

**WABCO**

**MODEL 35C**  
**HAULPAK® REAR DUMP**  
**TRUCK**



- 5,000 hour (one year) no cost Hydrair® suspension guarantee.
- Longer tire life from big 18.00-33 tires.
- More power per pound (kg.) of truck weight for superior performance.
- More operator comfort with rubber-mounted deluxe cab, offset left of engine for safe, all-around visibility.
- Faster dumping, better reliability with new, sealed larger-capacity hydraulic system.
- Time-saving maneuverability from short turn circle adds extra cycles daily.
- High availability – frame, final drive, etc. torture tested to assure reliability.
- Easier loading by front-end loader because of longer, lower V-shaped body.

**WABCO CONSTRUCTION AND MINING EQUIPMENT GROUP**  
2300 N.E. Adams Street, Peoria, Illinois 61639



# 35C HAULPAK REAR DUMP TRUCK SPECIFICATIONS

Specifications are subject to change without notice or obligation.

## CUMMINS NTA-855-C ENGINE

ENGINE, Diesel	Cummins NTA-855-C
Number of Cylinders	6
Operating Cycle	4 Stroke
* Rated Brake HP	420 @ 2300 RPM
** Flywheel HP	395 @ 2300 RPM
Rating Baseline	up to 6000 ft (1.829m) Altitude @ 100° F. (37.8 c)
Maximum Torque	1055 ft-lbs (146 kg-m) @ 1600 RPM
Bore	5 1/2" (139.7 mm)
Stroke	6" (152.4 mm)
Displacement	.855 cu. in. (14.01 liters)

## DETROIT DIESEL 12V-71N ENGINE

ENGINE, Diesel	Detroit Diesel 12V-71N
Number of Cylinders	12
Operating Cycle	2 Stroke
* Rated Brake HP (SAE)	456 @ 2100 RPM
** Flywheel HP	425 @ 2100 RPM
Rating Baseline	Sea Level @ 60° F. (15.6°)
Maximum Torque	1250 ft-lbs (173 kg-m) @ 1600 RPM
Bore	4 1/2" (108 mm)
Stroke	5" (127 mm)
Displacement	852 cu.in. (13.96 liters)

\*(Rated brake horsepower 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  $\pm 5\%$ .)

\*\* (Flywheel horsepower is the rated horsepower at the flywheel minus the average accessory losses. Accessories include fan, generator, air compressor and hydraulic pump at no load.)

## COMMON SPECIFICATIONS APPLYING TO ALL POWER TRAINS

### SPEEDS in MPH and (Kilometers/hr.)

	CUMMINS	DDAD
Forward, 1st	7.5 (12 07)	6.8 (10 94)
2nd	12.2 (19 64)	11.1 (17 87)
3rd	18.7 (30 12)	17.0 (27 37)
4th	27.7 (44 59)	25.2 (40 57)
5th	38.8 (62 46)	35.3 (56 83)
Reverse, 1st	8.7 (14 00)	8.0 (12 88)

### FINAL DRIVE ASSEMBLY

Differential	Power Transfer, automatic friction type no slip differential. Automatically puts power on wheel with traction. When one wheel tends to spin, differential transfers up to 3 times its tractive effort to wheel on firmer footing.
Final Drive	Double reduction type
Ratios: Bevel set	2.29:1
Final Set	5.50:1
Total Reduction	12.62:1

### SERVICE CAPACITIES

	Gallons (U.S. Std.)	Liters
Cooling System — Cummins	22	(83)
Cooling System — DDAD	28	(106)
Crankcase — Cummins	6.5	(25)
Crankcase — DDAD	9.5	(36)
Hydraulic System	60	(227)
Transmission & Torque Converter	8	(30)
Final Drive	32	(121)

### TRANSMISSION

Allison CLBT 750	w/torqmatic brake, torque converter
Lock-up type — Cummins	Allison TC 497
Lock-up type — Detroit Diesel	Allison TC 498
Shift Control	Mechanical Type Automatic Hydraulic valve gear selection in forward drive range.

**COOLING SYSTEM** . . . . . Continuous finned, flat tube type radiator, with 1840 sq. in. (11.871 cm<sup>2</sup>) of frontal area  
36 1/2" (92.7 cm) diameter fan with 8 blades,  
constant running fan. Fan shroud is Hartzel type.  
Radiator is rubber mounted. Deaeration type top tank

**FUEL TANK** . . . . . 120 U.S. Standard Gallons (455 liters)

**AIR COMPRESSOR** . . . . . Capacity 12 cmf (0.34 m<sup>3</sup>/min)

**AIR CLEANER** Cummins NTA-855-C Single 64 tube dry type  
Detroit Diesel 12V-71N Dual 40 tube dry type

**FRAME** . . . . . Special alloy steel modified box section frame  
with integral front bumper and cross member  
Top and bottom plate thickness . . . . . 3/4" (19mm)  
Side plate thickness . . . . . 3/8" (9.5mm)  
Rear Axle mounting . . . . . Ball and socket joint at front and  
two HYDRAIR® suspension units at rear  
Rear Axle alignment . . . . . Panhard rod between frame  
and axle housing

**SUSPENSION, HYDRAIR II** . . . . . Variable rate air-hydraulic  
suspension with integral rebound control  
Length of stroke, front . . . . . 14 1/2" (36.83 cm)  
Length of stroke, rear . . . . . 10 1/4" (26.04 cm)

**BRAKES**, Shoe Type-Wedge Actuated . . . . . Air over hydraulic  
Size, Front . . . . . 20 1/4" x 5" (51.4cm x 12.7cm)  
Rear . . . . . 26" x 8" (66.0cm x 20.3cm)

**STEERING** . . . . . Full time power steer  
Turning degree, each direction . . . . . 42°  
Turning circle on front wheel track . . . . . 49' 0" (14.93m)  
Emergency power steering standard . . . . . Electrically driven  
hydraulic pump

**PARKING BRAKE** . . . . . Bendix, lever operated, internal  
expanding type. Located on input pinion. 12" (304.8mm)  
diameter by 5" (127 mm) width, 147 1/2 sq.in. (951.7cm<sup>2</sup>)  
of braking surface. Safety type, automatic  
engagement when air is off.

**CAB** . . . . .Deluxe interior, rubber mounted, fully enclosed, offset to left, 52" (1321 mm) wide with adjustable ventilators and floor mat.

Windshield . . . . . Safety, 15° tilt

Seat, Drivers . . . . . Fully adjustable

Environmental . . . . . All-weather fresh air heater and full windshield defroster. Cab is insulated for sound and temperature control.

#### ELECTRICAL SYSTEM

Electric Starter, NTA-855-C . . . . . 24 volts

12V-71N . . . . . 24 volts

Batteries, Electric Starter . . . . . Two 12-volt in series, 25 plates per cell, 200 ampere-hr. capacity

Batteries, Air Starter . . . . . Two 12-volt in series, 13 plates per cell, 90 ampere-hr. capacity

Alternator . . . . . 24-volt, 50 amp output

Lighting system . . . . . 24-volt

#### STARTING SYSTEM

Electric, standard . . . . . Delco-Remy

Air, optional . . . . . Ingersoll Rand

#### BODY

##### BODY

Construction . . High strength 100,000 PSI (7.031 kg/cm<sup>2</sup>) yield steel. 3/4" (19mm) one piece bottom plate. 3/8" (9.5mm) side and 1/2" (12.7mm) front body plate. Heavy bolster and sill construction. Body rubber mounted on frame.

**HOIST** . . . . .Hydraulic, twin cylinder, 3-stage double-acting, telescopic type mounted on outside of frame for accessibility. Ball and socket connection.

Hoist pump @ 2100 RPM . . . . .80 GPM (302.8 liter/min) @ 1800 PSI (127kg/cm<sup>2</sup>) at rated load.

Relief pressure set at 2500 PSI (176 kg/cm<sup>2</sup>)

#### CAPACITY

Cubic yards, struck . . . . .23.0 (17.59 m<sup>3</sup>)

Heaped @ 3:1 . . . . .27.0 (20.64 m<sup>3</sup>)

@ 2:1(SAE) . . . . .29.0 (22.17 m<sup>3</sup>)

@ 1:1 . . . . .34.0 (26.00 m<sup>3</sup>)

Tons . . . . .35 (31.77 m. tons)

#### BODY DIMENSIONS

Length . . . . . 15' 9" (4.80 m)

Width, Inside . . . . . 11' 0" (3.35 m)

Depth . . . . . 5' 11" (1.80 m)

Dumping Angle . . . . .55°

#### GENERAL

##### GENERAL DIMENSIONS

Length, Overall . . . . .25' 4" (7.72m)

Length, Chassis . . . . .20' 7" (6.27m)

Width, Overall . . . . .12' 5" (3.78m)

Height, Loading . . . . .11' 0" (3.35m)

Height, Dumping . . . . .24' 3" (7.39m)

Height, Overall . . . . .13' 1" (3.99m)

Wheelbase . . . . .10' 10" (3.30m)

Front Track, center line . . . . .9' 11" (3.02m)

Drive Track, center line . . . . .8' 3" (2.51m)

Front Clearance, Bumper . . . . .34" (0.86m)

Drive Clearance . . . . .19" (0.48m)

#### TIRES & RIMS

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

#### STANDARD TIRES

18.00-33, 28PR Rock (E3) Tubeless .135 TMPH rating (197 tk/h)\*

#### OPTIONAL TIRES

18.00-33, 32 PR Rock (E3) Tubeless .135 TMPH rating (197 tk/h)\*

18.00-33, 24 PR Rock (E4) Tubeless .115 TMPH rating (168 tk/h)\*

18.00-33, 28 PR Rock (E4) Tubeless .115 TMPH rating (168 tk/h)\*

18.00-33, 32 PR Rock (E4) Tubeless .115 TMPH rating (168 tk/h)\*

18.00-33 Radial steel cord . . . . .240 TMPH rating (350 tk/h)\*

RIM SIZE FOR ALL TIRES LISTED ABOVE . . . . .13.00-33

\* Estimated ton mile per hour rating at 100°F. (38°C) ambient temperature. Use as a guide only. Contact tire manufacturers for precise data.

#### TIRE SPACING

Inside, Front . . . . .8' 3" (2.51m)

Drive . . . . .4' 7" (1.40m)

Outside, Front . . . . .11' 8" (3.56m)

Drive . . . . .12' 0" (3.66m)

#### WEIGHTS

	Pounds	Kilograms
Chassis with hoists, empty . . . . .	42,310	(19 191)
Body, empty . . . . .	14,800	(6 713)
Net Weight, No load . . . . .	57,110	(25 904)
Payload . . . . .	70,000	(31 752)
Gross Weight . . . . .	127,110	(57 656)

#### WEIGHT DISTRIBUTION:

	Empty	Loaded
Front Axle . . . . .	28,898 lbs. (23 108)	41,184 lbs. (18 681)
Rear Axle . . . . .	28,212 lbs. (12 797)	85,926 lbs. (38 976)

#### STANDARD EQUIPMENT

Air cleaner restriction gauge, air foil fan-constant running, alternator, ammeter, cigarette lighter and ash tray, deluxe cab w/floor mat, dome light, dry air cleaner, engine belly guard, engine oil pressure gauge, engine temperature gauge, exhaust heated body, fresh air heater and full windshield defroster (25,000 BTU), fuel gauge on tank, headlights (4) with beam selector, headlights hi-beam indicator, hour meter, mirror-left hand, parking brake, passenger seat, power steering, power transfer differential, reusable hoses and fittings, road condition valve, rock ejectors, speedometer, starter key switch, tachometer non-recording, tinted glass in windshield, torque converter oil temperature gauge, tow loops-rear, tow pin-front, transmission oil pressure gauge, transmission shift indicator, 24-volt electric system, wheel brake lock, windshield wiper.

