



# DL300 TECHNICAL DATA





## GENERAL SPECIFICATIONS

ITEMS		UNIT	STANDARD
ENGINE	MODEL	ea.	Doosan DL08
	NUMBER OF CYLINDERS	ea.	6
	RATED FLYWHEEL POWER (GROSS) (SAE J1995)	hp / rpm	217 / 2,000
		kW / rpm	162 / 2,000
	RATED FLYWHEEL POWER (NET) (SAE J1349)	hp / rpm	206 / 2,000
		kW / rpm	154 / 2,000
	MAX. TORQUE (GROSS) (SAE J1995)	ft. lb.	759 @ 1,300 rpm
		Nm	1,030 @ 1,300 rpm
	PISTON DISPLACEMENT	in. <sup>3</sup>	466
		cc	7,640
	BORE AND STROKE	in	4.3 X 5.5
		mm	108 X 139
	STARTER	V	24
kW		6.6	
BATTERIES	ea.	2	
	V	12	
	AH	150	
OPERATING WEIGHT	lb.	38,139	
	kg	17,300	
BUCKET CAPACITY (BOT/BOC SAE HEAPED)	yd. <sup>3</sup>	3.5 / 4.6	
	m <sup>3</sup>	2.7 / 3.5	
MAIN PUMPS	US gpm	40 / 35 / 10	
	L / min.	150 / 132 / 37	
SYSTEM PRESSURE (WORK)	psi	2,845	
	bar	196	
SYSTEM PRESSURE (STEER)	psi	2,702	
	bar	186	
TRAVEL SPEED	FORWARD (1 / 2 / 3 / 4)	mph	3.9 / 7.2 / 13.7 / 21.4
		km / h.	6.2 / 11.6 / 22.5 / 34.5
	REVERSE (1 / 2 / 3)	mph	4.0 / 7.6 / 14.2
		km / h.	6.4 / 12.2 / 23.8
BOOM SPEED	UP (LOADED)	sec.	6.1 ± 0.5
	UP (UNLOADED)	sec.	5.9 ± 0.5
	DOWN	sec.	3.7 ± 0.5
BUCKET SPEED	CROWD (LOADED)	sec.	1.2 ± 0.5
	CROWD (UNLOADED)	sec.	1.2 ± 0.5
	DUMP	sec.	1.9 ± 0.5
GRADEABILITY	%	58	
	°	30	
TIRE SIZE		23.5-25-16PR(L3)	
BREAKOUT FORCE	lbf.	35,715	
	kgf.	16,200	

# DL300

	ITEMS	UNIT	STANDARD
WORKING RANGE	DUMP HEIGHT AT 45°	ft. in.	9' 1"
		mm	2,780
	DUMP REACH AT 45°	ft. in.	4' 3"
		mm	1,285
	MAX. DUMP ANGLE (FULLY RAISED)	°	47
	MAX. TILT ANGLE (ON GROUND)	°	42
	MAX. TILT ANGLE (FULLY RAISED)	°	58
	MAX. TILT ANGLE (AT CARRY)	°	46
	BUCKET HINGE HEIGHT	ft. in.	13' 1"
		mm	4,000
DIGGING DEPTH (0° LEVEL)	ft. in.	3"	
	mm	76	
TRAVEL DIMENSIONS	OVERALL LENGTH	ft. in.	26' 9"
		mm	8,150
	OVERALL WIDTH	ft. in.	9' 7"
		mm	2,920
	OVERALL HEIGHT	ft. in.	11' 3"
		mm	3,438
	GROUND CLEARANCE	ft. in.	1' 7"
		mm	470
	WHEEL BASE	ft. in.	10' 6"
		mm	3,200
	TREAD	ft. in.	7' 1"
		mm	2,150
MAX STEERING ANGLE		°	40
TURNING RADIUS (TIRE CENTER)	ft. in.	17' 11"	
	mm	5,470	
TURNING RADIUS (TIRE EDGE)	ft. in.	19'	
	mm	5,800	
TURNING RADIUS (BUCKET EDGE)	ft. in.	20' 10"	
	mm	6,360	
SOUND LEVEL IN CABIN (ISO 6396)		dB(A)	71
EXTERNAL SOUND POWER LEVEL (ISO 6395, 2000/14/EC)		dB(A)	106
FUEL TANK CAPACITY	US gal.	86.1	
	Liter	326	

