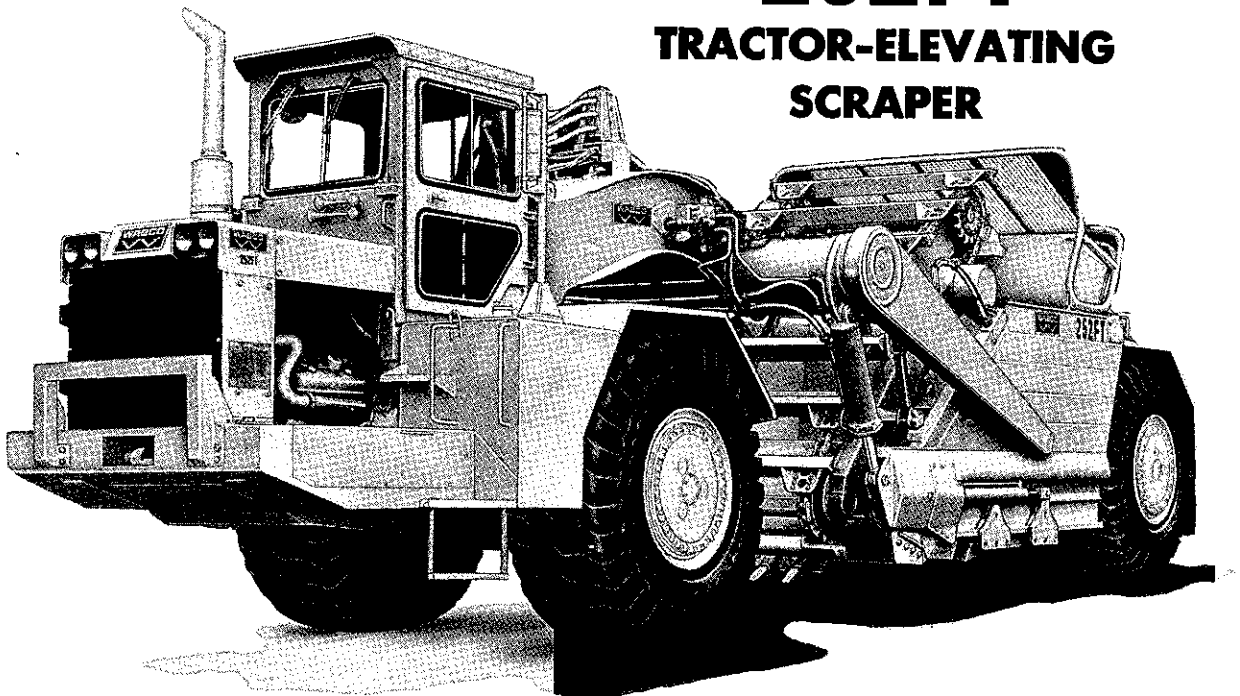


WABCO

MODEL
252FT
TRACTOR-ELEVATING
SCRAPER



- 27 Cu. Yds. (20,64 m³)
- 700 horsepower
- Big performance, low cost, excellent gradeability, 4-wheel traction.
- 2-speed rugged elevator fits wide range of material with low cost operation.
- Requires no pusher or auxiliary equipment to load.
- WABCO torque proportioning differential, front and rear, delivers superior traction under wet, muddy conditions.
- Variable Input Power torque converter transmission, front and rear, for superior engine transmission match, for maximum machine efficiency.

PLSM-793-Rev.1-Sept.76



MODEL 252FT TRACTOR-ELEVATING SCRAPER SPECIFICATIONS

Specifications are subject to change without notice or obligation.

TRACTOR

ENGINE (Diesel) Detroit Diesel 8V-71T
 Number of Cylinders 8
 Operating Cycle 2 Stroke
 * Rated Brake Horsepower 350HP @ 2100 RPM
 ** Flywheel Horsepower 326.5 HP @ 2100 RPM
 Rating Baseline Sea Level to 5000 ft.
 @ 85° F. (29,44° C)
 Maximum Torque 965 ft. lb. 1600 RPM
 Bore 4 1/4 in. (108 mm)
 Stroke 5 in. (127 mm)
 Displacement 567.4 cu. in. (9,30 liters)

* Rated Brake HP is the output of the engine as installed in this machine, at governed RPM and with engine manufacturer's approved fuel setting. Accessory losses included are water pump, fuel pump and lube oil pump. Output guaranteed within ± 5%.)

