



ENVIRONMENTAL EQUIPMENT

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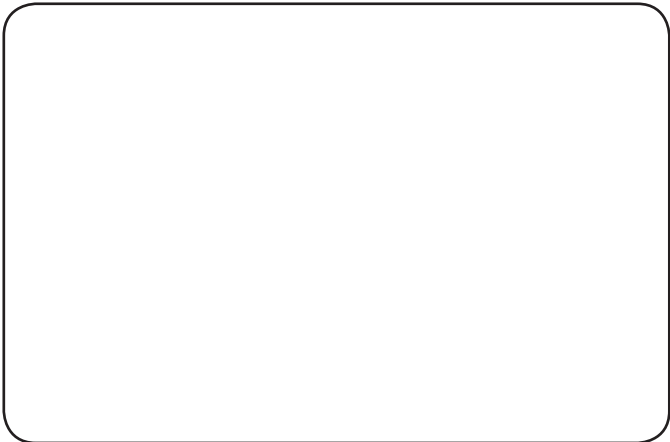
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ENVIRONMENTAL
EQUIPMENT
TECHNICAL SPECIFICATIONS



TSL 220
Skid Steer Loader Specifications

SPECIFICATIONS

| | | | |
|------------------|-----------------------|--------------------|-------------------|
| Operating Weight | 12,100 lbs (5,488 kg) | Ground Pressure | 4.25 psi (29 kPa) |
| Tipping Load | 8600 lbs (3901 kg) | Gross Engine Power | 111 hp (82.7kW) |

FEATURES

- ▶ Interim Tier 4 Perkins engine with 332 ft-lbs of peak torque
- ▶ Hydraulic Reversing fan for optimum cooling and reduced engine HP draw
- ▶ Improved tipping load of 8,600 lbs (3901 kg)
- ▶ Pilot-operated joystick controls
- ▶ Selectable ISO or "H" control pattern
- ▶ Adjustable loader speed and sensitivity
- ▶ Advanced undercarriage includes multi-level suspension for exceptional traction and operator comfort
- ▶ Two-speed hydrostatic drive system offers fast travel speed and high torque work speed

SPECIFICATIONS

OPERATING SPECIFICATIONS

| | |
|--------------------------------------------------------------------------|---------------------|
| NOTE: All specs are based upon the unit equipped with an All Weather Cab | |
| Operating weight | 12100 lbs (5488 kg) |
| Shipping weight | 11000 lbs (4990 kg) |
| Ground pressure @ operating weight | 4.25 psi (29 kPa) |
| Tipping load | 8600 lbs (3901 kg) |
| Operating capacity 50% tipping load | 4300 lbs (1950 kg) |
| Operating capacity 35% tipping load | 3010 lbs (1365 kg) |
| Travel speed low range | 0-6 mph (9.7 kph) |
| Travel speed high range | 0-10 mph (16 kph) |
| Loader breakout force | 6750 lbs (3062 kg) |
| Bucket breakout force | 5750 lbs (2608 kg) |

ENGINE

| | |
|-------------------------------|-----------------------------------------------------------------|
| Type | Diesel, liquid cooled, 4 cylinder, turbo, after cooled |
| Model | Perkins 854E-E34TA |
| Displacement | 207 in³ (3.4 L) |
| Gross power rating @ 2200 rpm | 111 hp (82.7 kW) |
| Torque peak | 332 lb-ft (450 Nm) |
| Cooling system | Hydraulic reversing fan and coolant/anti-freeze filled radiator |
| Engine block heater | Standard AC plug-in type |
| Intake air cleaner | Dual stage |
| Emission controls | Meets all U.S. interim tier 4 Standards |