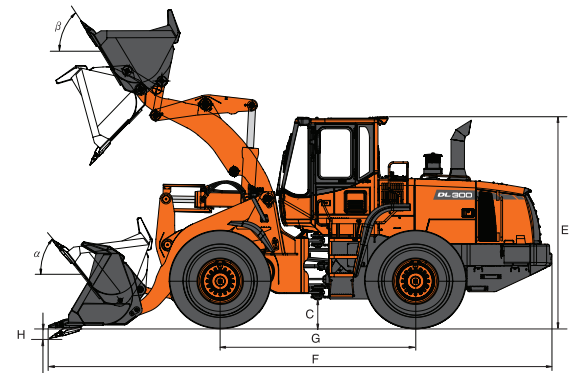
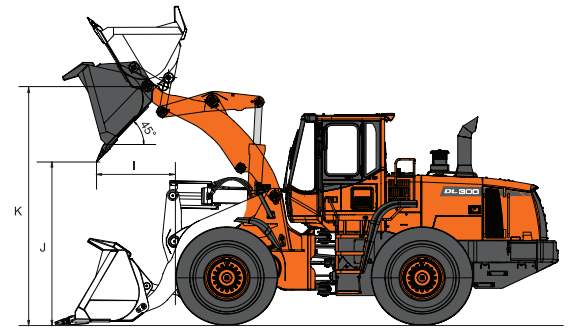
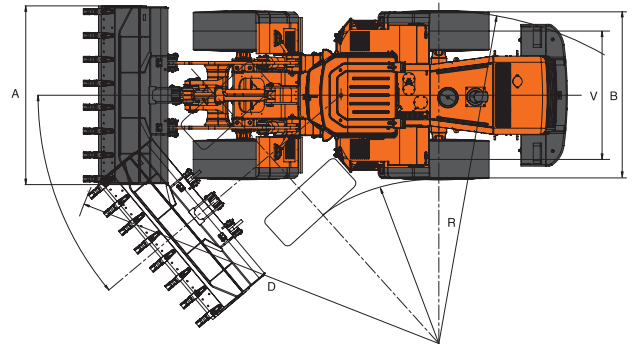


