The HD1023Ⅱ excavator boldly debuts, boasting significant new advances!
**Technical Specifications (HD1023II/HD1023II-LC)**

**ENGINE**
- Model: Mitsubishi 6D34-TL, 4 cylinder intercooler turbo charged diesel engine
- Number of cylinders: 4
- Bore & Stroke: 104mm X 115mm
- Total displacement: 5,86 L
- Rated output: 125kW/2,150rpm
- ISO Net: 5,600rpm
- Net:
  - Max, torqu: 59Nm/1,600rpm (61kW/1,600rpm)
- Compression ratio: 18.2:1
- Combustion system: Direct injection
- Specific fuel consumption: 230kg/100km
- ISU: 1,623l/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 bypass cartridge filter
- Starter: Electric, 24V, 5kW
- Generator: Alternator, 24V, 35A
- Governor: Mechanical
- Air cleaner: Dry type filter

**TRAVEL SYSTEM**
- Spring-applied idlers protect the drivers from shocks.
- 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 newly housed inside the track frame. The crawler tracks with interchangeable shoes are supported by 8 lower rollers (9 lower rollers for HD1023II-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 braking for each side, applied automatically when the travel levers are in the neutral position.
- Track shoes: 47 each side HD1023II, 51 each side HD1023II-LC
- Track adjustment: Grease cylinders with roller 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% (25°)
- Max, drawbar pull: 186,3kN (19,000kg)
- Ground clearance (less grader bar): 480mm
- Track length: 4,260mm HD1023II, 4,640mm HD1023II-LC

**HYDRAULIC SYSTEM**
- Two pumps are controlled by the Kato developed "APC" (Automatic Power Control) system, which serves 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 used to full with minimum fuel consumption. The adoption of joint circuit enables dual speed for boom derricing and arm extension/retrogradation.
- Pumps: Variable double piston pump and gear pump
- Max, discharge flow: 2X247 L/min
- Max, discharge pressure: 71.4MPa (7,000kgf/cm²)
- Max, discharge pressure (travel circuit only): 32.9MPa (335kgf/cm²)
- Oil filtration: Full-flow filter with replaceable element, a drain cartridge filter and a suction strainer
- Control valves: 5-4 section multiple control valves (with one tree service circuit)
- Pilot pump: Gear type
- Oil cooler: Finned type, forced ventilation
- Pressure relief valves: Primary and secondary on each circuit

**BOOM, ARM AND BUCKET**
- The boom and arm are all-welded, steel box section type with reinforced pin joints. Bucket is fabricated from high tensile strength steel.
- Boom cylinders: Two, double acting
- Arm cylinder: One, double acting
- Bucket cylinder: One, double acting
- Boom & Stroke: 140mm X 1,370mm
- Arm cylinder: 150mm X 1,680mm
- Bucket cylinder: 130mm X 1,125mm
- Lubrication: Grease nipples, with centralized greasing for remote points
- Bucket digging force: 167kN (17,000kgf)
- Arm digging force: 139kN (14,000kgf)
- (High power)
- Arm digging force: 128kN (13,000kgf)
- (High power can be used with STD arm and short arm)

**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 a safety monitor.
- Right hand lever: Controls the boom & bucket
- Inner right hand lever (with foot pedal): Controls the right hand track
- Left hand lever: Controls the arm & swing
- 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
- Indicator lamps: Worklighting (Provided on the boom and mounted on the frame)
- Lubrication chart: Inside the tool box

**REFILLING CAPACITY**
- Fuel tank: 380 L
- Cooling system: 25.9L
- Engines: 27 L
- Track drives: 2X3.9 L
- Swing drive: 11.3 L
- Hydraulic oil tank: 165 L
- (system): 290 L

**WEIGHT**
- In standard figure, with the 2.26m arm, 600mm grader shoes and 1.0m (38") bucket.
- Operating weight: 23,000kg HD1023II
- 23,600kg HD1023II-LC
- Ground pressure: 0.51kgf/cm² (38") HD1023II-LC
- 0.48kgf/cm² (38") HD1023II-LC