



TECHNICAL SPECIFICATIONS

ENGINE

MAKE	Doosan
MODEL	DL08
NUMBER OF CYLINDERS	6
RATED POWER GROSS (HP PER SAE J1995)	271 hp (202 kW) @ 1800 rpm
RATED POWER NET (HP PER SAE J1349)	271 hp (202 kW) @ 1800 rpm
MAXIMUM TORQUE (GROSS) (SAE J1995)	940 ft.-lb. (1275 Nm) @ 1300 rpm
PISTON DISPLACEMENT	466 in. ³ (7.6 L)
BORE AND STROKE	4.3 x 5.5 in. (108 mm x 139 mm)
STARTER	24V, 8.6 hp (6.0 kW)
BATTERY (QTY 2)	2 x 12V, 200AH
ALTERNATOR	24V, 80 amp
AIR CLEANER	Double Elements

HYDRAULICS

MAIN PUMPS	1 x 38 gpm (1 x 144 L/min)
SYSTEM PRESSURE (WORK)	3626 psi (255 kgf/cm ²)
SYSTEM PRESSURE (STEER)	3118 psi (219 kg/cm ²)
BOOM SPEED – UP	5.8 sec
BOOM SPEED – DOWN	2.9 sec
BUCKET SPEED – CROWD	2.0 sec
BUCKET SPEED – DUMP	1.6 sec

TRAVEL SPEEDS

TRAVEL SPEED – FORWARD (4)	3.7 / 7.3 / 14.5 / 22.4 mph (6 / 11.7 / 23.3 / 36 km/h)
TRAVEL SPEED – FORWARD (5) (US15 PACKAGE ONLY)	3.8 / 7.1 / 10.9 / 17 / 24.9 mph (6.1 / 11.5 / 17.6 / 27.4 / 40 km/h)
TRAVEL SPEED – REVERSE (3)	4 / 7.6 / 15.2 mph (6.4 / 12.3 / 24.4 km/h)
MAXIMUM GRADE	51% (27°)

ENVIRONMENT

SOUND LEVEL (2000/14/EC)	105 dB(A)
CABIN SOUND LEVEL (ISO 6396)	67 dB(A)



REFILL CAPACITIES

FUEL TANK	76.9 gal. (291 L)
DEF TANK	16.4 gal. (62 L)
COOLING SYSTEM (RADIATOR CAPACITY)	11.9 gal. (45 L)
ENGINE OIL	9.2 gal. (35 L)
TRANSMISSION	11.1 gal. (42 L)
FRONT AXLE	9.2 gal. (35 L)
REAR AXLES	9.2 gal. (35 L)
HYDRAULIC SYSTEM	45.7 gal. (173 L)

HYDRAULIC CYLINDERS

STEERING (2)	3.1 in. x 1.6 in. x 17.4 in. (80 mm x 40 mm x 443 mm)
LIFT ARM (2)	5.9 in. x 3.7 in. x 31.5 in. (150 mm x 95 mm x 800 mm)
BUCKET (1)	7.1 in. x 4.1 in. x 21.1 in. (180 mm x 105 mm x 535 mm)

BORE x ROD DIAMETER x STROKE

The piston rods and cylinder bodies are made of high-strength steel. A shock-absorbing mechanism is fitted in at the base and rod end of the lift and bucket cylinders and the rod end of the steering cylinders to ensure shock-free operation and extended piston life.

NOTE: Where applicable, dimensions are in accordance with Society of Automotive Engineers (SAE) and ISO standards. Specifications and design are subject to change without notice. Pictures of Doosan® wheel loaders may show other than standard equipment. All dimensions are shown in inches. Respective metric dimensions are enclosed by parentheses. Doosan construction equipment is manufactured with a Quality Management System that is in compliance with ISO 9001:2008. All dimensions are given for Doosan wheel loaders equipped with standard tires.