## OPERATIONAL DATA

BUCKET TYPE		OPERATIONAL DATA					
CONFIGURATION		UNIT	TEETH (BOT)	TEETH (BOT)	TEETH (BOT)	BOLT-ONEDGE(BOC)	BOLT-ONEDGE(BOC)
GENERAL PURPOSE			Adapter tooth	Adapter tooth	Intergrated tooth	-	-
CAPACITY HEAPED ISO / SAE		yd. <sup>3</sup>	3.5	3.9	3.9	3.8	4.2
		m <sup>3</sup>	2.7	3.0	3.0	2.9	3.2
TOOTH TYPE			Adapter tooth	Adapter tooth	Intergrated tooth	-	-
BUCKET WIDTH	A	ft. in.	8' 11"	9' 7"	9' 7"	8' 11"	9' 7"
		mm	2,730	2,920	2,920	2,730	2,920
BREAKOUT FORCE		lbf.	36,419	36,419	36,419	36,419	36,419
		kgf.	16,200	16,200	16,200	16,200	16,200
STATIC TIPPING LOAD (STRAIGHT)		lb.	29,888	29,762	29,762	29,524	29,392
		kg	13,557	13,500	13,500	13,392	13,332
STATIC TIPPING LOAD (AT FULL TURN)		lb.	24,582	24,471	24,471	24,260	24,143
		kg	11,150	11,100	11,100	11,004	10,951
DUMP HEIGHT (AT 45°) <sup>1</sup> (AT FULLY RAISED)	J	ft. in.	9' 1"	9' 1"	9' 2"	9' 5"	9' 6"
		mm	2,760	2,780	2,782	2,880	2,890
DUMP REACH (AT 45°) <sup>1</sup> (AT FULLY RAISED)	I	ft. in.	4' 3"	4' 3"	4' 2"	3' 11"	3' 10"
		mm	1,307	1,285	1,280	1,183	1,171
DIGGING DEPTH	H	ft. in.	3"	3"	3"	3"	3"
		mm	76	76	76	76	76
HEIGHT AT BUCKET PIVOT POINT	K	ft. in.	13' 1"	13' 1"	13' 1"	13' 1"	13' 1"
		mm	4,000	4,000	4,000	4,000	4,000
MAX. TILT ANGLE AT CARRY POSITION	α	°	46	46	46	46	46
MAX. TILT ANGLE AT FULLY RAISED	β	°	58	58	58	58	58
MAX. TILT ANGLE ON GROUND		°	43	43	43	43	43
EXTERNAL RADIUS AT TIRE SIDE	R	ft. in.	19'	19'	19'	19'	19'
		mm	5,800	5,800	5,800	5,800	5,800
EXTERNAL RADIUS AT BUCKET EDGE	D	ft. in.	20' 8"	20' 10"	20' 9"	20' 8"	20' 11"
		mm	6,300	6,360	6,320	6,290	6,380
WHEEL BASE	G	ft. in.	10' 6"	10' 6"	10' 6"	10' 6"	10' 6"
		mm	3,200	3,200	3,200	3,200	3,200
WIDTH AT TIRES	B	ft. in.	9' 1"	9' 1"	9' 1"	9' 1"	9' 1"
		mm	2,760	2,760	2,760	2,760	2,760
TREAD	V	ft. in.	7' 1"	7' 1"	7' 1"	7' 1"	7' 1"
		mm	2,150	2,150	2,150	2,150	2,150
GROUND CLEARANCE	C	ft. in.	1' 7"	1' 7"	1' 7"	1' 7"	1' 7"
		mm	470	470	470	470	470
OVERALL LENGTH	F	ft. in.	26' 9"	26' 9"	26' 7"	26' 7"	26' 5"
		mm	8,160	8,150	8,110	8,110	8,045
OVERALL HEIGHT	E	ft. in.	11' 3"	11' 3"	11' 3"	11' 3"	11' 3"
		mm	3,438	3,438	3,438	3,438	3,438
OPERATING WEIGHT		lb.	37,743	38,140	38,140	38,052	38,493
		kg	17,120	17,300	17,300	17,260	17,460

# DL300

TEETH & SEGMENTS	LIGHT MATERIAL		HIGH LIFT
	TEETH (BOT)	BOLT-ONEDGE(BOC)	BOLT-ONEDGE(BOC)
4.2	4.3	4.6	3.8
3.2	3.3	3.5	2.9
Adapter tooth	Adapter tooth	-	-
9' 7"	9' 7"	9' 7"	9' 7"
2,920	2,920	2,920	2,920
36,419	36,419	36,419	35,969
16,200	16,200	16,200	16,000
29,414	29,652	29,262	24,698
13,342	13,450	13,273	11,203
24,165	24,372	24,028	21,171
10,961	11,055	10,899	9,603
9' 1"	9'	9' 5"	11' 4"
2,780	2,750	2,880	3,465
4' 3"	4' 4"	3' 11"	3' 10"
1,285	1,320	1,183	1,175
3"	3"	3"	8"
76	76	76	200
13' 1"	13' 1"	13' 1"	14' 10"
4,000	4,000	4,000	4,532
46	46	46	50
58	58	58	55
43	43	43	45
19'	19'	19'	19'
5,800	5,800	5,800	5,800
20' 10"	20' 10"	20' 11"	22' 6"
6,360	6,360	6,380	6,868
10' 6"	10' 6"	10' 6"	10' 6"
3,200	3,200	3,200	3,200
9' 1"	9' 1"	9' 1"	9' 1"
2,760	2,760	2,760	2,760
7' 1"	7' 1"	7' 1"	7' 1"
2,150	2,150	2,150	2,150
1' 7"	1' 7"	1' 7"	1' 7"
470	470	470	470
26' 9"	26' 9"	26' 5"	27' 11"
8,150	8,150	8,055	8,533
11' 3"	11' 3"	11' 3"	11' 3"
3,438	3,438	3,438	3,438
38,471	38,272	38,625	39,084
17,450	17,360	17,520	17,728