#### STANDARD SAFETY EQUIPMENT

Air horn, air-over-hydraulic shoe brakes, air pressure gauge, back-up light, canopy extension and deflector, emergency braking system, emergency power steering, tail and stop light, instrument panel lights, low air pressure and hi-engine coolant temperature alarm, seat belt (driver and passenger), skid resistant coating on walkway, sunvisor (driver), parking brake warning light.

NOTE 1: Standard safety equipment conforms to SAE codes as follows: SAE J 166 Safety Brakes, SAE J - Safety Steering (not finalized by SAE), SAE J 386 Seat Belts, SAE J 919 Sound.

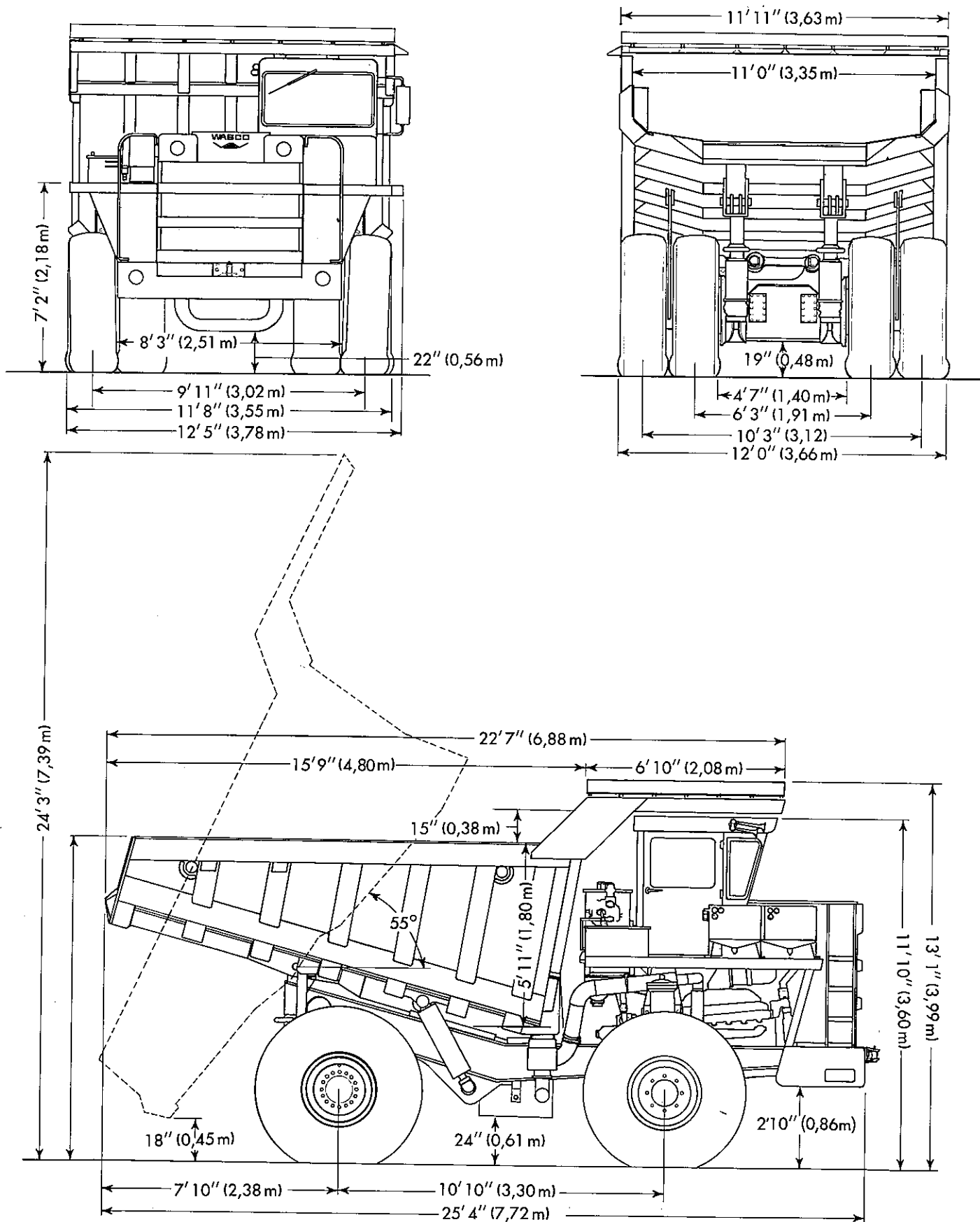
#### OPTIONAL EQUIPMENT AND ACCESSORIES

Back-up warning horn, fenders, belly guard for transmission, mirror-right hand, air conditioner (21,500 BTU), air starter with 24-volt electrical system, radiator shutters and thermostatic fan, thermostatic fan, windshield washer-foot powered.

NOTE 2: Optional safety equipment conforms to SAE codes as follows: SAE J321A - Fenders, SAE J 994 - Back-up Warning Horn.

(Other optional equipment is available. Contact factory.)

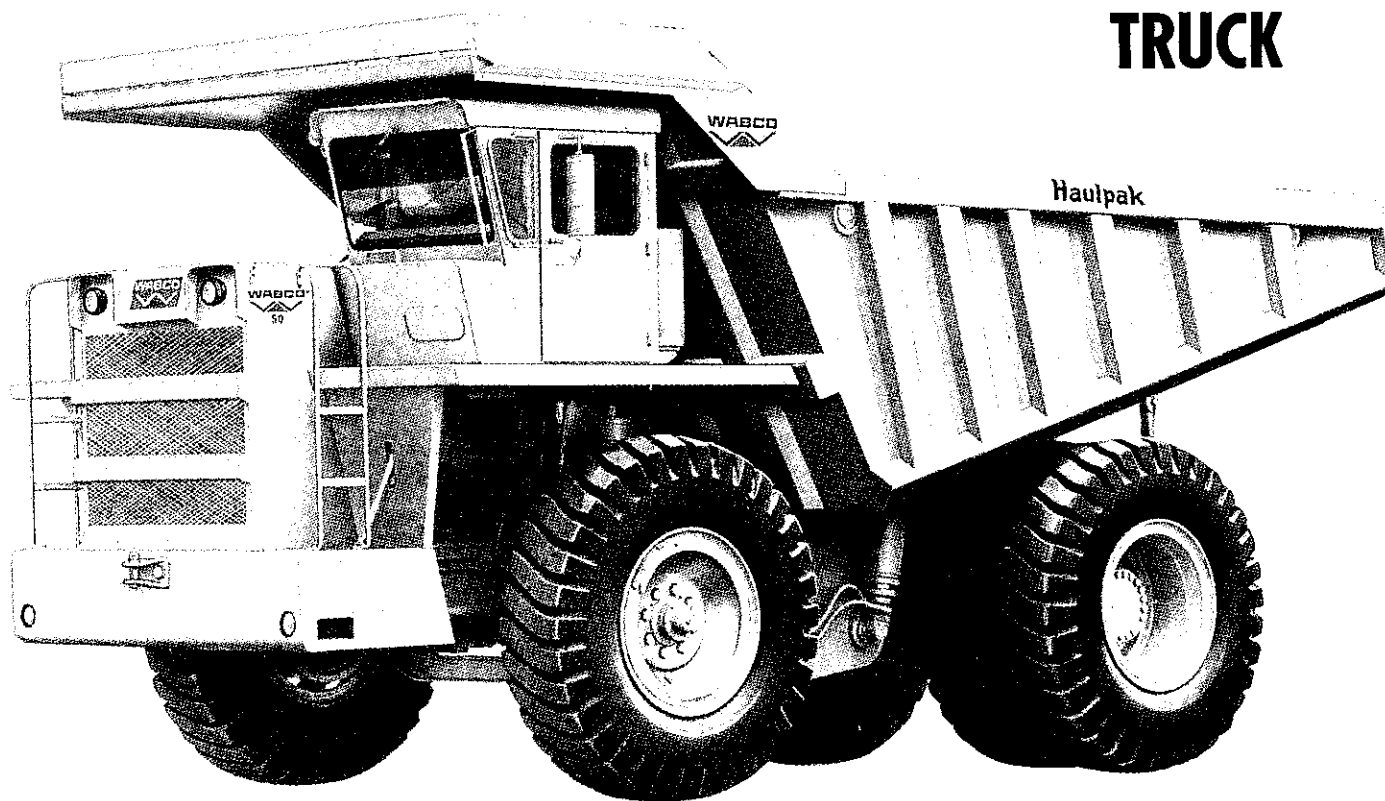
# 35C HAULPAK REAR DUMP TRUCK



An American-Standard Company



# MODEL **50** **HAULPAK® REAR DUMP TRUCK**



- More power per pound (kg.) of truck weight for superior performance.
- More operator comfort with rubber-mounted deluxe cab, offset left of engine for safe, all-around visibility.
- Faster dumping, better reliability with new, sealed larger-capacity hydraulic system.
- Time-saving maneuverability from short turn circle adds extra cycles daily.
- High availability – frame, final drive, etc. torture tested to assure reliability.
- Easier loading by front-end loader because of longer, lower V-shaped body.



# 50 HAULPAK REAR DUMP TRUCK SPECIFICATIONS

Specifications are subject to change without notice or obligation.

## CUMMINS VT-1710-C ENGINE

ENGINE, Diesel	Cummins VT-1710-C
Number of Cylinders	12
Operating Cycle	4 Stroke
* Rated Brake HP	635 @ 2100 RPM
** Flywheel HP	600 @ 2100 RPM
Rating Baseline	up to 11,000 ft. (3,353 m) Altitude @ 100° F. (37,8° c)
Maximum Torque	1747 ft-lbs (242 kg-m) @ 1500 RPM
Bore	5½" (139,7 mm)
Stroke	6" (152,4 mm)
Displacement	1710 cu. in. (28,02 liters)

## TRANSMISSION

Power Shift type	Allison CLBT-6061 with Torqmatic Brake
Torque Converter, lock-up type	Allison TC-680
Electric Shift Control	Allison

## DETROIT DIESEL 16V-71N ENGINE

ENGINE, Diesel	Detroit Diesel 16V-71N
Number of Cylinders	16
Operating Cycle	2 Stroke
* Rated Brake HP	635 @ 2100 RPM
** Flywheel HP	600 HP @ 2100 RPM
Rating Baseline	Sea Level @ 60° F. (15,5° c)
Maximum Torque	1728 ft-lbs (239 kg-m) @ 1400 RPM
Bore	4¾" (108 mm)
Stroke	5" (127 mm)
Displacement	1134.8 cu. in. (18,6 liters)

## TRANSMISSION

Power Shift type	Allison CLBT-6061 with Torqmatic Brake
Torque Converter, lock-up type	Allison TC-680
Electric Shift Control	Allison

## CUMMINS V-1710-C ENGINE

ENGINE, Diesel	Cummins V-1710-C
Number of Cylinders	12
Operating Cycle	4 Stroke
* Rated Brake HP	500 @ 2100 RPM
** Flywheel HP	474 HP @ 2100 RPM
Rating Baseline	Sea Level @ 60° F. (15,5° c)
Maximum Torque	1380 ft-lbs (191 kg-m) @ 1600 RPM
Bore	5½" (139,7 mm)

Stroke	6" (152,4 mm)
Displacement	1710 cu. in. (28,03 liters)

## TRANSMISSION

Power Shift type	Allison CLBT-5960 with Torqmatic Brake
Torque Converter, lock-up type	Allison TC-690
Electric Shift Control	Allison

\*(Rated brake horsepower 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  $\pm 5\%$ .)

\*\* (Flywheel horsepower is the rated horsepower at the engine flywheel minus the average accessory losses. Accessories include fan, air compressor, alternator, and hydraulic pump no load.)

