



TEREX

TXL 160-1

Wheel Loader

| | |
|---------------------------|---|
| OPERATING WEIGHT | 18,960 lbs (8,600 kg) |
| GROSS ENGINE POWER | 99 hp (74 kW) @ 2,200 rpm |
| BUCKET CAPACITY | 2.1 yd ³ (1.6 m ³) |
| BREAKOUT FORCE | 17,200 lbs (7,800 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
- Direct injection, naturally aspirated, 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 160-1

Specifications

| Engine | |
|--|---|
| Make/model | Daewoo DB58S |
| Type | Four cycle, water cooled, direct-injection diesel |
| Piston displacement | 353 in ³ (5.8 L) |
| No. of cylinders | 6 |
| Bore x stroke | 4" x 4.6" (102 x 118 mm) |
| Gross power @ 2,200 rpm (SAE J 1995) | Rated 99 hp (74 kW) |
| Net power @ 2,200 rpm (SAE J1348) | 90 hp (67 kW) |
| Maximum torque @ 1,600 rpm | 275 ft.lb (373 Nm) |
| 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 | 100 Ah |
| Type | maintenance-free |
| Starter motor | 24v x 4.5 kW |
| Alternator capacity | 65A |

| Torque Converter | |
|--------------------|--------------------------|
| Type | single phase/three phase |
| Torque stall ratio | 3.057 : 1 |

| 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 | 4.1 | 7.3 | 13.3 | 21.4 | 4.4 | 7.6 | 13.9 |
| (kph) | (6.6) | (11.7) | (21.4) | (34.5) | (7.1) | (12.7) | (22.4) |
| Safety device prevents engine starting while in neutral gear | | | | | | | |

| Axles | |
|--|------|
| Rigid front axle, oscillating rear axle with planetary reduction gears in each wheel hub | |
| Rear axle oscillation | ±11° |
| "Torque proportioning" differential type Trunnion, Fully-Floating with wet disc brakes | |

| Tires | |
|-----------|---|
| Type | Tubeless |
| Choice of | 17.5-25-12PR (L-2), 17.5-25-12PR (L-3) 17.5-R25, Radial (L-2 equivalent) |

| Brakes | |
|--|--|
| Type: Wet multi disc brakes with fully hydraulic operated brake circuits. | |
| Independent circuit for each axle dual pedal braking system. | |
| Parking brake: oil released, spring apply hydraulic (SAHR) on front axle | |
| Hydraulic control by means of switch in cab | |
| The brake circuit complies with the following international standards ISO3450, EEC 71/320, SAE J1473 | |

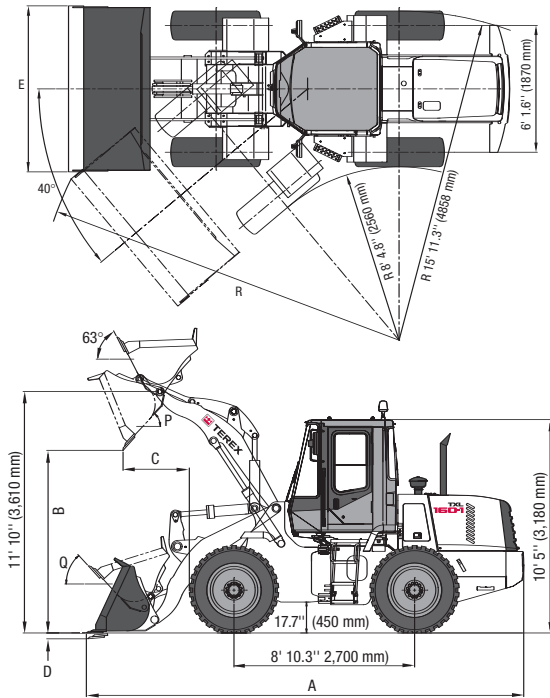
| Hydraulic System | |
|--|---|
| Type: | Sealed system with anticavitation and relief valves |
| Pump: | Gear type with steel case and automatic wear compensation |
| Maximum flow delivery | 32 gpm (121 bar) |
| Maximum working pressure | 2,845 psi (196 bar) |
| Control | Pilot, single lever |
| Double-acting hydraulic cylinders | |
| Loader arm (2EA) | bore x stroke 4.3" (105 mm) x 26.8" (680 mm) |
| Bucket (1EA) | bore x stroke 5.1" (130 mm) x 15.7" (400 mm) |
| Operating time: | lift 6.0 s lower 3.1 s dump 1.5 s |
| Hydraulic lines and connecting flanges are equipped with O-ring seals. Prolongs hydraulic component life, facilitates changeout when required. | |

