

Wheel Loader

OPERATING WEIGHT	38,140 lbs (17,300 kg)
MAX ENGINE POWER	227 hp (169 kW) @ 1,700 rpm
BUCKET CAPACITY	3.9 yd ³ (2.98 m ³)
BREAKOUT FORCE	36,419 lbf (162 kN)



WHEEL LOADER
TXL 300-2

Specifications

Engine	
Make / Model	Doosan DL08
Type	6 cylinder in-line, high-pressure common-rail fuel injection system with electronically controlled direct injection and turbo charged air to air intercooler.
Piston displacement	466 in ³ (7,640 cm ³)
Bore x stroke	4.3" x 5.5" (108 x 139 mm)
Dry replaceable cylinder liner	
Gross power	@ 2,000 rpm (SAE J1995) 217 hp (162 kW)
Maximum power @ 1,700 rpm	227 hp (169 kW)
Maximum torque @ 1,300 rpm	759 ft. lb (105 kgf.m)
Cooling type	Hydraulically driven puller type fan with possibility of adjustment.
Air cleaner	Dry type, (triple stage)
Engine emission meets USA EPA Tier 3.	

Electrical System	
Voltage	24V
Batteries in series	2 x 12V
Total capacity	150 Ah
Type	maintenance-free
Starter motor	24V x 7.5 kW
Alternator capacity	70A

Torque Converter	
Type	3-element, 1 stage, single phase
Torque stall ratio	2.845

Specifications

Transmission

Type: "Full Power Shift" transmission. It can be used in manual or automatic modes. Equipped with a modulation system allowing soft gear shifting and inversion of travel direction.

The gear and direction shifting is operated by a single lever to the left of the steering wheel. A travel direction control is also mounted on the hydraulic joystick. (Opt.)

The transmission can be de-clutched by the operation of brake pedal to increase the power available to the hydraulic pumps.

	Forward				Reverse		
Gear	1	2	3	4	R1	R2	R3
mph	3.9	7.2	13.7	21.4	4.0	7.6	14.2
(kph)	(6.2)	(11.6)	(22.5)	(34.5)	(6.4)	(12.2)	(23.8)

Safety device prevents engine starting while in neutral gear.

Axles

The front and rear axles with planetary hub reductions are built on the base of very reputed components. Fitted as standard, the front and rear limited slip differentials, ensure the traction is optimal in all circumstances.

Make/model	ZF MT-L3000 Series
LSD Differential:	45%
Oscillation angle	±12°

Tires

Tubeless type	23.5 - 25 - 16PR - L3
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Brakes

Type: Dual circuit multi-plate wet discs. Hydraulic actuation with pump and accumulator. Extended service intervals.

Parking brake: A spring applied and hydraulically released parking brake is mounted on the transmission shaft.

Steering

Type Load sensing type with a flow amplifier and a priority valve.

Steering angle 40°

Maximum flow rate @ 2,000 rpm 34.3. gpm (130 L/min)

Maximum working pressure 2,755 psi (190 bar)

Cylinders (2) bore x stroke 3.2" (80 mm) x 18" (450 mm)

Emergency steering circuit with hydraulic pumps driven by electric motor. (Opt.)

Hydraulic System

Type Tandem vane pumps with automatic wear compensation

Pilot actuation with standard single lever.

Automatic boom kick out and bucket return to dig is standard.

All of hydraulic lines are equipped with special seals (ORFS).

Maximum flow delivery (with steering) 34.3 gpm (130 L/min)

Maximum flow delivery (without steering) 74 gpm (280 L/min)

Maximum working pressure 2,900 psi (200 bar)

Pressure of pilot circuit 435 psi (30 bar)

Filtration capacity on the return line 10 microns

Loading cycles time lift: 5.9 sec dump: 1.9 sec lower: 3.7 sec

Lifting System

The lifting system with two cylinders and Z configuration is designed for the toughest jobs. The breakout force 18 ton with a 3.9 yd³ (3.0 m³) bucket.

The bucket angles maintain good position on all the ranges of bucket movement.

Lifting cylinders (2) bore x stroke: 5.9" x 33" (150 x 831mm)

Bucket cylinders (1) bore x stroke: 7.9" x 20" (190 x 495 mm)

Cab

The modular cab allows excellent visibility. Optimal ventilation is obtained by numerous ventilation outlets. Touch buttons control the air re-circulation air conditioning and heating systems. Air of the cab is filtered. All necessary information is centralized in front of the operator. The main functions are actuated via switches located on a console at the right of the operator. Generous storage places are well located. The cab, mounted on viscous element and equipped with an air suspended seat, offers a better comfort for the operator.