## COMMON SPECIFICATIONS APPLYING TO ALL POWER TRAINS

### SPEEDS in MPH and (Kilometers per Hour)

Forward, 1st	6.7	(10,86 km/hr)
2nd	10.1	(16,25 km/hr)
3rd	13.4	(21,57 km/hr)
4th	20.0	(32,18 km/hr)
5th	27.0	(43,45 km/hr)
6th	40.3	(64,86 km/hr)
Reverse, 1st	5.24	(8,43 km/hr)

### FINAL DRIVE ASSEMBLY

Differential	Power Transfer, automatic friction type no slip differential. Automatically puts power on wheel with traction. When one wheel tends to spin, differential transfers up to three times its tractive effort to wheel on firmer footing.
Final Drive	Double Reduction type
Ratios: Bevel Set	3.38:1
Final Set	5.4:1
Total Reduction	18.25:1

### SERVICE CAPACITIES

	Gallons (U.S. Standard)	Liters
Cooling System	42	(159)
Crankcase—Cummins	18	(68)
Detroit Diesel	21.5	(81)
Hydraulic System	60	(227)
Transmission and Torque Converter	16	(61)
Final Drive	29	(110)

AIR RESERVOIR ..... Capacity 17.4 cu. ft. (492,7 liters)

FUEL TANK, Side Mounted ... 154 U.S. Standard Gallons (583 liters)

COOLING SYSTEM .... Continuous finned, flat tube type radiator with 2440 sq. in. (15,742 cm<sup>2</sup>), of frontal area. 44½" (1,13 m) 6 blade fan. Air foil fan constant running. Fan shroud is Hartzell type. Radiator is rubber mounted. Deaeration type top tank.

AIR COMPRESSOR ..... Capacity 12 cfm (0,34 m<sup>3</sup> /min)

AIR CLEANER ..... Dual Dry Type

FRAME ..... Special alloy steel modified box section frame with integral front bumper and cross member  
Top and bottom plate thickness ..... ¾" (19 mm)  
Side plate thickness ..... 3/8" (9,5 mm)  
Rear Axle Mounting ..... Ball and socket joint at front and two HYDRAIR® suspension units at rear  
Rear Axle Alignment ..... Cam roller on back of differential section rides vertically in a frame mounted track

SUSPENSION, HYDRAIR-II ..... Variable rate air-hydraulic suspension with integral rebound control  
Length of stroke, front ..... 14½" (36,83 cm)  
Length of stroke, rear ..... 10¾" (26,04 cm)

STEERING ..... Full time power steer  
Turning circle on front wheel track ..... 58' (17,68 m)  
Emergency power steering, standard ..... Electrically driven hydraulic pump



**SERVICE BRAKES**, Shoe Type-Wedge Actuated. Air over hydraulic  
Square inches of braking surface: Total . . . . . 1960 (12,645 cm<sup>2</sup>)  
Front . . . . . 26" x 8" (660,4 mm x 254 mm)  
Rear . . . . . 26" x 10" (660,4 mm x 203,2 mm)

**EMERGENCY BRAKING SYSTEM** . . . . . Air-over-hydraulic  
Dual emergency relay valves and tanks provide automatic brake application upon loss of operating pressure in service brake system.

**PARKING BRAKE** . . . . . Bendix, lever operated, internal expanding type. Located on input pinion carrier. 12" (304,8 mm) diameter by 5" (127 mm) width, 147½ sq. in. (951,6 cm<sup>2</sup>) of braking surface. Safety type, automatic engagement when air is off.

**CAB** . . . Deluxe interior, rubber mounted, fully enclosed, offset to left, 52" (1,32 m) wide with adjustable ventilator and floor mat  
Windshield . . . . . Safety, tinted, 15° tilt  
Seat, Drivers . . . . . Fully adjustable  
Environmental . . . . . All-weather fresh air heater and full windshield defroster. Cab is insulated for sound and temperature control.

#### ELECTRICAL SYSTEM

Batteries . . . . . Two 12 volt in series, 13 plates per cell, 90 ampere-hour capacity  
Alternator . . . . . 24V-50 amp  
Lighting System . . . . . 24 volt

#### STARTING SYSTEM

Air . . . . . Ingersoll Rand

### BODY

#### BODY

Construction . . . . High strength 100,000 PSI (7,031 kg/cm<sup>2</sup>) yield steel. ¾" (19 mm) one piece bottom plate. 3/8" (9,5 mm) side and ½" (12,7 mm) front body plates. Heavy bolster and sill construction. Body rubber mounted on frame.  
Exhaust heating . . . . . Standard

**HOIST** . . . . . Hydraulic, twin cylinders, 3 stage double acting, telescopic type mounted on outside of frame for accessibility.  
Ball and socket connection with sealed for life bearing.  
Hoist pump @ 2100 RPM . . . . . 80 GPM (302,8 liter/min) @ 1900 PSI (134 kg/cm<sup>2</sup>) at rated load.  
Relief pressure set at 2500 PSI (176 kg/cm<sup>2</sup>)

#### CAPACITY

Cubic yards, Struck . . . . . 30.8 (23,55 m<sup>3</sup>)  
Heaped @ 3:1 . . . . . 37.0 (28,29 m<sup>3</sup>)  
@ 2:1 (S.A.E.) . . . . . 40.0 (30,58 m<sup>3</sup>)  
Tons . . . . . 50 (45,36 m. tons)

#### BODY DIMENSIONS

Length . . . . . 18' 4" (5,58 m)  
Width, Inside . . . . . 11' 8" (3,56 m)  
Depth . . . . . 6' 6" (1,98 m)  
Dumping Angle . . . . . 50°

### GENERAL

#### GENERAL DIMENSIONS

Length, Overall . . . . . 28' 11" (8,81 m)  
Length, Chassis . . . . . 22' 4" (6,81 m)  
Width, Overall (with removable fenders) . . . . . 13' 5" (4,09 m)  
Height, Loading . . . . . 11' 10" (3,61 m)  
Height, Dumping . . . . . 27' 4" (8,33 m)  
Height, Overall . . . . . 14' 2" (4,32 m)  
Wheelbase . . . . . 12' 7" (3,84 m)  
Front Track, center line . . . . . 11' 4" (3,45 m)  
Drive Track, center line . . . . . 9' 3" (2,82 m)  
Front Clearance, empty . . . . . 2' 9" (0,84 m)  
Drive Clearance . . . . . 23" (0,58 m)

### TIRES AND RIMS

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

#### STANDARD TIRES

21.00-35, 32 PR Rock (E3) Tubeless . 165 TMPH rating (241 tk/h)\*

#### OPTIONAL TIRES

21.00-35, 36 PR Rock (E3) Tubeless . 165 TMPH rating (241 tk/h)\*  
21.00-35, 32 PR Rock (E4) Tubeless . 150 TMPH rating (219 tk/h)\*  
21.00-35, 36 PR Rock (E4) Tubeless . 150 TMPH rating (219 tk/h)\*  
21.00-35 Radial steel cord . . . . . 255 TMPH rating (372 tk/h)\*

Rim size for all tires listed above . . . . . 15.00-35

\* Estimated ton mile per hour rating at 100° F. (38° C) ambient temperature. Use as a guide only. Contact tire manufacturers for more precise data.

#### TIRE SPACING

Inside, Front . . . . . 9' 5" (2,87 m)  
Drive . . . . . 5' 1" (1,55 m)  
Outside, Front . . . . . 13' 3" (4,03 m)  
Drive . . . . . 13' 5" (4,09 m)

#### WEIGHTS

	Pounds	Kilograms
Chassis with Hoists, empty	55,840	(25,329)
Body, empty	19,500	(8,845)
Net Weight, No Load	75,340	(34,174)
Pay Load	100,000	(45,360)
Gross Weight	175,340	(79,534)

#### WEIGHT DISTRIBUTION:

	Empty	Loaded
Front Axle	.36,166 lbs. (16.405 kg)	58,440 lbs. (26.508 kg)
Rear Axle	.39,174 lbs. (17.769 kg)	116,900 lbs. (53.025 kg)

### STANDARD EQUIPMENT

Air cleaner restriction gauge, air foil fan--constant running, air starter, alternator, ammeter, cigarette lighter and ash tray, deluxe cab w/floor mat, dome light, dry air cleaner, engine belly guard, engine oil pressure gauge, engine temperature gauge, exhaust heated body, fenders-body (shipped loose), fresh air heater and full windshield defroster (25,000 BTU), headlights-(4) with beam selector, headlight hi-beam indicator, hour meter, mirror-left hand, passenger seat, parking brake, power steering, power transfer differential, reusable hoses and fittings, road condition valve, rock ejectors, speedometer, starter key switch, tachometer non-recording, tinted glass in windshield, torque converter oil temperature gauge, tow loops-rear, tow pin-front, transmission oil pressure gauge, transmission shift indicator, 24-volt electric system, wheel brake lock, windshield wiper.

### STANDARD SAFETY EQUIPMENT:

Air horn, air-over-hydraulic shoe brakes, air pressure gauge, back-up light, canopy extension and deflector, emergency braking system, emergency power steering, instrument panel lights, low air pressure and hi-engine coolant temperature alarm, parking brake warning light, seat belt (driver and passenger), skid resistant coating on walkways, sunvisor (driver), tail and stop light.

NOTE: Standard equipment conforms to SAE codes as follows:

SAE J 166 - Safety Brakes, SAE J - Safety Steering (not finalized by SAE), SAE J 386 Seat Belts, SAE J 919 Sound.

### OPTIONAL EQUIPMENT AND ACCESSORIES:

Back-up warning horn, fenders, belly guard for transmission, mirror-right hand, air conditioner (21,500 BTU), radiator shutters and thermostatic fan, thermostatic fan, windshield washer-foot powered.

