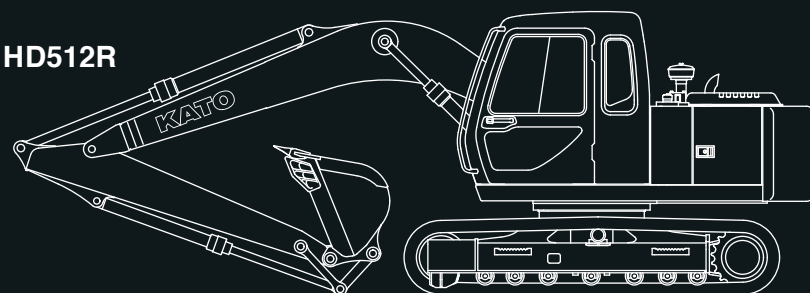


**Innovations
For The Future**

Eco & Tough



HD512R



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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KATO

REGZM

FULLY HYDRAULIC EXCAVATOR

HD512R

Bucket capacity : 0.4m³-0.6m³(ISO)

Engine output : 68kW / 2,050min⁻¹(ISO Net)

Operating weight : 12,100kg



Courtesy of Machine Market



REGZAM

HD512R

**REGZAM means “ACTIVE MACHINE”
with 5 essential design features**

- User friendly design
- Reliable Mitsubishi Engine (4D34-TLE2A)
- New APC Control
- Fatigue Free & Comfortable Cabin
- Powerful Operation

Equipment



New APC System

- Easily selectable 3 working modes with one-touch switches.

- Advanced TFT color monitor liquid crystal display.
- Back-light at touch switches
- 14 maintenance information available



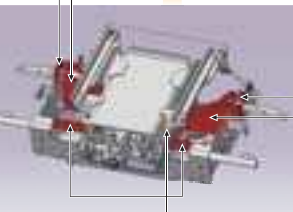
P: Professional Mode
for heavy duty application

A: All-around Multi Purpose Mode
for all application

E: ECO Mode
for economical works

Durable Seat Suspension

- Less rolling motion of lever-consol & seat assures powerful & precise operations.



Reinforcement Reinforcement

Less rolling seat

Technical Specifications

ENGINE

Model	Mitsubishi 4D34-TLE2A, 4 cycle turbo charged diesel engine
Number of cylinders	4
Bore & Stroke	104mm × 115mm
Total displacement	3.91L
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 viscous 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
Working lights	Provided on the boom left side and mounted on the frame
Lubrication chart	Inside the tool box

APC150

- Quick Selection of Working Modes
- **P**: Professional Mode for heavy duty application (H Mode)
- **A**: All-around Multi Purpose Mode for all application from precision work to heavy duty work by stroke of operation levers
- **E**: ECO Mode for economical works
- Color monitor display with back up light
- Engine oil pressure
- Engine oil filter
- Hydraulic oil filter
- Engine Preheater
- Hydraulic oil temperature
- Water temperature
- Water level
- Fuel level
- Battery charge
- APC monitor and air cleaner
- Calendar

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, and/or centralized greasing for remote points
Bucket digging force (High power)	88kN
Arm digging force (High power)	98kN
Arm digging force (High power)	64kN
Bucket digging force (High power)	71kN
	(High power can be used with STD arm)

SWING SYSTEM

Drive	Axial piston motor with shock-less 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

