

TECHNICAL SPECIFICATIONS

ENGINE

MAKE	Doosan
MODEL	DL06
NUMBER OF CYLINDERS	6
RATED POWER GROSS (HP PER SAE J1995)	160 hp (119 kW) @ 2100 rpm
RATED POWER NET (HP PER SAE J1349)	160 hp (119 kW) @ 2100 rpm
MAXIMUM TORQUE (GROSS) (SAE J1995)	543 ft.-lb. (736 Nm) @ 1400 rpm
PISTON DISPLACEMENT	360 in³ (5.9 L)
BORE AND STROKE	3.9 in x 4.9 in (100 mm x 125 mm)
STARTER	24V, 8.6 hp (6.0 kW)
BATTERY (QTY 2)	2 x 12V, 100AH
ALTERNATOR	24V, 80 amp
AIR CLEANER	Double Elements

HYDRAULICS

MAIN PUMPS	1 x 41 gpm (1 x 155 L/min)
SYSTEM PRESSURE (WORK)	3840 psi (270 kg/cm²)
SYSTEM PRESSURE (STEER)	2830 psi (199 kg/cm²)
BOOM SPEED – UP	6.2 sec
BOOM SPEED – DOWN	3.7 sec
BUCKET SPEED – CROWD	2.0 sec
BUCKET SPEED – DUMP	1.5 sec

TRAVEL SPEEDS

TRAVEL SPEED – FORWARD (4)	4.3 / 8.0 / 15.0 / 24.2 mph (7.0 / 12.8 / 24.1 / 38.9 km/h)
TRAVEL SPEED – REVERSE (3)	4.0 / 8.1 / 12.4 / 18.6 / 24.9 mph (6.5 / 13.0 / 20.0 / 29.9 / 40 km/h)
TRAVEL SPEED – REVERSE (3)	4.6 / 8.3 / 15.7 mph (7.4 / 13.4 / 25.3 km/h)
MAXIMUM GRADE	58% (30°)

ENVIRONMENT

SOUND LEVEL (2000/14/EC)	103 dB(A)
CABIN SOUND LEVEL (ISO 6396)	70 dB(A)



REFILL CAPACITIES

FUEL TANK	62.1 gal. (235 L)
DEF TANK	7.9 gal. (30 L)
COOLING SYSTEM (RADIATOR CAPACITY)	9.0 gal. (34 L)
ENGINE OIL	6.5 gal. (24.5 L)
TRANSMISSION	8.5 gal. (32 L)
FRONT AXLE	6.1 gal. (23 L)
REAR AXLES	6.1 gal. (23 L)
HYDRAULIC SYSTEM	31.7 gal. (120 L)

HYDRAULIC CYLINDERS

STEERING (2)	2.8 in. x 1.8 in. x 16.7 in. (70 mm x 45 mm x 425 mm)
LIFT ARM (2)	4.5 in. x 3.0 in. x 31.1 in. (115 mm x 75 mm x 790 mm)
BUCKET (1)	5.1 in. x 3.1 in. x 20.3 in. (130 mm x 80 mm x 515 mm)

BORE x ROD DIAMETER x STROKE

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 220

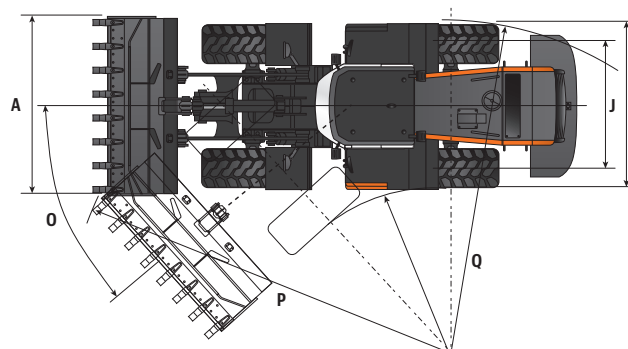
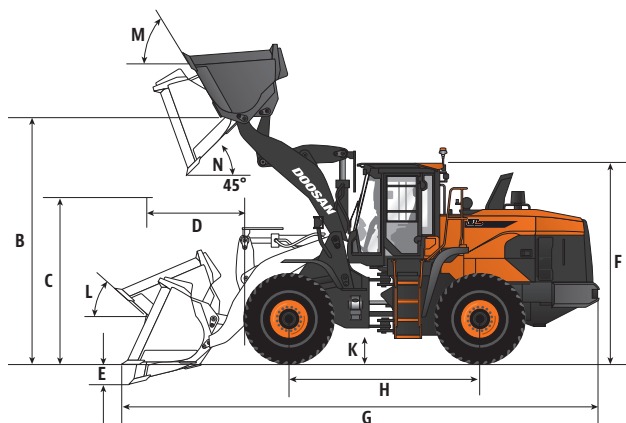
DIMENSIONS

