

Doosan

DX180LC-5

Engine	<p>Perkins 1204F: 4-Cycle Water Cooled</p> <p>Electronically Controlled Common Rail Direct Injected</p> <p>T4: Cooled Exhaust Gas Recirculation + Diesel Oxidation Catalyst + Selective Catalytic Reduction with Diesel Exhaust Fluid</p> <p>131HP(SAE J1995) Gross Flywheel Horsepower @ 2000 rpm</p> <p>Displacement: 269cu.in., 4 Cylinder</p> <p>Bore 105mm Diameter x 127mm Stroke</p> <p>Torque: 391ft. lbs @ 1,400 rpm</p> <p>High Idle 2000 ± 25rpm, Low Idle 900 ± 10 rpm</p> <p>Auto Idle System</p> <p>Auto Shut Down</p> <p>Equipped with the Fuel Pre-filter with Water Separator</p> <p>Radiator Reserve Tank</p> <p>Large Capacity Double Element Air Cleaner with Evacuate</p> <p>Electronic Engine Speed Control</p>
Hydraulic	<p>Pilot Operated Control Valves, (9) Spools</p> <p>Main Pump: Swash Plate Axial Piston Type, Pressure Setting 4694 psi normal / 4978 psi boost</p> <p>2 X 40gpm</p> <p>Pilot Circuit, Gear Type Pump</p> <p>Swing Motor, Axial Piston Type</p> <p>Swing Speed Control up to 10.52RPM</p> <p>Maximum Swing Torque 46,653 ft.lbs.</p> <p>Spring Set, Hydraulic-released Brakes</p> <p>Travel Motor: Axial Piston Type (High, Low, Auto)</p> <p>Travel Speed (High/Low): 3.0 mph 1.8 mph</p> <p>Maximum Tractive Force 45,195 ft.lbs. in low speed</p> <p>In-Shoe Design, Oil Disc Parking Brake</p> <p>Cross Sensing Pump Control for Fuel Saving</p> <p>Four Operating Modes, Four Power Modes</p> <p>One-way Auxiliary Hydraulics</p> <p>Adjustable Auxiliary Flow and Pressure up to 10 presets</p> <p>Computer-aided Pump Power Control</p> <p>e-EPOS (Electronic Power Optimizing System) Controller</p>
	<p>Steel, All Weather Sound Suppressed ROPS Type</p> <p>Fully Automatic Controlled Air Conditioner with Heat</p> <p>7" Multi-function Color LCD Monitor Panel</p>

Cabin

Rear & Side View Camera

Cigarette Lighter

Door Locks

Front Windshield Wiper with Washer

Radio: MP3 Stereo with CD Player

Audio Control Panel On/Off Switch, Control Volume, Channel Select

Switches:

Auxiliary Mode Switch

Engine Emergency Stop Switch

Work Light Switch

Travel Speed Selector Switch

Breaker, Power-up, Shear Switch

Glass Antenna

Safety Lock Lever

Seat:

Heated Air Suspension with Seat Belt (2 Wide)

Reclining, Height Adjustable

Adjustable Arm Rests

Sliding Control Console

Skylight

Pull Up Type Front Window

Removable Lower Front Window with Storage Behind Seat

Sliding Side Windows

Front Window Air Defroster

Travel Pedals with Hand Levers

Emergency Breakout Tool

Lunch Box with insulation

12V Power Socket

Height Adjustable Control Stands

Joystick Lever with 3 Switches, Two Button and One Rotate

Cup Holder

Room Light

Serial Communication Port for Laptop PC Interface (DMS)

Viscous Cab Mounts

Operation Modes:

Power Mode Select Button (P+,P,S,E)

	<p>Work Mode Selector Button (Excavation, Lifting, Breaker and Shear)</p> <p>Flow Rate Control</p> <p>Auto Idle Select Button</p> <p>4 Display Selection Buttons</p> <p>Rear View Camera Button</p> <p>Jog Switch to Control Monitor</p>
Electrical	<p>Alternator: 24 V,85 amp</p> <p>Batteries: (2) 12 V, 100amp, 900CCA</p> <p>Starter: 24 V x 4.5 KW</p> <p>Lights: Halogen Working Light (2) Machine, (2) Boom</p> <p>Electric Horn</p> <p>Hour Meter</p>
Display Monitor and Warnings	<p>Alarm Buzzer for:</p> <ul style="list-style-type: none"> Engine Oil Pressure Coolant Temperature <p>Electronic Monitor for:</p> <ul style="list-style-type: none"> Engine Coolant Temperature Gauge Fuel Gauge Hydraulic Oil Temperature Gauge DEF Level <p>Multi-function Display for:</p> <ul style="list-style-type: none"> Engine RPM Battery Voltage Front and Rear Hydraulic Pump Pressure ECO Gauge Hydraulic Oil Overheating Warning Fuel Shortage Warning Air Cleaner Clogging Warning Pilot Filter Clogging Warning Return Filter Clogging Warning Digital Clock Engine Check Warning Light Engine Oil Pressure Warning Light Charge Warning Light Preheat Indicator Light Coolant Temperature Warning Light