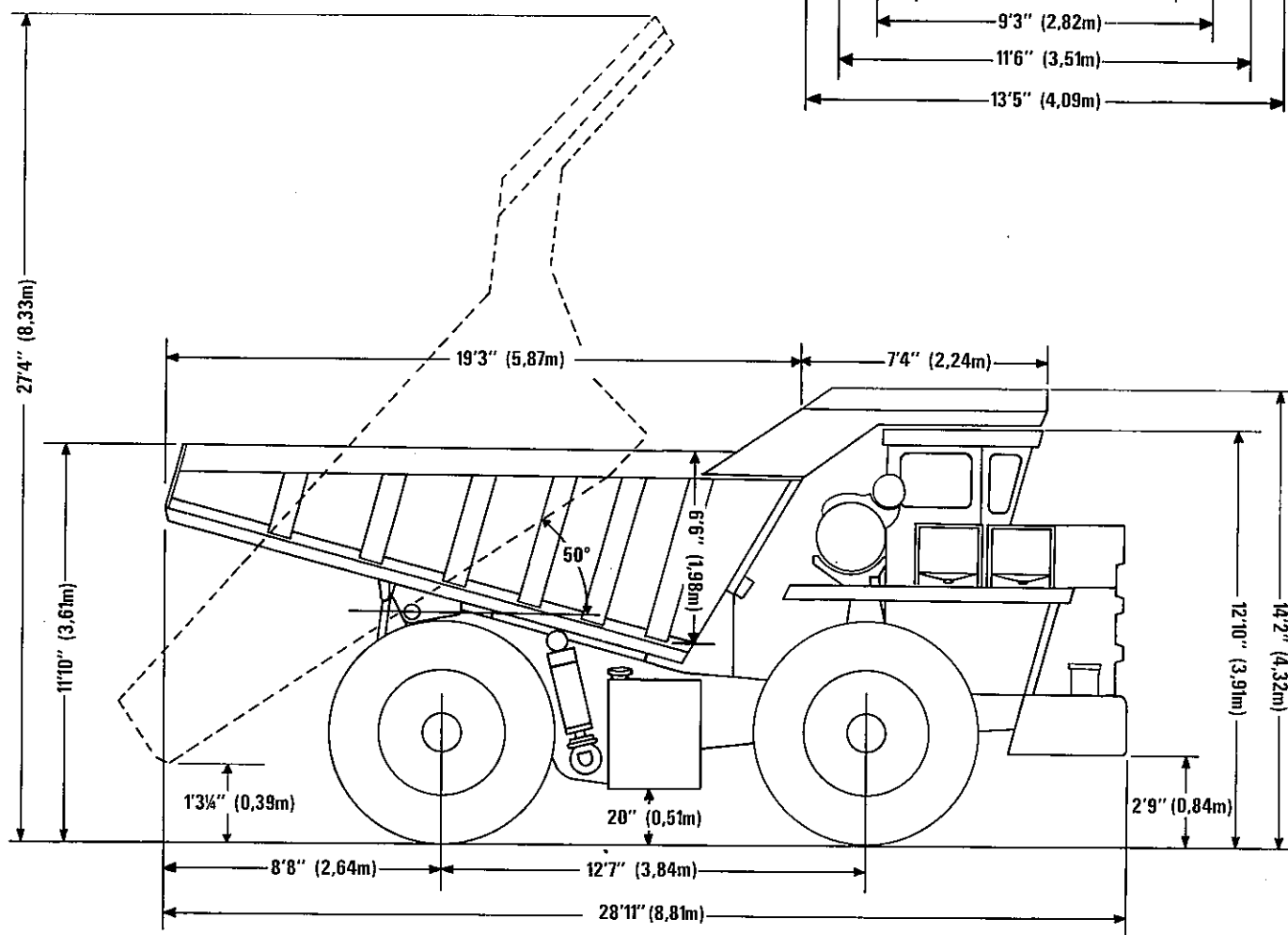
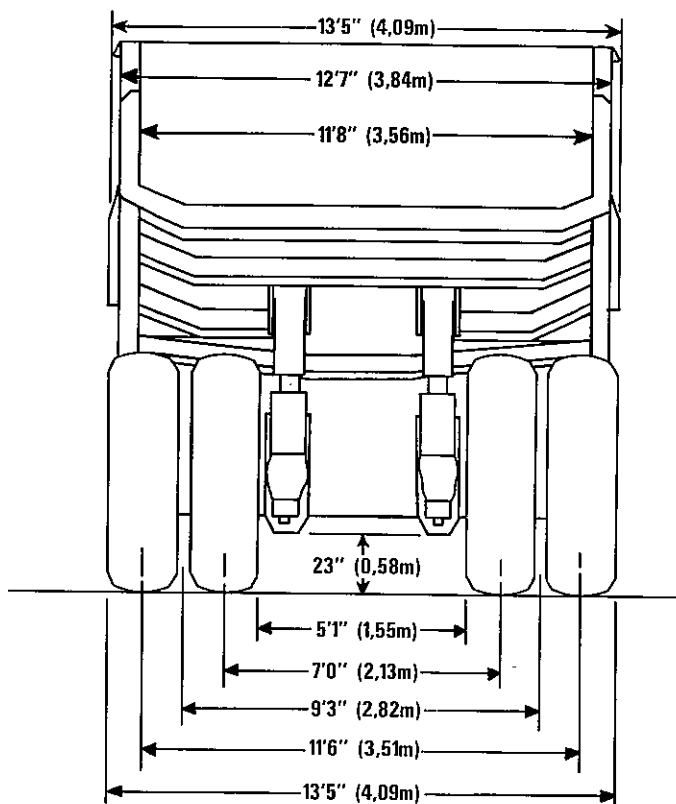
NOTE: Optional safety equipment conforms to SAE codes as follows:

SAE J 321A - Fenders, SAE J 994 - Back-up Warning Horn.

Other optional equipment is available - contact factory.

Technical drawing of the rear view of a vehicle chassis. The drawing shows the rear suspension, including the rear axle, rear wheels, and the rear frame. Dimensions are indicated in inches and meters:

- Overall width: 13'3" (4,03m)
- Wheelbase: 11'4" (3,45m)
- Rear overhang: 9'5" (2,87m)
- Rear frame width: 23" (0,58m)



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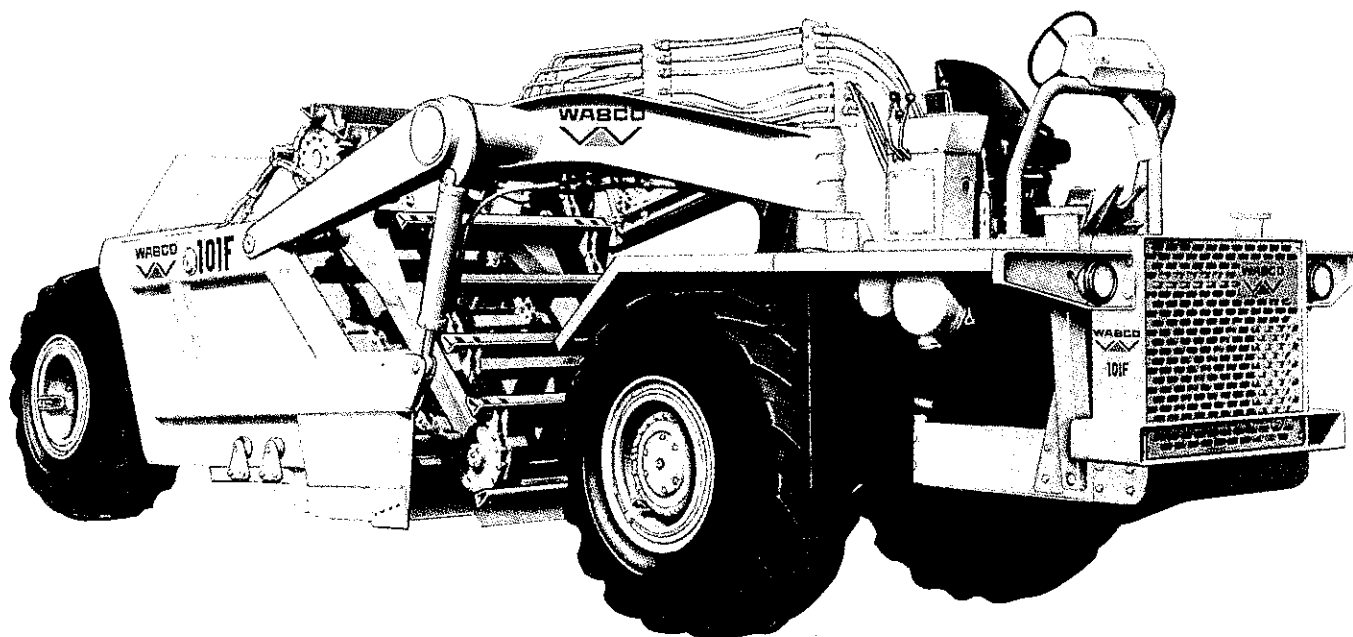




**MODEL**

# 101F

## TRACTOR - ELEVATING SCRAPER



- 9 cu. yards (6,88 m<sup>3</sup>).
- 178 rated brake hp . . . offers highest horsepower/weight ratio in its class.
- Operating ease from "command post" cockpit.
- Unique scraper features for faster loading, more yards per shift.
- WABCO torque proportioning differential for superior traction.
- Legally roadable, drive job-to-job.
- Quick accessibility of tractor and scraper components simplifies servicing.



# 101F TRACTOR - ELEVATING SCRAPER SPECIFICATIONS

Specifications are subject to change without notice or obligation.

## TRACTOR

<b>ENGINE (Diesel)</b> .....	Cummins V-504
Number of Cylinders .....	8
Operating Cycle .....	4 Stroke
*Rated Brake Horsepower .....	178 HP @ 2500 RPM
**Flywheel HP .....	162 HP @ 2500 RPM
Baseline Rating .....	S.A.E. 500 ft. 29.00 in.
	Hg. @ 85° F. (29,4° C)
Maximum Torque .....	388 ft. lb. @ 1850 RPM
Bore .....	4.62 (177 mm)
Stroke .....	3.75 ( 95 mm)
Displacement .....	504 cu. in. (8,22 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  $\pm 5\%$ .)

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

## TRANSMISSION

Power Shift Type..... Clark  
four manually selected gear ranges with manually selected torque converter lock-up in 2nd thru 4th range for a total of 7 selections to 28 mph (45,04 khp) and 1. speed reverse to 3.2 mph (5,14 khp)

## SPEED in MPH and (Kilometers per Hour)

Forward, Loading, 1st .....	0-4.0	(6,43)
Travel, 1st .....	4.1	(6,59)
2nd .....	8.6	(13,83)
3rd .....	15.0	(24,13)
4th .....	28.0	(45,04)
Reverse, .....	3.2	(5,14)

**DIFFERENTIAL** ..... Torque proportioning  
automatic friction type

**FINAL DRIVE** ..... double reduction planetary type

## SERVICE CAPACITIES

	Gallons (U.S. Standard)	Liters
Cooling System .....	8.5	( 32)
Crankcase .....	6.0	( 23)
Fuel Tank .....	85.0	(322)
Differential .....	16.5	( 62)
Planetary (each side) .....	1.5	( 6)
Transmission .....	8.0	( 30)
Hydraulic Tank .....	25.5	( 97)

## SCRAPER

### CAPACITY

Cubic Yards .....	9 (6,88 m <sup>3</sup> )
Tons .....	11 (8,41 m. tons)

### CUTTING BLADE

Method of Control.. Two 4½" x 20" (11,43 cm x 50,80 cm)	Hydraulic Cylinders
Width of Cut (outside of router blade) .....	90" (2,28 m)
Cutting Edge length .....	88" (2,24 m)
One drop center blade .....	¾" x 13" x 43¾" (1,91 cm x 33,02 cm x 111,13 cm)
Two end blades, each .....	¾" x 13" x 22" (1,91 cm x 33,02 cm x 55,88 cm)
Ripper Teeth (optional) .....	4

### EJECTION

Operation .....	Positive
Control .....	one, 6" x 17¼" (15,24 cm x 43,81 cm) Hydraulic Cylinder
Method .....	Combination sliding bowl pan and ejector endgate

### ELEVATOR

Width .....	4' 8" (1,42m)
Length (center of sprocket to center of tail roller) .....	7' 5¼" (2,27m)
Number of flights .....	15
Speed, Forward .....	@ 2100 Engine RPM, 233 FPM (71,02 m/min)
Reverse .....	@ 2100 Engine RPM, 233 FPM (71,02 m/min)
Power Source .....	Hydraulic motor and special designed WABCO 37:1 gear box with exclusive shock reducing mounting

## GENERAL

### OVERALL DIMENSIONS

Length .....	29' 11½"	(9,14m)
Length, Scraper only .....	22' 1½"	(6,74m)
Width with 18.00-25 tires .....	8' 0"	(2,44 m)
Width with 23.5-25 tires (optional) .....	8' 0"	(2,44 m)
Height, to the top of Scraper .....	8' 8"	(2,64 m)
Wheelbase .....	18' 5"	(5,61m)
Ground clearance, Tractor .....	18¼"	(46,35 cm)
Ground clearance, Scraper bowl .....	17"	(43,18 cm)

## TIRES

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

Standard for Tractor and Scraper

125 TMPH rating\* 18.00-25, 12 ply rating, Traction (E-2)  
(182 tkm/h)

Optional for Tractor and Scraper

110 TMPH rating\* 23.5-25, 12 ply rating, Traction (E-2)  
(160 tkm/h)

110 TMPH rating\* 23.5-25, 16 ply rating, Traction (E-2)  
(160 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 (tkm/h) rating @ 100° ambient temp. --- Contact the tire manufacturer for additional or more precise data.

