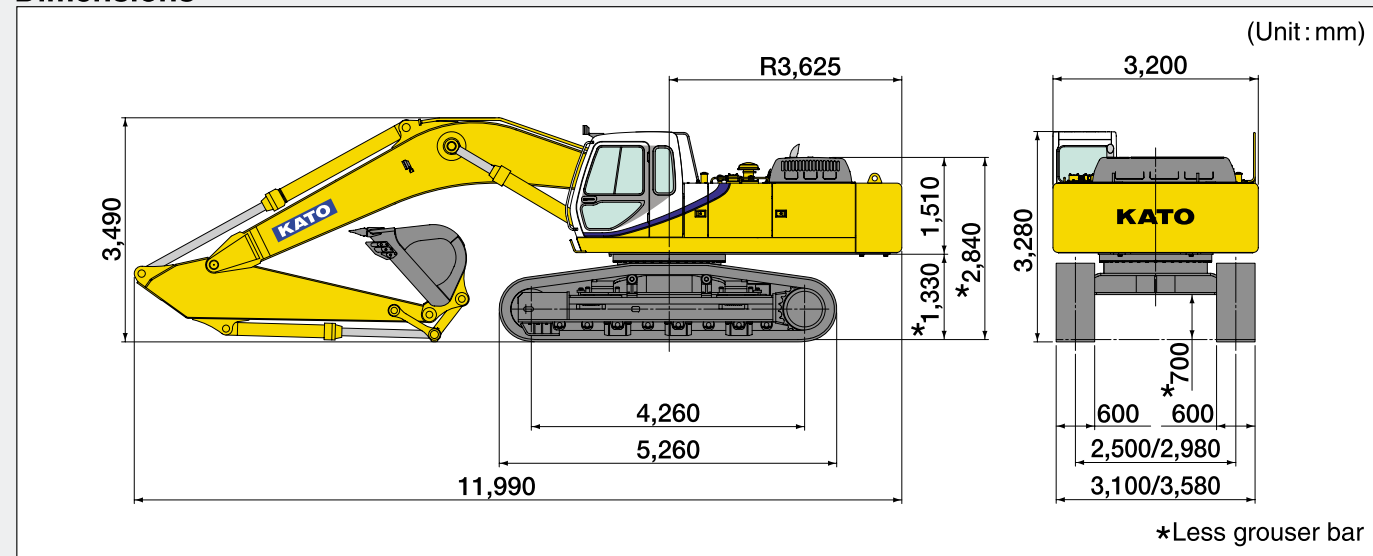


SUPER EXCEED

HD2045II

Dimensions



KATO

FULLY HYDRAULIC EXCAVATOR

SUPER EXCEED

HD2045II
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 : 1.4m³ - 2.3m³ (ISO)
Engine output : 228kW/2,000min⁻¹ (310PS/2,000rpm) (ISO, Net)
Operating weight : 46,200kg

***The HD2045II excavator boldly debuts,
boasting significant new advances!***



Technical Specifications (HD2045II)



ENGINE

ModelMitsubishi 6D24-TC, 4 cycle intercooler turbo charged diesel engine

Number of cylinders 6

Bore & Stroke 130mm × 150mm

Total displacement 11.94 L

Rated output 228kW/2,000min⁻¹ (310PS/2,000rpm)
(ISO, Net)

Max. torque1,187N·m/1,400min⁻¹ (121kgf·m/1,400rpm)
(ISO, Net)

Compression ratio 16.5:1

Combustion systemDirect injection

Specific fuel consumption 245g/kW-hour
(180g/PS-hour)

Cooling systemPressurized water circulated by a centrifugal pump with thermostat

Lubrication systemPressurized oil fed by a gear pump through full-flow and by-pass cartridge filter

Starter.....Electric, 24V-5.5kW

Generator.....Alternator, 24V-35A

GovernorMechanical

Air cleaner.....Dry type filter



SWING SYSTEM

The hydraulic gear-driven swing is powered by two axial piston motors which are flange-connected to each 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.

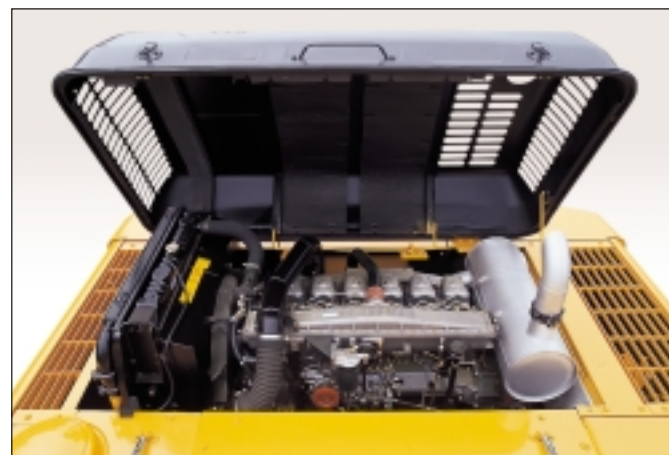
Brake..... A hydraulic brake that locks automatically when the swing control lever is in the neutral position and a mechanical parking brake which is applied when the safety lock lever is pulled backwards, the engine is turned off or the swing control lever is in the neutral position.