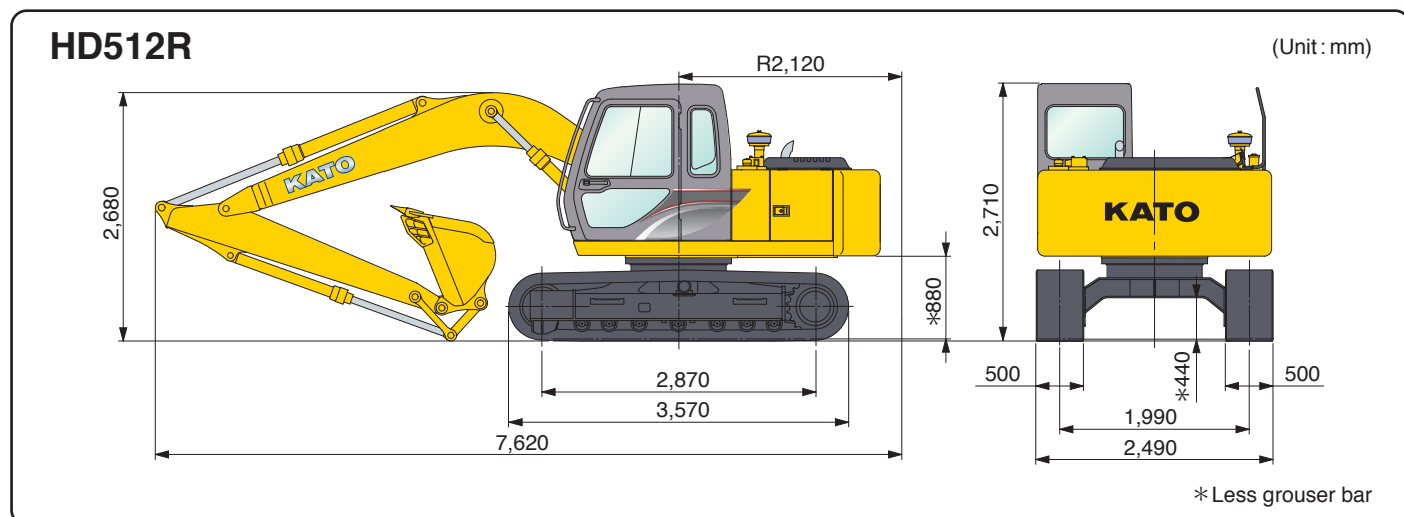
TRAVEL SYSTEM

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 Low 0~3.1km/h
Gradeability	70% (35°)
Max. drawbar pull	100kN
Ground clearance (less grouser bar)	440mm
Track length	3,570mm