**STEERING** ..... Positive hydraulic-variable speed  
Maximum turning angle..... 90° left and right  
Width required for 180° turn ..... 25' 8" (7,82 m)

**BRAKES**, Shoe Type ..... Air over hydraulic actuated  
Size..... 17" x 4" (43,18 cm x 10,2 cm)

## WEIGHT

Shipping weight, approximate ..... 29,585 lbs. (13,419 kg)

Distribution

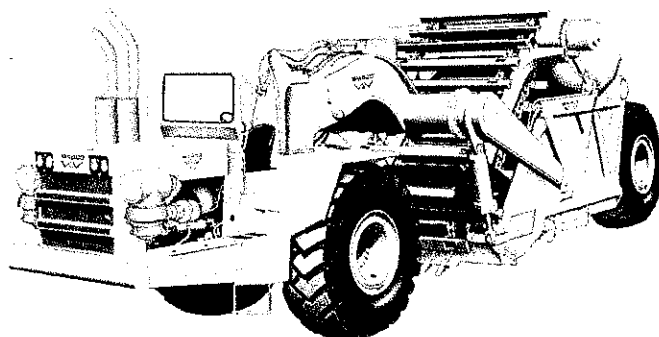
	Empty	Loaded
Tractor Axle .....	62%	49.5%
Scraper Axle .....	38%	50.5%

## STANDARD EQUIPMENT

Dual mufflers, dry type air cleaner with restriction indicator, headlights, air horn, hour meter, reversing elevator, automatic tailgate return control, deluxe air ride suspension seat, front fenders, torque proportioning differential, hydraulic power steering, oil pan guard, drop center cutting edge, emergency braking system, parking brake, seat belt, taillight, brake light, and reflector.

## Other WABCO Elevating Scrapers

You get capacity loads without a pusher.

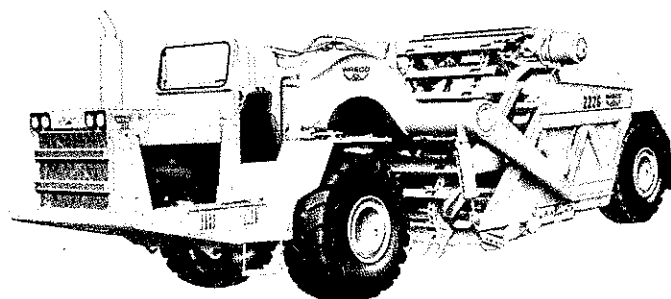


**222G TRACTOR-ELEVATING SCRAPER**

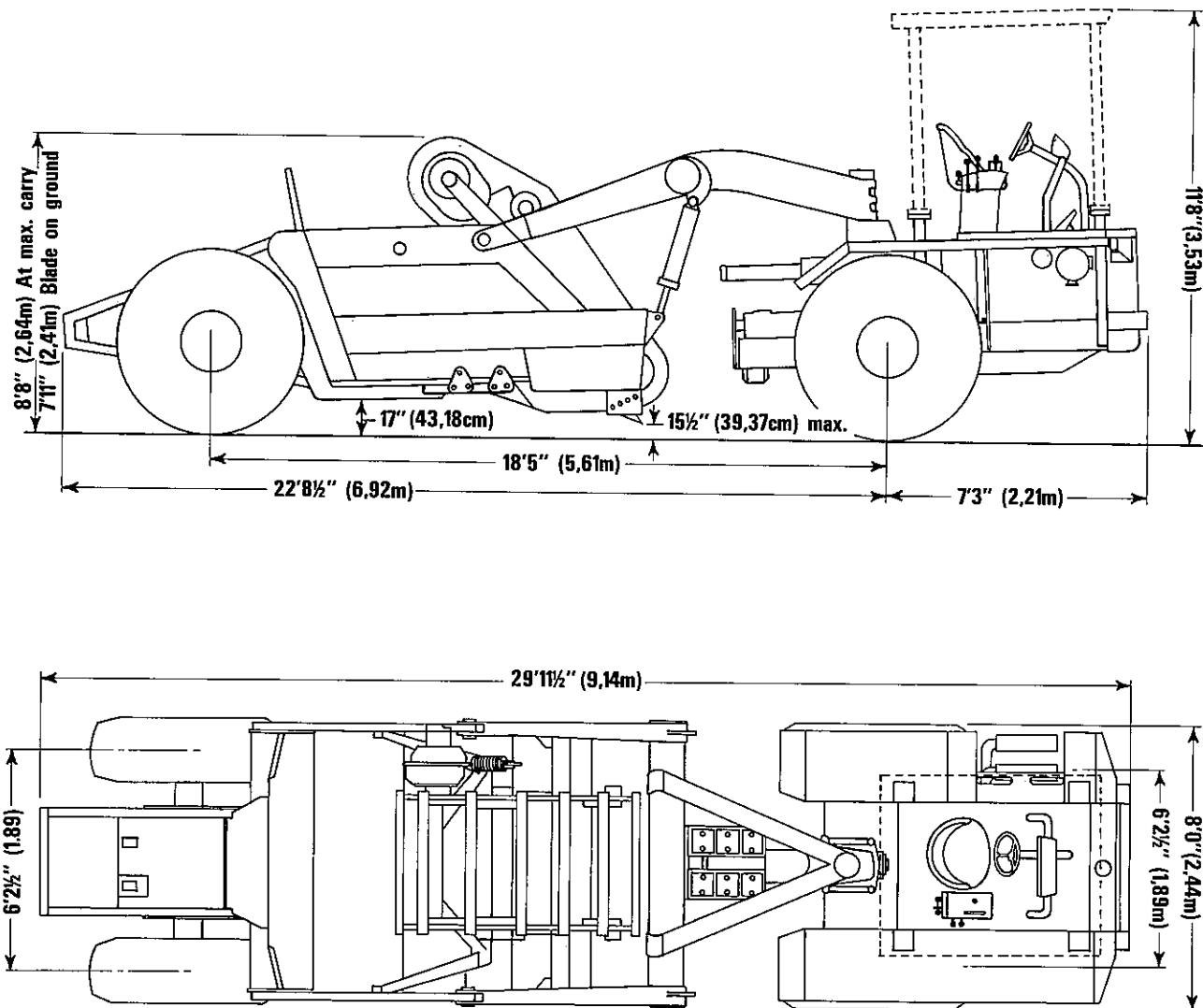
22 cubic yards (16,8 m³) capacity.

**333F TRACTOR - ELEVATING SCRAPER**

32 cubic yards (24,47 m³) capacity.



# 101F TRACTOR - ELEVATING SCRAPER



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



CONSTRUCTION AND MINING EQUIPMENT GROUP  
An AMERICAN-STANDARD Company  
2300 N.E. Adams Street • Peoria, Illinois 61639

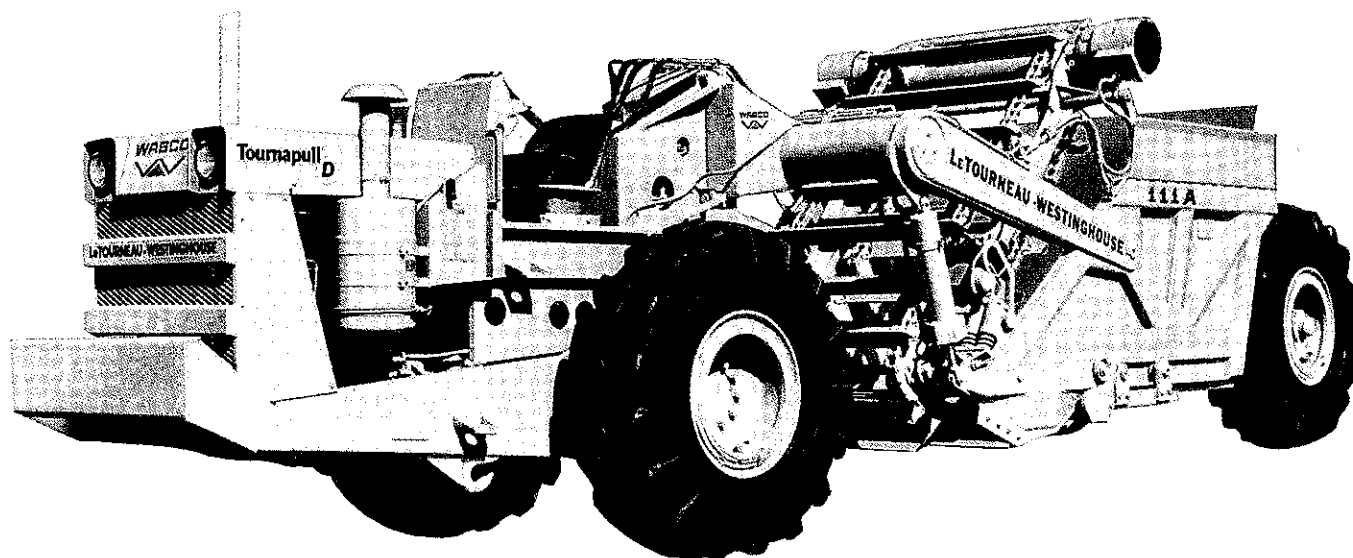
**WABCO**

**MODEL**

**D**

# **TOURNAPULL<sup>®</sup>**

**With 111A Elevating Scraper**



**148 Horsepower • 11 Cu. Yds. (8,41 m<sup>3</sup>)**

**LETOURNEAU-WESTINGHOUSE COMPANY**  
A SUBSIDIARY OF WESTINGHOUSE AIR BRAKE COMPANY • PEORIA, ILLINOIS

# D TOURNAPULL with 111A ELEVATING SCRAPER SPECIFICATIONS

Specifications are subject to change without notice or obligation.

## D TOURNAPULL

<b>ENGINE (Diesel)</b> .....	<b>GM 4-71</b>
Number of Cylinders .....	4
Operating Cycle .....	2 Stroke
*Rated Brake Horsepower .....	148 HP @ 2100 RPM
**Flywheel HP .....	129 HP @ 2100 RPM
Baseline Rating .....	Sea Level @ 60° F. (15,5° c)
Maximum Torque .....	395 ft. lb. @ 1400 RPM
Bore .....	4 1/4" (108 mm)
Stroke .....	5" (127 mm)
Displacement .....	283.7 cu. in. (4,65 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  $\pm 5\%$ .)

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

## TRANSMISSION

Power Shift Type .....	Allison VCLT-3341 with Allison VTC-430 Torque Converter
------------------------	---

## SPEED, in MPH and (Kilometers per Hour)

*Forward Loading, 1st .....	0 - 3.4	( 5,47)
Travel, 1st .....	3.6	( 5,80)
2nd .....	9.6	(15,45)
3rd .....	18.3	(29,45)
4th .....	25.4	(40,88)
Reverse, 1st .....	4.2	( 6,76)
2nd .....	5.9	( 9,50)

\*Loading speed varies with variable capacity converter input power.