STANDARD ARM

HIGH-LIFT

BUCKET CAPACITY, HEAPED ISO/SAE		3.0 yd ³ (2.3 m ³)	3.0 yd ³ (2.3 m ³)
BUCKET WIDTH	A	8' 4" (2550 mm)	8' 4" (2550 mm)
HINGE PIN HEIGHT, MAX.	B	12' 8" (3850 mm)	14' 1" (4,300 mm)
DUMP HEIGHT (45°) – FULLY RAISED	C	9' 3" (2815 mm)	10' 9" (3265 mm)
DUMP REACH (45°) – FULLY RAISED	D	3' 6" (1070 mm)	3' 4" (1025 mm)
DIGGING DEPTH	E	2" (61 mm)	5" (127 mm)
OVERALL HEIGHT, ROPS CABIN	F	10' 10" (3313 mm)	10' 10" (3313 mm)
OVERALL LENGTH	G	24' 5" (7450 mm)	25' 9" (7845 mm)
WHEEL BASE	H	10' (3050 mm)	10' (3050 mm)
WIDTH AT TIRES	I	8' 1" (2460 mm)	8' 1" (2460 mm)
TREAD WIDTH	J	6' 4" (1930 mm)	6' 4" (1930 mm)
GROUND CLEARANCE	K	1' 5" (434 mm)	1' 5" (434 mm)
MAX. TILT ANGLE ON GROUND		42°	43°
MAX. TILT ANGLE AT CARRY POSITION	L	48°	51°
MAX. TILT ANGLE AT FULLY RAISED	M	59°	61°
MAX. DUMP ANGLE AT FULLY RAISED	N	48°	45°
STEERING ANGLE, MAX.	O	40°	40°
EXTERNAL RADIUS, BUCKET EDGE	P	19' 7" (5975mm)	20' 2" (6155 mm)
EXTERNAL RADIUS, OUTSIDE TIRE	Q	17' 9" (5404 mm)	17' 9" (5404 mm)
TIRE SIZE		20.5R25 L3	20.5R25 L3
OPERATING WEIGHT		29,098 lb (13,199 kg)	29,463 lb (13,364 kg)
STATIC TIPPING LOAD (STRAIGHT)		23,210 lb (10,528 kg)	19,520 lb (8,854 kg)
STATIC TIPPING LOAD (AT FULL TURN)		20,461lb (9,281 kg)	17,207 lb (7,805 kg)
BREAKOUT FORCE		22,871 lbf (10,370 kgf)	22,975 lbf (10,421kgf)

Front Lift Arm Configuration
 Standard: US10, US11, US15
 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)	●
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	●
REMOTE TEST PORTS	●
REMOTE DRAIN PORT – HYDRAULIC OIL	●
SPRING APPLIED HYDRAULIC RELEASE BRAKE	●
AUXILIARY HYDRAULICS (3RD VALVE)	●
AUXILIARY HYDRAULICS (4TH VALVE)	■
AUTOMATIC BOOM/LIFT KICK-OUT, ADJUSTABLE (IN CAB)	●
AUTOMATIC RETURN-TO-DIG POSITION, ADJUSTABLE	●
BOOM FLOAT	●
LOAD ISOLATION SYSTEM	■

CABIN

STEEL, ALL-WEATHER & SOUND-SUPPRESSED	●
ROPS (ISO 3471)	●
FOPS (ISO 3449 LEVEL II)	●
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	●
SEAT, HEATED	■
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 WITH AMBIENT TEMPERATURE SENSOR	●
DOOSAN SMART TOUCH DISPLAY - 8" TOUCH-ENABLED - ADJUSTABLE HEIGHT & ANGLE	●
DOOSAN TRANSPARENT BUCKET - MULTI-CAMERA SYSTEM & CONTROLLER - IN-CAB DISPLAY	■
AM/FM STEREO WITH HANDSFREE/BLEUTOOTH™	●
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	●
HOURLY 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 STEERING	■
THROTTLE PEDAL (ACCELERATOR)	●
BRAKE PEDAL, RIGHT	●
BRAKE PEDAL, LEFT	■
INTELLIGENT CLUTCH CUT-OFF	●
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	●
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	●
OUTBOARD PLANETARY AXLES – HEAVY-DUTY	—
FIXED FRONT AXLE	●
OSCILLATING REAR AXLE	●
PARKING BRAKE, SPRING-APPLIED HYDRAULIC RELEASE	●
SEALED, SELF-ADJUSTING BRAKES	●
TIRES, 20.5R25 L3 RADIAL	●
TIRES, 20.5R25 L3 MICH XHAT2	■
TIRES, 23.5R 25 BRIDGESTON VJT L3 BIAS	■

OTHER

CENTRALIZED LUBRICATION	●
AIR COMPRESSOR	■
HANDRAILS, ENTRANCE & SERVICE STEPS	●
HANDRAILS, ROOF-MOUNTED	■
ROOF COVER	■
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/dl220-7

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