| Steering | |
|--------------------------|--|
| Type | Hydraulic load with priority valve full hydraulic, power steering |
| Pump | Utilize the hydraulic system pump |
| Maximum flow rate | 32 gpm (121 L/min) |
| Maximum working pressure | 2,420 - 2,490 psi (167 -172 bar) |
| Cylinders, bore x stroke | 2.4" (60 mm) x 15.5" (395 mm) |

| 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 105 dB(A) |
| (According to EU Directive 2000/14/EC) | |

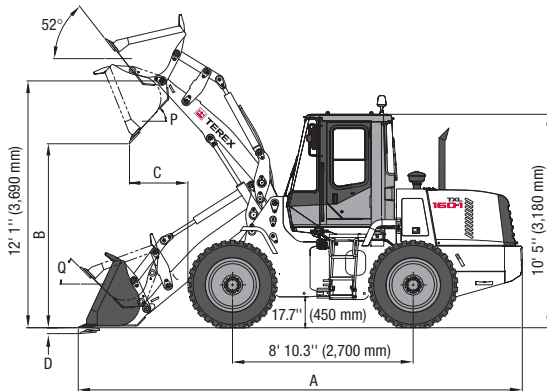
| Capacities | | | | |
|------------|-----------|------------------|------------------|------------------|
| Engine | Lube oil | 3.4 gal (13 L) | Transmission oil | 5.3 gal (20 L) |
| | Coolant | 7.7 gal (29 L) | Hydraulic system | 26.4 gal (100 L) |
| | Fuel tank | 48.9 gal (185 L) | | |
| Axles | Front | 4.7 gal (18 L) | Rear | 4.7 gal (18 L) |

Dimensions: Z-Bar Linkage



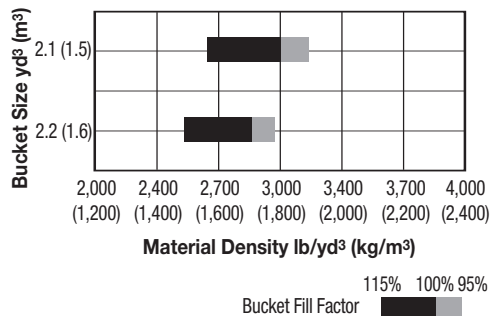
| Bucket Type (with 17.5-25 tires) | | | |
|-----------------------------------|---|----------------|----------------|
| | Unit | Cutting edge | Teeth |
| Capacity heaped | yd ³ (m ³) | 2.1 (1.6) | 2.1 (1.5) |
| Material density | lb/yd ³ (kg/m ³) | 3,033 (1,800) | 3,033 (1,800) |
| Static tipping load, straight | lbs (kg) | 14,330 (6,500) | 14,330 (6,500) |
| full turn (40°) | lbs (kg) | 11,680 (5,300) | 11,680 (5,300) |
| Breakout force | lbs (kg) | 17,200 (7,800) | 17,200 (7,800) |
| A Overall length | ft-in (mm) | 21' 5" (6,540) | 21' 7" (6,620) |
| B Dump height at 45° | ft-in (mm) | 9' 0" (2,745) | 8' 8" (2,685) |
| C Dump reach at 45° | ft-in (mm) | 3' 4" (1,020) | 3' 5" (1,073) |
| E Bucket Width | ft-in (mm) | 8' 0" (2,450) | 8' 0" (2,450) |
| D Digging depth | ft-in (mm) | 2.4" (73) | 2.4" (73) |
| R Turning radius at bucket | ft-in (mm) | 17' 7" (5,390) | 17' 8" (5,440) |
| Q Max. tilt angle on ground | deg | 42 | 42 |
| P Max. dump angle at fully raised | deg | 47 | 47 |
| Operating weight | lbs (kg) | 18,960 (8,600) | 18,910 (8,580) |