**DIFFERENTIAL**.....Power transfer, automatic friction  
type, no-slip differential

## SERVICE CAPACITIES

	Gallons (U.S. Standard)	Liters
Cooling System .....	8 1/2	(32)
Crankcase .....	4	(15)
Fuel Tank .....	65	(246)
Final Drive (Main Case) .....	32	(121)
Transmission and Torque Converter .....	6	(23)

## 111A SCRAPER

### CAPACITY

Cubic Yards .....	11	(8,41 m <sup>3</sup> )
Tons .....	13	(11,79 m. tons)

### CUTTING BLADE

Method of Control .....	Two 4 1/2" x 18" (11,43 cm x 45,72 cm) Hydraulic Remote Cylinders
Width of Cut (outside of router blade) .....	90" (2,28 m)
Cutting Edge length .....	88" (2,23 m)
One drop center blade .....	1" x 13" x 43 3/4" (2,54 cm x 33,02 cm x 111,13 cm)
Two end blades, each .....	1" x 13" x 22" (2,54 cm x 33,02 cm x 55,88 cm)
Ripper Teeth (Heavy Duty) .....	3

### EJECTION

Operation .....	Positive
Control .....	Two 4 1/2" x 18" (11,43 cm x 45,72 cm) Hydraulic Remote Cylinders
Method .....	Combination sliding bowl pan and ejector endgate

### ELEVATOR

Width .....	4' 8" (1,42 m)
Length .....	9' 9" (2,97 m)
Number of flights .....	16
Speed, Forward .....	@ 2100 Engine RPM, 238 FPM (72,54 m/min)
Reverse (optional) .....	@ 2100 Engine RPM, 238 FPM (72,54 m/min)
Power Source .....	Two No.1 LW Electric Motors with LW No. 2 Gear Boxes, 86:1 Ratio

## GENERAL

### OVERALL MEASUREMENTS

Length .....	32' 0"	(9,75 m)
Length, scraper only .....	20' 2"	(6,15 m)
Width with 18.00-25 tires .....	8' 0"	(2,44 m)
Width with 23.5-25 tires .....	8' 6"	(2,59 m)
Height, to top of Exhaust Stack .....	9' 1 1/2"	(2,78 m)
Height, to the top of Scraper .....	9' 4"	(2,84 m)
Wheelbase .....	18' 10 1/2"	(5,75 m)
Ground clearance, Tournapull .....	15"	(38,1 cm)
Ground clearance, scraper bowl .....	13 1/4"	(33,6 cm)

### TIRES

Standard .....	18.00-25, 16 ply rating, Traction
Optional .....	23.5-25, 16 ply rating, Traction

**STEERING** ..... Positive power steer, electric control  
 Maximum turning angle ..... 90° left and right  
 Width required for 180° turn ..... 26' 11 1/2" (8,22 m)

**BRAKES**, Shoe Type—Wedge Actuated ..... Air over Hydraulic  
 on all four wheels  
 Size ..... 20 1/4" x 4" (51,44 cm x 10,2 cm)

#### WEIGHT

Shipping weight, approximate ..... 30,300 lbs. (13,744 kg)

Distribution	Empty	Loaded
Drive Axle .....	65.8%	50%
Rear Axle .....	34.2%	50%

#### STANDARD EQUIPMENT

Manifold type muffler, dry type air cleaner, head lights, twin air horns, hourmeter, tachometer, heavy duty ripper teeth and tow hooks.

#### OPTIONAL ACCESSORIES

Supplementary lube oil and fuel oil filters, hand throttle, cab, cab heater, safety glass windshield, windshield wiper, windshield defroster, air suspension seat, cold weather starting aid, sand baffles, elevator reversing switch, tire inflation kit, and tail light.

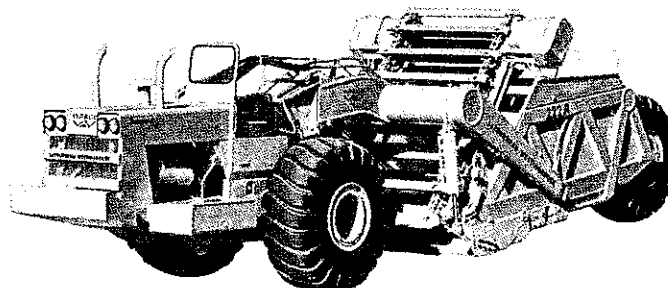
## Other LW Elevating Scrapers

These scrapers give you capacity loads without a pusher.

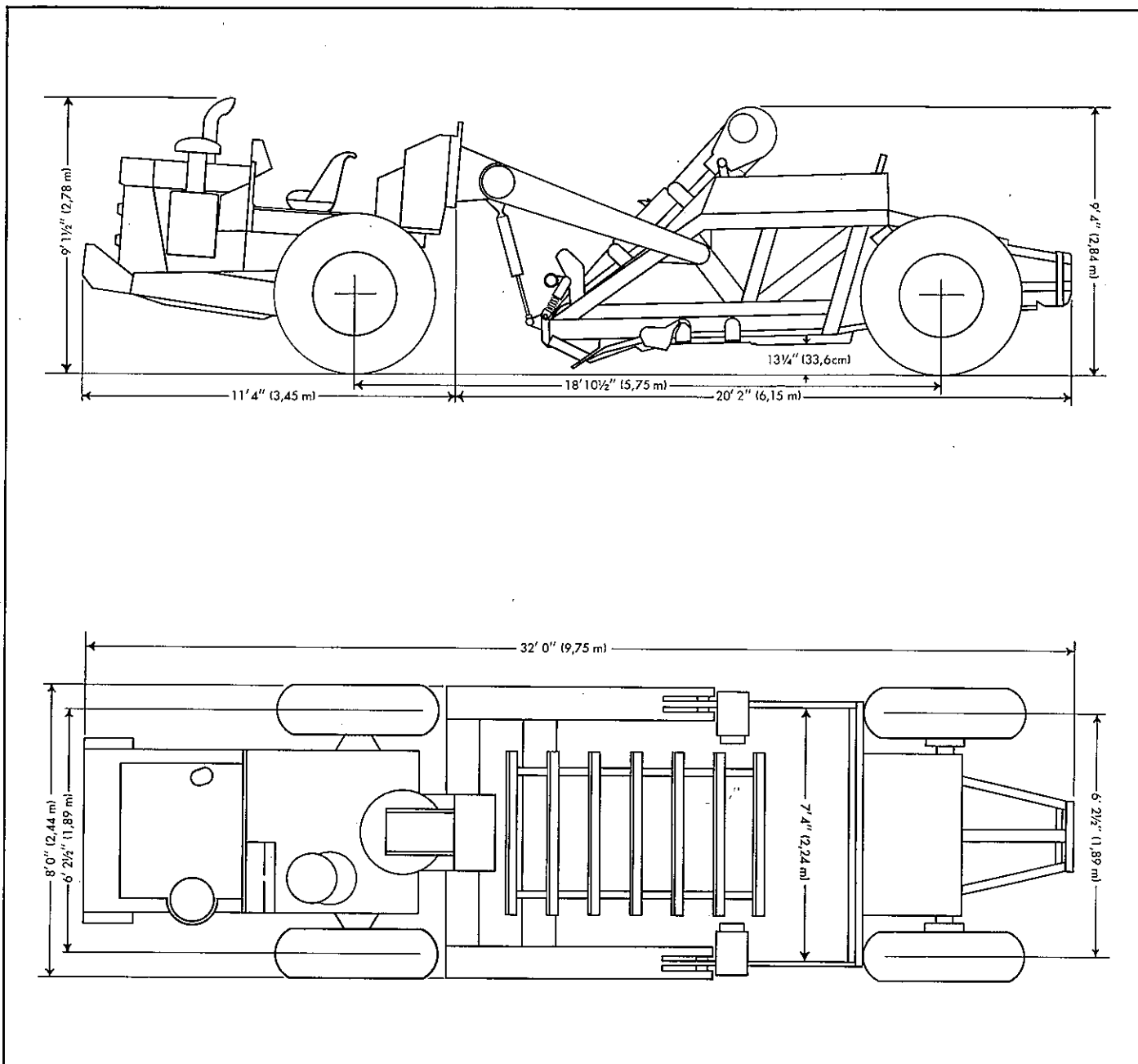


**333A ELEVATING SCRAPER**  
 31 cubic yards (23,70 m³) capacity.

**222A ELEVATING SCRAPER**  
 21 cubic yards (16,06 m³) capacity.



# D TOURNAPULL with 111A ELEVATING SCRAPER

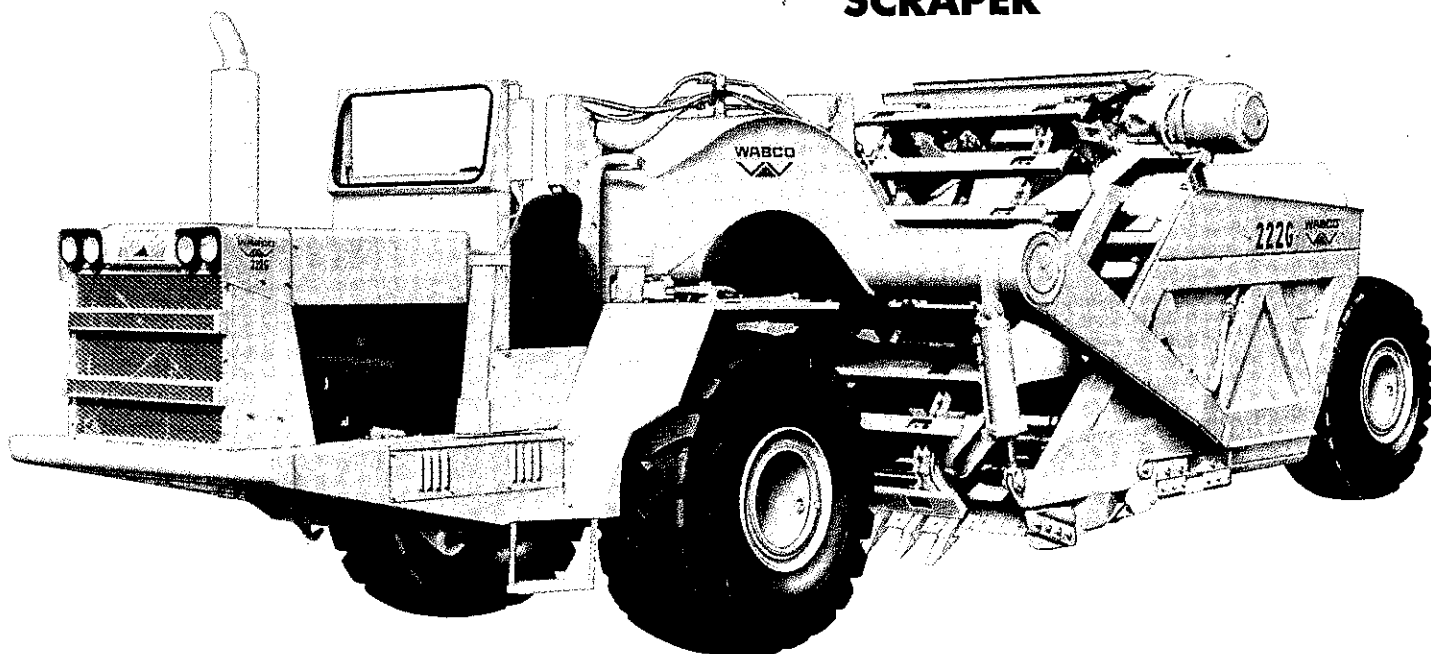


**LeTOURNEAU-WESTINGHOUSE COMPANY**  
 Peoria, Illinois, U.S.A. • A Subsidiary of Westinghouse Air Brake Co.





**MODEL**  
**222G**  
**TRACTOR-ELEVATING**  
**SCRAPER**



- 22 Cu. Yds. (16,82 m<sup>3</sup>).
- 333 horsepower.
- Total rugged design with good accessibility of components for low maintenance costs.
- More usable power and traction with world proven WABCO power-transfer differential.
- Tires sized for the load and operating conditions to increase life, reduce costs.
- Advanced design hydraulic steer system gives operator full confidence and control.
- Variable Input Power torque converter transmission allows engine-transmission match to give best over-all machine efficiency.



# 222G 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 ..... 333 HP @ 2100 RPM

\*\*Flywheel Horsepower ..... 309 HP @ 2100 RPM

Baseline Rating ..... Sea Level to 5,000 ft. (1524 m),  
air temp. @ 85° F. (29,4° C.)

Maximum Torque ..... 920 ft. lb. @ 1400 RPM

Bore ..... 4 1/4 in. (108 mm)

Stroke ..... 5 in. (127 mm)

Displacement ..... 567.4 cu. in. (9,3 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  $\pm 5\%$ .)

\*\*(Flywheel Horsepower is the rated horsepower at the engine flywheel minus the average accessory losses including Fan and Air Compressor.)