Access door 1

Emergency exits 2

The cab conforms ROPS ISO 3471 and FOPS: ISO 3449

Guaranteed external noise level Lwa:
(following 2000 / 14 / EC) 103 dB (A)

Capacities

Engine	Lube oil	5.6 gal (35 L)	Transmission	12.7 gal (48 L)
	Coolant	13.2 gal (50 L)	Hydraulic system	55.5 gal (210 L)
	Fuel tank	87.2 gal (330 L)		
Axles	Front	10.0 gal (38 L)	Rear	7.0 gal (30 L)

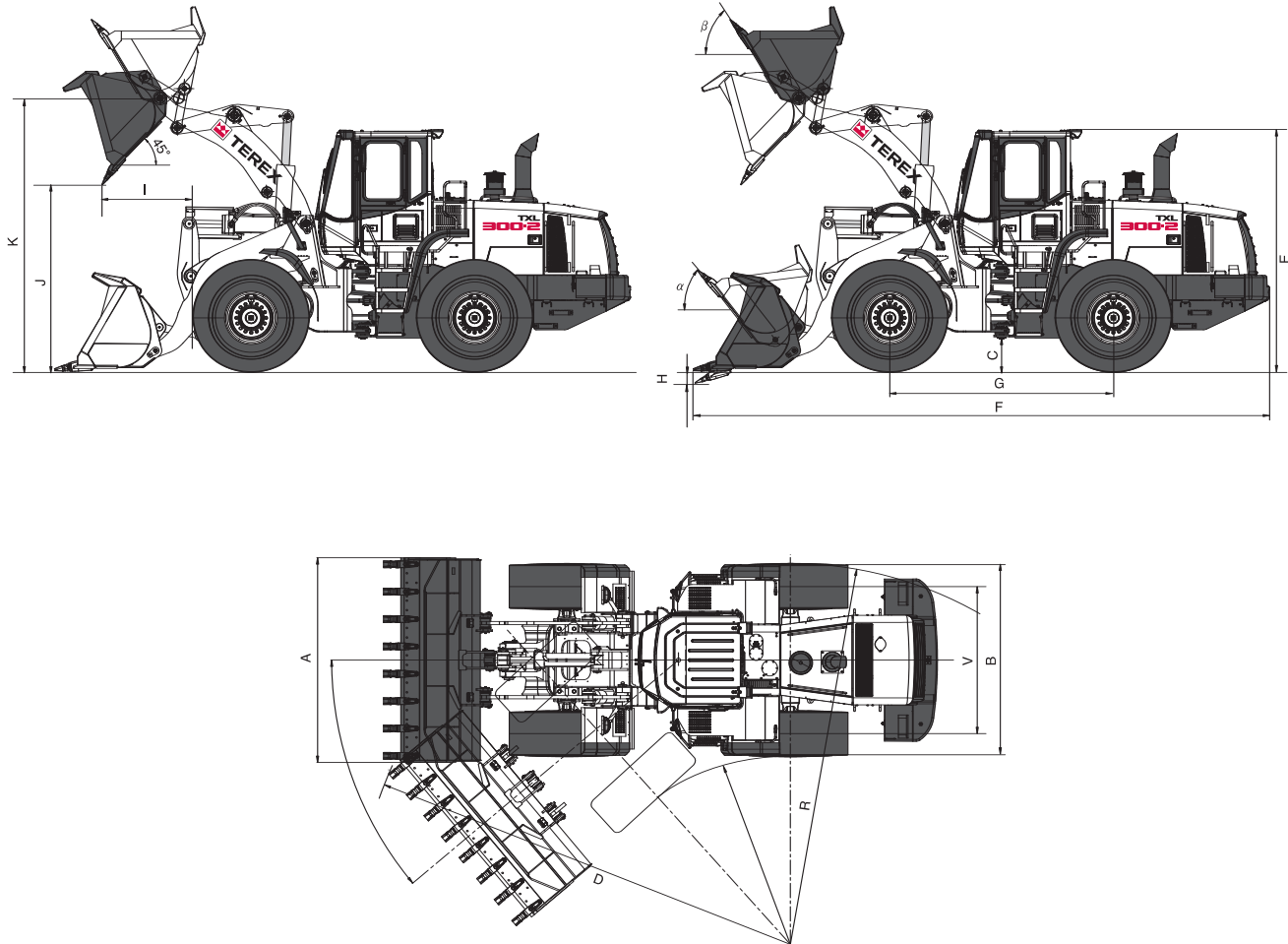
Operating Data and Dimensions

Bucket Type		General Purpose						Light Material	
Configuration	Unit	Teeth	Teeth (std.)	Teeth	Bolt-on edge	Bolt-on edge	Teeth & segments	Teeth	Bolt-on edge
Capacity heaped ISO/SAE	yd ³	3.5	3.9	3.9	3.8	4.2	4.2	4.3	4.6
	m ³	2.7	3.0	3.0	2.9	3.2	3.2	3.3	3.5
Tooth type		Adapter tooth	Adapter tooth	Integrated tooth			Adapter tooth	Adapter tooth	
Bucket width	A	ft.in	8'11"	9'7"	9'7"	8'11"	9'7"	9'7"	9'7"
		mm	2,730	2,920	2,920	2,730	2,920	2,920	2,920
Breakout force		lbf	36,419	36,419	36,419	36,419	36,419	36,419	36,419
		kN	162	162	162	162	162	162	162
Static tipping load (straight)		lb	31,526	31,967	31,967	31,747	32,187	32,187	31,967
		kg	14,300	14,500	14,500	14,400	14,600	14,600	14,500
Static tipping load (40°) ¹		lb	26,235	26,676	26,676	26,455	26,852	26,852	26,676
		kg	11,900	12,100	12,100	12,100	12,180	12,180	12,100
Dump height (at 45°) ¹	J	ft.in	9'1"	9'1"	9'2"	9'5"	9'6"	9'1"	9'0"
		mm	1,307	1,285	1,280	1,183	1,171	1,285	1,320
Dump reach (at 45°) ¹	I	ft.in	4'3"	4'3"	4'2"	3'11"	3'10"	4'3"	4'4"
		mm	1,307	1,285	1,280	1,183	1,171	1,285	1,320
Digging depth	H	ft.in	3"	3"	3"	3"	3"	3"	3"
		mm	76	76	76	76	76	76	76
Height at bucket pivot point	K	ft.in	13'1"	13'1"	13'1"	13'1"	13'1"	13'1"	13'1"
		mm	4,000	4,000	4,000	4,000	4,000	4,000	4,000
Max. angle at carry position	a	°	46	46	46	46	46	46	46
Max. angle at fully raised	b	°	58	58	58	58	58	58	58
External radius at tire side	R	ft.in	19'0"	19'0"	19'0"	19'0"	219'0"	19'0"	19'0"
		mm	5,800	5,800	5,800	5,800	5,800	5,800	5,800