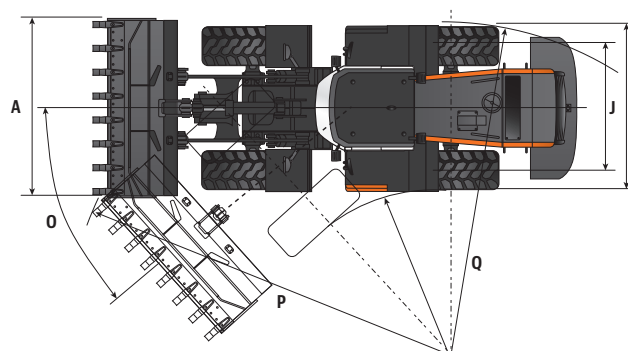
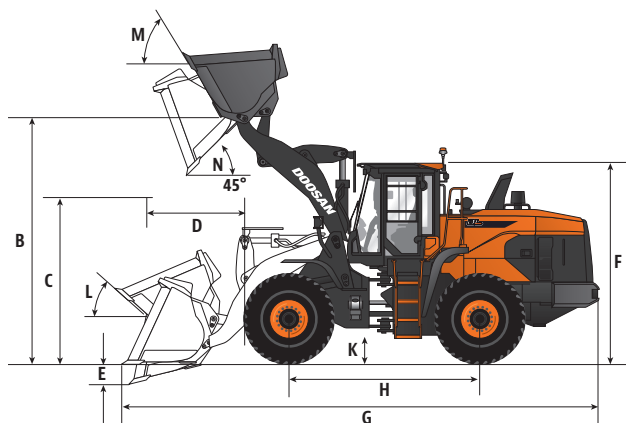
DL 320

DIMENSIONS

STANDARD ARM**HIGH-LIFT**

BUCKET CAPACITY, HEAPED ISO/SAE		4.2 yd ³ (3.2 m ³)	
BUCKET WIDTH	A	9' 6" (2920 mm)	
HINGE PIN HEIGHT, MAX.	B	13' 8" (4170 mm)	15' 4" (4690 mm)
DUMP HEIGHT (45°) – FULLY RAISED	C	10' 0" (3065 mm)	11' 9" (3588 mm)
DUMP REACH (45°) – FULLY RAISED	D	4' 0" (1220 mm)	4' 8" (1425 mm)
DIGGING DEPTH	E	3" (88 mm)	5" (149 mm)
OVERALL HEIGHT, ROPS CABIN	F	11' 6" (3,511 mm)	
OVERALL LENGTH	G	27' 2" (8270 mm)	29' 3" (8910 mm)
WHEEL BASE	H	10' 10" (3300 mm)	
WIDTH AT TIRES	I	9' 10" (3000 mm)	
TREAD WIDTH	J	7' 1" (2150 mm)	
GROUND CLEARANCE	K	1' 4" (4000 mm)	
MAX. TILT ANGLE ON GROUND		44°	45°
MAX. TILT ANGLE AT CARRY POSITION	L	48°	51°
MAX. TILT ANGLE AT FULLY RAISED	M	64°	63°
MAX. DUMP ANGLE AT FULLY RAISED	N	45°	45°
STEERING ANGLE, MAX.	O	40°	
EXTERNAL RADIUS, BUCKET EDGE	P	21' 6" (6565 mm)	22' 7" (6876 mm)
EXTERNAL RADIUS, OUTSIDE TIRE	Q	21' 10" (6660 mm)	22' 10" (6971 mm)
TIRE SIZE		23.5R25 L3	
OPERATING WEIGHT		43,506 lb. (19,730 kg)	45,261 lb. (20,530 kg)
STATIC TIPPING LOAD (STRAIGHT)		34,496 lb. (15,647 kg)	26,306 lb. (11,932 kg)
STATIC TIPPING LOAD (AT FULL TURN)		30,461 lb. (13,817 kg)	23,230 lb. (10,537 kg)
BREAKOUT FORCE		35,295 lbf. (16,010 kgf)	34,396 lbf. (15,602 kgf)

Front Lift Arm Configuration
 Standard: US10, US11, US50, US51
 High-Lift: US20, US21





STANDARD & OPTIONAL EQUIPMENT

Standard Base Package, US10

● Standard Equipment
■ Optional Equipment
– N/A

ENGINE

EMISSIONS, T4 (EPA)	●
HIGH-PRESSURE COMMON RAIL (HPCR)	●
TURBO, VARIABLE GEOMETRY (VGT)	●
COOLED EXHAUST GAS RECIRCULATION (CEGR)	●
DIESEL OXIDATION CATALYST (DOC)	●
SELECTIVE CATALYST REDUCTION (SCR)	●
DIESEL EXHAUST FLUID (DEF)	●
FUEL FILTER WITH WATER SEPARATOR	●
COOLANT RECOVERY TANK	●
DUAL ELEMENT DRY-TYPE AIR FILTER WITH EVACUATOR	●
PRE-CLEANER	●
ELECTRONIC ENGINE CONTROL (ECU)	●
AUTO-IDLE (WORKING TO STANDBY)	●
AUTO-ShUTDOWN (TIME ADJUSTABLE)	●
OVERHEAT & LOW OIL PRESSURE ENGINE PROTECTION	●
COOLING FAN – RADIATOR, VARIABLE SPEED	●
COOLING FAN – RADIATOR, AUTOMATIC REVERSIBLE	●
REMOTE DRAIN PORT – ENGINE OIL	●
BLOCK HEATER (110V)	■

