EQUIPMENT

- New color monitor display (APC300)
- Auto-slow, one touch slow
- Working mode selector (APC300)2 speed modes for traveling
- Automatic transmission for traveling
- Pull up front window
- 6 points viscous dumpling cab
- Double slide operation seat
- Seat suspension adjustable to operator's weight
- Intermitted windshield wiper
- Emergency exit rear window
- Cabin light
- 2 working lights
- (Slewing table right side and boom left side)
- Boom/Arm Anti-drift valve
- High power of digging force
- Slewing anti-counter actionAutomatic parking brake (slewing)
- Automatic parking brake (traveling)
- Service port (1 spool)
- Rear view mirror (right side)
- 2 holes front window washer
- Automatic air conditioner (pressurized)
- Hot & cool box
- AM/FM radio
- 13 cm dual corn speaker ×2
- Air cleaner double element, pre-cleaner
- Tool set
- Arm protection plate
- Seat-belt
- 2 ways option piping for breaker & crusher (option)
- Fire extinguisher

Contact for enquiry:

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

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Better maintainability and safety Established a long-term stability of the machine



Latest APC300





- adopted.
- Adopt "P mode" (Pro Mode). P, A and E mode operation method are selectable.
- Emergency backup switch is equipped for in case of APC malfunction.

with various functions



◀ Initial confirmation screen



P Mode Pro mode established both power and good response.

A Mode

All-round mode is ideal for general operation.

E Mode ECO mode for economical works.

Auto-slow mode

Auto-slow mode controls the engine to ideal engine speed automatically and save the fuel consumption.

■ When the monitor fails





When engine emergency stop switch is operated

- Able to set maintenance term for filter and oil.
- Hour meter function is



▲ Hour meter The location of hour meter is improved so as to confirm conveniently from outside of the cab.



Mounting high performance Mitsubishi 4D37-TL engine

High output power engine with intercooler and turbocharger.

■ Max. output power: 68kW / 2.000 min⁻¹ (ISO Net) ■ Max. torque : 360N·m/1,600min⁻¹ (ISO Net)

■ Fuel consumption : 228q / kW·h





Technical Specifications

ENGINE
Model····· Mitsubishi 4D37-TLC3B, 4 cycle intercooler turbo charged diesel engine
Number of cylinders 4 Bore & Stroke 104mm×115mm
Total displacement······· 3.91 L Rated output······ 68kW/2,000min ⁻¹ (ISO Net)
Max, torque ········· 360N•m/1,600min ⁻¹ (ISO Net)
Compression ratio 17:1 Combustion system Direct injection
Unit fuel consumption 228g/kW•h 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· Electronic variable speed control
Air cleaner Dry type double filter

HYDRAULIC SYSTEM

III DILACLIO OI OI LIVI							
Pumps····· Double variable piston pump							
and gear pump							
Max, discharge flow 2×121L/min							
Max. discharge pressure 31.4MPa							
Max. discharge pressure							
(High power) 32.8MPa							
Oil filtration Full-flow filter with							
replaceable element,							
a pilot line filter and							
suction strainer							
Control valves 3+4 section multiple							

Oil cooler··· Finned tube, forced ventilation

Dimension: HD512-R5

Pilot pump·

Pressure relief valves····

control valves (with one

Gear type

···· Primary and

secondary on each circuit

free service circuit)

CAB & CONTROLS

oe······All w	eather sou	ınd supp	oressec
cab r	mounted o	n 6 poin	ıt
visco	us mounti	ng.	

Right hand levers Controls the boom &

Inner right hand lever ·· Controls the right (with foot pedal)... 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 "Accell dial" Meter & gauges Hour meter, water temperature and fuel

Working lights... ·· Provided on the boom left side and right front cover

Lubrication chart Inside of the left side cover

APC300

- Quick Selection of Working Modes
- P: Professional mode for experienced operator. Established both power and good response
- A: All-round 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
- 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... ··· 2, double acting Bore & Stroke ······· 105mm×1,090mm Arm cylinder... · One, double acting Bore & Stroke··· ··· 120mm×1.215mm ··· One, double acting Bucket cylinder... Bore & Stroke ·· ··· 95mm×995mm Lubrication Grease nipples, with centralized greasing for remote points

Bucket digging force-

(High power)

(High power) 72kN

98kN

69kN

Drive... Axial piston motor with shockless valve and reduction gear.

