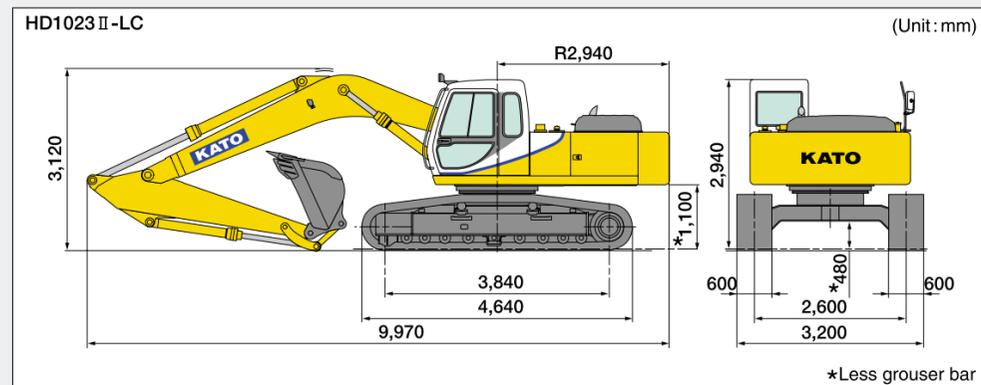
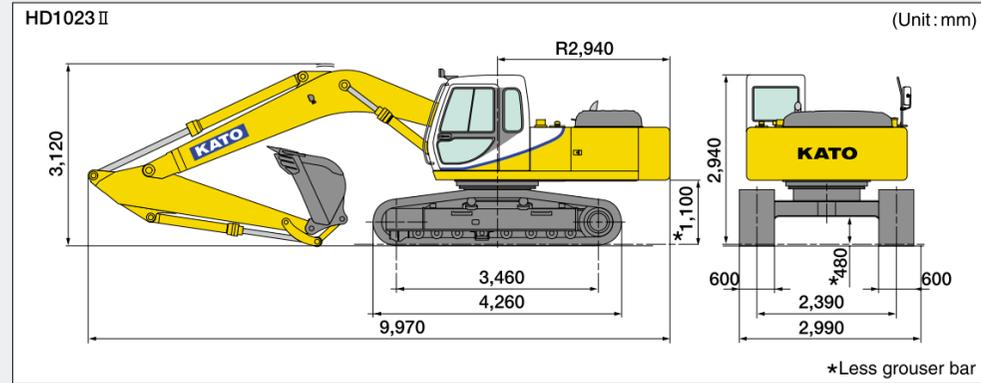


SUPER EXCEED

HD1023II

Dimensions



KATO

FULLY HYDRAULIC EXCAVATOR

SUPER EXCEED
HD1023II / HD1023II-LC
Special



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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Bucket capacity : 0.55m³ - 1.5m³ (ISO)
 Engine output : 125kW/2,150min⁻¹ (170PS/2,150rpm) (ISO, Net)
 Operating weight : 23,000kg (HD1023II)/23,600kg (HD1023II-LC)

The HD1023II excavator boldly debuts, boasting significant new advances!



Technical Specifications (HD1023II/HD1023II-LC)



ENGINE

Model Mitsubishi 6D34-TL, 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 598N·m/1,600min⁻¹ (61kgf·m/1,600rpm) (ISO, Net)
 Compression ratio 18.2:1
 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 Mechanical
 Air cleaner Dry type filter



●Radiator with dust screen ●Intercooler, Oil cooler, Radiator



SWING SYSTEM

The hydraulic gear-driven swing is powered by an axial piston motor with shockless valve that is flange-connected to a planetary reduction unit. It rotates 360° continuously on the single row-ball bearing that has an integral, internally cut swing gear, and is totally enclosed to prevent the ingress of mud and water.

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 (11.0rpm)
 Tail swing radius 2,940mm
 Min. front swing radius 3,880mm



TRAVEL SYSTEM

Spring-applied idlers protect the drives from shock. Adjust cylinder is provided for easy arrangement of the track tensioning. An all welded undercarriage frame gives clog-free clearance, and the drive motors are neatly housed inside the track frame. The crawler tracks with interchangeable shoes are supported by 8 lower rollers (9 lower rollers for HD1023 II-LC), 2 upper rollers and a guard plate on each side.
 Traveling motors 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 HD1023 II
 51 each side HD1023 II-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 HD1023 II
 4,640mm HD1023 II-LC



●Traveling motor with reduction



BOOM, ARM AND BUCKET

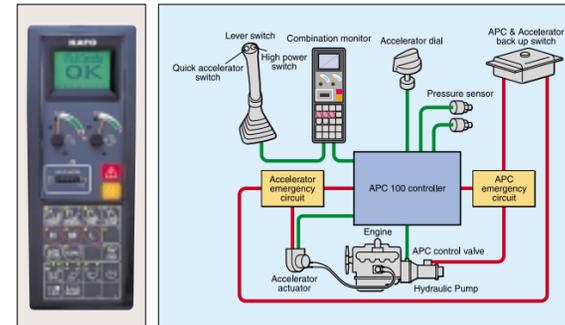
The boom and arm are of all-welded, steel box section type with reinforced pin joints. Bucket is fabricated from high tensile strength steel.

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)



HYDRAULIC SYSTEM

Two pumps are controlled by the Kato developed "APC" (Automatic Power Control) system, which senses where power is needed and automatically adjusts the pressure and flow-rate of the pump to match the work load. New "APC" system enables pump output to be utilized to the full with minimum fuel consumption. The adoption of joint circuit enables dual speed for boom derricking and arm extension/ retraction.
 Pumps Variable double piston pump and gear pump
 Max. discharge flow 2×247 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 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



●Combination monitor ●APC system



●Fire wall



●Air conditioner control panel (option)



REFILLING CAPACITY

Fuel tank 380 L
 Cooling system 25.5L
 Engine oil 22 L
 Track drives 2×3.3 L
 Swing drive 11.3 L
 Hydraulic oil tank (level) 165 L
 (system) 290 L



CAB & CONTROLS

The all-weather sound suppressed, 1,000mm wide pressed steel cab is six point viscous mounted and has plenty of leg room. All windows are made of tinted safety glass. The front window can be raised and slide back so that it fits flush with the ceiling to provide improved visibility and ventilation. The cloth-covered, fully adjustable seat is provided. Operating conditions can be seen at a glance on safety monitor.

Right hand lever Controls the boom & bucket
 Inner right hand lever (with foot pedal) Controls the right hand track
 Inner left hand drive (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



WEIGHT

In standard figure, with the 2.96m arm, 600mm grouser shoes and 1.0m³ (ISO) bucket.
 Operating weight 23,000kg:HD1023 II
 23,600kg:HD1023 II-LC
 Ground pressure 50.0kPa (0.51kgf/cm²):HD1023 II
 47.1kPa (0.48kgf/cm²):HD1023 II-LC