HYDRAULIC

VARIABLE DISPLACEMENT AXIAL PISTON PUMP	●
CLOSED-CENTER SYSTEM	●
MAIN CONTROL VALVES – PILOT	●
MAIN CONTROL VALVES – ELECTRIC	–
REMOTE TEST PORTS	●
REMOTE DRAIN PORT – HYDRAULIC OIL	●
SPRING APPLIED HYDRAULIC RELEASE BRAKE	●
AUXILIARY HYDRAULICS (3RD VALVE)	●
AUXILIARY HYDRAULIC DETENT (EMCV ONLY)	–
AUTOMATIC BOOM/LIFT KICK-OUT, ADJUSTABLE (IN CAB)	●
AUTOMATIC RETURN-TO-DIG POSITION, ADJUSTABLE	●
AUTOMATIC RETURN-TO-DIG POSITION, ADJUSTABLE (IN CAB, EMVC ONLY)	■
BOOM FLOAT	●
LOAD ISOLATION SYSTEM	■

CABIN

STEEL, ALL-WEATHER & SOUND-SUPPRESSED	●
ROPS (ISO 3471)	●
FOPS (ISO 3449)	●
FRONT WINDOW WITH WIPER/WASHER	●
REAR WINDOW WITH WIPER	●
TINTED SAFETY GLASS	●
VISOR, RETRACTABLE	●
ADJUSTABLE SLIDING SIDE DOOR WINDOW	●

CABIN (CONTINUED)

DEFROST, FRONT WINDOW	●
LOCKABLE DOORS	●
SEAT - AIR SUSPENSION - 2" (51 MM) SEAT BELT - ADJUSTABLE HEIGHT & RECLINE - ADJUSTABLE FORE/AFT - ADJUSTABLE ARMRESTS	●
3" (76 MM) SEAT BELT	■
CONTROL STANDS - HEIGHT ADJUSTABLE - FORE/AFT ADJUSTABLE	●
STORAGE FOR OPERATOR'S MANUALS	●
MIRROR, INTERIOR REAR VIEW (1)	●
MIRROR, EXTERIOR (2) HEATED	●
MIRROR, EXTERIOR (2) HEATED - ELECTRONIC ADJUSTABLE	■
FULLY AUTOMATIC HVAC W/ AMBIENT TEMPERATURE SENSOR	●
DOOSAN SMART TOUCH DISPLAY - 8" TOUCH-ENABLED - ADJUSTABLE HEIGHT & ANGLE	●
AM/FM STEREO WITH BLUETOOTH®	■
SPEAKERS (2)	●
ANTENNA, ROOF-MOUNTED	●
EMERGENCY BREAKOUT TOOL	●
HOT/COLD BEVERAGE COMPARTMENT	●
POWER SOCKET, 12V	●
POWER SOCKET, USB	●
BEVERAGE HOLDER	●
INTERIOR LIGHT	●
COAT HANGER	●

ELECTRICAL

SYSTEM VOLTAGE – 24V	●
ALTERNATOR – 24V, 80 AMP	●
2 X 12V BATTERIES, 100 AH RESERVE CAPACITY, 900 CCA	●
BLADE-TYPE FUSE PANEL	●
MAIN CIRCUIT BREAKER	●
LIGHTS, WORK (LED): FRONT (2), REAR (2)	●
LIGHTS, WORK (LED): FRONT (4), REAR (4)	■
LIGHTS, WORK (LED): FRONT (6), REAR (6)	■
LIGHTS, HEADLIGHTS (HALOGEN) - HI/LO BEAMS (2)	●
LIGHTS, STOP, TAIL & DIRECTION INDICATORS	●
HORN	●
ROTATING BEACON	■
HOUR METER	●
ENGINE RESTART PREVENTION SYSTEM	●
REARVIEW CAMERA	●
LAPTOP SERVICE PORT	●
SELF-DIAGNOSTICS SYSTEM	●