SWING SYSTEM

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 bathed12 5 min-1

Max.swing speed... Tail swing radius... Min. front swing radius

·· 2,410mm Standard Boom·

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

···· High 0~5.5km/h Low 0~3.2km/h Gradeability ·70% (35°) Max.drawbar.pull-··· 110kN Ground clearance 440mm

Lubrication... Sealed-for-life rollers and

front idlers with floating seals

(less grouser bar) · 3,570mm

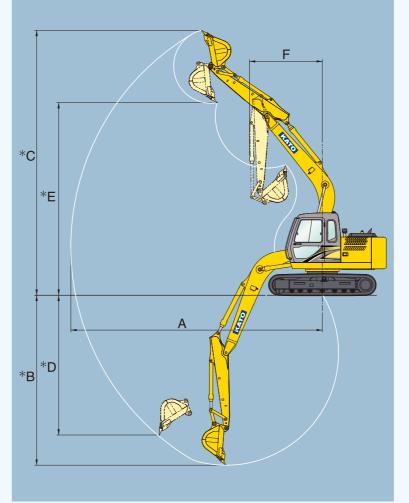
275 L Cooling system ··19 L · 17 I Engine oil·

SERVICE DATA

2×2.1 L Track drives Hydraulic oil tank (level)· (system) ·· In standard figure, with the 2,50m arm, 500mm grouser shoes and 0.50m3 (ISO), bucket.

· 12 600ka Operating weight Ground pressure...

Working Ranges



	Unit:mm
Range	Standard arm 2.50m
A : Maximum digging radius	8,340
*B : Maximum digging depth	5,630
*C : Maximum digging height	8,780
*D : Maximum vertical wall	4,630
*E : Maximum dumping height	6,370
F : Min. swing radius	2,410

* Less grouser bar

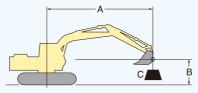
ket		
50 0.60		
1,090		
000 1,180		
5 5		
Property of the second		

● General purpose ☐ Loading ☐ Blue colored area means standard.

Track Shoes							
Λ	Shoe width	mm	500	600	700		
poq	Operating weig	jht kg	12,600	12,800	13,100		
for main body	Overall height	mm	2,800 2,800		2,800		
	Ground clearar	nce mm	*440	*440	*440		
ions	Crawler overall length	ngth mm	3,570	3,570	3,570		
ficat	Distance between edge of both side		2,490	2,590	2,690		
Specifications	Ground pressure	kPa	40	34	29		
S		kgf/cm ²	0.40	0.34	0.30		

Ground pressure when equip standard bucket and arm. * Less grouser bar Blue colored area means standard.

Lifting Capacity



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

:OVER FRONT

:OVER SIDE OR 360°

HD512-R5 BOOM: 4.65m, ARM: 2.50m, BUCKET: 0.5m3 (450ka), SHOE WIDTH: 500mm, COUNTERWEIGHT: 2300ka

UNIT: kg											
LIFT	LIFT POINT RADIUS A(m)							AT MAXIMUM			
POINT	1	.5	3	.0	4	.5	6.	.0	LIFT	POINT RA	DIUS
HEIGHT B(m)		m m								m m 4	RADIUS (m)
6.0									*2020	*2020	4.96
4.5					*2180	*2180	*2380	1950	*1700	1530	6.74
3.0			*3960	*3960	*3060	*3060	2730	1860	*1730	1290	7.21
1.5			*5380	5250	*4180	2780	2590	1730	1820	1190	7.34
0.0			*4870	4830	3950	2570	2480	1630	1860	1210	7.16
-1.5	*5170	*5170	*4880	4760	3850	2480	2430	1580	2090	1360	6.63
-3.0	*4850	*4850	*5110	4860	3890	2510			2720	1780	5.66
-4.5			*6180	5160				·	*4840	3330	3.93

- 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.

- the above lifting capacities.
- 6. Capacities apply only to the machine as originally manufactured and equipped by KATO WORKS (CHINA) LTD.
 7. The operator should be fully acquainted with the Operation Manual before operating the machine.

500 440 500 2,870 1,990 7,660 2,490 * Less grouser bar

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