

KATO

**SUPER
EXCEED**

HD512III

FULLY HYDRAULIC EXCAVATOR

*Bucket capacity: 0.25m³ - 0.60m³ (ISO)
Engine output: 68kW/2,050min⁻¹ (ISO Net)
Operating weight: 12,100kg*



Gentle with Nature, Gen Try and Feel the New Ep



tle with you och of Performance



Roomy and Comfortable Cabin

- Auto air conditioner (option)
- 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: 68kW/2,050min-1(ISO Net)
with inter-cooler & turbo-charger

Low Noise Emission

100dB(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.

Technical Specifications

ENGINE

Model	Mitsubishi 4D34-TLE2A, 4 cycle turbo charged diesel engine
Number of cylinders	4
Bore & Stroke	104mm × 115mm
Total displacement	3.91 L
Rated output	68kW/2,050min ⁻¹ (ISO Net)
Max. torque	360N·m/1,600min ⁻¹ (ISO Net)
Compression ratio	16.5:1
Combustion system	Direct injection
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-50A
Governor	Mechanical
Air cleaner	Dry type filter

HYDRAULIC SYSTEM

Pumps	Double variable piston pump and gear pump
Max. discharge flow	2×121L/min
Max. discharge pressure	29.4MPa
Max. discharge pressure (travel circuit only)	32.9MPa
Oil filtration	Full-flow filter with replaceable element, a drain cartridge filter, a pilot line filter and a suction strainer
Control valve	3+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

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



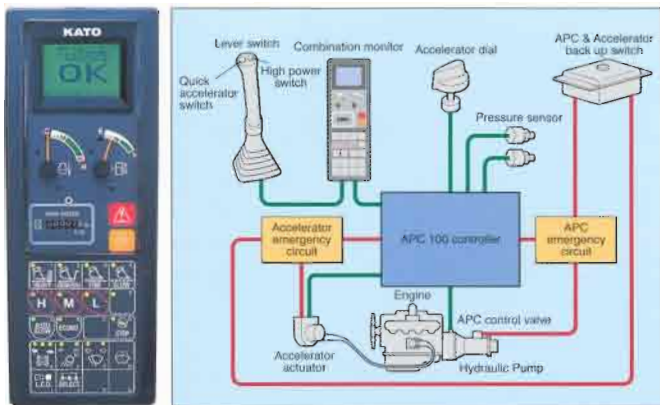
●Option specification

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 12.5min⁻¹
- Tail swing radius 2,120mm
- Min. front swing radius 2,390mm

BOOM, ARM AND BUCKET

- Boom cylinders Two, double acting
- Bore & Stroke 105mm × 1,080mm
- Arm cylinder One, double acting
- Bore & Stroke 120mm × 1,215mm
- Bucket cylinder One, double acting
- Bore & Stroke 95mm × 995mm
- Lubrication Grease nipples, with centralized greasing for remote points
- Bucket digging force 88kN
- (High power) 98kN
- Arm digging force 64kN
- (High power) 71kN
- (High power can be used with STD arm and short arm)



- Combination monitor
- "APC" system



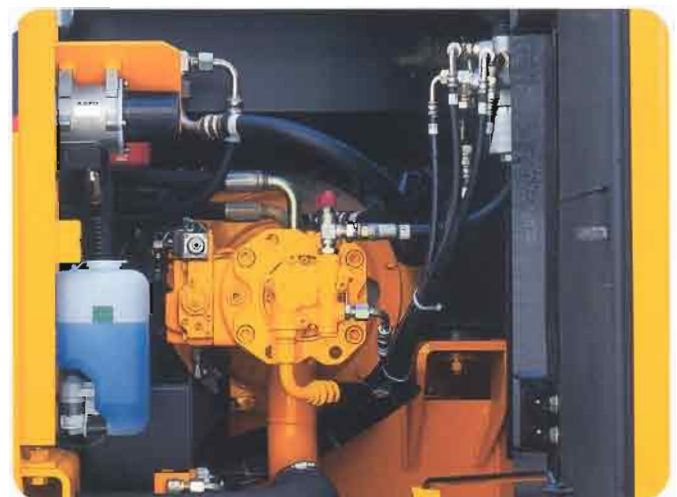
- Air conditioner control panel (option)

