TEREX

TS14G

Scraper

HEAPED CAPACITY	20 yd³ (15.3 m³)
STRUCK CAPACITY	14 yd³ (10.7 m³)
PAYLOAD	48,000 lbs (21,800 kg)
GROSS POWER	352 hp (263 kW)



SCRAPER TS14G

FEATURES

- New, power-down apron for positive closing and precision ejection
- Seven speed electronically controlled transmissions with sequential “bump” shift for smooth, low effort changes
- Cushioned bowl suspension for greater stability and productivity
- ROPS/FOPS panoramic operator’s compartment for superior visibility and comfort

Specifications

Engines

	Tractor	Scraper
Make	Cummins	Cummins
Model/type series	QSB 5.9 L, 4 cycle Turbocharged	QSB 5.9 L, 4 cycle Turbocharged
Gross power @ 2,200 rpm (SAE J1995)	185 hp (138 kW)	167 hp (125 kW)
Net power @ 2,200 rpm (SAE J1349)	176 hp (131 kW)	158 hp (118 kW)
Engine emission meets Tier 2 USA EPA/CARB MOH 40 CFR and EU NRMM (Non-Road Mobile Machinery) Directive.		
Maximum torque @ 1,600 rpm	531 lb ft (720 Nm)	475 lb ft (644 Nm)
Cylinder configuration	6 in-line	6 in-line
Bore and stroke	4.01" x 4.72" (102 x 120 mm)	4.01" x 4.72" (102 x 120 mm)
Piston Displacement	360 in³ (5.9 L)	360 in³ (5.9 L)
Dry Air Cleaners. Electric start. 24 volt negative ground electrical system, with two 12 volt 165 Ah batteries. 100A alternator. Dual pedals allow synchronized operation of Tractor and Scraper engines or independent control of Tractor engine. An alarm warns in event of engine malfunction.		

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Specifications

Transmissions (Front and Rear)

Funk DF158 Powershift, counter-shaft type transmission with integral torque converter. Seven speeds forward and one reverse. Automatic lockup in the top six forward gears. Manual, electric shifting and downshift inhibitor. An alarm warns in event of rear transmission malfunction.

	Forward							Reverse
Gear	1	2	3	4	5	6	7	R1
Ratio	5.72	4.05	2.90	2.03	1.45	1.03	0.74	4.05
mph (kmh)	3.6 (5.9)	5.1 (8.3)	7.2 (11.5)	10.2 (16.5)	14.3 (23.1)	20.2 (32.5)	28.2 (45.4)	5.1 (8.3)

Axles

Heavy duty, full floating with single reduction bevel gear differential and planetary reduction in each wheel.

Ratios:	Differential	4.11:1
	Planetary	5.33:1
	Total Reduction	21.91:1

A NoSpin differential is standard in rear axle for improved traction in difficult conditions.

Tires and Wheels

Rim width	
Standard	29.5 R 25 (**) Radial 25"
Optional	29.5-25 (28 PR) E-3 25"

Consult tire manufacturers for optimum tire selection and correct ton-mile/h (t-km/h) capacity for application.

Brakes

Full air operated drum brakes with automatic application on loss of air pressure. Secondary system can also be manually applied. Spring-applied parking brake actuators. Independent brake circuits front and rear. Air dryer standard.

Braking lining:	
Diameter	20" (508 mm)
Shoe width	6" (152 mm)
Lining thickness	0.75" (19 mm)
Lining area - each axle	520 in^2 (3,355 cm^2)
Air compressor capacity	13.2 ft^3/min (374 Lpm)

Steering

Full hydraulic steering by two interchangeable single stage, double acting cylinders.

Full 90° swing right or left.	
Pump capacity @ 2,200 rpm	38.7 gpm (147 Lpm)
System pressure @ 1,500 rpm	1,950 psi (135 bar)

Hydraulics and Controls

Full flow filtered system with one reservoir supplying a triple section gear pump for steering and scraper hydraulics. Three finger-tip servo assisted levers allow independent operation of bowl, apron and ejector.

Scraper Functions:	
Capacity @ 2,200 rpm	71.2 gpm (270 Lpm)
System pressure @ 1,500 rpm	1,500 psi (103 bar)
Servo Controls Pump:	
Capacity @ 2,200 rpm	11.3 gpm (43 Lpm)
System pressure @ 1,500 rpm	250 psi (17 bar)

Bowl

Bowl operated by two interchangeable double acting cylinders and linkage.

Cutting edge down-force (bowl empty)	48,000 lbf (214 kN)
Volumes:	
Struck (SAE)	14 yd^3 (10.7 m^3)
Heaped 1:1 (SAE)	20 yd^3 (15.3 m^3)

Apron

Power down apron, operated by two, double acting cylinders with arms mounted outside bowl.

