



TEREX

TXL 400-1

Wheel Loader

OPERATING WEIGHT	48,590 lbs (22,040 kg)
MAX ENGINE POWER	300 hp (224 kW) @ 2,100 rpm
BUCKET CAPACITY	5.1 yd ³ (3.9 m ³)
BREAKOUT FORCE	48,501 lbs (22,000 kg)



FEATURES

- Excellent attachment breakout forces and lift capacities sustain digging and loading under toughest conditions
- Exceptional view front and rear ROPS/FOPS cab maximizes bucket corner and maneuver zone visibility
- Turbocharged / intercooled, USA EPA Tier 2 compliant diesel engine enhances productivity, reduces fuel consumption
- Rugged full auto Powershift transmission with 4 forward, 3 reverse speeds optimizes cycle times
- 40° left/right articulation helps ensure jobsite maneuverability and stability
- Wet multi-disc service brakes provide outstanding braking and long component life
- Main components accessible for easy field service
- Equipped to maximize operator comfort, efficiency and performance

WHEEL LOADER
TXL 400-1

Specifications

Engine	
Make/model	Daewoo DE12Tis
Type	Four cycle, emission certified, direct-injection diesel, air-to-air intercooled, turbocharged
Piston displacement	671.3 in ³ (11 L)
Bore x stroke	4.84" x 6.1" (123 x 155 mm)
Gross power @ 2,100 rpm (SAE J 1995)	Rated 300 hp (224 kW)
Maximum torque @ 1,200 rpm	940 ft.lb (1,274 Nm)
Cooling type	Sucker plastic fan (32") driven by hydraulic fan motor
Air cleaner	Dry type, (double stage)
Engine emission meets USA EPA Tier 2.	
"High torque rise" fuel system delivers a controlled increase of fuel as the engine lugs back from rated speed. This results in horsepower greater than rated power. The combination of increased torque rise and maximum horsepower improves response, provides greater rimpull, more lift force and faster cycle times. The maximum horsepower occurs at 2000 rpm when power is needed during the working cycles.	

Electrical System	
Voltage	24v
Batteries in series	2 x 12v
Total capacity	150 Ah
Type	maintenance-free
Starter motor	24v x 6.0 kW
Alternator capacity	65A

Torque Converter	
Type	3-element, 1 stage, single phase
Torque stall ratio	2.985

Transmission							
Type: Full auto Powershift countershaft design with four forward and three reverse speeds.							
Control: single lever electric "fingertip" type.							
	Forward				Reverse		
Gear	1	2	3	4	R1	R2	R3
mph	4.6	8.4	14.9	22.7	4.6	8.4	14.9
(kph)	(7.5)	(13.5)	(24.0)	(36.5)	(7.5)	(13.5)	(24.0)
Safety device prevents engine starting while in neutral gear							

Axles	
Rigid front axle, oscillating rear axle designed for heavy duty applications	
Rear axle oscillation	±12°
Hermetically sealed final drives and wet disc brakes	

Tires	
Tubeless type, choice of:	26.5X25X20PR (L3), 26.5 R25XHAT2 (L3) 26.5 R25LDD2AT (L5), 26.5 R25VMT(L3)

Brakes	
Type: Wet multi disc brakes with fully hydraulic operated brake circuits.	
Independent circuit for each axle dual pedal braking system.	
Transmission declutch during braking can be preselected by a switch on the control stand panel.	
Parking brake: dry disc type	
Spring applied, electric-hydraulic released via a switch on the control stand panel.	
The brake circuit complies with the following international standards ISO3450, EEC 71/320, SAE J1473	