UNDERCARRIAGE

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Track Type: General purpose track constructed of rubber compound with embedded co-polymer cords and all-purpose treads. Three rows of track drive lugs molded in. | |
| Track width | 20 in (508 mm) |
| Length of track on ground | 71 in (1803 mm) |
| Ground contact area (equipped with 20 inch tracks) | 2840 in² (1.83 m²) |
| Drive system | Two-speed radial piston motors connected to planetary reduction final drives. |
| Track drive sprocket | Elevated with low friction replaceable sprocket rollers. |
| Undercarriage suspension: Two independent torsion axles suspend each track frame plus four independent wheel carriages (4 wheels each) per track. | |
| Roller Wheels: 24 high-density polyurethane and rubber wheels per track. Wheel bearings protected by metal-faced seals. | |
| Roller wheel diameter | Front & rear wheels - 15 in (381 mm) Middle wheels - 10 in (254 mm) |

SERVICE CAPACITIES

| | |
|-----------------------------|------------------|
| Fuel tank | 30 gal (114 L) |
| Hydraulic tank | 22 gal (86 L) |
| Engine coolant/antifreeze | 4.3 gal (12 L) |
| Engine oil including filter | 9 quarts (8.5 L) |



AUXILIARY HYDRAULIC SYSTEM

| | | |
|-----------------------------------------------------------------------------------------------------------------------|------------------------|--|
| Pump capacity: Low - Variable from 0-20 gpm (76 lpm). High - 45 gpm (170 lpm) adjustable from 30-45 gpm (114-170 lpm) | | |
| System Pressure, Max. | | |
| Low Flow | 3,300 psi (22 753 kPa) | |
| High Flow | 3,800 psi (25 166 kPa) | |
| Controls: Intermittent via joystick button or continuous via console switch, mode selectable via dash-mounted switch. | | |
| Couplers: Push-to-connect quick couplers mounted on loader arms. Pressure relief valve mounted to coupler block. | | |
| Cooling system: High efficiency side-by-side radiator and oil cooler | | |

