

## Doosan

## DL280-5

ENGINE:	<p>Doosan DL06: Turbo Charged, Air to Air Intercooled, T4F</p> <p>Electronically Controlled Common Rail Direct Injected</p> <p>172 SAE Gross Flywheel Horsepower @ 2,100 RPM</p> <p>360 cu.in., 6 Cylinder</p> <p>Air Cleaner: Dry Type (Double Stage)</p> <p>Engine Self Diagnostic System</p> <p>Plastic Reversible Fan Driven by Hydraulic Fan Motor</p> <p>Auto Idle</p> <p>Auto Shut Down</p>
HYDRAULIC SYSTEM:	<p>Variable Displacement Axial Piston Pump</p> <p>Closed-Center (LS) Hydraulic Systems with Variable Pumps, Pilot Control with Float Spool, 3 Spools</p> <p>3rd Valve with Lines &amp; Control (lines terminate at boom base)</p> <p>Automatic Boom / Lift - Kick-Out (Set and Adjust from inside the cab)</p> <p>Return-to-Dig Position (Adjustable Electro-Magnetic Switch outside cab)</p> <p>Accumulator for Emergency Pilot System</p>
BRAKE SYSTEM:	<p>Dual Pedal Braking system</p> <p>4 Wheel Outboard Wet Disc Brakes with Separate Front &amp; Rear Circuits</p> <p>Accumulator for Emergency Stopping</p> <p>Parking Brake: Spring Apply Hydraulic Release, sliding caliper disc brake on the face of</p>

	the transmission
STEERING:	Load Sensing Type with a Flow Amplifier and a Priority Valve
	40 Degree Articulation, Full Hydraulic Power Steering
	Steering Cylinder Cushion Valve
	Tilt and Telescopic Steering Wheel
	Air Conditioner
	Heater & Defroster
	Double Filtered Air Cab
	Combination Lever
	Accelerator Pedal
	Transmission Lever
	Rear Hinged & Locking Doors (Both sides) / Right side is emergency access door
	Radio, AM-FM Stereo, MP3, with CD
	Switches:
	Transmission Shift Switch (Manual, Auto 1-4 and Auto 2-4)
	Economy Mode Switch (Power, Normal & Economy Modes)
	Headlight Switch
	Front Work Light Switch
	Rear Work Light Switch

CAB WITH ROPS:

Rear Wiper Switch

Pilot Cutoff Switch

Parking Brake Switch

Transmission Cutoff Switch

Mirror Heater Switch

Reverse Fan Switch

Display Screen Control Switch

Display Screen Selector Switch

Hazard Warning Light Switch

Boom Kick Out Switch

DESOX Switch

Rear View Mirrors with Heat

Safety Glass, Tinted

Fully Adjustable Air Suspension Seat

Seat Belt (2 in. Wide)

Sliding Door Windows (Left Side)

Sound Suppression

Sun Visor

Windshield Wipers & Washers - Front and Rear

Digital Clock

Arm Rest

12 Volt Power Supply

Cup Holders

Cigarette Lighter

Sun Glass Holder

Full Automatic Power Shift

4 Forward & 3 Reverse Speeds

Differentials - US10 = Limited Slip Front and Rear

US11 = Hydraulic Locking Front & Conventional (Open) Rear

US20 = Limited Slip Front and Rear

US21 = Hydraulic Locking Front & Conventional (Open) Rear

US30 = Heavy Duty Hydraulic Locking Front & Conventional (Open) Rear

US40= Heavy Duty Hydraulic Locking Front & Conventional (Open) Rear

Self Adjusting Brake Disc Clearance

Torque Converter, Fixed Wheel Stator

Electrical T/M Clutch Disconnect with Service Brake

TRANSMISSION / AXLES:

T/M Down Shift on Shift Control and Joy Stick Control

Transmission Oil Level Gauge

Alternator, 80 Amp., 24 Volt

Batteries, (2) 12 Volt, 100 AH, 900 CCA

Starter, 24 Volt 6 kw

Horn

Hour Meter

Lights:

(2) Front Headlights with High / Low Beams

(2) Stop Lights, Tail Lights & Directional Indicators

(2) Front & Rear Floodlights

Alarm Buzzer for:

Transmission Overheat

Engine Oil Pressure

Coolant Temperature

Electronic Monitoring & Display for:

Fuel Level Gauge

Engine Coolant Temperature Gauge

Transmission Oil Temperature Gauge

ELECTRICAL:

Speedometer

Tachometer

ECO Bar

Transmission Actual Gear

Transmission Gear Select

Preheat Indicator Light

Air Cleaner Clogging Warning Light

Multi Function Gauge (can display one of the following at a time)