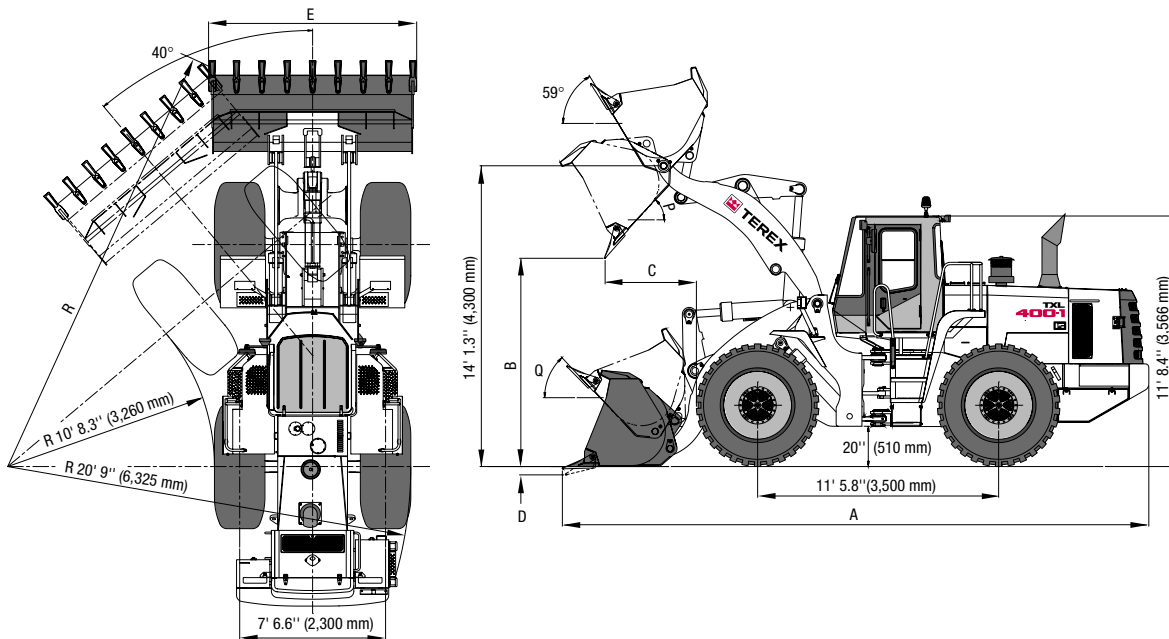
Hydraulic System	
Type	Open center hydraulics with highly efficient vane pumps
Pump	Vane type with steel case
Maximum flow delivery	114 gpm (430 L/min)
Maximum working pressure	2,845 psi (196 bar)
Control	Pilot, single lever
Double-acting hydraulic cylinders	
Loader arm (2EA)	bore x stroke 7.08" (180 mm) x 36.53" (928 mm)
Bucket (1EA)	bore x stroke 7.87" (200 mm) x 23.62" (600 mm)
Operating time:	lift 5.8 s lower 3.4 s dump 1.2 s
Hydraulic lines and connecting flanges are equipped with O-ring seals. Prolongs hydraulic component life, facilitates changeout when required.	

Steering	
Type	Load sensing orbital type steering control, full hydraulic, power steering with flow amplifier
Pump	Vane type
Maximum flow rate	51.2 gpm (194 L/min)
Maximum working pressure	2,631 psi (181 bar)
Cylinders	bore x stroke 3.93" (100 mm) x 17.7" (450 mm)
Emergency steering circuit with hydraulic pumps driven by electric DC motor.	

Cab	
ROPS/FOPS integrated cab. Excellent all-round visibility. The ROPS/FOPS complies with the following standards: ROPS - ISO 3471-SAE 1040, FOPS - ISO 3449/SAE J231	
*External sound power level	
Guaranteed sound power level	Lwa 109 dB(A)
(According to EU Directive 2000/14/EC)	

Capacities				
Engine	Lube oil	6.6 gal (25 L)	Transmission oil	14.3 gal (54 L)
	Coolant	13 gal (50 L)	Hydraulic system	70 gal (265 L)
	Fuel tank	96.1 gal (364 L)		
Axles	Front	20.8 gal (79 L)	Rear	14 gal (53 L)

