



ENGINE

Model Isuzu CC-6WG1X
 Type 4-cycle water cooled, direct injection
 Aspiration Turbocharger and intercooler
 No. of cylinders 6
 Rated power
 DIN 6 272,net 243 kW (330 PS) at 1 800min⁻¹ (1 800 rpm)
 SAE J1349,net 243 kW (326 hp) at 1 800min⁻¹ (1 800 rpm)
 Bore and stroke 147 mm x 154 mm
 Piston displacement 15.681 L
 Electrical system 24 V with 1.2 kW, 50 A alternator
 Starting system 24 V x 7.0 kW electric motor
 Batteries 2 x 12 V / 754 CCA, 294-min. rated reserve
 Air cleaner..... Double element dry type with restriction indicator



POWER TRAIN

Transmission ... Torque converter, countershaft type powershift with computer-controlled automatic shift and manual shift features included.
 Torque converter Three element, single stage, single phase
 Main clutch Wet hydraulic, multi-disc type
 Cooling method Forced circulation type
 Travel speed* : km/h
 Forward / Reverse
 1st 6.5 / 7.0
 2nd 11.5 / 12.5
 3rd 19.0 / 20.5
 4th 33.5 / 34.5
 *With 26.5-25-24PR (L3) tires



AXLE AND FINAL DRIVE

Drive system Four-wheel drive system
 Front & rear axle Full-floating
 Front : fixed to the front frame
 Rear : trunnion support
 Reduction and differential gear Two stage reduction with torque proportional differential
 Oscillation angle ± 12° ; total 24°
 Final drives Heavy-duty planetary, mounted inboard



TIRES (tubeless, nylon body)

Standard 26.5-25-24PR (L3)
 Optional Refer to standard & optional equipment list



BRAKES

Service brakes Inboard mounted fully hydraulic 4 wheel wet disc brake.
 Front & rear independent brake circuit
 Parking brake Front axle input braking
 Multiple disk type with spring cylinder



STEERING SYSTEM

Type Articulated frame steering
 Steering mechanism Full hydraulic power steering
 Steering angle Each direction 37° ; total 74°
 Relief pressure 20.7 MPa (210 kgf/cm²)
 Cylinders Two double-acting piston type
 No. x Bore x Stroke 2 x 100 mm x 530 mm
 Minimum turning radius at the centerline of outside tire 6.78 m



HYDRAULIC SYSTEM

Boom and bucket are controlled by independent control lever
 Boom controls Four position valve ; Raise, hold, lower, float
 Bucket controls with automatic bucket return-to-dig control Three position valve ; Roll back, hold, dump
 Main pump
 (Load) Gear type 154 L/min
 @ 1 850 min⁻¹ (rpm) (pump speed) at 17.2 MPa (175 kgf/cm²)
 (Steer) Gear type 295 L/min
 @ 1 850 min⁻¹ (rpm) (pump speed) at 20.6 MPa (210 kgf/cm²)
 Charging pump
 (Front)..... Gear type 133 L/min
 @ 1 780 min⁻¹ (rpm)(transmission speed) at 0.5 MPa (5 kgf/cm²)
 (Rear)..... Gear type 67 L/min
 @ 1 780 min⁻¹ (rpm)(transmission speed) at 2.5 MPa (25 kgf/cm²)
 Brake pump Gear type 24 L/min
 @ 1 850 min⁻¹ (rpm) (pump speed) at 8.8 MPa (90 kgf/cm²)
 Fun drive pump Gear type 54 L/min
 @ 1 850 min⁻¹ (rpm) (pump speed) at 16.2 MPa (165 kgf/cm²)
 Relief pressure setting..... 20.6 MPa (210 kgf/cm²)
 Hydraulic cylinders
 Type Two boom and one bucket, double acting type
 No. x Bore x Stroke Boom : 2 x 200 mm x 960 mm
 Bucket : 1 x 230 mm x 590 mm
 Filters Full-flow 15 micron return filter in reservoir
 Hydraulic cycle times
 Lift boom Raise 6.8 s
 Lower 3.5 s
 Bucket dump 1.7 s



SERVICE REFILL CAPACITIES

Fuel tank 450 L
 Engine coolant 90 L
 Engine oil 34 L
 Torque convertor & transmission 50 L
 Front axle differential & wheel hubs 85 L
 Rear axle differential & wheel hubs 87 L
 Hydraulic reservoir 260 L



DIMENSIONS

Bucket type	Standard boom						
	General purpose bucket			Rock bucket			
	With bolt-on cutting edges	With bolt-on teeth	With bolt-on teeth & segments	With bolt-on teeth	With bolt-on teeth & segments		
Bucket capacity	ISO heaped	m ³	5.0	4.7	4.9	4.2	4.4
	ISO struck	m ³	4.3	4.1	4.2	3.6	3.7
Bucket width		mm	3 480	3 480	3 480	3 480	3 480
Working range							
Dump clearance 45 degree, full height		mm	3 130	3 000	3 000	3 040	3 040
Reach, 45 degree dump, full height		mm	1 480	1 565	1 565	1 520	1 520
Reach, 45 degree dump, 7 ft (2.13 m) clearance		mm	2 085	2 140	2 140	2 120	2 120
Reach with arm horizontal and bucket level		mm	2 990	3 150	3 150	3 090	3 090
Digging depth (horizontal digging angle)		mm	160	175	175	175	175
Overall operating height		mm	6 145	6 145	6 145	6 010	6 010
Overall length (Bucket on ground)		mm	9 430	9 600	9 600	9 540	9 540
Loader clearance circle, bucket in carry position		mm	7 910	7 960	7 960	7 940	7 940
Static tipping load *	Straight	kgf	20 640	20 950	20 550	20 800	20 400
	Full 40 degree turn	kgf	18 500	18 350	18 000	18 200	17 850
Breakout force		kN	237	261	247	272	258
		(kgf)	(24 200)	(26 600)	(25 200)	(27 800)	(26 300)
Operating weight *		kgf	29 700	29 510	29 870	29 630	29 990

Notes: 1. All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7131:1997 and ISO 7546:1983
 2. Static tipping load and operating weight marked with * include 26.5-25-24PR (L3) tires (no ballast) with lubricants, coolant, full fuel tank and operator.
 Machine stability and operating weight depend on counterweight, tire size and other attachments.



WEIGHT CHANGES

Tires and Options	Change in operating weight	Change in tipping load	
		Straight	Full turn
	kg	kg	kg
26.5-25-20PR (L3) Bias ply	-72	-60	-60
26.5-25-20PR (L4) Bias ply	140	110	110
26.5-25-24PR (L5) Bias ply	1 024	800	710
26.5-25-26PR (L3) Bias ply	60	50	40
26.5-25-26PR (L5) Bias ply	888	690	620
26.5-25-28PR (L3) Bias ply	16	20	10
29.5-25-22PR (L3) Bias ply	532	420	380
29.5-25-28PR (L3) Bias ply	532	420	380
29.5 R25 (L3 type) Radial ply	708	550	490
Log grapple (pin on type)	No setting	-	-
Counterweight	No setting	-	-



BUCKET SELECTION GUIDE

