



TECHNICAL SPECIFICATIONS

ENGINE

MAKE	Scania
MODEL	DC13
NUMBER OF CYLINDERS	6
RATED POWER GROSS (HP PER SAE J1995)	394 hp (294 kW) @ 1800 rpm
RATED POWER NET (HP PER SAE J1349)	394 hp (294 kW) @ 1800 rpm
MAXIMUM TORQUE (GROSS) (SAE J1995)	1591 lbf.ft. (220 kgf-m) @ 1200 rpm
PISTON DISPLACEMENT	775 in ³ (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 62 gpm (1 x 235 L/min)
SYSTEM PRESSURE (WORK)	3626 psi (255 kgf/cm ²)
SYSTEM PRESSURE (STEER)	3118 psi (219 kg/cm ²)
BOOM SPEED – UP	6.4 sec
BOOM SPEED – DOWN	3.8 sec
BUCKET SPEED – CROWD	1.2 sec
BUCKET SPEED – DUMP	1.5 sec

TRAVEL SPEEDS

TRAVEL SPEED – FORWARD (4)	3.7 / 7.3 / 11.4 / 22.3 mph (6.0 / 11.7 / 18.3 / 35.9 km/h)
TRAVEL SPEED – FORWARD (5) (US15 PACKAGE ONLY)	3.9 / 7.8 / 12.3 / 17.5 / 24.9 mph (6.3 / 12.5 / 19.8 / 28.1 / 40.0 km/h)
TRAVEL SPEED – REVERSE (3)	3.7 / 7.3 / 15.7 mph (6.0 / 11.7 / 25.2 km/h)
MAXIMUM GRADE	58% (30°)

ENVIRONMENT

SOUND LEVEL (2000/14/EC)	111 dB(A)
CABIN SOUND LEVEL (ISO 6396)	73 dB(A)



REFILL CAPACITIES

FUEL TANK	116.8 gal. (441 L)
DEF TANK	15.9 gal. (60 L)
COOLING SYSTEM (RADIATOR CAPACITY)	14.3 gal. (54 L)
ENGINE OIL	11.9 gal. (45 L)
TRANSMISSION	17.7 gal. (67 L)
FRONT AXLE	16.5 gal. (62.5 L)
REAR AXLES	16.9 gal. (64 L)
HYDRAULIC SYSTEM	63.9 gal. (242 L)

HYDRAULIC CYLINDERS

STEERING (2)	4.3 in. x 2.4 in. x 18.3 in. (110 mm x 60 mm x 465 mm)
LIFT ARM (2)	7.5 in. x 4.1 in. x 35 in. (190 mm x 105 mm x 890 mm)
BUCKET (1)	9.4 in. x 6.3 in. x 23.8 in. (240 mm x 160 mm x 605 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.

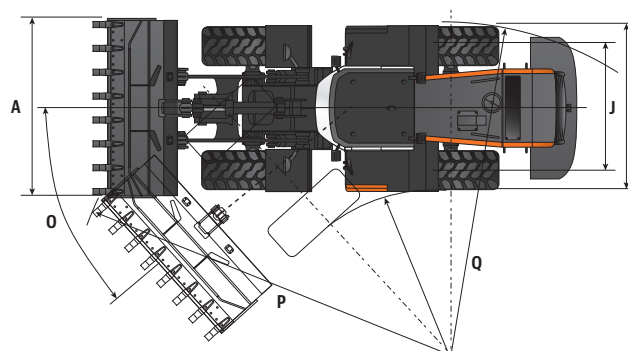
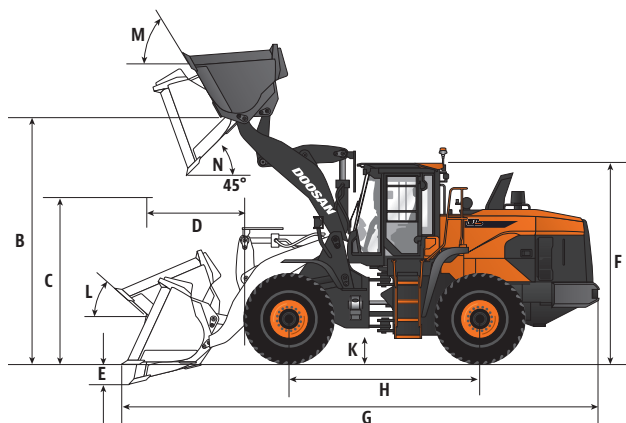
DL 580

DIMENSIONS

HEAVY-DUTY

BUCKET CAPACITY, HEAPED ISO/SAE		8.4 yd ³ (6.4 m ³)
BUCKET WIDTH	A	11' 3" (3424 mm)
HINGE PIN HEIGHT, MAX.	B	15' 8" (4780 mm)
DUMP HEIGHT (45°) – FULLY RAISED	C	10' 5" (3180 mm)
DUMP REACH (45°) – FULLY RAISED	D	5' 4" (1640 mm)
DIGGING DEPTH	E	3" (85 mm)
OVERALL HEIGHT, ROPS CABIN	F	12' 7" (3845 mm)
OVERALL LENGTH	G	32' 11" (10,050 mm)
WHEEL BASE	H	12' 1" (3700 mm)
WIDTH AT TIRES	I	11' 2" (3405 mm)
TREAD WIDTH	J	7' 11" (2420 mm)
GROUND CLEARANCE	K	1' 7" (490 mm)
MAX. TILT ANGLE ON GROUND		43°
MAX. TILT ANGLE AT CARRY POSITION	L	48°
MAX. TILT ANGLE AT FULLY RAISED	M	66°
MAX. DUMP ANGLE AT FULLY RAISED	N	46°
STEERING ANGLE, MAX.	O	40°
EXTERNAL RADIUS, BUCKET EDGE	P	25' (7620 mm)
EXTERNAL RADIUS, OUTSIDE TIRE	Q	21' 11" (6675 mm)
TIRE SIZE	875 65R29 - L4	
OPERATING WEIGHT	74,494 lb. (33,790 kg)	
STATIC TIPPING LOAD (STRAIGHT)	60,550 lb. (27,465 kg)	
STATIC TIPPING LOAD (AT FULL TURN)	53,462 lb. (24,250 kg)	
BREAKOUT FORCE	64,071 lbf. (29,092 kgf)	

Front Lift Arm Configuration
Heavy-Duty: US30





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	●
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) 3-POINT SEAT BELT	●
CONTROL STANDS - SEAT INTEGRATED - 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	■
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 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 - 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, 875/65 R29 L4 RADIAL	●

OTHER

CENTRALIZED LUBRICATION	●
AUTOMATIC LUBRICATION SYSTEM	●
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	●
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)	●

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