#### **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 std working lights
   (Slewing table right side and boom left side)
   Boom / Arm Anti-drift valve
- High power of digging force
- Slewing anti-counter action
- Automatic parking brake (slewing)
- Automatic parking brake (traveling)
- Service port (1 spool)
- Rear view mirror (right side)
- Track guard (3 pcs each 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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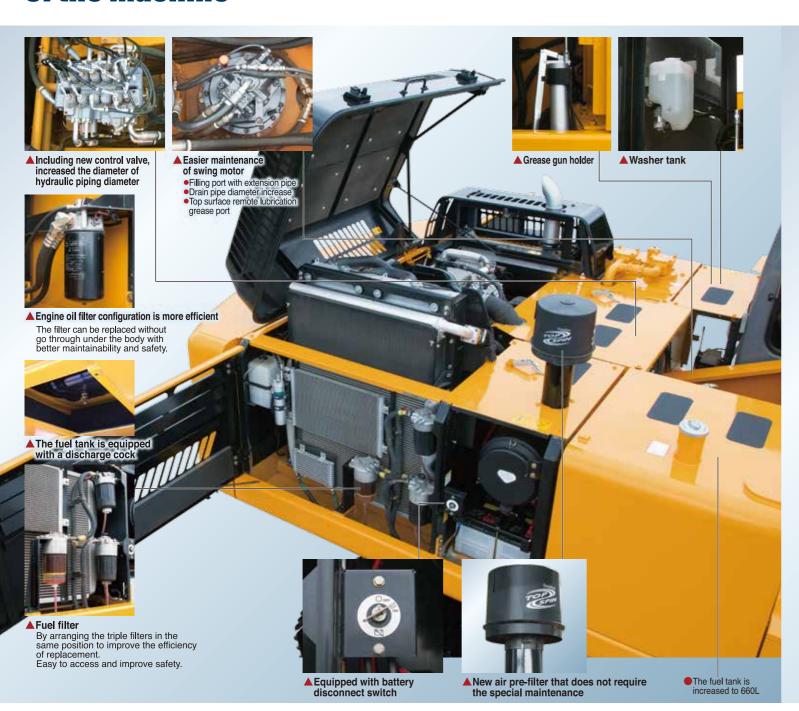
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# Better maintainability and safety Establish a long-term stability of the machine



Common rail electronic control fuel system further enhances fuel efficiency More energy efficient and more environmentally friendly High efficiency and low fuel consumption and low noise Mitsubishi 6M60-TL engine

- High output power engine with intercooler and turbocharger
- Max. output power: 183kW / 2,150 min<sup>-1</sup> (ISO Net)
- Max. torque :824N·m/1,800min<sup>-1</sup> (ISO Net)
- Fuel consumption :215g / kW•h

## Latest APC300 with various functions





#### 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.

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



◀ Initial confirmation screen



**⋖** When the monitor fails



When engine emergency stop switch is operated



▲ Boom up priority switch

New Seat





## **Technical Specifications**

Model·· Mitsubishi 6M60-TL, 4 cycle intercooler turbo charged diesel engine Number of cylinders... Bore & Stroke... ······ 118mm×115mm Total displacement... ·183kW/2,150min-1 Rated output. (ISO Net) Max. torque... · 824N • m/1.800 min-1 (ISO Net) ...17.5:1 Compression ratio ·· Combustion system ..... Direct injection Unit fuel consumption... ·····215g/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 Alternator, 24V-50A Flectronic variable Governor speed control ·Dry type double filter Air cleaner

#### HYDRAULIC SYSTEM

Pumps····· Double variable piston pump and gear pump Max. discharge flow... ..... 2 x 3071 /min Max. discharge pressure ...... 31.4MPa Max. discharge pressure 32.9MPa (High power)· Oil filtration ..... Full-flow filter with replaceable element a pilot line filter and suction strainer Control valves ..... 5+4 section multiple

Oil cooler··· Finned tube, forced ventilation

Pressure relief valves ······ Primary and

Pilot pump···

control valves (with one

Gear type

secondary on each circuit

free service circuit)

#### CAB & CONTROLS

····All weather sound suppressed, cab mounted on 6 point viscous mounting.

Right hand levers ..... Controls the boom & bucket

Inner right hand lever (with foot pedal)..... ···· Controls the right 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

·· 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

Bucket digging force ··

(High power)

(High power)

Boom cylinders ..... 2, double acting Bore & Stroke ...... 150mm × 1.450mm Arm cylinder ····· · One, double acting Bore & Stroke ····· ···· 170mm×1.840mm Bucket cylinder ..... One, double acting Bore & Stroke······ 150mm×1,230mm Lubrication ...... Grease nipples, with centralized greasing for remote points

#### SWING SYSTEM

· 225kN

· 236kN

·159kN

· 167kN

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

... 10 0min-1 Max.swing speed.. Tail swing radius... · 3,460mm Min. front swing radius · 4,640mm 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: ··· 48 each side Track adjustment····· Grease cylinders with recoil springs Lubrication ··· Sealed-for-life rollers and front idlers with floating seals ···· High 0~5.7km/h Low 0~3.9km/h Gradeability-··70% (35°) Max.drawbar.pull-··· 270kN Ground clearance 500mm (less grouser bar)