Ejector

Positive roll-out type ejector operated by a single acting cylinder.

Cutting Edge

The cutting edge is in four sections which allows either straight or variable length drop center. All the sections are interchangeable and reversible.

Dimensions	16.0 x 28.5 x 1.0" (406 x 724 x 25 mm)

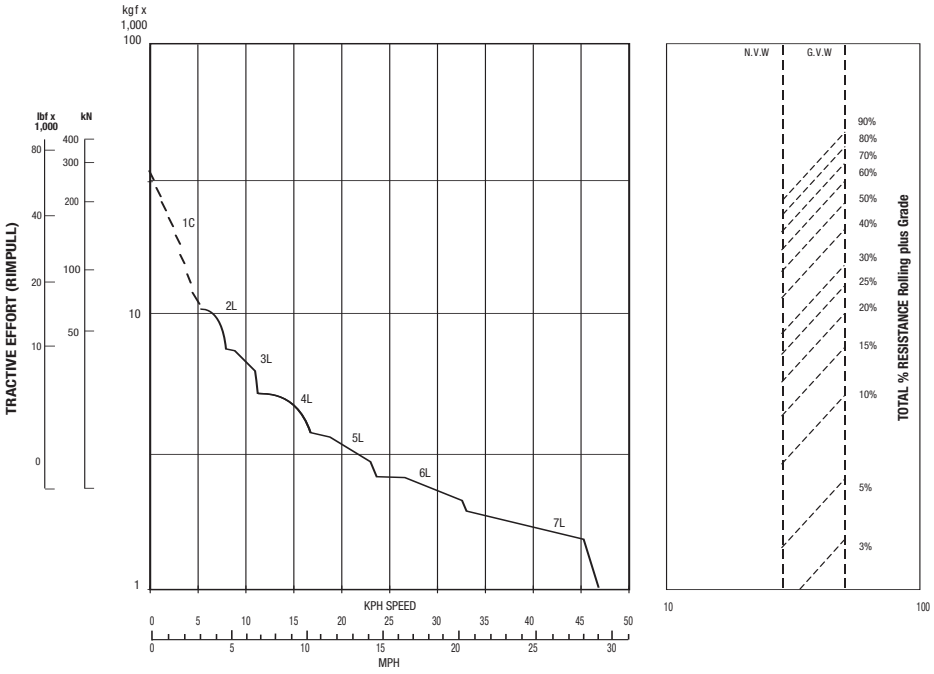
Weights

Net distribution		
Tractor axle	56.6%	36,600 lbs (16,148 kg)
Scraper axle	43.4 %	27,322 lbs (12,393 kg)
Vehicle, net		62,922 lbs (28,541 kg)
Payload		48,000 lbs (21,770 kg)
Gross distribution		
Tractor axle	50.9 %	56,456 lbs (25,608 kg)
Scraper axle	48.0 %	54,461 lbs (24,703 kg)
Vehicle, gross		110,917 lbs (50,310 kg)