## STANDARD EQUIPMENT

### ENGINE:

Doosan DL08:

- Turbo Charged Air to Air Intercooler
- Electronically Controlled Common Rail Direct Injected
- 466 cu.in., 6 Cylinder
- 217 SAE Gross Flywheel Horsepower @ 2,000 rpm
- Air Cleaner:
  - Dry Type (Double Stage)
- Engine Self Diagnostic System
- Plastic Reversible Fan Driven by Hydraulic Fan Motor

### HYDRAULIC SYSTEM:

- Triple Tandem Vane Hydraulic Pump 40/ 35/ 10 GPM
- 2 Spool Type Control Valve (Pilot Operated)
- 3rd Valve with Lines & Control (lines terminate at boom base)
- Automatic Boom / Lift Kick-Out (Adjustable Electro-Magnetic)
- Automatic Return-to-Dig Position (Adjustable Electro-Magnetic)
- Accumulator for Emergency Pilot System

### BRAKE SYSTEM:

- Dual Pedal Braking System
- 4 Wheel Outboard Wet Disc Brakes with Separate Front & Rear Circuits
- Accumulator for Emergency Stopping
- Parking Brake:
  - Spring Apply Hydraulic Release on Output Shaft of Transmission

### STEERING:

- EHPS (Electro Hydraulic Power Steering) with Integrated Priority Valve
- 40 Degree Articulation, Full Hydraulic Power Steering
- Steering Cylinder Cushion Valve
- Tilt and Telescopic Steering Wheel

### CAB WITH ROPS:

- Air Conditioner
- Heater & Defroster
- Double Filtered Air Cab
- Combination Lever
- Accelerator Pedal
- Transmission Lever (controls gear shifting in manual mode)

Rear Hinged & Locking Doors (Both sides) / Right side is emergency access door

Radio, Stereo

Switches:

- (1) Manual Mode
- (2) Automatic Shift Modes (1-4 & 2-4 w/ kickdown to 1st)
- Economy Mode Switch (Power & Economy Modes)
- Headlight Switch
- Front Work Light Switch
- Rear Work Light Switch
- Rear Wiper Switch
- Pilot Cutoff Switch
- Parking Brake Switch
- Transmission Cutoff Switch
- Mirror Heater Switch
- Reverse Fan Switch
- Engine Diagnostic Switch

Rear View Mirrors with Heat Wire

Safety Glass, Tinted

Fully Adjustable Air Suspension Seat

Seat Belt (2 Wide)

Sliding Door Windows (Left Side)

Sound Suppression

Sun Visor

Windshield Wipers & Washers Front & Rear

Digital Clock

Wrist Rest

12 Volt Power Supply

Cup Holder

Cigar Lighter

### TRANSMISSION / AXLES:

- Full Automatic Power Shift
- 4 Forward & 3 Reverse Speeds
- Differentials Limited Slip Front & Rear
- Self Adjusting Brake Disc Clearance
- Torque Converter, Single Stage, 3-Phase, 3-Element
- Electrical T/M Clutch Disconnect with Service Brake
- T/M Down Shift on Shift Control and Joy Stick Control
- Transmission Oil Level Gauge

