



## TECHNICAL SPECIFICATIONS

### ENGINE

MAKE	Scania
MODEL	DC13
NUMBER OF CYLINDERS	6
RATED POWER GROSS (HP PER SAE J1995)	345 hp (257 kW) @ 1800 rpm
RATED POWER NET (HP PER SAE J1349)	345 hp (257 kW) @ 1800 rpm
MAXIMUM TORQUE (GROSS) (SAE J1995)	1180 lbf.ft. (163 kgf-m) @ 1300 rpm
PISTON DISPLACEMENT	775 in <sup>3</sup> (12.7 L)
BORE AND STROKE	5.1 x 6.3 in. (130 x 160 mm)
STARTER	24V, 8.6 hp (6.0 kW)
BATTERY (QTY 2)	2 x 12V, 200AH
ALTERNATOR	28V, 100 amp
AIR CLEANER	Double Elements

### HYDRAULICS

MAIN PUMPS	1 x 97 gpm (1 x 368 L/min)
SYSTEM PRESSURE (WORK)	4641 psi (326 kgf/cm <sup>2</sup> )
SYSTEM PRESSURE (STEER)	3046 psi (210 kg/cm <sup>2</sup> )
BOOM SPEED - UP	6.1 sec
BOOM SPEED - DOWN	2.7 sec
BUCKET SPEED - CROWD	2.3 sec
BUCKET SPEED - DUMP	1.7 sec

### TRAVEL SPEEDS

TRAVEL SPEED - FORWARD (4)	3.7 / 7.1 / 15.5 / 22.7 mph (6.0 / 11.5 / 24.9 / 36.6 km/h)
TRAVEL SPEED - FORWARD (5) (US15 PACKAGE ONLY)	3.9 / 7.3 / 11.4 / 16.5 / 24.9 mph (6.2 / 11.7 / 18.4 / 26.5 / 40.0 km/h)
TRAVEL SPEED - REVERSE (3)	3.7 / 7.1 / 15.5 mph (6 / 11.5 / 24.9 km/h)
MAXIMUM GRADE	51% (27°)

### ENVIRONMENT

SOUND LEVEL (2000/14/EC)	106 dB(A)
CABIN SOUND LEVEL (ISO 6396)	72 dB(A)



### REFILL CAPACITIES

FUEL TANK	87.7 gal. (332 L)
DEF TANK	15.9 gal. (60 L)
COOLING SYSTEM (RADIATOR CAPACITY)	13.7 gal. (52 L)
ENGINE OIL	11.9 gal. (45 L)
TRANSMISSION	15.9 gal. (60 L)
FRONT AXLE	16.4 gal. (62 L)
REAR AXLES	11.1 gal. (42 L)
HYDRAULIC SYSTEM	59.7 gal. (226 L)

### HYDRAULIC CYLINDERS

STEERING (2)	3.9 in. x 2 in. x 17.7 in. (100 mm x 50 mm x 450 mm)
LIFT ARM (2)	6.7 in. x 4.1 in. x 31.1 in. (170 mm x 105 mm x 789 mm)
BUCKET (1)	7.5 in. x 4.7 in. x 23.2 in. (190 mm x 120 mm x 590 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 480

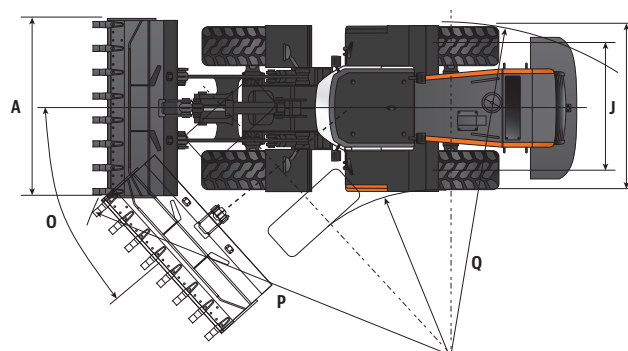
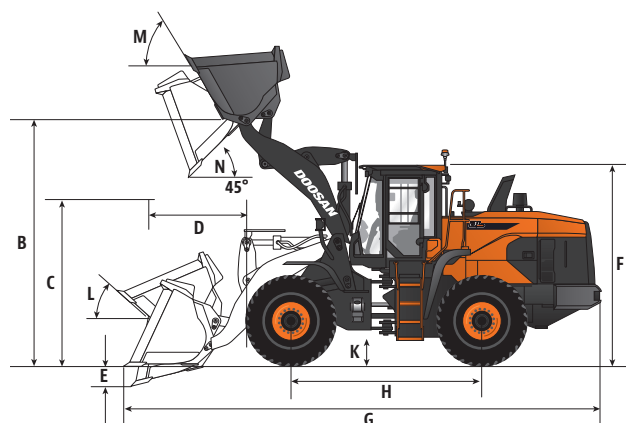
## DIMENSIONS

### STANDARD ARM

### HIGH-LIFT

BUCKET CAPACITY, HEAPED ISO/SAE		6.3 yd <sup>3</sup> (4.8 m <sup>3</sup> )	
BUCKET WIDTH	A	10' 9" (3300 mm)	
HINGE PIN HEIGHT, MAX.	B	14' 9" (4500 mm)	16' 4" (4985 mm)
DUMP HEIGHT (45°) – FULLY RAISED	C	10' 7" (3240 mm)	12' 2" (3725 mm)
DUMP REACH (45°) – FULLY RAISED	D	4' 2" (1275 mm)	4' 10" (1480 mm)
DIGGING DEPTH	E	4" (102 mm)	6" (168 mm)
OVERALL HEIGHT, ROPS CABIN	F	11' 11" (3635 mm)	
OVERALL LENGTH	G	29' 11" (9110 mm)	31' 10" (9715 mm)
WHEEL BASE	H	11' 7" (3550 mm)	
WIDTH AT TIRES	I	10' 9" (3300 mm)	
TREAD WIDTH	J	7' 6" (2300 mm)	
GROUND CLEARANCE	K	1' 5" (455 mm)	
MAX. TILT ANGLE ON GROUND		45°	46°
MAX. TILT ANGLE AT CARRY POSITION	L	49°	53°
MAX. TILT ANGLE AT FULLY RAISED	M	66°	62°
MAX. DUMP ANGLE AT FULLY RAISED	N	46°	
STEERING ANGLE, MAX.	O	40°	
EXTERNAL RADIUS, BUCKET EDGE	P	23' 5" (7160 mm)	24' 5" (7450 mm)
EXTERNAL RADIUS, OUTSIDE TIRE	Q	21' 1" (6420 mm)	
TIRE SIZE		26.5R25 – L3	
OPERATING WEIGHT		58,354 lb (26.47 kg)	58,938 lb (26.73 kg)
STATIC TIPPING LOAD (STRAIGHT)		45,323 lb. (20,558 kg)	35,005 lb. (15,878 kg)
STATIC TIPPING LOAD (AT FULL TURN)		40,021 lb. (18,153 kg)	30,904 lb. (14,018 kg)
BREAKOUT FORCE		51,931 lbf. (23,555 kgf)	49,683 lbf. (22,536 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	●
REMOTE TEST PORTS	●
REMOTE DRAIN PORT – HYDRAULIC OIL	●
SPRING APPLIED HYDRAULIC RELEASE BRAKE	●
AUXILIARY HYDRAULICS (3RD 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)	●
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, 100 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	●
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	■ <sup>1</sup>
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	■ <sup>1</sup>
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



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