### TRANSMISSION

Power Shift Type ..... Allison VCLBT-4465  
with Allison VTC-495 Torque Converter

### SPEED in MPH and (Kilometers per hour)

Forward, Loading, 1st ..... 0-4.4 (7,1)

Travel, 1st ..... 5.0 (8,0)

2nd ..... 7.8 (12,6)

3rd ..... 11.3 (18,2)

4th ..... 16.0 (25,7)

5th ..... 22.6 (36,4)

6th ..... 31.9 (51,3)

Reverse, 1st ..... 3.9 (6,3)

DIFFERENTIAL ..... Torque proportioning,  
automatic friction type

### STEERING

Type ..... Hydraulic - variable speed  
90° each way

Hydraulic Cylinders ..... Two, double acting 5" x 23"  
(12,70 cm x 58,42 cm)

Pump ..... Piston, variable displacement type  
0-34 GPM (128,7 liter/min) @ Governed RPM,  
relief valve setting 3200 PSI (225 kg/cm<sup>2</sup>)

Width for 180° turn (curb to curb) ..... 32'6" (9,91 m)

### SERVICE CAPACITIES

	Gallons (U.S. Standard)	Liters
Cooling System	20.0	(75,7)
Crankcase (with filter)	8.5	(32,2)
Fuel Tank	155.0	(586,7)
Final Drive (Main Case)	28.0	(106,0)
Transmission (with filter)	7.5	(28,4)
Hydraulic Reservoir	30.5	(115,5)

## SCRAPER

### CAPACITY

Cubic Yards (S.A.E. J957) ..... 22 (16,82 m<sup>3</sup>)

Tons ..... 25 (22,7 m tons)

### OPERATING DATA

Width of cut (outside of side bit) ..... 120" (3,05 m)

Bowl Width, Inside ..... 118" (3,00 m)

Depth of Cut, max. with wheels on common plane

Center Cutting Edge ..... 8 7/8" (22,54 cm)

Ripper Teeth ..... 14 1/2" (36,83 cm)

Depth of Spread, max. under

strike off blade ..... 12 7/8" (32,70 cm)

Cutting Edges

One Drop Center Edge ..... 1" x 13" x 63"  
(2,54 cm x 33,02 cm x 160,02 cm)

Two End Section Edges ..... 1" x 13" x 27"  
(2,54 cm x 33,02 cm x 68,58 cm)

Ripper Teeth ..... 5

Type of Ejection ..... Positive

Method of Ejection ..... Combination moveable floor & ejector

### ELEVATOR

Width of flights ..... 6' 10" (2,08 m)

Length of assy. over flight tips - center of sprocket

to center of tail roller ..... 10' 5" (3,18 m)

Spacing of flights ..... 16 1/4" (41,28 cm)

Number of flights ..... 19

Speeds, Forward & Reverse ..... 242 FPM (73,36 m/min)  
@3600 RPM Motor

Drive ..... one #2 1/2 Electric Motor  
Driving Heavy Duty 67:1 reduction gear box

## GENERAL

### HYDRAULIC CIRCUITS

Control ..... Two lever remote mounted valve

Pump ..... Vane type 52.5 GPM (198 liter/min)  
Relief valve setting 2000 PSI (138 kg/cm<sup>2</sup>)

Cylinders, Bowl lift ..... two, double acting 6" x 20"  
(15,24 cm x 50,80 cm)

Tailgate ..... two, double acting 6" x 20"  
(15,24 cm x 50,80 cm)

Floor ..... two, double acting 6" x 20"  
(15,24 cm x 50,80 cm)

### TIRES

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

Standard for Tractor and Scraper

110 TMPH rating\* ..... 29.5-25,28 ply rating rock (E-3)  
(161 tkm/h)

**TIRES (continued)**

Optional for Tractor and Scraper

**TMPH -**

Contact tire manufacturer 29.5-25, 28 ply rating sand (E-7)  
135 TMPH rating \*. . . . .29.5-29, 28 ply rating rock (E-3)  
(197 tkm/h)

Other types of tires are also available in these sizes with significantly higher TMPH (tkm/h) ratings. -- Contact the factory or tire manufacturer for additional data.

\* Approximate TMPH (tkm/h) rating @ 100° ambient temp.

-- Contact the tire manufacturer for additional or more precise data.

**BRAKES, Shoe Type** . . . . . air over hydraulic actuated,  
wedge operated

**Size** . . . . .20 1/4" x 7" wide shoe (51,44 cm x 17,78 cm)

**OVERALL DIMENSIONS\***

**Length** . . . . . 39' 6 5/8" (12,06 m)

**Length, scraper only** . . . . . 28' 5 1/2" (8,67 m)

**Width** . . . . . 11' 8" (3,56 m)

**Height, blade up** . . . . . 11' 5" (3,48 m)

**Wheelbase** . . . . . 23' 2" (7,06 m)

**Ground clearance, Tractor** . . . . . 24" (60,96 cm)

**Ground clearance, Scraper bowl** . . . . .20 1/2" (52,07 cm)

**WEIGHT**

Shipping weight approximate . . . . .65,405 lbs. (29.668 kg)

Distribution	Empty	Loaded
Drive Axle . . . . .	64.7%	50.4%
Rear Axle . . . . .	35.3%	49.6%

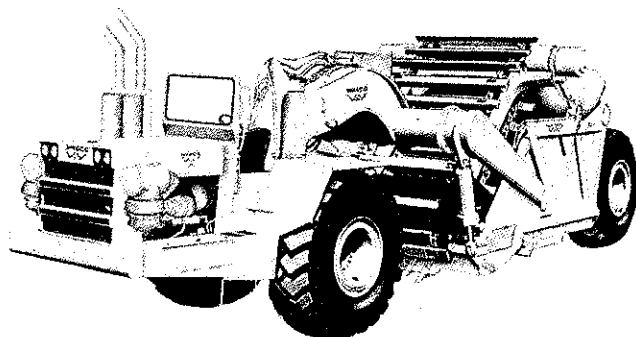
**STANDARD EQUIPMENT**

Air cleaner (dry type), air suspension seat, adjustable scraper axle, automatic adjusting brakes, engine and transmission belly plates, automatic ejector return, elevator reverse, fan guard, tractor fenders, reuseable fittings, hydraulic tank sight gauge, headlights, ripper teeth\*, throttle lock, muffler, reversible radiator fan, hour meter, hydraulic chain adjusters, torqmatic brake, rear view mirror, scraper cutting edge light, seat belt, shift indicator, taillight and reflector, tow hooks, twin air horns, windshield, emergency and parking brakes, ROPS canopy, and backup alarm.

(\* Deletable standard equipment.)

## Other WABCO Elevating Scrapers

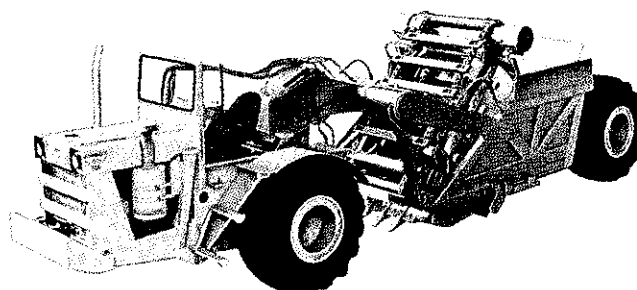
You get capacity loads without a pusher.


**333F TRACTOR-ELEVATING SCRAPER**

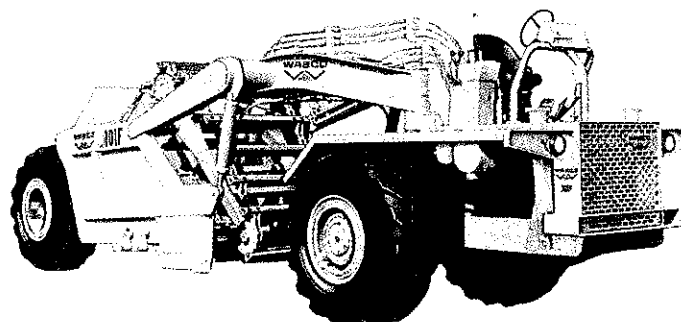
32 cubic yards (24,46 m<sup>3</sup>) capacity.

**111A TRACTOR-ELEVATING SCRAPER**

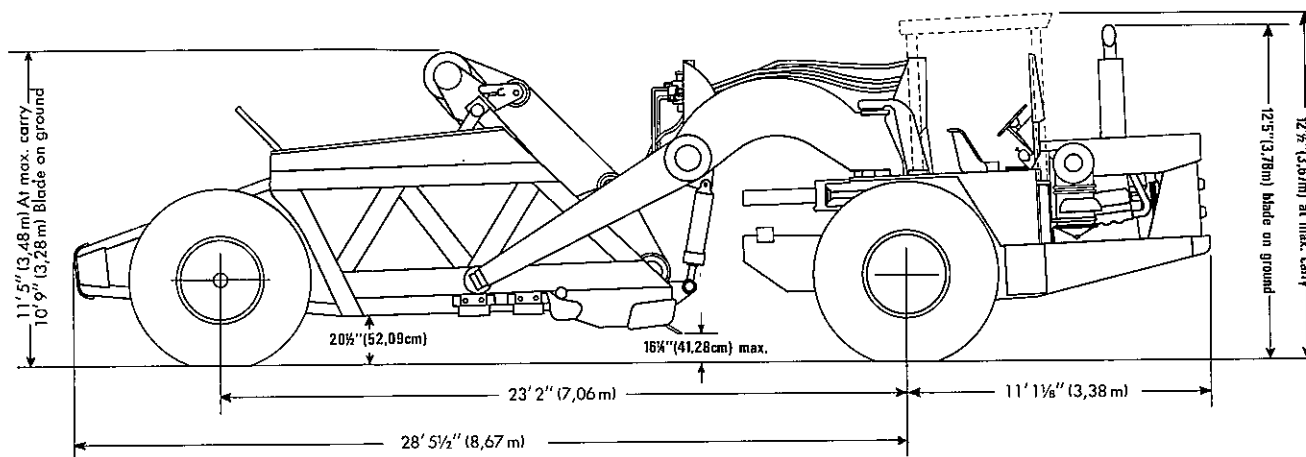
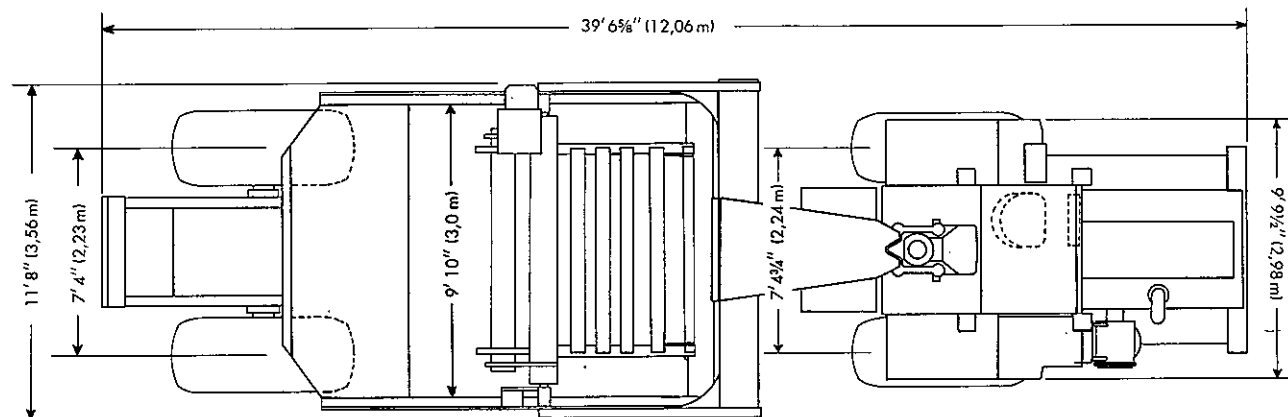
11 cubic yards (8,41 m<sup>3</sup>) capacity.


**101F TRACTOR-ELEVATING SCRAPER**

9 cubic yards (6,88 m<sup>3</sup>) capacity.