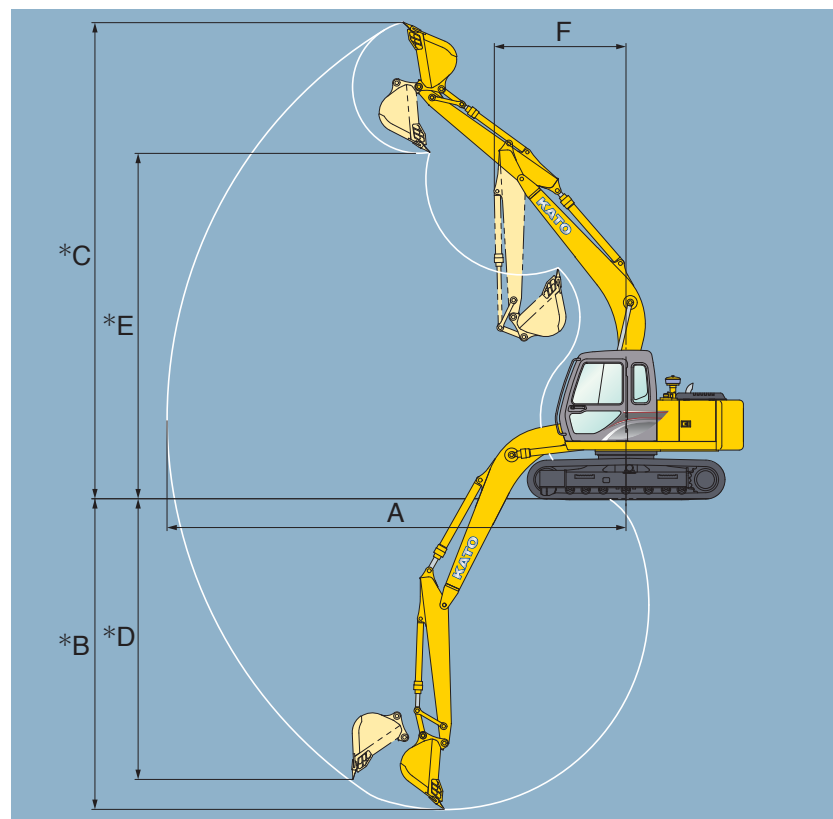
SERVICE DATA

Fuel tank	275L
Cooling system	18L
Engine oil	17L
Track drives	2 × 2.1L
Swing drive	2.5L
Hydraulic oil tank (level)	74L
(system)	155L
In standard figure, with the 2.5m arm, 500mm grouser shoes and 0.50m ³ (ISO) bucket.	
Operating weight	12,100kg
Ground pressure	38kPa

Dimensions



Working Ranges



Unit : mm

Range \ Arm	STD Arm 2.5m	Long Arm 3.0m
A : Max. digging radius	8,300	8,760
*B : Max. digging depth	5,620	6,130
*C : Max. digging height	8,610	8,870
*D : Max. vertical wall	5,070	5,470
*E : Max. dumping height	6,240	6,520
F : Min. swing radius	2,390	2,470

* Less grouser bar

Bucket

Type of bucket	Backhoe bucket			
Bucket capacity m ³ , ISO	0.40	0.45	0.50	0.60
Bucket width	W/O side cutters, mm	785	875	910
	with side cutters, mm	875	965	1,000
Bucket weight kg	380	400	415	470
Number of bucket teeth	4	4	5	5
Standard boom +	Standard arm	●	●	●
	Long arm	●	▲	* ▲

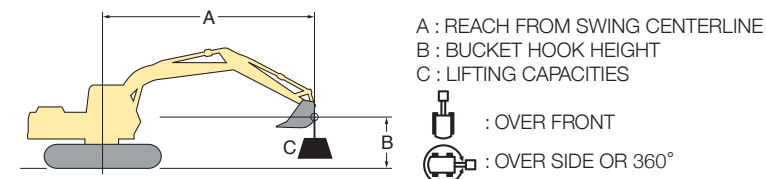
● General purpose ▲ Light work □ Loading × Unusable
 ○ Yellow colored area means standard.
 * Usable only when 700mm shoe is fitted on.

Track Shoes

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

○ Yellow colored area means standard.

Lifting Capacities



HD512R SHOE WIDTH: 500mm, BOOM: 4.65m, ARM: 2.50m, BUCKET: 0.50m³ (415kg), COUNTERWEIGHT: 2,300kg Unit: 1,000kg

LIFT POINT HEIGHT B (m)	LIFT POINT RADIUS A (m)												AT MAXIMUM LIFT POINT RADIUS			
	2.00		3.00		4.00		5.00		6.00		7.00					
																RADIUS (m)
5.00							*2.16	*2.16	*2.35	1.94						
4.00							*2.42	*2.42	*2.45	1.91			*1.47	1.45	6.89	
3.00			*3.75	*3.75	*3.15	*3.15	*2.84	2.55	*2.68	1.85	2.04	1.38	*1.49	1.31	7.18	
2.00			*5.53	5.50	*4.05	3.46	*3.36	2.42	2.61	1.78	2.00	1.35	*1.55	1.23	7.32	
1.00			*5.12	5.07	*4.91	3.25	3.41	2.30	2.53	1.71	1.96	1.31	*1.66	1.20	7.33	
0.00	*2.99	*2.99	*4.86	4.84	4.76	3.09	3.31	2.20	2.47	1.65	1.93	1.28	*1.82	1.22	7.19	
-1.00	*4.55	*4.55	*4.83	4.76	4.66	3.01	3.24	2.14	2.43	1.61			1.95	1.29	6.90	
-2.00	*4.83	*4.83	*4.88	4.76	4.64	2.98	3.22	2.12	2.42	1.60			2.17	1.44	6.45	
-3.00	*4.77	*4.77	*5.05	4.82	4.67	3.01	3.24	2.14					2.60	1.73	5.79	
-4.00	*4.90	*4.90	*5.51	4.96	4.77	3.10							3.52	2.34	4.83	

