

TS 14G

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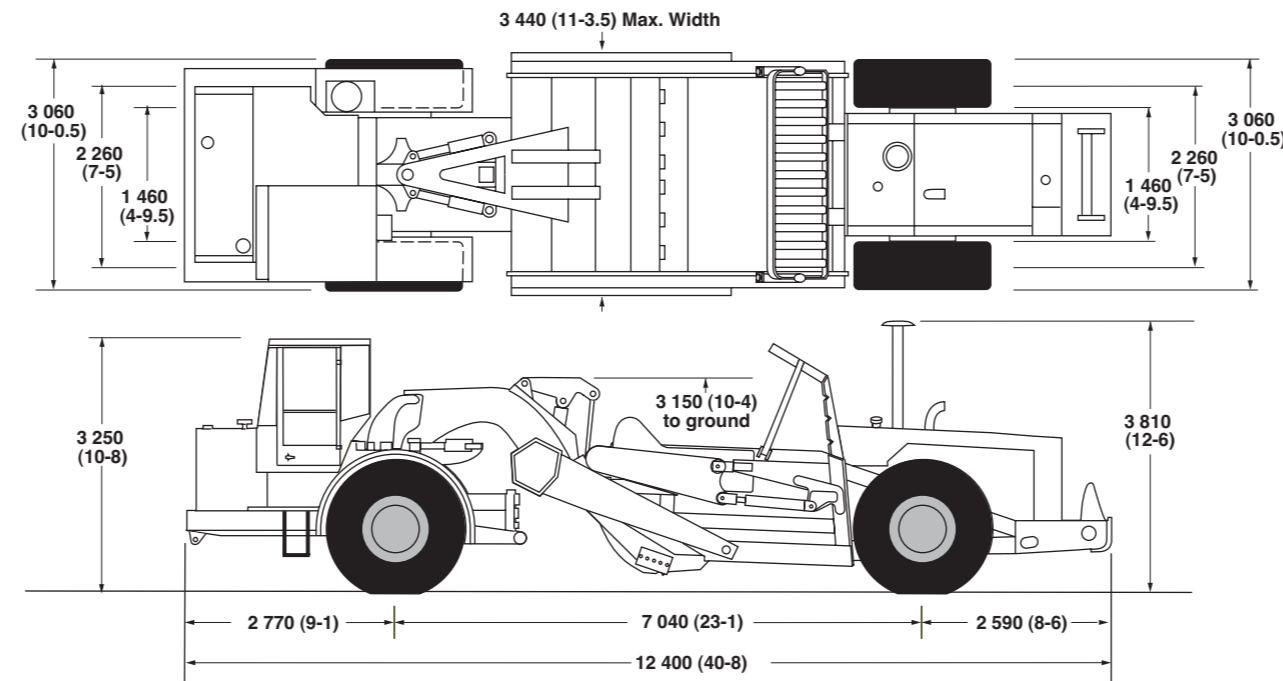
