

Replacement Interval of Hydraulic Oil: 5,000 hours

*JIS Sound power level.

·Type K-version for demolition work

·Type C-version with crane hook

·Type H-version for heavy duty work

Technical Specifications

ENGINE

Model Mitsubishi 6D34-TLE2A, 4 cycle intercooler turbo charged diesel engine
 Number of cylinders 6
 Bore & Stroke 104mm × 115mm
 Total displacement 5.86 L
 Rated output 125kW/2,150min⁻¹ (170PS/2,150rpm) (ISO Net)
 Max. torque 620N·m/1,600min⁻¹ (63kgf·m/1,600rpm) (ISO Net)
 Compression ratio 18.2:1
 Combustion system Direct injection
 Specific fuel consumption 225g/kW-hour (165g/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 Mechanical
 Air cleaner Dry type filter

HYDRAULIC SYSTEM

Pumps Double variable piston pump and gear pump
 Max. discharge flow 2 × 247L/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



● Fire wall

CAB & CONTROLS

Type All weather sound suppressed, 1,000mm wide pressed steel cab mounted on 6 point viscourse 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
 Working lights Provided on the boom left side and mounted on the frame
 Lubrication chart Inside the tool box

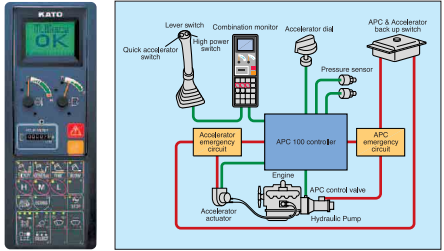


SWING SYSTEM

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

BOOM, ARM AND BUCKET

Boom cylinders Two, double acting
 Bore & Stroke 140mm × 1,370mm
 Arm cylinder One, double acting
 Bore & Stroke 150mm × 1,680mm
 Bucket cylinder One, double acting
 Bore & Stroke 130mm × 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)



● Combination monitor ● APC[®] system

SERVICE DATA

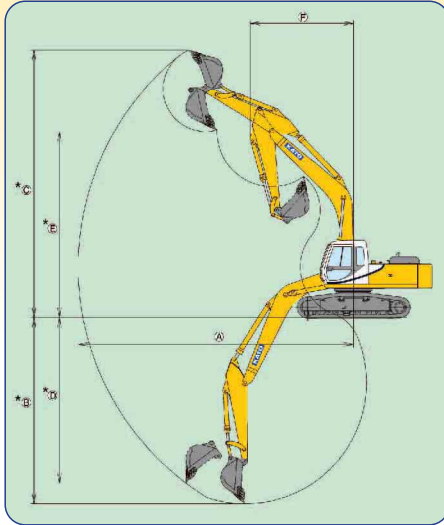
Fuel tank 380 L
 Cooling system 23 L
 Engine oil 22 L
 Track drives 2 × 3.3 L
 Swing drive 11.3 L
 Hydraulic oil tank (level) 165 L (system) 290 L
 In standard figure, with the 2.96m arm, 600mm grouser shoes and 1.0m³ (LC: 1.1m³) (ISO) bucket.
 Operating weight 23,000kg: HD1023III
 23,600kg: HD1023III-LC
 Ground pressure 50.0kPa (0.5kgf/cm²): HD1023III
 47.0kPa (0.48kgf/cm²): HD1023III-LC

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 HD1023III
 51 each side HD1023III-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 0~3.9km/h
 Low 0~2.7km/h
 Gradeability 70% (35°)
 Max. drawbar pull 186.3kN (19,000kgf)
 Ground clearance (less grouser bar) 480mm
 Track length 4,260mm HD1023III
 4,640mm HD1023III-LC



Working Ranges

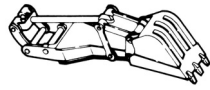


(Unit : mm)

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.

Extension Arm



1,500mm

Bucket

Type of bucket		Backhoe bucket							Dredging bucket	Slope forming bucket	Rock bucket	Ripper
Bucket capacity	m ³ , ISO	0,55	0,8	1,0	1,1	1,3	1,4	1,5	0,65	—	0,7	—
Bucket width	W/O side cutters, mm	800	950	1,170	1,220	1,400	1,490	1,580	2,400	2,000	760	—
	with side cutters, mm	915	1,065	1,285	1,335	1,515	—	—	45	1,250	—	—
Bucket weight	kg	580	725	865	875	950	950	1,030	770	990	1,080	450
Number of bucket teeth		4	4	5	5	5	5	5	2	—	5	1
Shape of bucket												
Standard boom +	short arm	●	●	●	●	▲	▲	□	●	○	○	○
	Standard arm	●	●	●	▲	▲	□	×	●	○	○	○
	Long arm	●	●	▲	□	□	×	×	▲	○	×	○
	Extension arm	●	▲	×	×	×	×	×	×	×	×	×

● General purpose ▲ Light work ○ Rock digging □ Loading ○ Usable × Unusable [] HD1023III-LC
 ● Yellow colored area means standard.

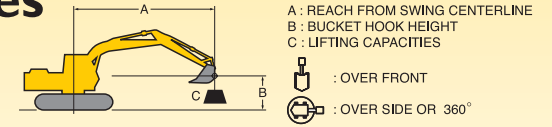
Track Shoes

Type of shoes		Grouser shoe			Flat shoe	Triangle shoe
Shoe width	mm	600	700	800	600	800
Overall width	mm	2,990	3,090	3,190	2,990	3,190
	mm	3,200	3,300	3,400	3,200	3,400
Ground pressure	kPa (kgf/cm ²)	50.0 (0.51)	43.0 (0.44)	38.0 (0.39)	52.0 (0.53)	39.5 (0.4)
		47.0 (0.48)	40.0 (0.41)	36.5 (0.37)	48.0 (0.49)	36.5 (0.37)
Net weight change	kg	+280	+540	+720	+540	+1,290
		+300	+590	+780	+780	+1,400

● Yellow colored area means standard.

Lifting Capacities

SUPEREXCEED HD1023III / HD1023III-LC



HD1023III 600mm Shoe, 5.87m Boom, 2.96m Arm, 1.0m³ Bucket (865kg)

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)
7.00	○	○	○	○	○	○	○	○	○	○	○	○
6.00												
5.00												
4.00												
3.00												
2.00												
1.00												
0.00												
-1.00												
-2.00												
-3.00												
-4.00												
-5.00												

HD1023III-LC 600mm Shoe, 5.87m Boom, 2.96m Arm, 1.1m³ Bucket (875kg)

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)
7.00	○	○	○	○	○	○	○	○	○	○	○	○
6.00												
5.00												
4.00												
3.00												
2.00												
1.00												
0.00												
-1.00												
-2.00												
-3.00												
-4.00												
-5.00												

- 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

- New APC mode
- Multi-mode display monitor
- Adjustable monitor alarm
- 2 service hour meter
- 3 travelling 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 for attachments
- Rear view mirror (right side)
- Track guard, 1 pc each side
- Front window washer (2 sprays)

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 dock
- 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