HD512R SHOE WIDTH: 600mm, BOOM: 4.65m, ARM: 2.50m, BUCKET: 0.50m³ (415kg), COUNTERWEIGHT: 2,300kg Unit: 1,000kg

LIFT POINT HEIGHT B (m)	LIFT POINT RADIUS A (m)												AT MAXIMUM LIFT POINT RADIUS		
	2.00		3.00		4.00		5.00		6.00		7.00				
															RADIUS (m)
5.00							*2.16	*2.16	*2.35	1.97					
4.00							*2.42	*2.42	*2.45	1.94			*1.47	1.47	6.89
3.00			*3.75	*3.75	*3.15	*3.15	*2.84	2.58	*2.68	1.88	2.07	1.40	*1.49	1.33	7.18
2.00			*5.53	*5.53	*4.05	3.51	*3.36	2.46	2.65	1.81	2.03	1.37	*1.55	1.25	7.32
1.00			*5.12	*5.12	*4.91	3.29	3.46	2.33	2.57	1.74	1.99	1.33	*1.66	1.22	7.33
0.00	*2.99	*2.99	*4.86	*4.86	4.83	3.14	3.36	2.24	2.51	1.68	1.96	1.30	*1.82	1.24	7.19
-1.00	*4.55	*4.55	*4.83	*4.83	4.73	3.06	3.29	2.17	2.47	1.64			1.99	1.32	6.90
-2.00	*4.83	*4.83	*4.88	4.83	4.70	3.03	3.27	2.15	2.46	1.63			2.21	1.47	6.45
-3.00	*4.77	*4.77	*5.05	4.90	4.74	3.06	3.29	2.18					2.64	1.76	5.79
-4.00	*4.90	*4.90	*5.51	5.03	4.84	3.15							3.57	2.38	4.83

NOTE : 1. Lifting capacities are based on ISO 10567.
 2. Lifting capacities shown do not exceed 87% of machine hydraulic capacity or 75% of minimum tipping load.
 3. Capacities marked with an asterisk(*) are limited by hydraulic capacities.
 4. 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.
 5. Lifting capacities shown should not be exceeded. Weight of all lifting accessories must be deducted from the above lifting capacities.
 6. Capacities apply only to the machine as originally manufactured and equipped by KATO WORKS CO., LTD.
 7. The operator should be fully acquainted with the operation manual before operating the machine.

Standard Equipment

- COLOR MONITOR DISPLAY (APC150)
- AUTOMATIC AIR CONDITIONER (PRESSURIZED)
- HOT & COOL BOX
- INTERMITTENT WINDSHIELD WIPER
- EMERGENCY EXIT REAR WINDOW
- AM/FM RADIO (2 SPEAKERS)
- 13 CM DUAL CORN SPEAKER X2
- CABIN LIGHT
- 3 STD WORKING LIGHTS (SLEWING TABLE-R, BOOM-L, CAB-L)
- REAR VIEW MIRROR-R
- WORKING MODE SELECTOR (APC150)
- AUTO-SLOW, ONE TOUCH SLOW
- BOOM/ARM ANTI-DRIFT VALVE
- SLEWING ANTI-COUNTER ACTION
- AUTOMATIC PARKING BRAKE (SLEWING TABLE)
- AUTOMATIC PARKING BRAKE (TRAVELING)
- SERVICE PORT (1 SPOOL)

Optional Equipment

- OPTIONAL WORKING LIGHT (BOOM-R)
- OPTIONAL WORKING LIGHT (CAB-R)
- 2 WAY OPTION PIPING (FOR CRUSHER & BREAKER)
- OPTION PIPING (FOR BREAKER)
- ROOM FAN
- ELECTRIC REFUELING PUMP
- HIGH PERFORMANCE FUEL FILTER
- SEAT-BELT
- TRACK GUARD (1 PD EACH SIDE)
- AIR CLEANER DOUBLE ELEMENT
- PRE-CLEANER
- COVER ON THE BOTTOM FACE OF TRAVELING FRAME