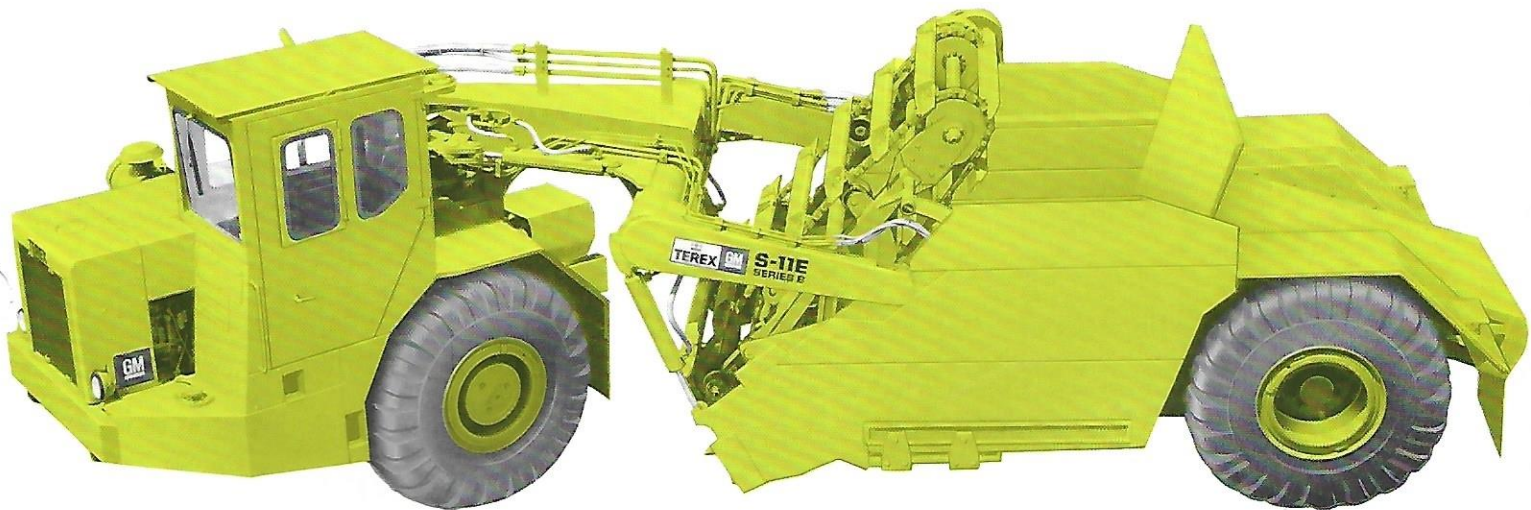


TEREX S-11E SERIES B SCRAPER



- 144 Flywheel Horsepower
- Hydrostatic Elevator Drive
- 26,000 Pound Payload

TEREX S-11E SERIES B SCRAPER

MODEL 18UOT-101SH

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

CAPACITY

Heaped Measure (S.A.E. Rating)11 cu. yd. (8,41 m³)

TRACTOR (18UOT)

ENGINE

Detroit Diesel 4-71N, 2 Cycle Diesel

Gross Tractor HP @ 2100 RPM160

Flywheel HP @ 2100 RPM144

NOTE: Above ratings at sea level and 60°F. (15.5°C.). Gross horsepower 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.

Number of cylinders4
Bore and stroke4 $\frac{1}{4}$ " x 5" (108 mm x 127 mm)
Piston Displacement284 cu. in. (4,7 liters)
Maximum torque @ 1400 RPM432 ft. lbs. (59,7 kg m)
Oil-MIL-L-2104BSAE 30
FuelNo. 2-D recommended
Governor typeLimiting speed
Maximum RPM, full load2100
Maximum RPM, no load2250
Idle Speed500
Air cleaner(1) Donaldson dry type (FHG-12)

TRANSMISSION—P5-400

The transmission has five forward and two reverse speeds. Full power-shifting through automatic adjusting, hydraulically actuated, multiple disc clutches.

Ratios: 1st 10.40:1 2nd 4.36:1 3rd 2.10:1
4th 1.22:1 5th .592:1

Reverse: 1st4.36:1
2nd1.22:1

Stall Speed1840-1940 RPM

Maximum Speed25.4 MPH (40,9km/hr)

TORQUE CONVERTER

Engine Flywheel Mounted. Maximum Torque Multiplication 1.82:1.