** (Flywheel Horsepower is the rated horsepower at the engine flywheel minus the average accessory losses. Accessories include Fan, Air Compressor and Alternator.)

TRANSMISSION (Tractor & Scraper)

Power Shift Type Allison VCLT-5860
 with Allison VTC-570 Torque Converter

SPEED in MPH and (Kilometers per hour)

* Forward, Loading, 1st 0-3.4 (5,47)
 Travel, 1st 3.6 (5,80)
 2nd 7.4 (11,91)
 3rd 9.8 (15,77)
 4th 14.6 (23,50)
 5th 19.7 (31,70)
 6th 29.4 (47,31)
 Reverse, 1st 2.7 (4,35)

* Loading speed varies with variable capacity converter input power.

DIFFERENTIAL

Tractor & Scraper Torque proportioning automatic friction type

STEERING

Type Positive hydraulic-variable speed, 90° each way
 Hydraulic Cylinders Two, double acting
 (13,97 cm x 71,12 cm) 5 1/2 x 28
 Pump Variable displacement piston type
 Width for 180° turn 35' 8" (10,87 m)

SERVICE CAPACITIES

	Gallons	Liters
	(U.S. Standard)	
Cooling System	27.0	(102)
Crankcase, with Filter	8.5	(32)
Fuel Tank	170.0	(644)
Final Drive & Planetary	30.0	(114)
Transmission & Torque Converter w/filter	20.5	(78)
Hydraulic Tank	100.0	(379)
Drop Box	2.0	(8)
Power Take Off	1.50	(6)

SCRAPER

REAR ENGINE (Diesel) Detroit Diesel 8V-71T
 Number of Cylinders 8
 Operating Cycle 2 Stroke
 * Rated Brake Horsepower 350 HP @ 2100 RPM
 ** Flywheel Horsepower 320 HP @ 2100 RPM
 Rating Baseline Sea Level to 5000 ft.
 @ 85° F. (29,44° C)
 Maximum Torque 965 ft. lb. @ 1600 RPM
 Bore 4 1/4 in. (108 mm)
 Stroke 5 in. (127 mm)
 Displacement 567.4 cu. in. (9,30 liters)

* (Rated Brake HP is the output of the engine as installed in this machine, at governed RPM and with engine manufacturer's approved fuel setting. Accessory losses included are water pump, fuel pump and lube oil pump. Output guaranteed within ± 5%.)

** (Flywheel Horsepower is the rated horsepower at the engine flywheel minus the average accessory losses. Accessories include Fan.)

CAPACITY

Cubic Yards (SAE J957) 27 (20,64 m³)
 Tons 32 (29,03 m tons)

OPERATING DATA

Bowl width (inside) 10' 2" (3,10 m)
 Width of Cut (outside of side bit) 122.25" (3,11 m)
 Cutting edge length 120.5" (3,06 m)
 One drop center blade 1 3/8" x 19" x 64"
 (3,49 cm x 48,26 cm x 1,63 m)
 Two end blades 1 1/8" x 16" x 28"
 (2,85 cm x 40,64 cm x 71,12 cm)
 Ripper Teeth 5

Type of Ejection Positive
 Method Combination sliding bowl pan and ejector end gate

ELEVATOR

Width 90.0" (2,29 m)
 Length (center of tail roller to center of sprocket)
 11' 7.38" (3,54 m)
 Number of Flights 14
 Power Source WABCO 43:1 Gear Box with Hydraulic Vane Motor

Pump Dual Element Gear Pump
 1st Speed 78 GPM (295 liter/min.)
 2nd Speed 156 GPM (591 liter/min.)
 @ Rated Engine Speed and 100 PSI - (7 kg/cm²)
 Relief Valve Setting 2500 PSI
 (176 kg/cm²)

ELEVATOR (Continued)

Elevator Chain Speed:

1st Speed	127 ft./min. (38,7 m/min.)
2nd Speed	254 ft./min. (77,4 m/min.)
Reverse	127 ft./min. (38,7 m/min.)

