

Doosan

DX85R-3

Engine:

Yanmar 4TNV98C : Naturally Aspirated

Electronically Controlled Common Rail Direct Injected

DPF / DOC Tier4 Treatment System

59.4 HP Gross @ 2,100 rpm

58.6 HP Net @ 2,100 rpm

Max. Torque 178 ft. lbs @ 1365 rpm

Displacement 202.5 cu.in., 4 Cylinder

Auto Idle

Auto preheat cold start assist

Radiator Reserve Tank

High Idle 2250 \pm 10 rpm, Low Idle 1050 \pm 10 rpm

Alternator: 12 V, 80 Amp.

Battery: 12V Battery, 900 CCA @ 0° F (-18° C)

Starter: 12 Volt, 3.0 Kw

Hydraulic:

Control Valve: Pilot Operated, (9) Spools

Main Pump: Load Sensing - Tandem, Axial Piston (40 US gpm)

Pressure Setting (4,267 PSI)

Auxiliary Hydraulics Flow (26.4 gpm)

Pilot Circuit: Gear Type Pump (6.1 US gpm)

Swing Motor: Axial Piston Type, 2 Stage

Swing Speed Control up to 9.5 RPM

Swing Brake

Travel Motors: Axial Piston, 2-Speed

Travel Speed (High/Low), 2.9 mph / 1.7 mph

Travel Brake

Overload Relief Valves

Main Relief Valves

ROPS / TOPS Steel, All Weather

Air Conditioner with Heater

AM/FM Stereo with CD Player & MP3 Port

Power Socket, 12V

Cab Door Lock

Front Windshield Wiper with Washer

Safety Glass, Tinted

Controls - Safety Lock Lever

Seat:

Deluxe Reclining with Seat Belt (2")

Reclining, Height Adjustable

Fully Adjustable Arm Rests

Tilting / Sliding Control Console

Load Adjustment Knob

Suspension

Skylight

Slide-up Front Window

Sliding Side Windows

Travel Control: Hand Levers/Foot pedals

Emergency Breakout Tool

Cab:

Electrical:	Horn
	Lights:
	(1) Cabin, (2) Boom
	Alarm Buzzer for:
	Engine Overheat
	Engine Oil Pressure
	Electronic Monitor for:
	Air Filter Restriction Indicator
	Auto-Idle Indicator
	Auxiliary Flow Mode Indicator
	Clock - Day & Time
	DPF Status Indicator
	Engine Check Warning Light
	Engine Oil Pressure Light w/ Audible Alarm
	Engine Temperature Gauge w/ Audible Alarm
	Fuel Gauge with low fuel indicator
	Hour Meter
	Pre-Heat (cold start assist) Indicator
	Two Speed Travel Indicator Light
Undercarriage:	Track Adjusters
	Track Rollers: (1) Upper, (5) Lower each side
	17.7 inch (450 mm) Rubber Tracks
	Dozer Blade, Front w/Float
	Joystick Pattern Selector Valve (ISO/STD)
	Air Cleaner (Dual Filter)

Other:	Counterweight: 2,915 lb. (1,322 kg.)
	Sealed Pins and Bucket Linkages
	Joystick Lever, Dozer (High/Low Travel Speed Switch
	Swing Boom (Left: 70 Degrees, Right: 50 Degrees)
	Auto-Idle
	Auto-Shift, Two Speed Travel
	Auxiliary Hydraulics - w/ Quick Couplers & Selectable Flow Rates
	Boom Load Lock Valve
	Control Console Locks
	Fingertip Auxiliary Hydraulics & Boom Swing
	Mirrors - Left and Right Side
	Password Protection System
	Rubber Tracks
	Travel Motion Alarm

PACKAGE ARRANGEMENT

CODE	DESCRIPTION	APPROX WEIGHT	LIST PRICE
DX85R-3-US10	DX85R-3-US10 DX80R-3 BASE MACHINE W/O BUCKET 11' 1" (3.38 M) BOOM 7' 5" (2.25 M) ARM 17.7" (450 mm) Rubber Tracks Dozer Blade: 7' 7" x 1' 4" (2300 mm x 408 mm)		

Specifications	
	DX85R-3
Configuration	US10
Engine	
Model	DX85LC-3

Rated Flywheel Power (Gross)	59.4 hp @ 2,100 rpm (SAE-J1995)	
Rated Horse Power (Net)	58.6 hp @ 2,100 rpm	
Max. Torque (Net)	178 lbf-ft @ 1,365 rpm	
Engine Emissions Tier (EPA)	T4	
Engine After Treatment		
Engine Make	Yanmar	
Engine Name	Yanmar 4TNV98C-VDB6/8	
Engine Number of Cylinders	4	
Engine Displacement	203 in³	
Hydraulic System		
Main Pump: Displacement		
Control Valve: Relief Valve Pressure (Normal)	4,054 psi	
Control Valve: Relief Valve Pressure (Boost)	3,983 psi	
Main Pump: Max. Flow Rate (each)	40 gpm	
Main Pump: Quantity	39.1 gal	
Main Pump: Main Relief Pressure	4267	
Undercarriage		
Upper Rollers: Quantity Per Side	1	
Lower Rollers: Quantity Per Side	5	
Track Length	9' 3"	
Track Link: Track Gauge	6' 0"	
Ground Clearance	1'2"	
Ground Pressure	5.55 psi	
Swing Mechanism		
Swing Performance: Max Swing Torque	14104 lbf-ft	
Swing Performance: Max Swing Speed (At Efficiency)	9.5 rpm	
Travel System/Drive Mechanism		
Travel performance: Traction Force (Highest Value)	48 lbf-ft	
Travel performance: Traveling Speed - Low (XXX/)	1.68 mph	
Travel performance: Traveling Speed - High (/XXX)	2.92 mph	
Travel performance: Gradeability	58°	
Weights		
Operating Weight	18,960 lb	
Standard Boom Length	11.09 ft	
Standard Arm Length	7.38 ft	
Standard Bucket Size	0.37 yd³	
Shoe Width	1' 5"	
Dimensions		
Shipping Height - Hose (With Attachment)	8' 1"	
Shipping Length (Without Attachment)	20' 6"	
Shipping Width (Standard)	7' 6"	
Overall Height Over Cab	8' 7"	
Working Range		

Max Digging Reach (Ground)	23' 11"
Max Digging Height	22' 11"
Max Digging Depth	15' 6"
Max Loading Height	16' 4"
Digging Force (ISO)	
Arm Digging Force - Pressure up	8,069 lb
Bucket Digging Force - Pressure up	14,509 lb
Arm Digging Force - Normal	8,069 lb
Refill Capacities	
Fuel Tank	29.1 gal
Hydraulic System	39.1 gal
Engine Coolant	2.6 gal
Engine Oil	2.7 gal
Hydraulic Tank	23 gal
Environment	
Noise Level: Guaranteed Sound Power Level	98 dBA
Noise Level: Operator	71 dBA
Lift Capacity	
Lifting Capacity over front @ Horizontal Distance - 10 ft Above Ground	2,380 lb @ 20 ft
Lifting Capacity over front @ Horizontal Distance - Ground Level	1,810 lb @ 20 ft
Lifting Capacity over front @ Horizontal Distance - 10 ft Below Ground	5,020 lb @ 10 ft