HD512E

Standard Equipment
- New APC mode
- New auto-slow - One-touch-slow
- Multi-mode display monitor
- Adjustable monitor alarm
- 3 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 & Room left side)
- Room holding valve
- Arm holding valve
- Digging force booster (High power)
- Swing shoulder valve
- Automatic swing parking brake
- Automatic travel parking brake
- One free service circuit for attachments
- Rear view mirror (right 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 clock
- 2 speaker stereo
- Working light (Cab left side)
- Working light (Room 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, 1 pc each side
- Track guard, 5 pcs each side

Dimensions

Bucket capacity: 0.25m³ - 0.60m³ (ISO)
Engine output: 68kW/2,200min⁻¹ (90PS/2,200rpm) (ISO, Net)
Operating weight: 11,900kg

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NOTICE: Illustrations may include optional equipment. KATO products and specifications are subject to improvements and changes without notice.
The HD512E excavator boldly debuts, boasting significant new advances!
Technical Specifications (HD512E)

ENGINE

- Model: Mitsubishi 4D34-T, 4-cylinder turbocharged diesel engine
- Number of cylinders: 4
- Bore & Stroke: 104mm x 115mm
- Total displacement: 3,911cc
- Rated output: 66kW/2,200rpm (ISO, Net)
- Max. torque: 353N·m/1,400rpm (ISO, Net)
- Compression ratio: 16.5:1
- Combustion system: Direct injection
- Cooling system: Pressurized water circuited 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

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.

BOOM, ARM AND BUTTLEC

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

- Boom cylinders: Two, double acting
- Bore & Stroke: 105mm x 1,080mm
- Arm cylinder: One, double acting
- Bore & Stroke: 120mm x 1,215mm
- Bucket cylinder: One, double acting
- Bore & Stroke: 95mm x 950mm
- Lubrication: Grease, grease for remote points
- Bucket digging force: 88.3KN (9,000kgf)
- (High power): 98,1KN (10,000kgf)
- Arm digging force: 63.7KN (6,500kgf)
- (High power): 70.6KN (7,200kgf)
- (High power can be used with STD arm only)

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 dog-free clearance, and the drive motors are neatly housed inside the track frame. The crawler tracks with interchangeable shoes are supported by 7 lower rollers and 1 upper roller on each side.
- Traveling motors: Independent axial piston motor with reduction for each side.
- Brakes: Independent disk parking brakes for each side, applied automatically when the travel levers are in the neutral position.
- Track shoes: 44 each side
- Track adjustment: Grease cylinders with recoil springs
- Lubrication: Sealed-for-life roller and front idlers with teflon seals
- Travel speed: High 0-5.5km/h, Medium 0-3.5km/h, Low 0-2.5km/h
- Gradeability: 70\% (35\"")
- Max. drawbar pull: 91.2KN (9,000kgf)
- Ground clearance (less greaser bar): 440mm
- Track length: 3,590mm

HYDRAULIC SYSTEM

Two pumps are controlled by the Kata 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 extending and arm extension/retraction.
- Pumps: Variable double piston pump and gear pump
- Max. discharge flow: 2X120 L/min
- Max. discharge pressure: 29.4MPa (300kgf/cm²)
- Control valves: 3-4-4 section multiple control valves (with service port)
- Pilot pump: Gear type
- Oil cooler: Finned tube, forced ventilation
- Pressure relief valves: Primary and secondary on each circuit

REFILLING CAPACITY

- Fuel tank: 250 L
- Engine oil: 17 L
- Track drives: 2X30 L
- Swing drive: 2.5 L
- Hydraulic oil tank: 74 L (system)
- Lubrication chart: Inside the tool box

WEIGHT

- In standard figure, with the 2.5m arm, 500mm grouser shoes and 0.5m² (ISO) bucket
- Operating weight: 11,900kg
- Ground pressure: 37.3kPa (0.38kgf/cm²)

CAR & CONTROLS

The all-weather sound suppressed, 1,000mm wide pressed steel cab is sleek and finished in a variety of colors and has plenty of leg room. All windows are made of tinted safety glass. The front window can be raised and side back so that it lifts 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 digital meter. Electric "Cord-dial" meter and gauge: 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.
- Indicators lamp: Caution lamp & Engine preheater
- Indicators: Working lights: Provided on the boom left side and mounted on the frame
- Lubrication chart: Inside the tool box

![Diagram of HD512E specifications](image-url)