**ELECTRICAL:**

Alternator, 60 Amp., 24 Volt

Batteries, (2) 12 Volt, 150 Amp. Hrs. 950 CCA

Starter, 24 Volt 6.0 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
- Speedometer
- Tachometer
- Engine Coolant Temperature Gauge
- Transmission Oil Temperature Gauge
- Transmission Display
- Preheat Indicator Light
- Air Cleaner Clogging Warning Light
- Battery Warning Light
- 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
- Engine Warning Light

Back-Up Alarm

Hazard Warning Light Switch

**TIRES:**

Bias 23.5-25 16PR L3 Kumho-Hankook

**OTHER STANDARD EQUIPMENT:**

Single Lever Control with FNR Control Buttons

Air Cleaner with Pre-cleaner

Engine Side Covers

Boom / Float

Drawbar and Pin

Neutral Safety Start System

Muffler

Fenders, Front & Rear

Ladders & Service Platforms

Manuals, Parts & Operator's

GPS with 1 Year Subscription



## OPTIONAL EQUIPMENT

### TIRES & RIMS - FACTORY INSTALLED

23.5R25 L3 Triangle or Bridgestone

### DOOSAN BUCKET - FACTORY INSTALLED

3.9 yd<sup>3</sup> GP Pin On 115" Width w/ 3pc. Cutting Edge

### FACTORY INSTALLED OPTIONS

Additional Counterweight 551 lb.

Emergency Steering Kit

Load Isolation / Ride Control

Full Fender

Finger Tip Lever Front Controls

Rear View Camera

### DEALER INSTALLED OPTIONS

Auxiliary Line Kit Down the Boom Arms

3" Seat Belt

### DEALER INSTALLED DOOSAN BUCKETS

4.0 yd<sup>3</sup> GP Pin On Bucket 114" w/ Bolt on Teeth

4.0 yd<sup>3</sup> GP Pin On Bucket 114" w/ Bolt on Cutting Edge

4.0 yd<sup>3</sup> GP Quick Coupler Bucket 114" w/ Bolt on Teeth

4.0 yd<sup>3</sup> GP Quick COupler Bucket 114" w/ Bolt on Cutting Edge

3.5 yd<sup>3</sup> MP Pin On Bucket 114" w/ Bolt on Teeth

3.5 yd<sup>3</sup> MP Pin On Bucket 114" w/ Bolt on Cutting Edge

3.5 yd<sup>3</sup> MP Quick Coupler Bucket 114" w/ Bolt on Teeth

3.5 yd<sup>3</sup> MP Quick Coupler Bucket 114" w/ Bolt on Cutting Edge

### DEALER INSTALLED DOOSAN QUICK COUPLER

DL300 Hydraulic Quick Coupler

### DEALER INSTALLED DOOSAN PALLET FORKS

72" Pallet Forks



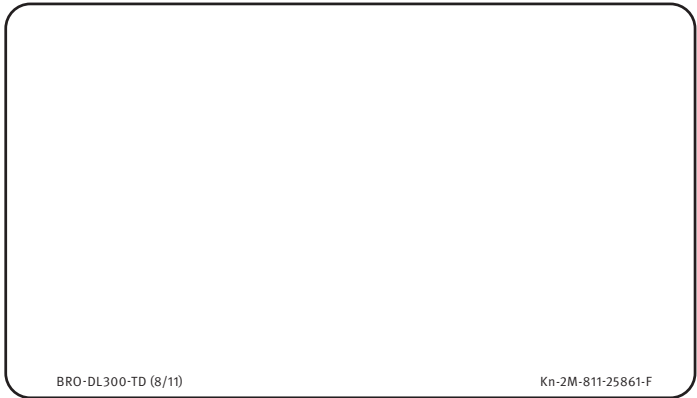
## NOTES

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.



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BRO-DL300-TD (8/11)

Kn-2M-811-25861-F

For more information visit [www.doosanequipment.com](http://www.doosanequipment.com)



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