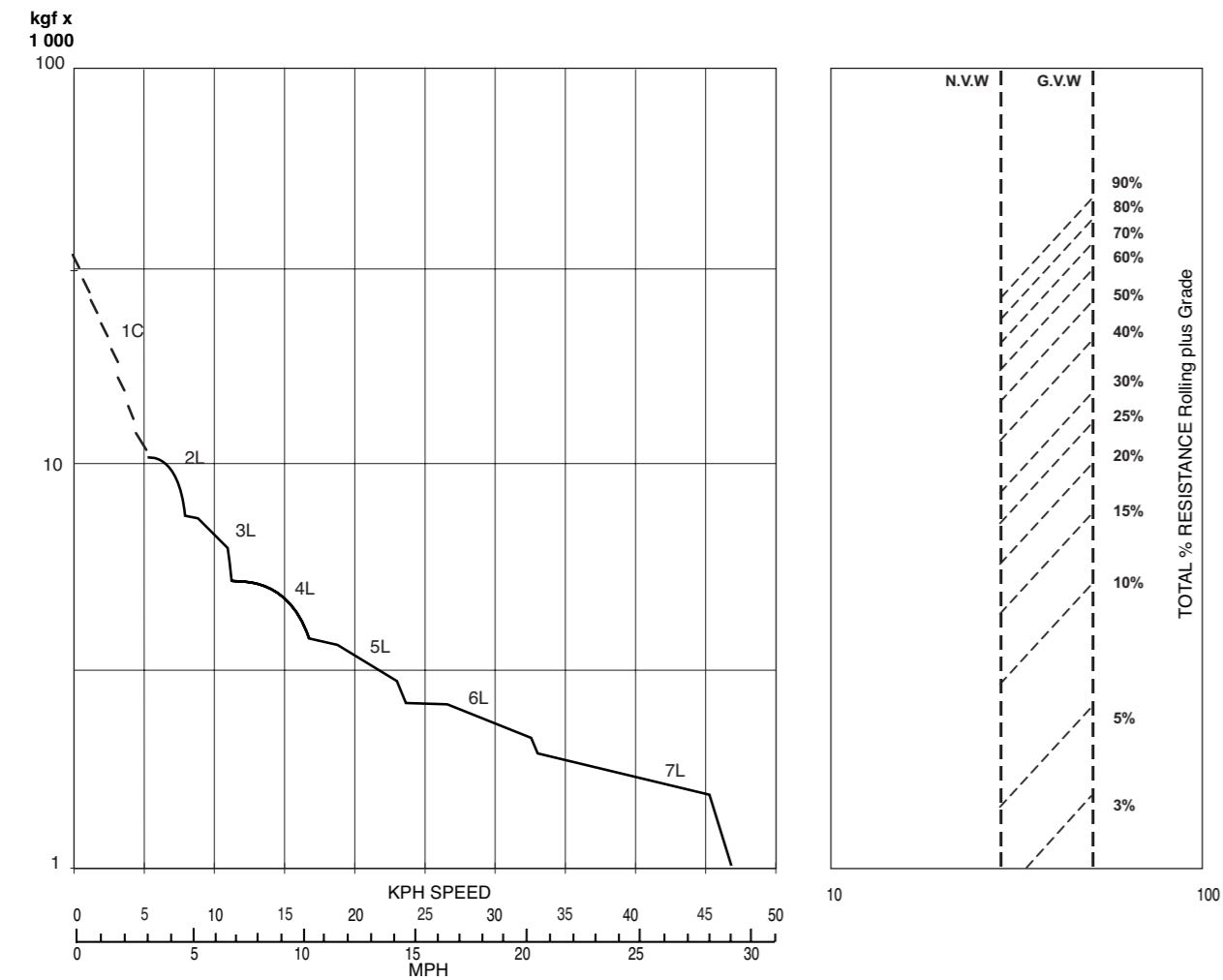
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Scraper