DRIVE AXLE

Heavy duty, full floating with single reduction bevel gear differential and planetary reduction in each wheel. Eaton 19120 differential.

Ratios: Differential6.67:1
Planetary3.39:1
Total Reduction22.62:1

STEERING SYSTEM

Full hydraulic type provided by two single stage, double acting cylinders. Full 90° swing to either right or left.

Steering cylinder bore and stroke4.00" x 18.00" (101,6 mm x 457,2 mm)

Steering pump

TypeTandem, Gear

DriveEngine Driven P.T.O. through converter

Capacity @ 2100 RPM

& 1750 psi26 GPM (98,4 liters/min)

System Pressure1750 psi (123,0 kg/cm²)

BRAKES (Tractor & Scraper)

Air over hydraulic caliper disc brakes with an 18" (457,2 mm) diameter rotor on each wheel. Double calipers on the front axle wheels and single calipers on the rear. Each caliper has two sets of opposing pistons.

Air compressor capacity7.25 CFM (.203 m³/min)

TIRES AND RIMS (Tractor & Scraper)

Tire Size	Rim Size
23.5 x 25 - 20PR, E-2 or E-3	19.5" (495 mm)

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.

ELECTRICAL (Tractor & Scraper)

Direct electrical starting, 24 volt GM. Two heavy duty 12 volt 155 amp-hr batteries.

SERVICE DATA

	U.S. Gals. (Lit.)
Water Cooling System	7 gals. (26,5)
Fuel Tank	77 gals. (291,4)
Crankcase (dry fill)	4.5 gals. (17,0)
Transmission and Converter	9 gals. (34,1)
Hydraulic System	79 gals. (299,0)
Drive Axle	7 gals. (26,5)

SCRAPER (101SH)

ELEVATOR

DriveVariable speed hydrostatic motor
Elevator pump

TypeVariable displacement

DriveEngine driven P.T.O. through converter

Capacity @ 2100 RPM

& 5500 psi37.6 GPM (142,3 liters/min)

System pressure5500 PSI (387,5 kg/cm²)

Reduction ratio27.7:1

Length9'-6" (2896 mm)

Drive Sprockets

Number of teeth per sprocket17

Chains

Number of links per chain75

Pitch3.075" (78,11 mm)

Speed0-241 ft/min (0-73,5 m/min) FWD

0-105 ft/min (0-32,0 m/min) REV

Flights

Number15

Length66" (1676 mm)

Width5" (127 mm)

CONTROLS

Two lever hydraulic control operation for bowl and ejection. Separate hydraulic control for elevator operation.

CUTTING EDGE

Four section cutting edge with 2 1/2" (64 mm) drop center. Four bolt-on ripping teeth on cutting edge provide maximum penetration. Two center sections interchangeable and two outside interchangeable. All sections reversible.

Cutting Edge Dimensions

Length	7' 6" (2286mm)
Outside sections	12" x 15" x 1" (304,8 mm x 381,0 mm x 25 mm)
Inside sections	12" x 30" x 1" (304,8 mm x 762,0 mm x 25 mm)

BOWL

Bowl employs two single stage, double acting hydraulic cylinders. Bowl cylinders are interchangeable with Ejection Cylinders. Bowl cylinder bore and stroke

4.00" x 18.00" (101,6 mm x 457,2 mm)

EJECTION

Combination sliding bowl pan and ejector end gate. Controlled by two single stage, double acting hydraulic cylinders. As sliding bowl pan opens, strike off blade automatically swings into position to provide smooth, even spreading of material. Ejection cylinders are interchangeable with bowl cylinders.

Ejection cylinder bore

and stroke

4.00" x 18.00" (101,6 mm x 457,2 mm)

HYDRAULIC SYSTEM

Hydraulic system is filtered and has one reservoir with two separate pumps. A single pump supplies the elevator while a tandem pump operates the steering and scraper controls.

