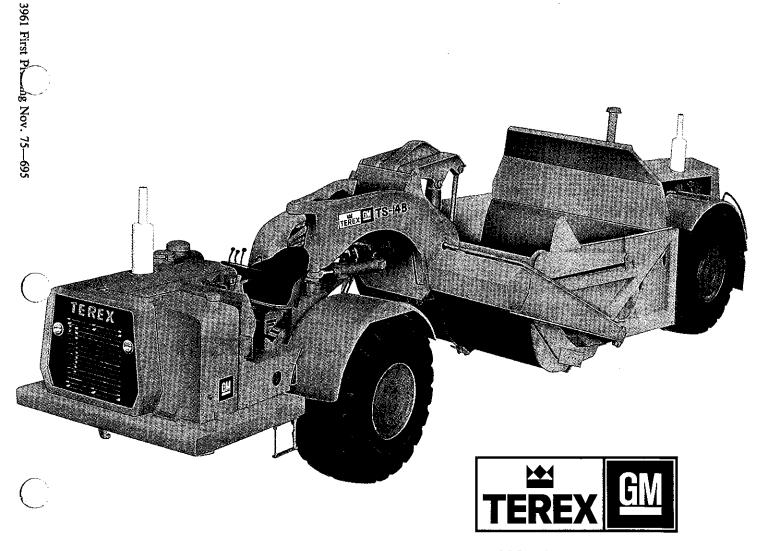
TEREX TS-14B SCRAPER



288 Flywheel Horsepower All-Wheel Drive 47,000 lb. (21319 kg) Payload

TEREX TS-14 B SCRAPER MODEL 17UOT-97SH

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

CAPACITY	BRAKES (Tractor and Scraper)
Struck Measure (S.A.E. Rating)	Two shoe internal expanding type. Brake Lining: Diameter
TRACTOR (17UOT)	Lining Area—Scraper Axle
ENGINE	TIRES & RIMS (Tractor and Scraper)
Detroit Diesel 4-71N, 2 Cycle Diesel	Tire Size Dim Width
Note: Two separate throttle controls for front and rear engines may be used separately or together. Gross Tractor HP @ 2100 RPM160 Flywheel HP @ 2100 RPM144	Standard - 29.5-25-22 PR, E-3
NOTE: Above ratings at sea level and 60°F. (15,5°C.). Gross horse- power rating includes standard engine equipment such as water pump, fuel pump and lubricating oil pump. Flywheel horsepower is the net horsepower after deduction from gross horsepower for fan, alternator and air compressor requirements.	NOTE: Productivity and performance capabilities of TEREX scrapers are such that under specific job conditions the Ton-MPH capability of Standard or Optional tires can be exceeded. Operation above the Ton-MPH rating may lead to premature tire problems. TEREX recommends that the user consult the tire manufacturer, and evaluate all job conditions in order to make the proper tire selection.
Number of Cylinders	ELECTRICAL SYSTEM
Piston Displacement	12 volt GM. One heavy duty 12 volt, 150 amp-hr battery. 65 amp alternator.
Fuel	SERVICE DATA U. S. Gal. (Lit.)
Maximum RPM (no load)2240	Water Cooling System 10 gals (37.9)
Air Cleaner(1) Donaldson Dry T-Type (STG-12)	Fuel Tank
TRANSMISSION—Allison CLT-3461	Transmission & Converter 6 gals. (22,7) Hydraulic System 54 gals. (204,4) Drive Axle 4.6 gals. (17,4)
Allison Torqmatic Transmission with 400 series four element converter. Automatic converter lock-up is standard in top five speed ranges. Torqmatic transmission has spur planetary gearing. Six speeds forward, one reverse. Full powershifting through hydraulically actuated multiple disc clutches.	SCRAPER (97SH) ENGINE
Ratios: 1st 3.81:1 2nd 2.74:1 3rd 1.94:1 4th 1.39:1 5th 1.00:1 6th 0.72:1	Same as tractor.
Reverse 4.35:1 Stall Speed	TRANSMISSION Stall Speed2050-2150 RPM
TORQUE CONVERTER—Allison TC-420	Other specifications and ratios same as tractor.
Mounted integral with transmission. Maximum torque multiplication 2.88:1.	TORQUE CONVERTER Same as tractor.
DRIVE AXLE	DRIVE AXLE
Heavy duty, full floating with Eaton 3910 single reduction bevel gear differential and planetary reduction in each wheel. Ratios: Transfer	Heavy duty, full floating with Eaton 3910 single reduction bevel gear differential and planetary reduction in each wheel. NoSPIN differential standard, allows lock up of both wheels in poor traction areas. Ratios: Transfer
STEERING SYSTEM	Total Reduction26.51:1
Full hydraulic type provided by two single stage, double acting cylinders. Full 90° swing to either right or left. Steering cylinder bore	CONTROLS Three lever control allows independent operation of the apron, bowl and ejector. Hydraulic valves are mechanically actuated.
and stroke5.5" x 17.50" (139,7 mm x 445 mm) Steering pump	CUTTING EDGE
TypeGear	Four section cutting edge with variable length drop center. All
Drive	blades interchangeable and reversible.
& 1500 psi32 GPM (84,5 liters/min) System Pressure @ 1500 RPM1950 psi (137,1 kg/cm²)	Cutting edge dimensions 16" x 28.50" x 1" (406 mm x 723,9 mm x 25,4 mm)