Wheelbase	G	ft.in	10'6"	10'6"	10'6"	10'6"	10'6"	10'6"	10'6"
		mm	3,200	3,200	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"	9'1"	9'1"
		mm	2,760	2,760	2,760	2,760	2,760	2,760	2,760
Tread	V	ft.in	7'1"	7'1"	7'1"	7'1"	7'1"	7'1"	7'1"
		mm	2,150	2,150	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"	1'7"	1'7"
		mm	470	470	470	470	470	470	470
Overall length	F	ft.in	26'9"	26'9"	27'6"	26'5"	26'5"	26'5"	26'5"
		mm	8,160	8,150	8,110	8,110	8,045	8,150	8,150
Overall height	E	ft.in	11'3"	11'3"	11'3"	11'3"	11'3"	11'3"	11'3"
		mm	3,438	3,438	3,438	3,438	3,438	3,438	3,438
Operating weight		lb	37,743	38,140	38,140	38,052	38,493	38,471	38,272
		kg	17,120	17,300	17,300	17,260	17,460	17,450	17,520

1) Measured to the tip of the bucket teeth or bolt-on edge.

2) All measurements with tires 26.5-25-20PR(L3).

Dimensions



Measured to the tip of the bucket teeth or bolt-on edge with tires 23.5-25-16PR(L3)

Standard Equipment

ENGINE

Coolant filter
Crankcase ventilation oiltrap system
Electric driven fuel feeding pump
External drains for engine oil and coolant
Hydraulically driven fan with bi-direction flow for core cleaning proportional to fluid temperature
Mode selector switch for the engine power (Standard / Economy mode)
Preheating of induction air
Self-diagnosis function
Three stage air cleaner with cyclone pre-cleaner, inner filter, and external plugging indicator as at the dashboard
Two fuel filters
Water separator with fuel filter

LIFTING AND HYDRAULIC SYSTEM

Automatic boom kick out
Automatic bucket return to dig
Robust Z bar lifting system
Fast couplers for hydraulic check
FNR mono lever with 3rd function lever for third section
General purpose bucket 5.1 yd³ (3.9 m³)
SAE, heaped
Hydraulic control valve with two sections
Variable piston and load sensing hydraulic system

STEERING SYSTEM

Load sensing steering system

EXTERNAL EQUIPMENT

Articulation lock in the transport position
Lifting hooks
Lower protection plates
Mudguard