SERVICE DATA

- Fuel tank 275 L
- Cooling system 18 L
- Engine oil 17 L
- Track drives 2 × 2.5 L
- Swing drive 2.5 L
- Hydraulic oil tank (level) 74 L
- (system) 155 L
- In standard figure, with the 2.5m arm, 500mm grouser shoes and 0.50m³(ISO) bucket.
- Operating weight 12,100kg
- Ground pressure 38kPa

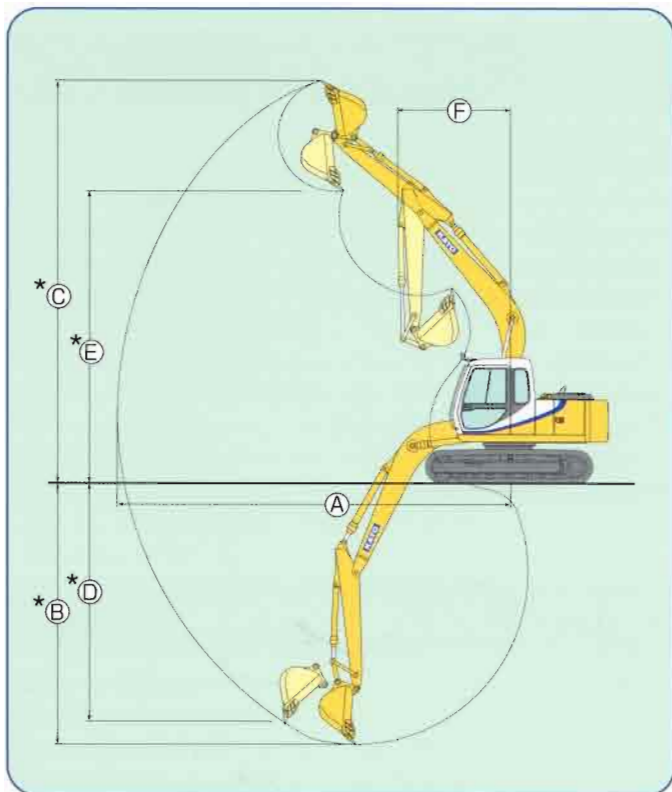
TRAVEL SYSTEM

- 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 44 each side
- Track adjustment Grease cylinders with recoil springs
- Lubrication Sealed-for-life rollers and front idlers with floating seals
- Travel speed High 0~5.5km/h
- Medium 0~3.5km/h
- Low 0~2.5km/h
- Gradeability 70% (35°)
- Max. drawbar pull 100kN
- Ground clearance (less grouser bar) 440mm
- Track length 3,590mm



- Fire wall

Working Ranges







(Unit : mm)

Range	Arm	Short Arm (2.1m)	STD Arm (2.5m)	Long Arm (3.0m)
(A)-Max. digging radius		7,930	8,300	8,760
* (B)-Max. digging depth		5,220	5,620	6,130
* (C)-Max. digging height		8,380	8,610	8,870
* (D)-Max. vertical wall		4,670	5,070	5,470
* (E)-Max. dumping height		6,010	6,240	6,520
(F)-Min. swing radius		2,410	2,390	2,470






* Less grouser bar.

Bucket

Type of bucket		Backhoe bucket							Slope forming bucket
Bucket capacity	m ³ , ISO	0.25	0.35	0.40	0.45	0.50	0.55	0.60	—
Bucket width	W/O side cutters, mm	540	695	785	875	910	1,000	1,090	1,800
	with side cutters, mm	630	785	875	965	1,000	1,090	1,180	1,000
Bucket weight	kg	290	340	370	380	420	440	460	620
Number of bucket teeth		3	4	4	4	5	5	5	—
Shape of bucket									
Standard boom +	short arm	●	●	●	●	●	●	□	○
	Standard arm	●	●	●	●	●	▲	□	○
	Long arm	●	●	●	▲	*▲	×	×	○
	Extension arm(1,000mm)	●	▲	×	×	×	×	×	×

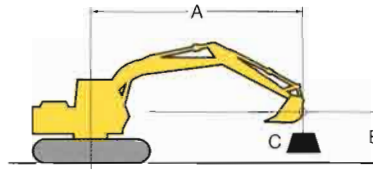
● General purpose ▲ Light work □ Loading ○ Usable × Unusable *Usable only when 700mm shoe is fitted on.
● Yellow colored area means standard.