BOWL

Two identical and interchangeable hydraulic cylinders are used to operate the scraper bowl. The bowl cylinders are connected to the bowl through levers and linkage. Bowl cylinder bore

and stroke9.17" x 18.22" (232,9 mm x 462,8 mm)

APRON

Full floating type with large opening for easy ejection. The apron cylinder is connected to the apron by a 3/4" cable 14' long.

Apron cylinder bore and stroke9.17" x 24.97" (232,9 mm x 634,2 mm)

EJECTION

Positive roll-out type ejection actuated by a single acting hydraulic cylinder. Apron and ejector cylinders are identical. Ejector cylinder bore

and stroke9.17" x 24.97" (232,9 mm x 634,2 mm)

HYDRAULIC SYSTEM

Hydraulic system is full flow filtered and has one reservoir with one tandem pump for steering and scraper controls.

эсгарег	DOWI	Control	rump		
Type					Gea
					Gea
		2100 R			
	1500			E2 CPM	1196 & liters/min

& 1500 psi52 GPM (196,8 liters/min) System Pressure @ 1500 RPM1500 psi (105,5 kg/cm²)

SERVICE DATA

U. S. Gai.	
Water Cooling System 10 gals.	(37,9)
Fuel Tank 80 gals.	(302,8)
Crankcase (dry fill)3.8 gals.	(14,4)
Transmission and Converter 6 gals.	(22,7)
Drive Axle4.6 gals.	(17,4)

II C Cal

11:43

DIMENSIONS

	(7061 mm)
	(12060 mm)
Width (overall)11'- 31/2"	(3442 mm)
Height (max.)10'- 4"	(3150 mm)
Apron Opening 6'-101/2"	(2096 mm)
Width of Cutting Edge 9'- 61/2"	(2908 mm)
Width of Cut 9'-10"	(2997 mm)
Depth of Cut (max.) 1'- 2"	(356 mm)
Depth of Spread (max.) 2'- 4"	(711 mm)
Clearance Under Drive Axle 1'-11"	(584 mm)

	(584 mm)
Non-Stop 180° Turning Width for	
vehicle clearance33'- 0"	(10058 mm)

WEIGHTS

NET WEIGHT DI	ISTRIBUTION		
Drive Axle	55.2%	29,175 lbs.	(13234 kg)
Scraper Axle	44.8%	23,625 lbs.	(10716 kg)

...... 52,800 lbs. (23950 kg) PAYLOAD 47,000 lbs. (21319 kg)

GROSS WEIGHT DISTRIBUTION

HOOO HEIGH	DIGITIDGITION		
Drive Axle	49.6%	49,453 lbs.	(22432 kg)
Scraper Axle	50.4%	50,347 lbs.	(22837 kg)
Total		99,800 lbs.	(45269 kg)

TRACTOR AND SCRAPER

STANDARD EQUIPMENT

Dry T-Type Air Cleaners, Full Flow Hydraulic Filtration, Engine Oil Pressure Gauges, Engine Temperature Gauges, Converter Oil Temperature Gauges, Clutch Pressure Gauges, Ammeters, Air Restriction Gauges, Mufflers, Maintenance and Parts Manuals.