SERVICE CAPACITIES

	Gallons (U.S. Standard)	Liters
Cooling System	26.0	(98)
Crankcase, with Filter	8.5	(32)
Fuel Tank	170.0	(644)
Final Drive & Planetary	37.0	(140)
Transmission & Torque Converter	19.5	(74)
Drop Box	1.32	(5)

GENERAL

HYDRAULIC CIRCUITS

Control	Two lever, remote mounted valve
Pump	Gear type, 78 GPM (295 liter/min.) @100 psi & rated engine speed Relief valve setting 2500 psi (176 kg/cm ²)
Cylinders, Bowl lift	two, double acting 7" x 24 3/4" (17,78 cm x 62,87 cm)
Tailgate	two, double acting 4" x 34" (10, 16 cm x 86,36 cm)
Floor	two, double acting 4" x 57 1/2" (10,16 cm x 146,05 cm)

TIRES

For maximum tire service WABCO recommends that the user review intended application of his equipment, before selecting tires, in order to avoid exceeding the tire manufacturer's recommended limits.

Standard for Tractor:

185 TMPH rating* . . . 33.25-35,32 ply rating Rock (E-3)
(160 tkm/h) (270 tkm/h)

Standard for Scraper:

185 TMPH rating* . . . 33.25-35, 38 ply rating rock (E-3)
(270 tkm/h)

Other types of tires are also available in these sizes with significantly higher TMPH ratings. — Contact the factory or tire manufacturer for additional data.

* Approximate TMPH rating @ 100 ambient temp. — Contact the tire manufacturer for additional or more precise data.

BRAKES, Shoe Type air over hydraulic actuated, wedge operated

Size 26" x 5"
(66,04 cm x 12,7 cm)

OVERALL DIMENSIONS

Length	44' 11 1/2" (13,70 m)
Length, Scraper only	32' 9" (9,98 m)
Width (w/std. tires)	11' 11 1/2" (3,64 m)
Height, rear exhaust	13' 2 3/4" (4,03 m)
Wheelbase	26' 5" (8,05 m)

OVERALL DIMENSIONS (Continued)

Ground clearance, Tractor	24 1/4" (61,60 cm)
Ground clearance, Scraper bowl	21" (53,34 cm)

WEIGHT

Shipping weight, approximate 96,060 lbs. (43 572 kg)

Distribution	Empty	Loaded
Drive Axle	57%	48%
Rear Axle	43%	52%

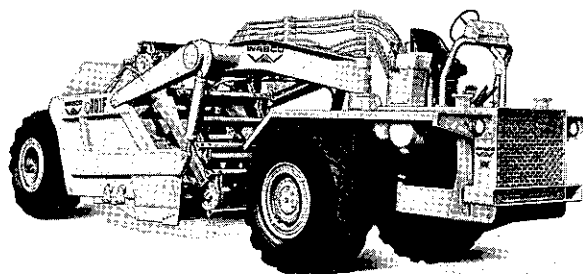
STANDARD EQUIPMENT

Air cleaner (dry type), front tow hook, rear tow hooks, headlights, horn, hour meter, hydraulic chain adjusters, belly guard, rear view mirror, seat belt, throttle lock, shift indicator, suspension seat, elevator reverse, tractor fenders, ripper teeth*, parking brake, emergency braking system, automatic ejector return, rollover protecting structure, windshield and mufflers.

(*Deletable standard equipment.)