PERFORMANCE DATA

Graph includes 3% Rolling Resistance

GRADEABILITY



All vertical dimensions with bowl at 300 mm (12 in) carry position. Unit empty. Dimensions in mm (ft-in)

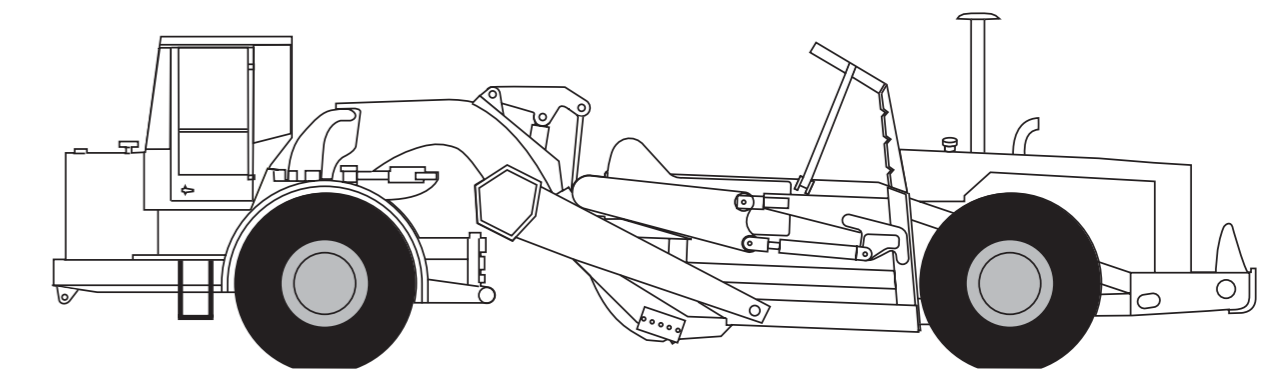
WEIGHTS

Standard Unit	%	kg	lb
<b>Net Distribution</b>			
Tractor Axle	56.6	16 180	35 670
Scraper Axle	43.4	12 410	27 359
<b>Vehicle, Net</b>		<b>28 590</b>	<b>63 030</b>
<b>Payload</b>		<b>21 770</b>	<b>48 000</b>
<b>Gross Distribution</b>			
Tractor Axle	50.9	25 639	56 516
Scraper Axle	49.1	24 732	54 514
<b>Vehicle, Gross</b>		<b>50 371</b>	<b>111 030</b>

DIMENSIONS

Apron Opening	2 100 (6-11)
Width of Bowl and Cutting Edge	2 910 (9-7)
Width of Cut	3 000 (9-10)
Depth of Cut - maximum	305 (1-0)
Depth of Spread - maximum	685 (2-3)
Clearance under Drive Axle	585 (1-11)
Clearance under Bowl	585 (1-11)
Non-stop 180° Turning Width for vehicle clearance	18.4 m (60-4)
Overall length with Optional Twin Hitch	
Bail Raised	13 900 (45-7)
Bail Lowered	14 340 (47-8)

DISTRIBUTOR STAMP



- ▶ 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 operators compartment for superior visibility and comfort
- ▶ Heaped Capacity (1:1) - 15.3 m<sup>3</sup> (20 yd<sup>3</sup>)
- ▶ Struck Capacity - 10.7 m<sup>3</sup> (14 yd<sup>3</sup>)
- ▶ Payload - 21 800 kg (48 000 lb)
- ▶ Gross Power - 263 kW (352 hp)

Instructions: From intersection of Vehicle Weight with Percentage Resistance line read across to determine maximum Gear attainable, and then downwards for Speed.



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### ENGINE

Make.....Cummins  
 Model/Type.....QSB-30, 4 Cycle Turbocharged  
 Gross Power at 2 200 rev/min (SAE J1995, June 90)  
 Tractor .....138 kW (185 hp)  
 Scraper .....125 kW (167 hp)  
 Net Power @ 2 200 rev/min  
 Tractor .....125 kW (167 hp)  
 Scraper .....114 kW (153 hp)  
 Gross power rated to SAE J1995 June 90.

Engine emission meets USA EPA / CARB MOH 40 CFR Tier 2 and EU NRMM (Non-Road Mobile Machinery Directive) Stage 2.  
 Maximum Torque at 1 600 rev/min

Tractor .....720 Nm (531 lb ft)  
 Scraper .....644 Nm (475 lb ft)  
 Cylinder Configuration .....6 in line  
 Bore and Stroke .....102 x 120 mm (4.01 in x 4.72 in)  
 Piston Displacement .....5.9 litre (360 in<sup>3</sup>)

Dry Air Cleaners. Electric start. 24 volt negative ground electrical system, with two 12 volt 165 Ah batteries. 100A alternator. Dual pedals allow synchronised operation of Tractor and Scraper engines or independent control of Tractor engine. An alarm warns in event of engine malfunction.

### TRANSMISSION

#### 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
	1st	2nd	3rd	4th	5th	6th	7th	R1
Ratio	5.72	4.05	2.90	2.03	1.45	1.03	0.74	4.05
km/h	5.9	8.3	11.5	16.5	23.1	32.5	45.4	8.3
mile/h	3.6	5.1	7.2	10.2	14.3	20.2	28.2	5.1

### 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.

### 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 .....508 mm (20.0 in)  
 Shoe Width .....152 mm (6.0 in)  
 Lining Thickness .....19 mm (0.75 in)  
 Lining Area - Each Axle .....3 355 cm<sup>2</sup> (520 in<sup>2</sup>)  
 Air Compressor Capacity .....374 litre/min  
 .....(13.2 ft<sup>3</sup>/min)

### STEERING

Full hydraulic steering by two interchangeable single stage, double acting cylinders. Full 90° swing right or left.