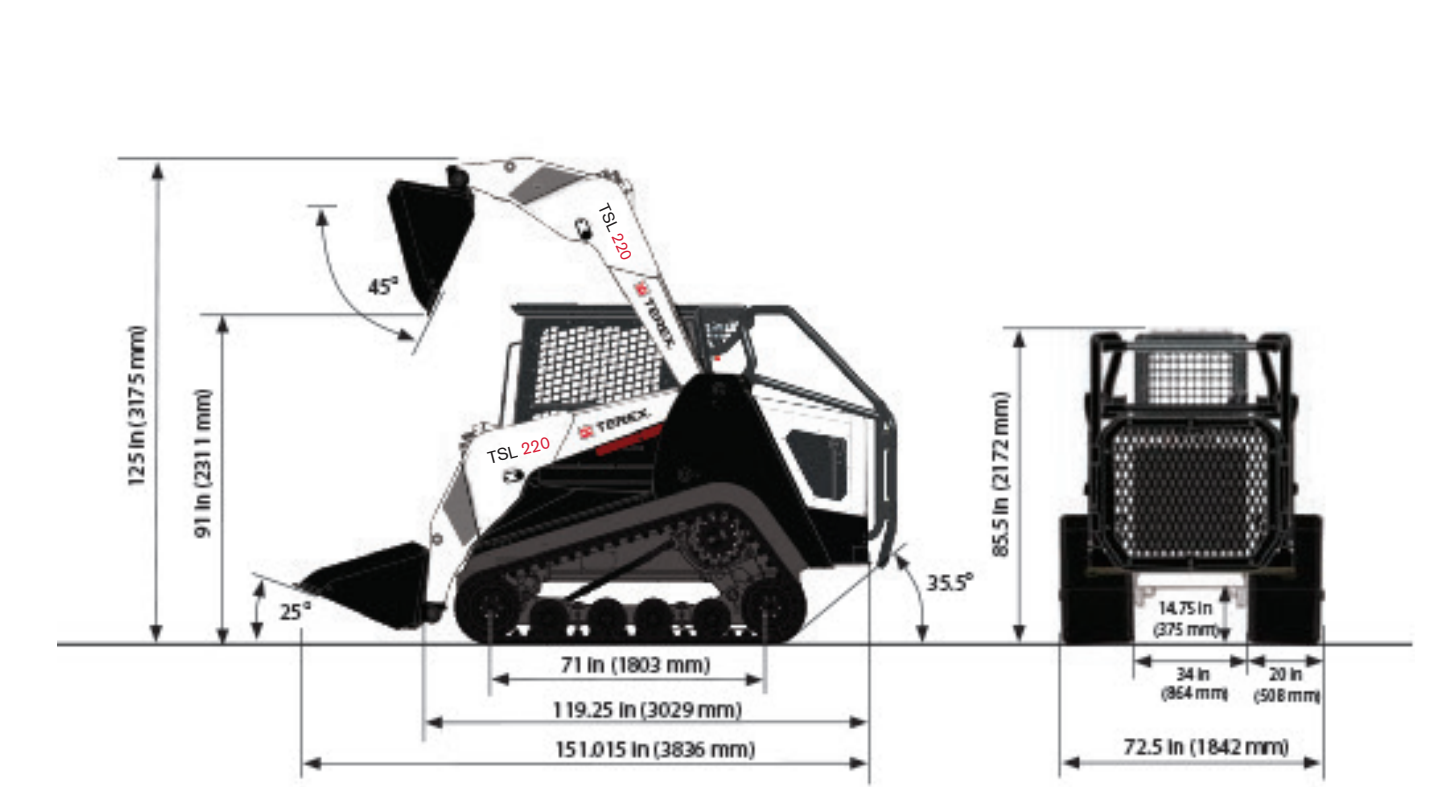
ELECTRICAL SYSTEM

| | |
|-----------------|-------------------------------------------------|
| Nominal charge | 12 V |
| Battery | 950 CCA |
| Charging system | 120 amp alternator |
| Outlets | 1-12 V port inside operator station |
| Wiring | Pre-wired for all factory-available accessories |

OPERATOR STATION

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------|
| Cab: Sealed and pressurized cab. | | |
| Seat: Adjustable suspension contour vinyl seat with built-in operator presence switch, lap bar and 2-inch (51 mm) wide seat belt. | | |
| Loader control: Right-hand electric over hydraulic controls loader lift/lower and tilt, plus intermittent control of auxiliary hydraulic. | | |
| Drive control: Left-hand pilot electric over hydraulic controls machine speed and direction. Selectable control pattern from ISO to H. | | |
| Engine speed | | Foot pedal |
| Indicators/gauges | Fuel Level | Oil Temp. Warning Light |
| | Tachometer | Engine Oil Pressure Gauge |
| | Hour Meter | Engine Oil Pressure Warning |
| | Coolant Temp. Gauge | Battery Low Voltage Indicator |
| | Oil Temp. Gauge | Two-Speed Indicator |
| ROPS | Meets SAE J1040 APR88, ISO 3471:2008, ISO 8082-1:2009 | |
| FOPS | Meets ISO 3449:2005 Level 2, ISO 8083: 2006, OPS SAE J1084:2002, ISO 8084:2003, BC WCB G603:1990, G604:1990 | |
| Illumination | 2 - Fixed forward-facing halogen lights | |
| | 2 - Rear-facing halogen lights | |
| | 1 - Interior light | |
| Convenience | 12 V power port | |

DIMENSIONS: GENERAL PURPOSE BUCKET



OPTIONAL ATTACHMENTS

| | | | |
|-------------------------|-----------------------|----------------|------------------|
| Auger & bits | Bucket, multi-purpose | Pallet forks | Trencher |
| Backhoe | Brush cutter, rotary | Power box rake | Vibratory roller |
| Broom, rotary | Dozer blade | Snow blade | |
| Bucket, general purpose | Land Leveler | Snow blower | |
| Bucket, light material | Mulching head | Stump grinder | |



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