Track Shoes

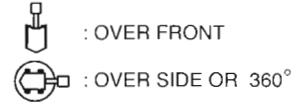
Type of shoes	Grouser shoe			Flat shoe	Triangle shoe	
						
Shoe width	mm	500	600	700	500	700
Overall width	mm	2,490	2,590	2,690	2,490	2,690
Ground pressure	kPa	38	32	28	39	28
Net weight change	kg	S.T.D	+180	+480	+420	+460

● Yellow colored area means standard.

Lifting Capacities



A : REACH FROM SWING CENTERLINE
 B : BUCKET HOOK HEIGHT
 C : LIFTING CAPACITIES



HD512III 500mm Shoe, 4.65m Boom, 2.50m Arm, 0.50m³ Bucket (415kg)

Unit: 1,000kg

LAOD POINT HEIGHT B(m)	OUTREACH A m												RATING AT MAXIMUM REACH			
	2.00		3.00		4.00		5.00		6.00		7.00		m			
7.00																
6.00																
5.00							* 2.15	* 2.15	* 2.35	1.92						
4.00							* 2.42	* 2.42	* 2.45	1.90			* 1.47	1.44	6.89	
3.00			* 3.75	* 3.75	* 3.15	* 3.15	* 2.84	2.53	2.66	1.84	2.01	1.37	* 1.49	1.30	7.18	
2.00			* 5.53	5.47	* 4.05	3.44	* 3.36	2.40	2.58	1.77	1.98	1.33	* 1.55	1.22	7.32	
1.00			* 5.12	5.04	4.89	3.22	3.38	2.28	2.51	1.70	1.94	1.30	* 1.65	1.19	7.33	
0.00	* 2.99	* 2.99	* 4.86	4.81	4.71	3.07	3.27	2.18	2.44	1.64	1.90	1.26	* 1.82	1.21	7.19	
-1.00	* 4.55	* 4.55	* 4.83	4.73	4.62	2.99	3.20	2.12	2.40	1.60			1.93	1.28	6.90	
-2.00	* 4.83	* 4.83	* 4.88	4.73	4.59	2.96	3.18	2.10	2.39	1.59			2.15	1.43	6.45	
-3.00	* 4.77	* 4.77	* 5.05	4.79	4.62	2.99	3.21	2.12					2.57	1.71	5.79	
-4.00	* 4.90	* 4.90	* 5.51	4.92	4.72	3.08							3.49	2.33	4.83	

HD512III 600mm Shoe, 4.65m Boom, 2.50m Arm, 0.50m³ Bucket (415kg)

Unit: 1,000kg

LAOD POINT HEIGHT B(m)	OUTREACH A m												RATING AT MAXIMUM REACH			
	2.00		3.00		4.00		5.00		6.00		7.00		m			
7.00																
6.00																
5.00							* 2.15	* 2.15	* 2.35	1.95						
4.00							* 2.42	* 2.42	* 2.45	1.93			* 1.47	1.46	6.89	
3.00			* 3.75	* 3.75	* 3.15	* 3.15	* 2.84	2.57	* 2.68	1.87	2.05	1.39	* 1.49	1.32	7.18	
2.00			* 5.53	* 5.53	* 4.05	3.49	* 3.36	2.44	2.63	1.80	2.01	1.36	* 1.55	1.24	7.32	
1.00			* 5.12	5.11	* 4.91	3.27	3.43	2.32	2.55	1.72	1.97	1.32	* 1.65	1.21	7.33	
0.00	* 2.99	* 2.99	* 4.86	* 4.86	4.79	3.12	3.33	2.22	2.48	1.66	1.94	1.29	* 1.82	1.23	7.19	
-1.00	* 4.55	* 4.55	* 4.83	4.80	4.69	3.03	3.26	2.16	2.44	1.63			1.96	1.30	6.90	
-2.00	* 4.83	* 4.83	* 4.88	4.80	4.66	3.01	3.23	2.14	2.44	1.62			2.19	1.45	6.45	
-3.00	* 4.77	* 4.77	* 5.05	4.86	4.69	3.04	3.26	2.16					2.61	1.74	5.79	
-4.00	* 4.90	* 4.90	* 5.51	5.00	4.80	3.13							3.54	2.36	4.83	

HD512III 700mm Shoe, 4.65m Boom, 2.50m Arm, 0.50m³ Bucket (415kg)

