

# Specifications

## Engine

Model	HINO J05E
Type	Direct injection, water-cooled, 4-cycle diesel engine with turbocharger, intercooler (Complies with EU (NRMM) Stage IIIA, US EPA Tier III, and act on regulation, etc. of emissions from non-road special motor vehicles (Japan))
No. of cylinders	4
Bore and stroke	112 mm x 130 mm
Displacement	5.123 L
Rated power output	118 kW /2,000 min <sup>-1</sup> (ISO14396: 2002)* 114 kW /2,000 min <sup>-1</sup> (ISO9249: 2007)
Max. torque	592 N·m/1,600 min <sup>-1</sup> {rpm} (ISO14396: 2002)* 572 N·m/1,600 min <sup>-1</sup> {rpm} (ISO9249: 2007)

## Hydraulic System


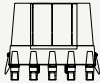
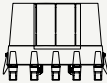
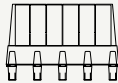
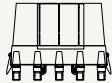

Pump	
Type	Two variable displacement pumps + 1 gear pump
Max. discharge flow	2 x 220 L/min, 1 x 20 L/min Extra gear pump 1 x 41 L/min
Relief valve setting	
Boom, arm and bucket	34.3 MPa {350 kgf/cm <sup>2</sup> }
Power boost	37.7 MPa {385 kgf/cm <sup>2</sup> }
Travel circuit	34.3 MPa {350 kgf/cm <sup>2</sup> }
Swing circuit	28.5 MPa {291 kgf/cm <sup>2</sup> }
Control circuit	5.0 MPa {50 kgf/cm <sup>2</sup> }
Pilot control pump	Gear type
Main control valves	8-spool
Oil cooler	Air cooled type

## Swing System

Swing motor	Axial piston motor
Brake	Hydraulic; locking automatically when the swing control lever is in the neutral position
Parking brake	Hydraulic brake
Swing speed	11.8 min <sup>-1</sup> {rpm}
Tail swing radius	1,730 mm
Min. front swing radius	1,930 mm

## Attachments

Backhoe bucket and arm combination

Use	Backhoe bucket						Slope finishing bucket
	Normal digging				Side pin type		
							
<b>Bucket capacity</b>	<b>ISO heaped</b> m <sup>3</sup>	0.51	0.7	0.8	0.93	0.8	—
	<b>Struck</b> m <sup>3</sup>	0.39	0.52	0.59	0.67	0.59	—
<b>Opening width</b>	<b>With side cutter</b> mm	870	1,080	1,160	1,330	1,160	—
	<b>Without side cutter</b> mm	770	980	1,060	1,230	1,060	2,200 x 1,100
<b>No. of bucket teeth</b>		3	5	5	5	5	—
<b>Bucket weight</b>	<b>kg</b>	520	630	630	710	660	—
<b>Combinations</b>	<b>2.4 m arm</b>	○	○	○	◎	○	△
	<b>2.94 m arm</b>	○	○	◎	△	○	△
	<b>3.33 m arm</b>	○	△	×	×	×	△

◎ Std. ○ Recommended △ Loading only × Not recommended

## Travel System

Travel motors	2 x axial-piston, two-step motors
Travel brakes	Hydraulic brake per motor
Parking brakes	Oil disc brake per motor
Travel shoes	47 each side (SK235SR) 51 each side (SK235SRLC)
Travel speed	5.5 / 3.4 km/h
Drawbar pulling force	243 kN {24,800 kgf} (ISO 7464)
Gradeability	70 % {35°}

## Cab & Control

Cab	
All-weather, sound-suppressed steel cab mounted on the silicon-sealed viscous mounts and equipped with a heavy, insulated floor mat.	
Control	
Two hand levers and two foot pedals for travel	
Two hand levers for excavating and swing	
Electric rotary-type engine throttle	

## Boom, Arm & Bucket

Boom cylinders	125 mm x 1,320 mm
Arm cylinder	135 mm x 1,588 mm
Bucket cylinders	120 mm x 1,080 mm

## Refilling Capacities & Lubrications

Fuel tank	330 L
Cooling system	22 L
Engine oil	20.5 L
Travel reduction gear	2 x 4.5 L
Swing reduction gear	7.0 L
Hydraulic oil tank	114 L tank oil level 230 L hydraulic system