Tractor Only: Tachometer, Hourmeter, Air Pressure Gauge, Air Horn, Air Suspension Seat.

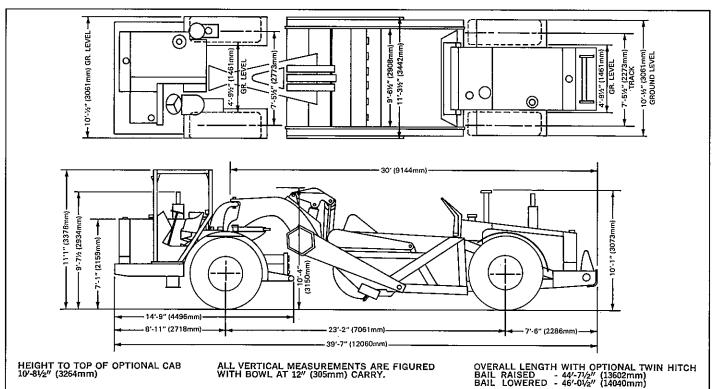
Scraper Only: NoSPIN Differential, Power Train Warning Alarm.

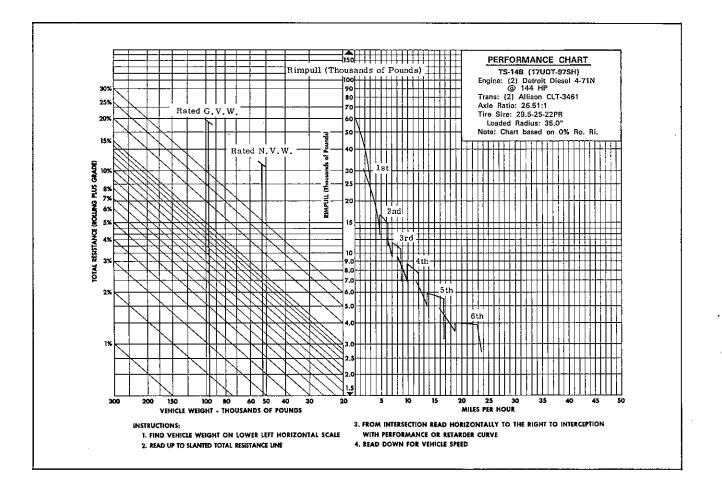
OPTIONAL EQUIPMENT

OPTIONS TO HELP USER COMPLY WITH OCCUPATIONAL SAFETY AND HEALTH ACT. Emergency and Parking Brake System (SAE J319B) Includes Individual Tractor Wheel Brake Control. Canopy, Roll-Over Protective Structure (SAE J320A) will fit over optional cab. Seat Belt (SAE J386). Reverse Alarm (SAE J994)

OTHER OPTIONS: Security Kit, Brake Drum Guards, Cab, Windshield and Wiper, Cab Defroster and Heater, Twin Hitch, Roller Push Block, Severe Application Kit, Heavy Duty Side Cutters, Spillguard Extension, Downshift Inhibitors, Apron Cable Roller, Aspirated Rear Engine Air Cleaner, Severe Duty Rear Radiator Guard, Scraper Fenders, Soundpac (Includes Cab).

CONVERSION CHART 1 U.S. Gal. coolant 1 lb. 1 sq. in. 1 sq. ft. 1 sq. yd. 1 cu. yd. 1 mile =1.609 kilometers 1 foot =30.48 centimeters 1 inch =2.54 centimeters 1 U.S. Gal. =3.785 liters 1 U.S. Gal. =0.833 lmp, gals. 1 U.S. Gal. =7.2 lbc (2000) =8.3 lbs. (approx.)
=0.4536 kilograms
=6.452 sq. centimeters
=929 sq. centimeters
=0.836 sq. meters
=0.7646 cu. meters diesel fuel =7.3 lbs. (approx.)







Worldwide Sales ◆ Service ◆ Parts
Manufactured in Australia ◆ Brazil ◆ Canada
◆ India ◆ Luxembourg ◆ Scotland
◆ South Africa ◆ United States