TEREX®

TXL 400-2

Wheel Loader

OPERATING WEIGHT	49,604 lbs (22,500 kg)
MAX ENGINE POWER	310 hp (231 kW) @ 1,700 rpm
BUCKET CAPACITY	5.1 yd^3 (3.9 m^3)
BREAKOUT FORCE	49,458 lbf (220 kN)

WHEEL LOADER TXL 400-2

Specifications

Engine

Make/model	Cummins QSL 9
Type	6 cylinder in-line, high-pressure common-rail (HPCR) fuel injection system with electronically controlled direct injection and turbo charged air to air intercooler.
Piston displacement	543 in^3 (8,900 cm^3)
Bore x stroke	4.5" x 5.7" (114 x 144.5 mm)
Wet replaceable cylinder liner	
Gross power @ 2,000 rpm (SAE J1995)	280 hp (209 kW)
Maximum power @ 1,700 rpm	310 hp (231 kW)
Maximum torque @ 1,400 rpm	1,072 ft. lb (148 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	2.104

TEREX®

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.

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	4.0	7.7	11.5	23.6	4.0	7.7	17.4
(kph)	(6.5)	(12.4)	(18.5)	(38)	(6.5)	(12.4)	(28)

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:	Front (30%) / Rear (45%)
Oscillation angle	±12°

Tires

Tubeless type	26.5 - 25 - 20PR - L3

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.	
Maximum flow rate		50.2 gpm (190 L/min)
Maximum working pressure		2,683 psi (185 bar)
Cylinders (2)	bore x stroke	3.93" (100 mm) x 17.7" (450 mm)

Emergency steering circuit with hydraulic pumps driven by electric motor.

Hydraulic System

Type	Two load-sensing axial piston pumps with variable displacement.
Main control valve	Double acting 2-spool is controlled by 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)	50.2 gpm (190 L/min)
Maximum flow delivery (without steering)	100.4 gpm (380 L/min)
Maximum working pressure	3,626 psi (250 bar)
Pressure of pilot circuit	435 psi (30 bar)
Filtration capacity on the return line	10 microns
Load cycles time	lift: 6.0 sec dump: 1.4 sec lower: 3.0 sec

Lifting System

The lifting system with two cylinders and Z configuration is designed for the toughest jobs. The breakout force is 22 ton with a 5.1 yd^3 (3.9 m^3) bucket.

The bucket angles maintain good positions on all ranges of bucket movement.

Lifting cylinders (2)	bore x stroke: 6.2" (160 mm) x 37" (928 mm)
Bucket cylinders (1)	bore x stroke: 0.7" (180 mm) x 24" (600 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)	104 dB (A)

Capacities

Engine	Lube oil	6.6 gal (25 L)	Transmission oil	14.3 gal (54 L)
	Coolant	13.2 gal (50 L)	Hydraulic system	70 gal (265 L)
	Fuel tank	96.4 gal (365 L)		
Axles	Front	11.9 gal (45 L)	Rear	11.1 gal (42 L)