Scraper Bowl Control Pump

Type

Drive

Capacity @ 2100 RPM

& 2250 psi

System Pressure

CONVERSION CHART

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

DIMENSIONS

Wheelbase	19' 2" (5843 mm)
Length	
Overall	31' 3" (9525 mm)
Front Axle to Bumper	7' 9" (2362 mm)
Rear Axle to Push Block	4' 4" (1321 mm)
Width	
Overall	9' 1" (2769 mm)
W/Motor Removed	8' 3" (2515 mm)
Height	
Max. (top of ROPS)	9' 6" (2896 mm)
Top of Elevator	9' 4" (2845 mm)
Width of Cut	7'10" (2388 mm)
Depth of Cut	6.5" (165 mm)
Clearance Under Drive Axle	1' 7" (483 mm)
Non-Stop 180° Turning Width	28' 6" (8687 mm)
Track - Front & Rear	6' 2" (1880 mm)

WEIGHT - (Includes all O.S.H.A. options)

DISTRIBUTION—NET WEIGHT

Drive axle	68.6%	23530 lbs. (10673)
Scraper axle	31.4%	10770 lbs. (4885)
Total		34300 lbs. (15558)

PAYLOAD

DISTRIBUTION—GROSS WEIGHT

Drive axle	53.6%	32300 lbs. (14651)
Scraper axle	46.4%	28000 lbs. (12701)
Total		60300 lbs. (27352)

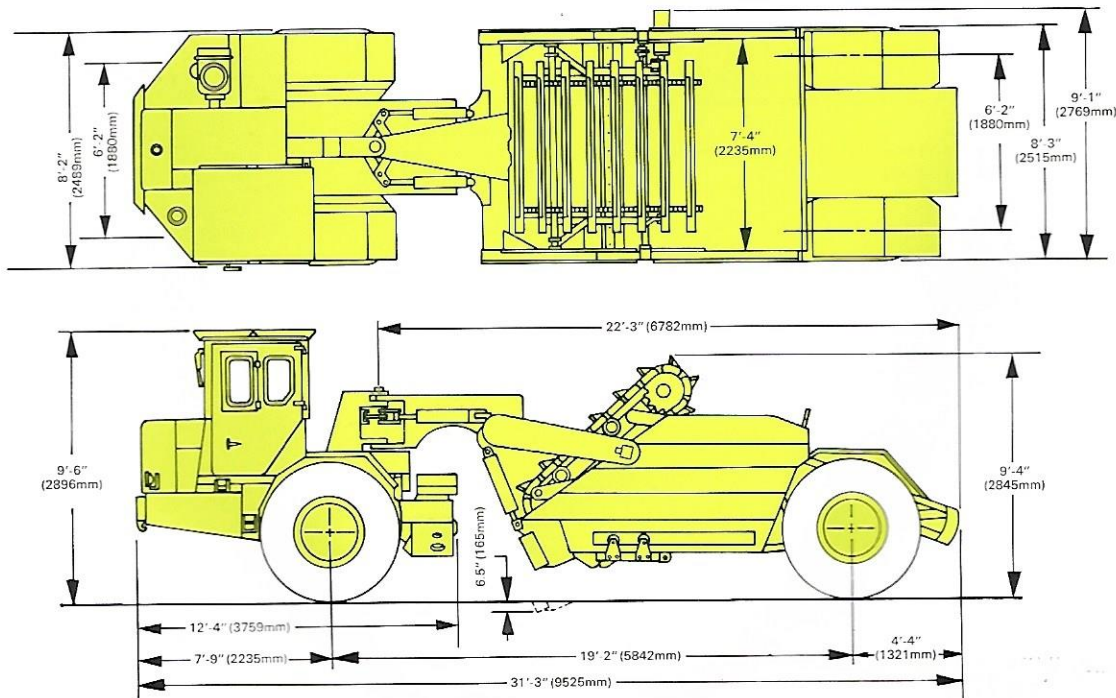
STANDARD EQUIPMENT

Tachometer With Integral Hourmeter Gauge; Operator Warning System With Indicator Lights And Audible Alarm To Monitor Engine Oil Pressure; Engine Water Temperature Light; Alternator Charging Current Light; Air System Pressure Light; Converter And Transmission Temperature Light. Horn, Air Suspension Seat, Muffler, Four Cutting Edge Teeth, Hydraulic Chain Adjusters, Engine And Transmission Pan Guards, Maintenance And Parts Manuals, Operator's Handbook.

OPTIONAL EQUIPMENT

OPTIONS TO HELP USER COMPLY WITH OCCUPATIONAL SAFETY & HEALTH ACT: Emergency And Parking Brake System (SAE J319b), Fenders-Scraper Axle (SAE J321a), ROPS CAB (SAE J320a) Includes Seat Belt (SAE J386), Reverse Alarm (SAE J994).

OTHER: Heater, Defroster Fan, Dome Light, CAB Precleaner And Blower, Directional Signals, Sound Treatment, Radial Steel Cord Tires, Windshield Wipers, Reversing Elevator, Security Kit.



All Vertical Measurements Are Figured With Bowl At 16" Carry