Dimensions: Z-Bar Linkage



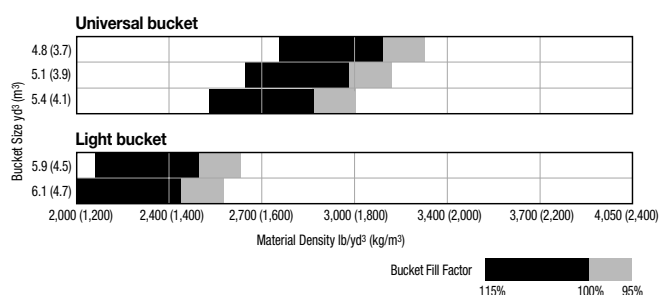
Operating Data and Dimensions

Bucket Type	Universal Bucket					Light Material Bucket	
	Unit	Teeth	Teeth (standard)	Teeth	Cutting edge	Teeth	Cutting edge
Capacity heaped	yd ³ (m ³)	4.8 (3.7)	5.1 (3.9)	5.1 (3.9)	5.4 (4.1)	5.9 (4.5)	6.1 (4.7)
Bucket weight	lbs (kg)	4,211 (1,910)	4,396 (1,994)	4,486 (2,035)	4,674 (2,120)	4,856 (2,207)	5,180 (2,350)
E Bucket Width	ft-in (mm)	10' 2" (3,120)	10' 9" (3,820)	9' 9" (2,998)	10' 5" (3,200)	11' 3" (3,434)	11' 0" (3,354)
Static tipping load, straight	lbs (kg)	39,917 (18,106)	39,683 (18,000)	39,526 (17,929)	39,410 (17,876)	39,139 (17,753)	38,806 (17,602)
	full turn (40°)	lbs (kg)	34,792 (15,863)	34,613 (15,700)	34,324 (15,569)	34,192 (15,509)	33,837 (15,348)
Breakout force	lbs (kg)	48,586 (22,038)	48,501 (22,000)	46,639 (21,155)	48,376 (21,943)	42,375 (19,221)	42,251 (19,165)
A Overall length	ft-in (mm)	28' 2" (8,600)	28' 2" (8,600)	28' 4" (8,650)	27' 7" (8,450)	28' 8" (8,780)	28' 3" (8,630)
B Dump height at 45°	ft-in (mm)	9' 8" (2,985)	9' 8" (2,985)	9' 7" (2,950)	10' 1" (3,090)	9' 4" (2,856)	9' 8.6" (2,962)
C Dump reach at 45°	ft-in (mm)	4' 5" (1,370)	4' 5" (1,370)	4' 6" (1,405)	4' 2" (1,265)	4' 9" (1,498)	4' 6.8" (1,391)
D Digging depth	ft-in (mm)	4.8" (120)	4.8" (120)	4.8" (120)	4.2" (120)	4.8" (120)	4.8" (120)
R Turning radius at bucket	ft-in (mm)	22' 9" (6,950)	22' 9" (6,950)	22' 3" (6,790)	22' 2" (6,770)	23' 0" (7,025)	22' 8" (6,919)
Q Max. tilt angle on ground	deg	42	42	42	42	42	42
P Max. dump angle at fully raised	deg	47	47	47	47	47	47
Operating weight	lbs (kg)	48,404 (21,956)	48,590 (22,040)	48,680 (22,081)	48,867 (22,166)	49,059 (22,253)	49,374 (22,396)

Measured to the tip of the bucket teeth or cutting edge with tires 23.5x25 (L3)

Weight and Dimensions (Supplemental Specifications)				
	Operating weight	Overall width (Outside tires)	Vertical dimension	Static tipping load-straight
26.5-R25XHAT2 (L3)	+361 lb (+164 kg)	+2.12 in (+54 mm)	-0.94 in (-24 mm)	+176 lb (80 kg)
26.5-R25 XLDD2AT2 (L5)	+1,071 lb (+486 kg)	+3.74 in (+95 mm)	+2.52 in (+64 mm)	+771 lb (+350 kg)
26.5-R25 VMT (L3)	+624 lb (+283.2 kg)	+0 in (+0 mm)	-0.39 in (-10 mm)	+397 lb (+180 kg)

Bucket Selection Guide / Material Densities



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Standard and Optional Equipment

Standard Equipment	Optional Equipment
Stereo radio (AM/FM)	Auxiliary hydraulic function
2 Travel lights with high/low beams	Boom float kick-out
2 Front directional indicators/signals	Noise reduction kit (meets with EU 2002 noise requirements)
2 Combination: tail light, stop light and directional indicators	Limited slip differential axles
2 Front and rear working lights	Rear full fender
Hourmeter, speedometer and tachometer	Fork attachment
Electronic display/monitoring system	Rotating beacon
Engine coolant temp. gauge	Power train guard
Torque converter oil temp. gauge	LIS (Boom float) system
Pull hitch	3-spool piping to boom base
Horn	Two lever actuator controls
Fuel level indicator	Timber grapple
Neutral safety start system	Wheel chocks
Full adjustable suspension seat and seat belt	
ROPS cab with window washer and wipers and rear view mirrors	
Sunvisor, sliding door windows (LH only)	
Arm and wrist rest	
Front and rear fenders	
Rear frame side covers	
Air conditioner	
Heater and defroster	
Automatic return to dig function	
Emergency steering	
Boom kick-out	

Typical Material Densities - Loose

Material	Condition	Density lb/yd ³ (kg/m ³)
Gravel	dry	2,545 (1,510)
	dry, 6-50 mm	2,850 (1,690)
	wet, 6-50 mm	3,405 (2,020)
Sand	dry	2,395 (1,420)
	damp	2,850 (1,690)
	wet	3,100 (1,840)
Clay & Gravel	dry	2,395 (1,420)
	wet	2,595 (1,540)
Earth	dry	2,545 (1,510)
	wet	2,700 (1,600)
Sand & Clay	loose	2,700 (1,600)
Sand & Gravel	dry	2,900 (1,720)
	wet	3,405 (2,020)
Clay	natural	2,800 (1,660)
	dry	2,495 (1,480)
	wet	2,800 (1,680)
Limestone	soft	2,595 (1,540)
	hard	2,780 (1,650)
Stone	crushed	2,700 (1,600)
Granite	broken	2,800 (1,660)
Slag	broken	2,950 (1,750)
Gypsum	broken	3,050 (1,810)
	crushed	2,700 (1,600)
Basalt		3,305 (1,960)
Slate		2,105 (1,250)
Sandstone		2,545 (1,510)



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