Pump Capacity @ 2 200 rev/min .....147 litre/min  
 .....(38.7 US gal/min)  
 System Pressure @ 1 500 rev/min .....135 bar  
 .....(1 950 lbf/in<sup>2</sup>)

### TYRES AND WHEELS

Tractor and Scraper .....Rim Width  
 Standard 29.5 R 25 (\*\*) Radial .....25 in  
 Optional 29.5-25 (28 PR) E-3 .....25 in

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

### 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 rev/min .....270 litre/min (71.2 US gal/min)  
 System Pressure @ 1 500 rev/min .....103 bar (1 500 lbf/in<sup>2</sup>)

Servo Controls Pump:

Capacity @ 2 200 rev/min .....43 litre/min (11.3 US gal/min)  
 System Pressure @ 1 500 rev/min .....17 bar (250 lbf/in<sup>2</sup>)

### BOWL

Bowl operated by two interchangeable double acting cylinders and linkage. Cutting edge down-force (bowl empty) 214 kN (48 000 lbf).

Volumes: .....  
 Struck (SAE) .....10.7m<sup>3</sup> (14.0yd<sup>3</sup>)  
 Heaped 1:1 (SAE) .....15.3m<sup>3</sup> (20.0yd<sup>3</sup>)

### 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 centre. All the sections are interchangeable and reversible.

Dimensions .....406 x 724 x 25 mm  
 .....(16.0 x 28.5 x 1.0 in)

### STANDARD EQUIPMENT

Air Cleaners, two stage  
 Air Conditioner R 134A  
 6.74kW (23 000 BTU/hr)  
 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

#### Gauges, electric:

Air Pressure  
 Tachometer/Hourmeter  
 Transmission Temperature (Front and Rear)  
 Gear / Diagnostic Display Unit

Headlights, Quartz Halogen (4)  
 Heater and Defroster  
 11kW (37 500 BTU/hr)

#### Indicators -

**Light & Alarm:**  
 Engine Stop (Front)  
 Engine Stop (Rear)  
 Transmission Pressure (Front and Rear)  
 Transmission Temperature (Rear)  
 Air Pressure Low

#### Indicator Lights only:

Alternator Not Charging  
 Bowl Suspension 'ON'  
 Direction Indicators  
 Engine Check (Front and Rear)  
 Headlights, Main Beam  
 Service Engine Soon (Back and Front)

### OPTIONAL EQUIPMENT

Fenders (rear)  
 Radiator Guard, heavy duty (rear)  
 Roller Push Block (cannot be used with Twin Hitch)  
 Twin Hitch  
 Tyre Inflation Kit  
 Aspirated Air Cleaner - Tractor  
 Aspirated Air Cleaner - Trailer  
 Nitrogen Fill Tyre

### STANDARD EQUIPMENT

Engines (removable)  
 Water in Fuel (Back and Front)  
 Engines (SAEJ994)  
 Cold Start Grid Heater (SAE J386)  
 Aid (Back and Front)  
 Engines  
 Transmission Filter (Front and Rear)  
 Inspection Lamp Socket, 24v  
 Interior Light  
 Lubrication Points, grouped, 4  
 Mirrors, rear view, RH and LH  
 Mug Holder  
 Nitrogen Inflated Tyres  
 NoSpin Differential (Rear)  
 Operators Compartment, ROPS / FOPS  
 SAEJ1040C / ISO3471  
 SAEJ321 / ISO3449  
 Parking Brake  
 Radio /Cassette Player

### SERVICE DATA

**Tractor** .....Litres .....(US Gal)  
 Fuel Tank .....378.0 .....(100.0)  
 Engine Crankcase (dry fill) .....15.0 .....(4.0)  
 Cooling System .....40.0 .....(10.6)  
 Transmission and Converter .....48.5 .....(12.8)  
 Drive Axle .....17.0 .....(4.5)  
 Hydraulic System .....204.0 .....(54.0)

**Scraper** .....Litres .....(US Gal)  
 Fuel Tank .....303.0 .....(80.0)  
 Engine Crankcase (dry fill) .....15.0 .....(4.0)  
 Cooling System .....39.0 .....(10.3)  
 Transmission and Converter .....49.0 .....(12.9)  
 Drive Axle .....17.0 .....(4.5)

► Designed for ease of servicing, no daily service requirements except for visual checks.

► The shortest lubrication interval is 50 service hours.

► All filters, dipsticks, level checks and fill ports are positioned for ease of accessibility.

► Access steps and walkways are provided at service points.