Lubrication Completely housed and grease bathed

Max. swing speed 9.1min⁻¹(9.1rpm)

Tail swing radius 3,625mm

Min. front swing radius 4,860mm



●Engine room (Equipped with air conditioner-option)



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 and 2 upper roller on each side.

Traveling motors Independent axial piston motor with reduction for each side

BrakesIndependent disk parking brake for each side, applied automatically when the travel levers are in the neutral position.

Track shoes 51 each side

Track adjustment Grease cylinders with recoil springs

Lubrication Sealed-for-life rollers and front idlers with floating seals

Travel speed..... High 0~5.0km/h
Medium 0~3.0km/h
Low 0~2.2km/h

Gradeability 70% (35°)

Max. drawbar pull 392kN (40,000kgf)

Ground clearance (less grouser bar) 700mm

Track length 5,260mm



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 180mm × 1,683mm

Arm cylinder..... One, double acting

Bore & Stroke 190mm × 1,990mm

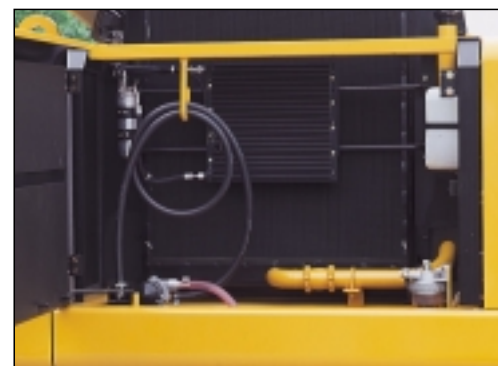
Bucket cylinder..... One, double acting

Bore & Stroke 170mm × 1,278mm

Lubrication Grease nipples, with centralized greasing for remote points

Bucket digging force 247kN (25,200kgf)
(High power) 276kN (28,100kgf)

Arm digging force 184kN (18,800kgf)
(High power) 216kN (22,000kgf)
(High power can be used with STD arm and short arm.)



●Radiator with dust screen



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.

PumpsDouble variable piston pump and gear pump

Max. discharge flow 2×370 L/min⁻¹

Max. discharge pressure 24.9MPa (300kgf/cm²)

Max. discharge pressure (travel circuit only) 30.9MPa (315kgf/cm²)

Oil filtrationFull-flow filter with replaceable element, a drain cartridge filter,a pilot line filter and a suction strainer

Control valves 5+5 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



REFILLING CAPACITY

Fuel tank 605 L

Cooling system 51 L

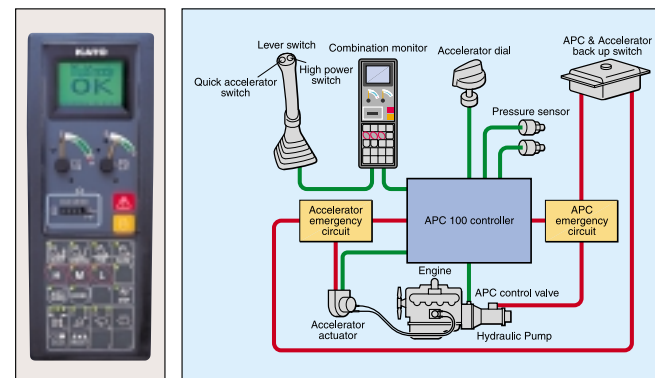
Engine oil 49 L

Track drives 2×23 L

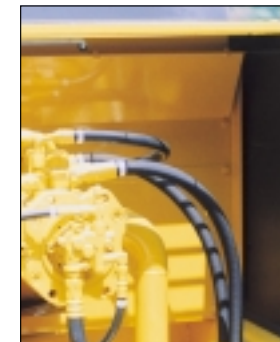
Swing drives 2×11.3 L

Hydraulic oil tank (level) 329 L

(system) 610 L



●Combination monitor ●"APC" system



●Fire wall



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 3.45m arm, 600mm grouser shoes and 2.0m³ (ISO) bucket.

Operating weight 46,200kg

Ground pressure 81.9kPa (0.84kgf/cm²)



●Air conditioner control panel (option)