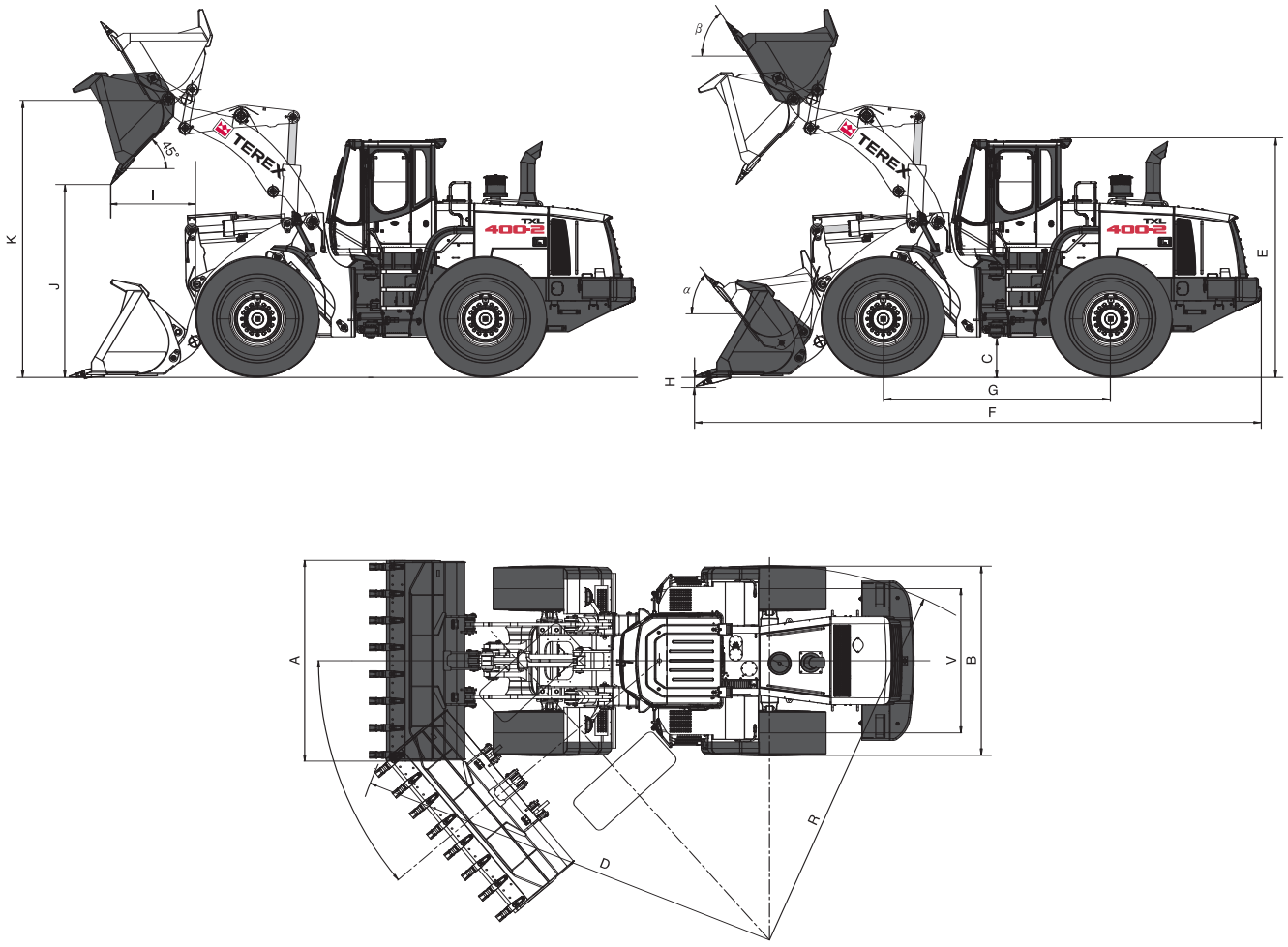
Operating Data and Dimensions

Bucket Type	**General Purpose**		**Light Material**								
Configuration		Unit	Teeth	Teeth (std.)	Teeth	Bolt-on edge	Bolt-on edge	Teeth & segments	Teeth	Teeth	Bolt-on edge
Capacity heaped ISO/SAE		yd^3 m^3	4.8 3.7	5.1 3.9	5.1 3.9	5.1 3.9	5.4 4.1	5.4 4.1	4.6 3.5	5.9 4.5	6.1 4.7
Tooth type			Adapter tooth	Adapter tooth	Integrated tooth			Adapter tooth	Adapter tooth	Adapter tooth	
Bucket width	A	ft.in mm	9'12" 3,040	10'6" 3,200	10'6" 3,200	9'12" 3,040	10'6" 3,200	10'6" 3,200	10'7" 3,231	11' 3,354	11' 3,354
Breakout force		lbf kN	49,458 220	49,458 220	49,458 220	49,458 220	49,458 220	49,458 220	47,210 210	42,714 190	42,714 190
Static tipping load (straight)		lb kg	41,447 18,800	41,667 18,900	41,667 18,900	41,447 18,800	42,108 19,100	42,108 19,100	41,888 19,000	41,888 19,000	42,329 19,200
Static tipping load (40°)-1		lb kg	36,156 16,400	36,376 16,500	36,376 16,500	36,156 16,400	36,751 16,670	36,751 16,670	36,553 16,580	36,949 16,580	36,553 16,760
Dump height (at 45°)-1	J	ft.in mm	9'9" 2,975	9'9" 2,975	9'9" 2,984	10'2" 3,090	10'2" 3.090	9'9" 2,975	9'6" 2,901	9'3" 2,819	9'8" 2,958
Dump reach (at 45°)-1	I	ft.in mm	4'6" 1,370	4'6" 1,370	4'6" 1,370	4'6" 1,263	4'6" 1,263	4'6" 1,370	4'6" 1,459	4'6" 1,537	4'6" 1,392
Digging depth	H	ft.in mm	5" 130	5" 130	5" 130	5" 130	5" 130	5" 130	5" 130	5" 130	5" 130
Height at bucket pivot point	K	ft.in mm	14'3" 4,350	14'3" 4,350	14'3" 4,350	14'3" 4,350	14'3" 4,350	14'3" 4,350	14'3" 4,350	14'3" 4,350	14'3" 4,350
Max. angle at carry position	a	°	46	46	46	46	46	46	46	46	46
Max. angle at fully raised	b	°	59	59	59	59	59	59	59	59	59
External radius at tire side	R	ft.in mm	20'10" 6,350	20'10" 6,350	20'10" 6,350	20'10" 6,350	20'10" 6,350	20'10" 6,350	20'10" 6,350	20'10" 6,350	20'10" 6,350
Wheelbase	G	ft.in mm	11'6" 3,500	11'6" 3,500	11'6" 3,500	11'6" 3,500	11'6" 3,500	11'6" 3,500	11'6" 3,500	11'6" 3,500	11'6" 3,500
Width at tires	B	ft.in mm	9'10" 2,985	9'10" 2,985	9'10" 2,985	9'10" 2,985	9'10" 2,985	9'10" 2,985	9'10" 2,985	9'10" 2,985	9'10" 2,985
Tread	V	ft.in mm	7'7" 2,300	7'7" 2,300	7'7" 2,300	7'7" 2,300	7'7" 2,300	7'7" 2,300	7'7" 2,300	7'7" 2,300	7'7" 2,300
Ground clearance	C	ft.in mm	1'8" 510	1'8" 510	1'8" 510	1'8" 510	1'8" 510	1'8" 510	1'8" 510	1'8" 510	1'8" 510
Overall length	F	ft.in mm	28'9" 8,760	28'9" 8,710	28'7" 8,710	28'4" 8,635	28'4" 8,635	28'9" 8,760	29'2" 8,900	29'7" 9,020	28'11" 8,820
Overall height	E	ft.in mm	11'7" 3,522	11'7" 3,522	11'7" 3,522	11'7" 3,522	11'7" 3,522	11'7" 3,522	11'7" 3,522	11'7" 3,522	11'7" 3,522
Operating weight		lb kg	49,428 22,420	49,604 22,500	49,339 22,380	50,133 22,740	50,354 22,840	49,990 22,675	50,045 22,700	50,309 22,820	51,081 23,170