Specifications

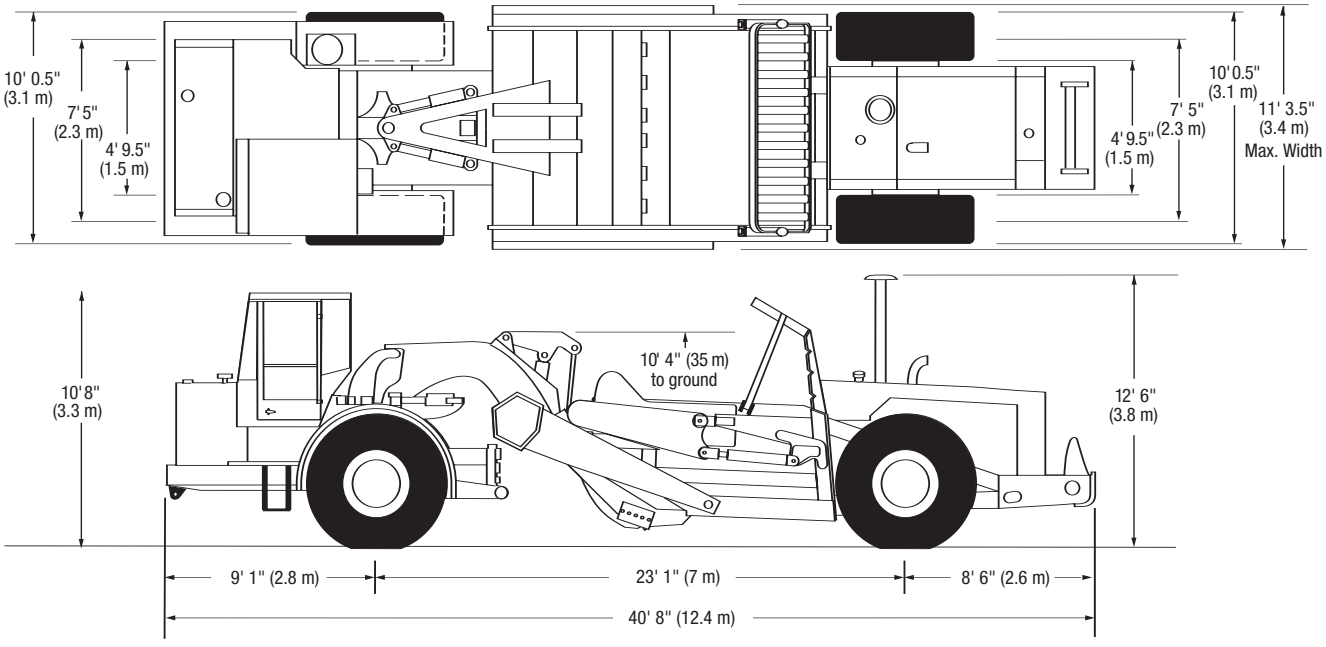
Service Data	
Tractor	
Fuel tank	100.0 gal (378.0 L)
Engine crankcase (dry fill)	6.5 gal (24.6 L)
Cooling system	11.4 gal (43.0 L)
Transmission and converter	12.8 gal (48.5 L)
Drive axle	4.5 gal (17.0 L)
Hydraulic system	54.0 gal (204.0 L)
Scraper	
Fuel tank	80.0 gal (303.0 L)
Engine crankcase (dry fill)	6.5 gal (24.6 L)
Cooling system	11.1 gal (42.0 L)
Transmission and converter	12.9 gal (49.0 L)
Drive axle	4.5 gal (17.0 L)

Performance Data - 0% rolling resistance



Dimensions

Apron opening	6’ 11” (2,100 mm)	Clearance under bowl	1’ 11” (585 mm)
Width of bowl and cutting edge	9’ 7” (2,910 mm)	Non-stop 180° turning width for vehicle clearance	60’ 0” (18.4 m)
Width of cut	9’ 10” (3,000 mm)	Overall length with optional twin hitch	
Depth of cut - maximum	1’ 0” (305 mm)	Bail raised	45’ 7” (13,900 mm)
Depth of spread - maximum	2’ 3” (685 mm)	Bail lowered	47’ 8” (14,340 mm)
Clearance under drive axle	1’ 11” (585 mm)		



Scraper

TS14G

Standard and Optional Equipment

Standard Equipment

- Air cleaners, two stage
- Air conditioner R 134A 23,000 BTU/hr (6.74 kW)
- Air dryer
- Air horn
- Air suspension seat, with arm rests
- Battery disconnect switch
- Brake drum guards
- Cutting edge floodlight
- Diagnostic test points
- Downshift inhibitor
- Exhaust mufflers
- Fan guards
- Fenders (front)
- Full flow hydraulic system
- Gear / diagnostic display unit
- Headlights, quartz halogen (4)
- Heater and Defroster 37,500 BTU/hr (11kW)
- Inspection lamp socket, 24v
- Interior light
- Lubrication points, grouped, 4
- Mirrors, rear view, RH and LH
- Mug holder
- Nitrogen inflated tires
- NoSpin differential (rear)
- Parking brake
- Radio /cassette player (removable)
- Reverse alarm, audible SAE J994)
- Seat belt, retractable, (SAE J386)
- Security kit
- Servo scraper controls
- Spillguard extension
- Sun visor, roller type
- Tinted glass
- Tow points
- Transmission guard (front)
- Windshield washers and wipers, front and rear
- Gauges, electric
- Air pressure
- Tachometer / hourmeter
- Transmission temperature (front)
- Transmission temperature (rear)
- Indicators - Light and Alarm
- Engine stop (front)
- Engine stop (rear)
- Transmission pressure (front)
- Transmission pressure (rear)
- Transmission temperature (rear)
- Air pressure low
- Indicator Lights only
- Alternator not charging
- Bowl suspension “on”
- Direction Indicators
- Engine check (front)
- Engine check (rear)
- Headlights, main beam
- Service engine soon
- Transmission filter (front)
- Transmission filter (rear)
- Operators compartment
- ROPS / FOPS
- SAE J1040C / ISO 3471
- SAE J321 / ISO3 449
- Side, tail, stop, direction
- Indicators and hazard
- Warning lights

Optional Equipment

- Fenders (rear)
- Radiator guard, heavy duty (rear)
- Roller push block (cannot be used with twin hitch)
- Severe application
- Modifications
- Twin hitch
- Tire inflation kit

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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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