#### SERVICE DATA

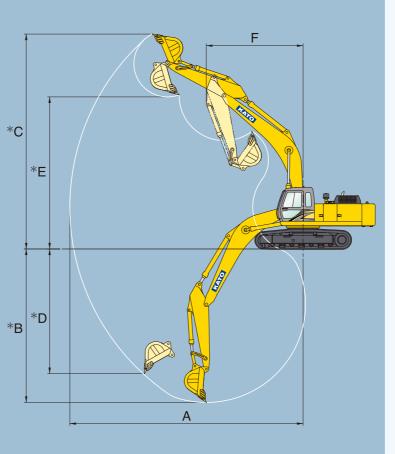
· 4,650mm

63kPa

uel tank····· 660 L
Cooling system·····45 L
ingine oil····· 33 L
rack drives····· 2×4.0 L
Revolving mechanism····· 10.5 L
lydraulic oil tank
(level)200 L
(system)405 L
n standard figure, with the 3.14m arm,
00mm grouser shoes and 1.4m3 (ISO),
ucket.
Operating weight31,600 kg

Ground pressure..

### **Working Ranges**



Standard arm 3.14m
11,190
7,440
10,420
6,040
7,370
4,640

#### Bucket

\* Less grouser bar

	Type of bucket		Backhoe bucket						
Bucket o	capacity n	n³, ISO	1.4 1.6						
Bucket	W/O side cutters	mm	1,290	1,470					
width	with side cutters	mm	1,400	1,590					
Number	of bucket teeth		5 5						
S	hape of bucket		S. S						
Standard	d arm		•						

■ General purpose Light work Blue colored area means standard.

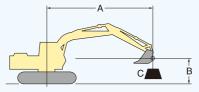
■ Track Shoes									
			Grouser shoe						
	Type of shoes								
>	Shoe width	mm	600	700	800				
body	Operating weig	ıht kg	31,600	31,930	32,480				
main	Overall height	mm	3,480	3,480	3,480				
fo	Ground clearar	nce mm	*500	*500	*500				
ions	Crawler overall length mm		ler overall length mm 4,650		4,650				
ficat	Distance between edge of both side		3,190 3,290		3,390				
Specifications	Ground	kPa	63	55	49				
S	pressure	kgf/cm <sup>2</sup>	0.64	0.56	0.50				

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°

**HD1430-R5** BOOM: 6.48m, ARM: 3.14m, BUCKET: 1.4m<sup>3</sup> (1165kg), SHOE WIDTH: 600mm, COUNTERWEIGHT: 6400kg

	UNII: 1000kg																		
LIFT	LIFT POINT RADIUS A (m)												AT MAXIMUM						
POINT	2.	.0	3.	.0	4.	.0	5.	.0	6.	.0	7.	.0	8.	.0	9.	.0	LIFT P	OINT R	ADIUS
HEIGHT	R			<u></u>	뮤		Я		Я		뮤		Я				F		RADIUS
B (m)			Ü		Ü		Ü		Ü				Ü		Ü		Ü		(m)
6.0													*5.09	*5.09					
5.0											*5.57	*5.57	*5.37	5.05	*4.92	3.99			
4.0							*7.90	*7.90	*6.84	*6.84	*6.18	*6.18	*5.77	4.88	*5.54	3.90	*2.81	*2.81	9.63
3.0					*8.70	*8.70	*9.53	*9.53	*7.88	7.61	*6.88	5.92	*6.24	4.70	5.60	3.78	*2.91	*2.91	9.79
2.0					*7.78	*7.78	*9.10	*9.10	*8.91	7.20	*7.59	5.64	6.69	4.52	5.47	3.67	*3.07	*3.07	9.83
1.0					*7.69	*7.69	*8.29	*8.29	*9.82	6.86	8.09	5.41	6.52	4.36	5.36	3.56	*3.29	3.06	9.77
0.0			*7.98	*7.98	*7.74		*7.99	*7.99	*9.38	6.62	7.89	5.23	6.38	4.23	5.27	3.48	*3.60	3.11	9.61
-1.0	*8.10				*7.74	*7.74	*7.91	*7.91	*9.08	6.47	7.76	5.11	6.29	4.14	5.22	3.43	*4.03	3.24	9.34
-2.0		*10.40		*8.33	*7.70	*7.70	*7.94		*9.07	6.40	7.70	5.05	6.25	4.11			*4.65	3.47	8.94
-3.0	*8.93	*8.93	*7.95	*7.95	*7.69	*7.69	*8.08	*8.08	*9.35	6.42	7.71	5.07	6.29	4.14			*5.59	3.86	8.40
-4.0	*8.16			*7.73	*7.77	*7.77	*8.40	*8.40	9.98	6.52	7.82	5.16					6.79	4.51	7.70
-5.0	*7.77	*7.77	*7.70	*7.70	*8.05			8.93	*9.71	6.73							*8.16	5.65	6.77
-6.0					*8.79	*8.79	*9.79	9.35									*8.58	8.08	5.51

- 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
- 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

Dimension : HD1430-R5	R3,460	2,990 (Unit:mm)
11,220		600 2,590 3,190 * Less grouser bar
		4º 2000 grodoor bar

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