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 26.5-25-20PR(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

Three stage air cleaner with cyclone pre-cleaner, inner filter, and external plugging indicator as at the dashboard

Self-diagnosis function

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 yd^3 (3.9 m^3) 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

Fender

Lower protection plates

Lifting hooks

Tools compartment

Towing hitch

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

Starting safety system

Secondary brake system

Tires: 26.5-25-20PR (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

Heated rear view mirrors

Heatwire in side mirror

Interior cab light

Interior room mirror (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

Sun visor

Switches for the general functions in the right console

Tinted glass

12 Volt socket

Wheel Loader

TXL 400-2

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

Additional counterweight

Mudguard

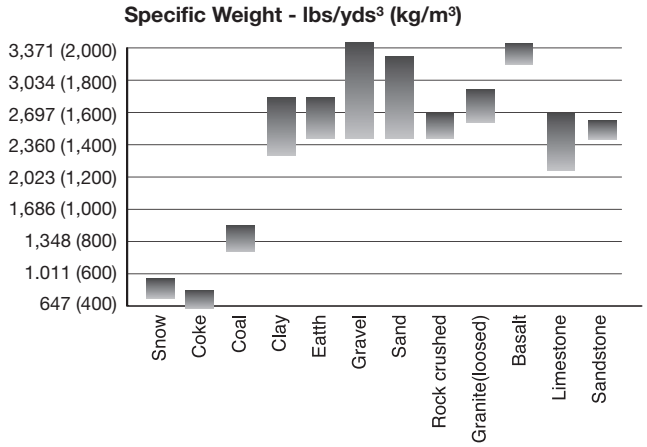
Tool Kit

EXTERNAL EQUIPMENT

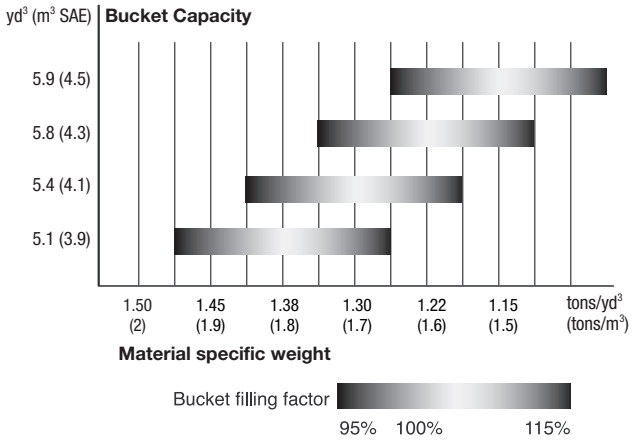
Full fender with rubber protector

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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For more information, product demonstration, or details on purchase, lease and rental plans, please contact your local Terex Distributor.

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