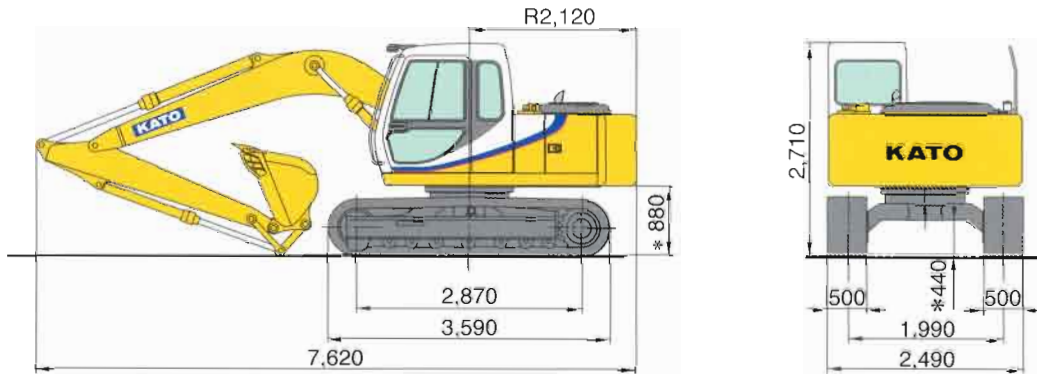
Unit: 1,000kg

LAOD POINT HEIGHT B(m)	OUTREACH A m												RATING AT MAXIMUM REACH			
	2.00		3.00		4.00		5.00		6.00		7.00		m			
7.00																
6.00																
5.00							* 2.15	* 2.15	* 2.35	2.00						
4.00							* 2.42	* 2.42	* 2.45	1.98			* 1.47	* 1.47	6.89	
3.00			* 3.75	* 3.75	* 3.15	* 3.15	* 2.84	2.63	* 2.68	1.92	2.11	1.43	* 1.49	1.36	7.18	
2.00			* 5.53	* 5.53	* 4.05	3.57	* 3.36	2.50	2.70	1.85	2.07	1.40	* 1.55	1.28	7.32	
1.00			* 5.12	* 5.12	* 4.91	3.36	3.53	2.38	2.62	1.77	2.03	1.36	* 1.65	1.25	7.33	
0.00	* 2.99	* 2.99	* 4.86	* 4.86	4.91	3.20	3.42	2.28	2.56	1.71	2.00	1.33	* 1.82	1.27	7.19	
-1.00	* 4.55	* 4.55	* 4.83	* 4.83	4.82	3.12	3.35	2.22	2.52	1.68			2.02	1.35	6.90	
-2.00	* 4.83	* 4.83	* 4.88	* 4.88	4.79	3.09	3.33	2.20	2.51	1.67			2.25	1.50	6.45	
-3.00	* 4.77	* 4.77	* 5.05	4.99	4.82	3.12	3.35	2.22					2.69	1.80	5.79	
-4.00	* 4.90	* 4.90	* 5.51	5.12	4.93	3.21							3.64	2.43	4.83	

- NOTE
- Lifting capacities are based on ISO 10567.
 - Lifting capacities shown do not exceed 87% of machine hydraulic capacity or 75% of minimum tipping load.
 - Capacities marked with an asterisk (*) are limited by hydraulic capacities.
 - 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.
 - Lifting capacities shown should not be exceeded. Weight of all lifting accessories must be deducted from the above lifting capacities.
 - Capacities apply only to the machine as originally manufactured and equipped by KATO WORKS CO., LTD.
 - The operator should be fully acquainted with the operation manual before operating the machine.

Dimensions

(Unit: mm)



* Less grouser bar

Standard Equipment

- New APC mode
- New auto-slow • One-touch-slow
- Multi-mode display monitor
- Adjustable monitor alarm
- 2 service hour meter
- 3 traveling 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
- Front window washer (2 sprays)
- Rear emergency escape window
- Cabin light connected to cabin door
- 2 working lights
(Upper front right side & Boom left side)
- Main control valve with antidrift valves (Boom and Arm)
- 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)
- Fire wall

Optional Equipment

- Tinted transparent hatch
- Seat belt
- Automatic climate control air conditioner
- Hot & cool box contained with AC
- Auto tuning AM/FM radio with clock
- 2 speaker stereo
- Working light (Cab left side)
- Working light (Boom right side)
- Working light (Cab right side)
- Rear view mirror (left side)
- Cab access step
- Optional piping
- Safety lock valve (Boom and Arm cylinders)
- 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, 2 pcs each side
- Track guard, 3 pcs each side
- Full-length track guard!

NOTE : Illustrations may include optional equipment. KATO products and specifications are subject to improvements and changes without notice.

Address inquiries to .



Specifications subject to change without notice

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