	Work Light Indicator Light
	Water in the Fuel Warning Light
	DEF Low Level Warning Symbol
	SCR Failure Warning Symbol
Undercarriage	Track Guards and Chains with Adjusters
	Track Rollers: (2) Upper, (7) Lower Each Side
	Triple Grouser Shoes, 45 Each Side
Other	Joystick Pattern Change Valve
	Centralized Lube Points
	Large Handrail
	Punched Metal Anti-slip Plates
	Engine Restart Prevention System
	Self-Diagnostic System
	Manuals, Parts and Operator's
	Ultra-hard Wear-resistant Disc at the Bucket Pivot
	Vandalism Protection (All panels and fill points lockable)
	GPS 3 Year Subscription

DX180LC-5-US20	DX180LC-5 BASE MACHINE W/O BUCKET		
	17' (5.2M) BOOM		
	8' 6" (2.6 M) ARM		
	27.6" (700 mm) TRIPLE GROUSER SHOE		
	7,055 LBS (3.2 METRIC TON) COUNTERWEIGHT		
	ONE AND TWO WAY AUXILIARY PIPING TO END OF THE ARM WITH ONE WAY FLOW		

Specifications					
	DX180LC-5				
Configuration		US20	US30	US40	US60
		Engine			
Model		DX180LC-5			
Rated Flywheel Power (Gross)		131.3 hp @ 2,000 rpm			
Rated Horse Power (Net)		127.3 hp @ 2,000 rpm			
Max. Torque (Net)		391 lbf-ft @ 1,400 rpm			
Engine Emissions Tier (EPA)		T4			
Engine After Treatment		CEGR+DOC+SCR with DEF			
Engine Make		Perkins			
Engine Name		Perkins 1204F			
Engine Number of Cylinders		4			
Engine Displacement		269 in³			
		Hydraulic System			
Main Pump: Displacement		4.64 in³/rev			
Control Valve: Relief Valve Pressure (Normal)		4,694 psi			
Control Valve: Relief Valve Pressure (Boost)		4,978 psi			
Main Pump: Max. Flow Rate (each)		40.15 gal/min			
Main Pump: Quantity		2			
Main Pump: Main Relief Pressure					
		Undercarriage			
Upper Rollers: Quantity Per Side		2			
Lower Rollers: Quantity Per Side		7			
Track Length		13' 4"			
Track Link: Track Gauge		7' 2"	7' 2"	7' 2"	6' 6"
Ground Clearance		1' 6"			
Ground Pressure		5.4 psi	4.93 psi	5.4 psi	6.3 psi
		Swing Mechanism			

Swing Performance: Max Swing Torque	46653 lbf-ft			
Swing Performance: Max Swing Speed (At Efficiency)	10.52 rpm			
Travel System/Drive Mechanism				
Travel performance: Traction Force (Highest Value)	45195 lbf-ft @ 100 %			
Travel performance: Traveling Speed - Low (XXX/)	1.93 mph			
Travel performance: Traveling Speed - High (/XXX)	3.17 mph			
Travel performance: Gradeability	70°			
Weights				
Operating Weight	43,224 lb	43,559 lb	45,649 lb	42,122 lb
Standard Boom Length	17.06 ft			
Standard Arm Length	8.53 ft	10.17 ft	8.53 ft	8.53 ft
Standard Bucket Size	0.92 yd³	0.75 yd³	0.92 yd³	0.92 yd³
Shoe Width	2' 3"	2' 7"	2' 3"	1' 11"
Dimensions				
Shipping Height - Hose (With Attachment)	9' 4"	10' 4"	9' 4"	9' 4"
Shipping Length (Without Attachment)	28' 9"	29' 0"	28' 9"	28' 9"
Shipping Width (Standard)	9' 6"	9' 10"	9' 6"	8' 4"
Overall Height Over Cab	9' 7"			
Working Range				
Max Digging Reach (Ground)	29' 7"	30' 9"	29' 7"	29' 7"
Max Digging Height	30' 1"	29' 9"	30' 1"	30' 1"
Max Digging Depth	20' 0"	21' 8"	20' 0"	20' 0"
Max Loading Height	21' 3"	21' 3"	21' 3"	21' 3"
Digging Force (ISO)				
Arm Digging Force - Pressure up	20,503 lb	18,960 lb	20,503 lb	20,503 lb
Bucket Digging Force - Pressure up	28,881 lb			
Arm Digging Force - Normal	19,180 lb	17,857 lb	19,180 lb	19,180 lb
Refill Capacities				
Fuel Tank	77.14 gal			
Hydraulic System	55.48 gal			
Engine Coolant	6.6 gal			
Engine Oil	2.11 gal			
Hydraulic Tank	47.82 gal			
Environment				
Noise Level: Guaranteed Sound Power Level	102 dBA			
Noise Level: Operator	68 dBA			
Lift Capacity				
Lifting Capacity over front @ Horizontal Distance - 10 ft Above Ground	15,270 lb @ 15 ft	13,740 lb @ 15 ft	14,940 lb @ 15 ft	15,270 lb @ 15 ft
Lifting Capacity over front @ Horizontal Distance - Ground Level	18,270 lb @ 15 ft	16,290 lb @ 15 ft	18,920 lb @ 15 ft	17,750 lb @ 15 ft
Lifting Capacity over front @ Horizontal Distance - 10 ft Below Ground	16,320 lb @ 15 ft	16,090 lb @ 15 ft	16,230 lb @ 15 ft	16,320 lb @ 15 ft