Trip Meter

Battery Voltage

Total Time of Operation

Left Turn and Hazard Warning Light

Right Turn and Hazard Warning Light

High Beam Indicator Light

Work Light Indicator Light

Reverse Fan Indicator Light

Mirror Heater Indicator Light

Parking Brake Indicator Light

	F/R (Forward/Reverse) Selector Indicator Light
	Brake Fluid Pressure Warning Light
	Charge Warning Symbol
	Engine Oil Pressure Warning Symbol
	Transmission Warning Symbol
	Engine Warning Symbol
	Water in Fuel Warnings Symbol
	Back-Up Alarm
TIRES:	20.5X25-16PR (L3) Bias
	US20, US21 AND US40 High lift, 0.2 Ton Additional Counterweight
	Single Lever Control with FNR Control Buttons
	Air Cleaner with Pre-cleaner
	Steel Engine Side Covers
	Boom / Float
	Drawbar and Pin
OTHER STANDARD EQUIPMENT:	Neutral Safety Start System
	Muffler
	Fenders, Front & Rear

Ladders & Service Platforms

Manuals, Parts & Operator's

GPS with 3 Year Subscription

Remote Drain Ports

Specifications						
	DL280-5					
Configuration	US10	US11	US20	US21	US30	US40
Engine						
Model	DL06P					
Rated Flywheel Power (Gross)	171.7 hp @ 2,100 rpm					
Rated Horse Power (Net)	171.7 hp @ 2,100 rpm					
Max. Torque (Net)	593 lbf-ft @ 1,400 rpm					
Engine Emissions Tier (EPA)	T4					
Engine After Treatment	DOC, SCR					
Engine Make	Doosan					
Engine Name						
Engine Number of Cylinders	6					
Engine Displacement	360 in <sup>3</sup>					
Hydraulic System						
Main Pump: Displacement	6.1 in <sup>3</sup> /rev					
System Pressure: Work	3,843 psi					
Boom Speed - Up (Loaded)	6.3 s (±0.5 s)					
Boom Speed - Down	3.2 s (±0.4 s)					
Bucket Speed - Dump	1.3 s (±0.3 s)					
Main Pump: Max. Flow Rate (each)	55.48 gal/min					
Main Pump: Quantity	1					
Main Pump: Main Relief Pressure	3,843 psi					
Total Cycle Time	10.9 s (±0.3 s)					
Undercarriage						
Tire Size	20.5 R25 L3					
Tread Width	6' 8"					
Travel System/Drive Mechanism						
Travel performance: Gradeability	30°					



Traveling performance: Max. Tractive Effort	24,000 lb					
Weights						
Operating Weight	34,262 lb	34,262 lb	35,168 lb	35,168 lb	36,345 lb	35,234 lb
Dimensions						
Bucket Capacity	3.66 yd³	3.66 yd³	3.66 yd³	3.66 yd³	3.66 yd³	3.66 yd³
Bucket Width	8' 11"	8' 11"	8' 11"	8' 11"	8' 11"	8' 11"
Hinge Pin Height	12' 11"	12' 11"	14' 3"	14' 3"	13' 0"	14' 6"
Dump reach at 45° (fully raised)	3' 9"	3' 9"	3' 10"	3' 10"	3' 9"	3' 10"
Dump height at 45° (fully raised)	9' 2"	9' 2"	10' 7"	10' 7"	9' 2"	10' 7"
Overall Height	10' 10"	10' 10"	10' 10"	10' 10"	10' 11"	10' 11"
Overall Length	25' 3"	25' 3"	25' 3"	25' 3"	25' 3"	25' 3"
Wheel Base	9' 10"	9' 10"	9' 10"	9' 10"	9' 10"	9' 10"
Ground Clearance	1' 3"	1' 3"	1' 3"	1' 3"	1' 5"	1' 5"
External Turning Radius at Bucket Edge	19' 11"	19' 11"	20' 8"	20' 8"	19' 11"	20' 8"
Static Tipping Load (Straight)	26,486 lb	26,486 lb	22,273 lb	22,273 lb	29,357 lb	22,273 lb
Static Tipping Load (Full Turn)	23,389 lb	23,389 lb	19,667 lb	19,667 lb	25,922 lb	19,667 lb
Breakout Force	30,349 lbf	30,349 lbf	28,551 lbf	28,551 lbf	30,349 lbf	28,551 lbf
Rear Axle Oscillation	22°					
Digging Depth	4"	4"	7"	7"	4"	7"
Transmission						
Speeds Fwd	4					
Speeds Rev	3					
Travel Speed Forward - 1st gear	3.91 mph	3.91 mph	3.91 mph	3.91 mph	4.1 mph	4.1 mph
Travel Speed Forward - 4th gear	22.06 mph	22.06 mph	22.06 mph	22.06 mph	22.37 mph	22.37 mph
Final Drive	Planetary					
Differential Type	Limited Slip					
Refill Capacities						
Fuel Tank	62.08 gal					
Cooling System	8.35 gal					
Hydraulic System	39.63 gal					
Hydraulic Tank	31.7 gal					
DEF / Ad blue Tank	8.32 gal					
T/C and T/M	9.77 gal					