DISPLAY MONITOR & WARNINGS

BUZZER - ENGINE OIL PRESSURE - COOLANT TEMPERATURE - TRANSMISSION OVERHEAT	●
GAUGES - FUEL LEVEL - DEF LEVEL - ENGINE COOLANT TEMPERATURE - TRANSMISSION OIL TEMPERATURE - ENGINE RPM - SPEEDOMETER - TRANSMISSION GEAR INDICATOR - BATTERY VOLTAGE - ECO - DOOSAN SMART GUIDANCE SYSTEM - DIGITAL CLOCK - TRIP METER - HOUR METER - TOTAL OPERATION TIME - FUEL CONSUMPTION	●
WARNING & INDICATOR LIGHTS - SEAT BELT - ERROR CODE - SCR WARNING - CHECK ENGINE - ENGINE OIL PRESSURE - ENGINE PRE-HEAT ENGAGED - RADIATOR COOLANT LEVEL & TEMPERATURE - AIR FILTER - FUEL LEVEL - DEF LEVEL - LOW - WATER IN FUEL - BATTERY CHARGE - LIGHTS (HIGH, MAIN, WORK, BEACON) - DIRECTION SIGNAL - EMERGENCY STEERING - HYDRAULIC OIL TEMPERATURE - HYDRAULIC CHARGE PRESSURE WARNING - HYDRAULIC PILOT FILTER - HYDRAULIC RETURN FILTER - TRANSMISSION MODE - TRANSMISSION WARNING - TRANSMISSION LOCK-UP - TRANSMISSION OIL TEMP - TRANSMISSION GEAR INDICATOR - BRAKE FLUID PRESSURE WARNING - REVERSE FAN INDICATOR - MIRROR HEAT INDICATOR - PARKING BRAKE INDICATOR	●
BACK-UP ALARM	●
SCALE SYSTEM, DOOSAN INTEGRATED SMART SCALE	■
SCALE SYSTEM, LOADRITE® SCALE	■
ADJUSTABLE STEERING COLUMN - TILTING - TELESOPING	●
EMERGENCY SECONDARY STEERING	■
THROTTLE PEDAL (ACCELERATOR)	●
BRAKE PEDAL, RIGHT	●
BRAKE PEDAL, LEFT	■
BRAKE PEDAL TRANSMISSION KICK-OUT	●
GEAR SELECTOR (FNR)	●
JOYSTICK CONTROL	●
FINGERTIP CONTROL (3-LEVER)	–
SWITCHES, CONSOLE-MOUNTED - STARTER (BUTTON) - PARKING BRAKE - PILOT CUTOFF - TRANSMISSION CUTOFF - WORK LIGHT - REVERSIBLE COOLING FAN	●
EMERGENCY STOP SWITCH	●
POWER MODE (P, S, E)	●
TRANSMISSION MODE (MANUAL / AUTO 1-4 / AUTO 2-4)	●
WIPER CONTROL PANEL	●
AUDIO CONTROL PANEL	●

FRAME & DRIVELINE

Z-BAR LIFT ARM	●
Z-BAR LIFT ARM, HIGH-LIFT	■
STEERING CYLINDER, DOUBLE-ACTING (2)	●
TRANSMISSION - 4F / 3R SPEED - FULL AUTOMATIC POWER SHIFT - TORQUE CONVERTER	●
TRANSMISSION - 5F / 3R SPEED - AUTOMATIC - POWER SHIFT - TORQUE CONVERTER LOCK-UP CLUTCH	■
DIFFERENTIALS - LIMITED SLIP FRONT - LIMITED SLIP REAR	●
DIFFERENTIALS - HYDRAULIC LOCKING FRONT - OPEN REAR	■
HYDRAULIC POWER STEERING	●
OUTBOARD PLANETARY AXLES	●
FIXED FRONT AXLE	●
OSCILLATING REAR AXLE	●
PARKING BRAKE, SPRING-APPLIED HYDRAULIC RELEASE	●
SEALED, SELF-ADJUSTING BRAKES	●
TIRES, 20.5R25 L3 BIAS	●
TIRES, 20.5R25 L3 RADIAL	■
TIRES, 23.5R25 L3 BIAS	■

OTHER

CENTRALIZED LUBRICATION	●
AUTOMATIC LUBRICATION SYSTEM	■ ¹
AIR COMPRESSOR	■
HANDRAILS, ENTRANCE & SERVICE STEPS	●
HANDRAILS, ROOF-MOUNTED	■
SKID-RESISTANT ENTRANCE STEPS	●
SKID-RESISTANT SERVICE PLATFORMS	●
DRAWBAR AND PIN	●
WHEEL CHOCKS	●
REAR FENDER, FULL	■
ADDITIONAL COUNTERWEIGHT	■ ¹
MANUALS - OPERATION & MAINTENANCE - PARTS - AEM SAFETY MANUAL	●
DOOSANCONNECT® - FREE MONITORING - NO CONTRACT OR FEES	●
VANDALISM PROTECTION - LOCKABLE PANELS - LOCKABLE FLUID FILL POINTS - ANTI-THEFT PROTECTION (PASSWORD)	●

1 Dealer-Installed Only
2 Standard on High-Lift Models

877-745-7814
na.DoosanEquipment.com/dl320-7

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