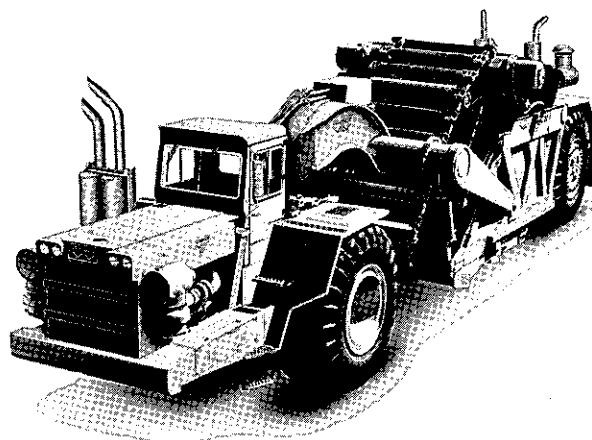
Other WABCO Elevating Scrapers

You get capacity loads without a pusher.



101F TRACTOR-ELEVATING SCRAPER

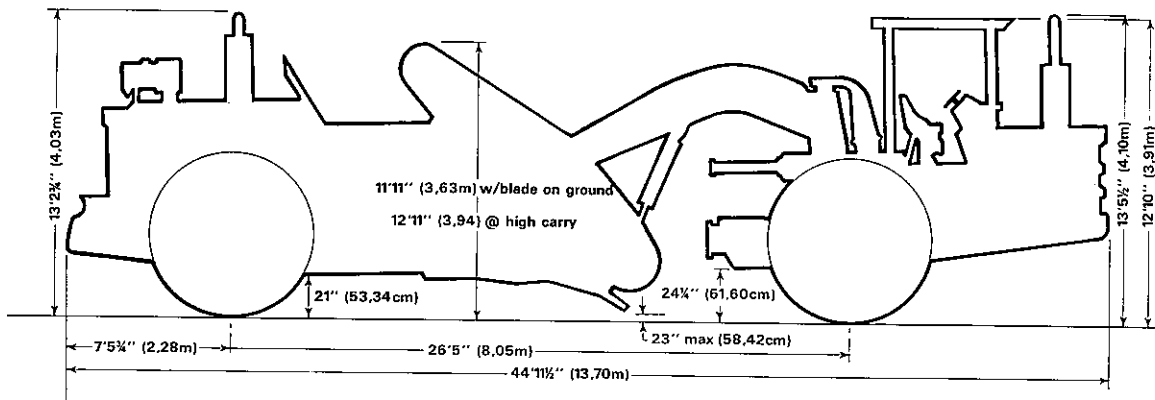
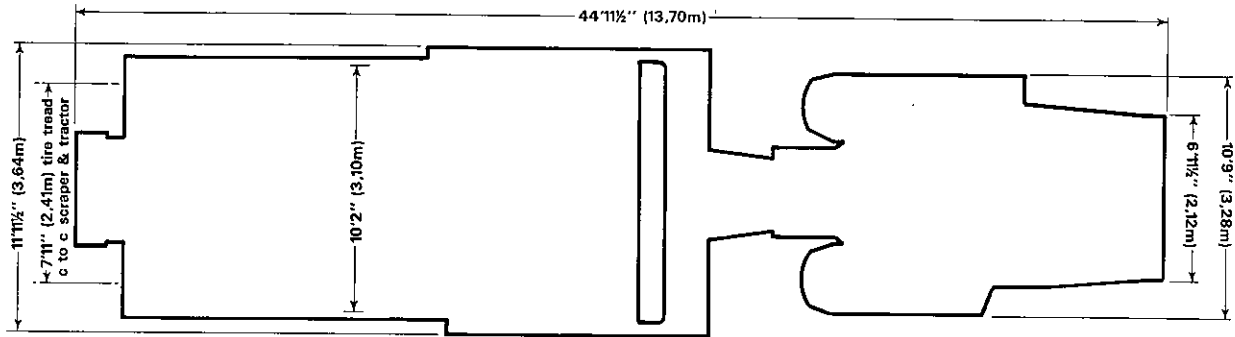
9 cubic yards (6,88 m³) capacity.



333FT TRACTOR-ELEVATING SCRAPER

34 cubic yards (26,0 m³) capacity.

MODEL 252FT TRACTOR-ELEVATING SCRAPER



All dimensions reflect standard tires at static loaded radius with zero surface penetration.



An American-Standard Company