Dimensions: Parallel Linkage



| Bucket Type (with 17.5-25 tires) | | | |
|-----------------------------------|---|-----------------|-----------------|
| | Unit | Without Coupler | With Coupler |
| Capacity heaped | yd ³ (m ³) | 2.1 (1.6) | 2.1 (1.5) |
| Material density | lb/yd ³ (kg/m ³) | 3,033 (1,800) | 3,033 (1,800) |
| Static tipping load, straight | lbs (kg) | 13,440 (6,100) | 12,560 (5,700) |
| full turn (40°) | lbs (kg) | 11,460 (5,200) | 10,580 (4,800) |
| Breakout force | lbs (kg) | 16,314 (7,400) | 13,890 (6,300) |
| A Overall length | ft-in (mm) | 21' 8" (6,605) | 22' 1" (6,723) |
| B Dump height at 45° (w/o teeth) | ft-in (mm) | 9' 3" (2,824) | 8' 11" (2,728) |
| B Dump height at 45° (w/teeth) | ft-in (mm) | 8' 11" (2,706) | 8' 7" (2,619) |
| C Dump reach at 45° | ft-in (mm) | 2' 11" (899) | 3' 3" (995) |
| Bucket Width | ft-in (mm) | 8' 0" (2,450) | 8' 0" (2,450) |
| D Digging depth | ft-in (mm) | 2.6" (67) | 2.6" (67) |
| Turning radius (without bucket) | ft-in (mm) | 15' 11" (4,859) | 15' 11" (4,859) |
| Q Max. tilt angle on ground | deg | 45 | 45 |
| P Max. dump angle at fully raised | deg | 47 | 47 |
| Operating weight | lbs (kg) | 20,060 (9,100) | 21,275 (9,650) |

Bucket Selection Guide / Material Densities



*All performance data and specifications based on a unit with 17.5-25 tires and ROPS cabin.

Wheel Loader TXL 160-1

Standard and Optional Equipment

| Standard Equipment |
|--|
| Air cleaner with turbo precleaner |
| Alternator, 50A |
| Automatic lift kickout and bucket positioner |
| Back-up alarm |
| Batteries, maintenance free |
| Brakes, oil bath discs |
| ROPS cab w/heavy duty air conditioner, heater and defroster |
| Clock |
| Standard differential axle |
| Drawbar, fixed |
| External temperature indicator |
| Fenders, front and rear |
| Frame lock |
| Horn |
| Hourmeter, speedometer, tachometer |
| Lighting: two headlights, two rear flood lights, two stop lights, two reverse indicator lights |
| Parking brake |
| Sealed loader linkage |
| Seat, suspension type, cloth covered |
| Single lever pilot control for boom and bucket actuation |
| Steering column, adjustment tiltable |
| Steering knob |
| Tires, 17.5-25-12PR (L2) |
| Tool kit |
| Transmission declutch |
| Transmission: torque converter with full auto power-shift |

| Optional Equipment |
|---|
| Bucket with bolt-on teeth 2.1 yd ³ (1.5 m ³) |
| Bucket with bolt on extended cutting edge 2.2 yd ³ (1.5 m ³) |
| Auxiliary hydraulic function |
| Fire extinguisher |
| Pallet forks |
| Rotating beacon |
| Power train guard |
| Tires (17.5-R25) |
| Limited slip differential (LSD) axle |
| Wheel chocks |

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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