Tools compartment

Towing hitch

Wheel chocks

ELECTRIC SYSTEM

Alternator 70A / 24 V

Driving lights: low and high beams

Tail indicators, stop, reversing lights

Reversing alarm

Working lights: 2 at the front and 4 at the rear (6 x 70W)

DRIVE LINE AND BRAKE SYSTEM

Dual brake circuits with accumulator

Dual service brake pedals

Gear box which can be declutched when braking

Gear box with diagnosis and monitoring indicator, and electronic plug for a fast adjustment

Kickdown and travelling direction selection: lever at left of the steering wheel or on the joystick

Limited slip differential on front and rear axles

Mode selector switch for the transmission (Manual / Auto 1<->4 / Auto 2<->4)

Parking brake on the transmission, electric-hydraulic

Secondary brake system

Starting safety system

Tires: 23.5-25-16PR (L3)

CAB

Adjustable steering column

Air-conditioning / heating with recirculation function

Cassette radio AM / FM

Cigarette lighter

Coat hook

Compartment for cans

Compartment for shoes

Cup holder

Digital clock

Double filtered air cab

Electrical horn

Exterior rear view mirrors (2)

Floor mat

FOPS Cabin (Falling Objects Protective Structure): FOPS meets the following criteria - SAE J 231, ISO 3449

Front and rear washers

Front and rear wiper

Glass antenna

Heatwire inside mirror

Heated rear view mirrors

Interior cab light

Interior rear view mirrors (2)

Left sliding window

Machine monitoring (condition, control & maintenance indicators in front of the driver by dials, gauges and lamps)

Main switches in front of the driver (starter & hazard switches)

Mechanical suspended seat with 2" safety belt

ROPS Cabin (Rollover Protective Structure): ROPS meets the following criteria - SAE 1040, ISO 3471

Tinted glass

12 Volt socket

Sun visor

Switches for the general functions in the right console

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Optional Equipment

GROUND ENGAGING TOOLS

Various types of buckets, fork palette, timber grapples and accessories

TIRES

L3, L4, L5 following various types of manufacturers

HYDRAULIC

Emergency steering pump driven by electric motor

Hydraulic control valve with 3 sections

Load isolation system (LIS)

Three hydraulic levers for 3 sections with FNR function

Two hydraulic levers for 2 sections with FNR function

ELECTRIC SYSTEM

Additional lighting

Rotating beacon

CAB

Air suspension seat with 3" belt

MP3 / CD player

Rear camera (CCTV) and monitor

VARIOUS

Full covering mudguard

Mudguard

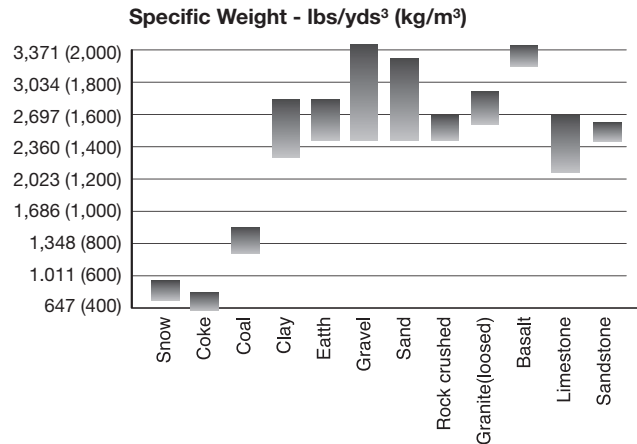
Tool Kit

EXTERNAL EQUIPMENT

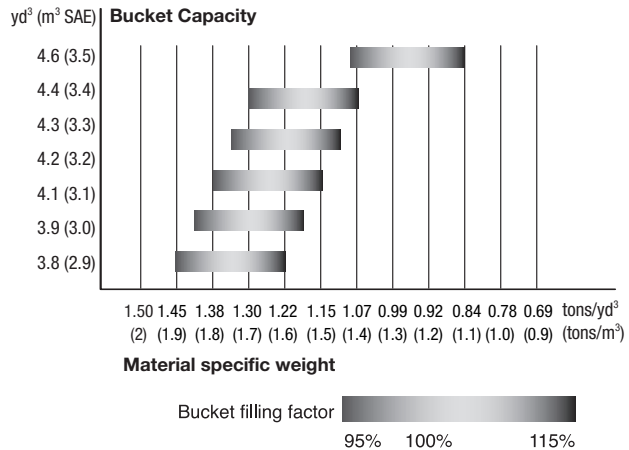
Full fender with rubber protector

Wheel chocks

Typical Material Weights / Densities



The specific weight of material largely depends on moisture rate, compacting value percentage of various component etc. This chart is an example only.



The bucket filling factor depends also on the nature of material, the working conditions, and the operator's ability.



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