## 222G TRACTOR-ELEVATING SCRAPER



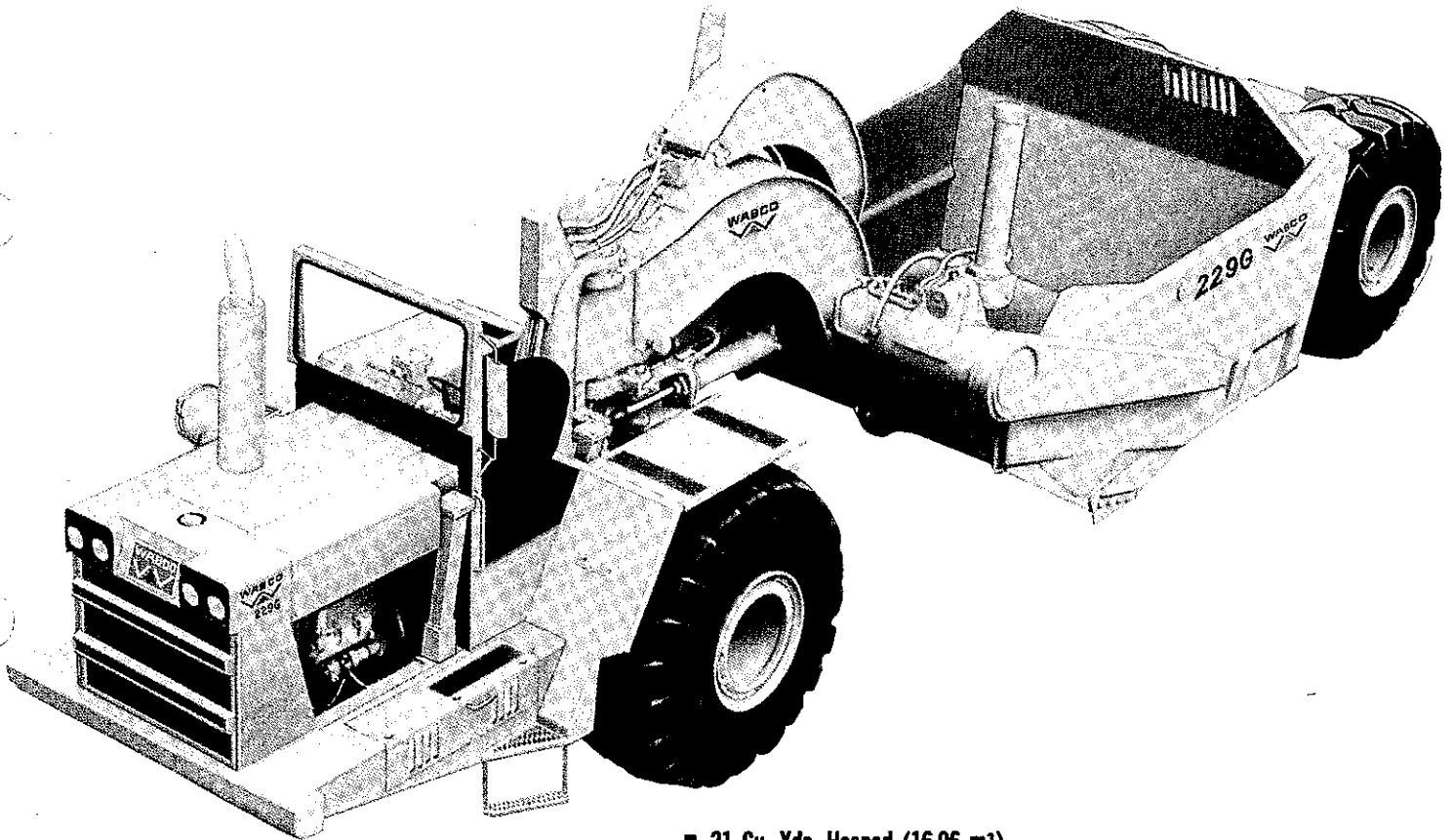
All dimensions reflect standard tires at static loaded radius with zero surface penetration.



CONSTRUCTION AND MINING EQUIPMENT GROUP  
An AMERICAN-STANDARD Company  
2300 N.E. Adams Street • Peoria, Illinois 61639



MODEL  
**229G**  
TRACTOR-SCRAPER



- 21 Cu. Yds. Heaped (16,06 m<sup>3</sup>).
- 15 Cu. Yds. Struck (11,46 m<sup>3</sup>).
- 333 horsepower.
- Wide, Low scraper bowl gives you big payloads in minimum time.
- Total rugged design and good accessibility of components for low maintenance costs.
- Many safety features included as standard equipment to allow operator to run unit at highest practical speeds... complete more cycles per shift.



# 229G TRACTOR-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 ..... 333 HP @ 2100 RPM  
\*\*Flywheel Horsepower ..... 309 HP @ 2100 RPM  
Baseline Rating ..... Sea Level to 5,000 ft. (1524 m),  
air temp. @ 85° F. (29,4° C.)  
Maximum Torque ..... 920 ft. lb. @ 1400 RPM  
Bore ..... 4 1/4 in. (108 mm)  
Stroke ..... 5 in. (127 mm)  
Displacement ..... 567.4 cu. in. (9,3 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  $\pm 5\%$ .)  
\*\*(Flywheel Horsepower is the rated horsepower at the engine flywheel minus the average accessory losses including Fan and Air Compressor.)

## TRANSMISSION

Power Shift Type ..... Allison CLBT-4465  
with Allison TC-495 Torque Converter

## ● SPEED in MPH and (Kilometers per Hour)

Forward, 1st	5.0	(8,0)
2nd	7.8	(12,6)
3rd	11.3	(18,2)
4th	16.0	(25,7)
5th	22.6	(36,4)
6th	31.9	(51,3)
Reverse, 1st	3.9	(6,3)

**DIFFERENTIAL** ..... Torque proportioning,  
automatic friction type

## ● STEERING

Type ..... Hydraulic - variable speed  
90° each way  
Hydraulic Cylinders ..... Two, double acting 5" x 23"  
(12,70 cm x 58,42 cm)  
Pump ..... Piston, variable displacement type  
0 - 34 GPM (128,7 liter/min) @ Governed RPM,  
relief valve setting 3200 PSI (225 ka/cm<sup>2</sup>)  
Width for 180° turn ..... 32' 2 7/8" (9,38m)

## SERVICE CAPACITIES

	Gallons (U.S. Standard)	Liters
Cooling System	20.0	(75,7)
Crankcase (with filter)	8.5	(32,2)
Fuel Tank	155.0	(586,7)
Final Drive	28.0	(106,0)
Transmission (with filter)	7.5	(28,4)
Hydraulic Reservoir	30.5	(115,5)

## SCRAPER

## CAPACITY

Cubic Yards, Struck	15 (11,46 m <sup>3</sup> )
Heaped	21 (16,06 m <sup>3</sup> )
Tons	25 (22,7 m. tons)

## ● OPERATING DATA

Bowl Width, Inside ..... 9' 6" (2,90 m)  
Depth of Cut, Max. with  
wheels on common plane ..... 14" (35,56 cm)  
Depth of Spread, Max. under  
center cutting edge ..... 20" (50,80 cm)  
Cutting Edge Length, Outside side bits ..... 9' 8" (2,95 m)  
Cutting Edges, Four ..... 1" x 16" x 28 1/2"  
(2,54 cm x 40,64 cm x 72,39 cm)  
Apron Opening, at 6" carry ..... 5' 9" (1,75m)  
Type of Ejection ..... Forward, Positive

## GENERAL

### HYDRAULIC CIRCUITS

Control ..... Three lever remote mounted valve  
Pump ..... Vane type 66 GPM (249,8 liter/min)  
Relief valve setting 2500 PSI (172,5 kg/cm<sup>2</sup>)  
Cylinders, Apron ..... one, double acting 8" x 21 1/2"  
(20,32 cm x 54,61 cm)  
Bowl Lift ..... two, double acting 6" x 37"  
(15,24 cm x 93,98 cm)  
Ejection ..... one, double acting 6" x 61"  
(15,24 cm x 154,94 cm)

## ● TIRES

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

Standard for Tractor and Scraper

110 TMPH rating\* ..... 29.5-25, 28 ply rating, Rock (E-3)  
(161 tkm/h)

Optional for Tractor and Scraper

135 TMPH rating\* ..... 29.5-29,28 ply rating Rock (E-3)  
(197 tkm/h)

Other types of tires are also available in these sizes with significantly higher TMPH (tkm/h) ratings. -- Contact the factory or tire manufacturer for additional data.

\* Approximate TMPH (tkm/h) rating @ 100° ambient temp.  
-- Contact the tire manufacturer for additional or more precise data.

**BRAKES, Shoe Type** ..... air over hydraulic actuated,  
wedge operated  
Size ..... 20 1/4" dia. x 7" wide shoe (51,44 cm x 17,78 cm)

## ● OVERALL MEASUREMENTS\*

Length ..... 40' 6 3/4" (12,36 m)  
Width, over yoke arms ..... 11' 4 1/2" (3,47 m)  
Height, cutting edge on ground ..... 11' 11" (3,63 m)  
Height, high carry ..... 12' 8" (3,86 m)  
Wheelbase ..... 23' 5 1/4" (7,14 m)  
Gauge, center to center tires, Tractor ..... 7' 1 1/8" (2,16m)  
Gauge, center to center tires, Scraper ..... 7' 4" (2,24 m)

# OVERALL MEASUREMENTS (Continued)

Ground clearance, Tractor ..... 25" (63,50 cm)  
 Ground clearance, Scraper bowl ..... 17 3/8" (44,13 cm)

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

## WEIGHT

Shipping weight, approximate ..... 56,425 lbs. (25,594 kg)

Distribution	Empty	Loaded
Drive Axle .....	67.3%	51.1%
Rear Axle .....	32.7%	48.9%

## STANDARD EQUIPMENT

Air cleaner (dry type), air suspension seat, apron float, automatic adjusting brakes, belly plates, automatic ejector return, fan guard, tractor fenders, reuseable fittings, headlights, hour meter, torqmatic brake, throttle lock, reversible radiator fan, scraper cutting edge light\*, rear view mirror, muffler, seat belt\*, shift indicator, taillight and reflector, hydraulic tank sight gauge, tow hooks, twin air horns, windshield, emergency and parking brakes, ROPS canopy, back up alarm.

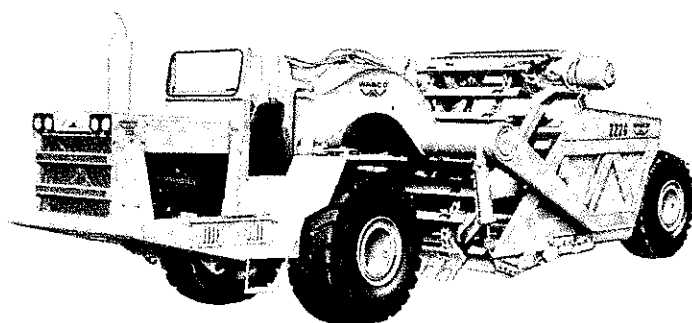
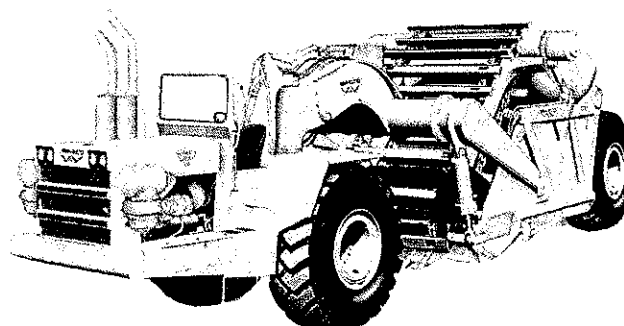
(\*Deletable standard equipment.)

## Check These WABCO Elevating Scrapers

You get capacity loads without a pusher.

### 333F TRACTOR-ELEVATING SCRAPER

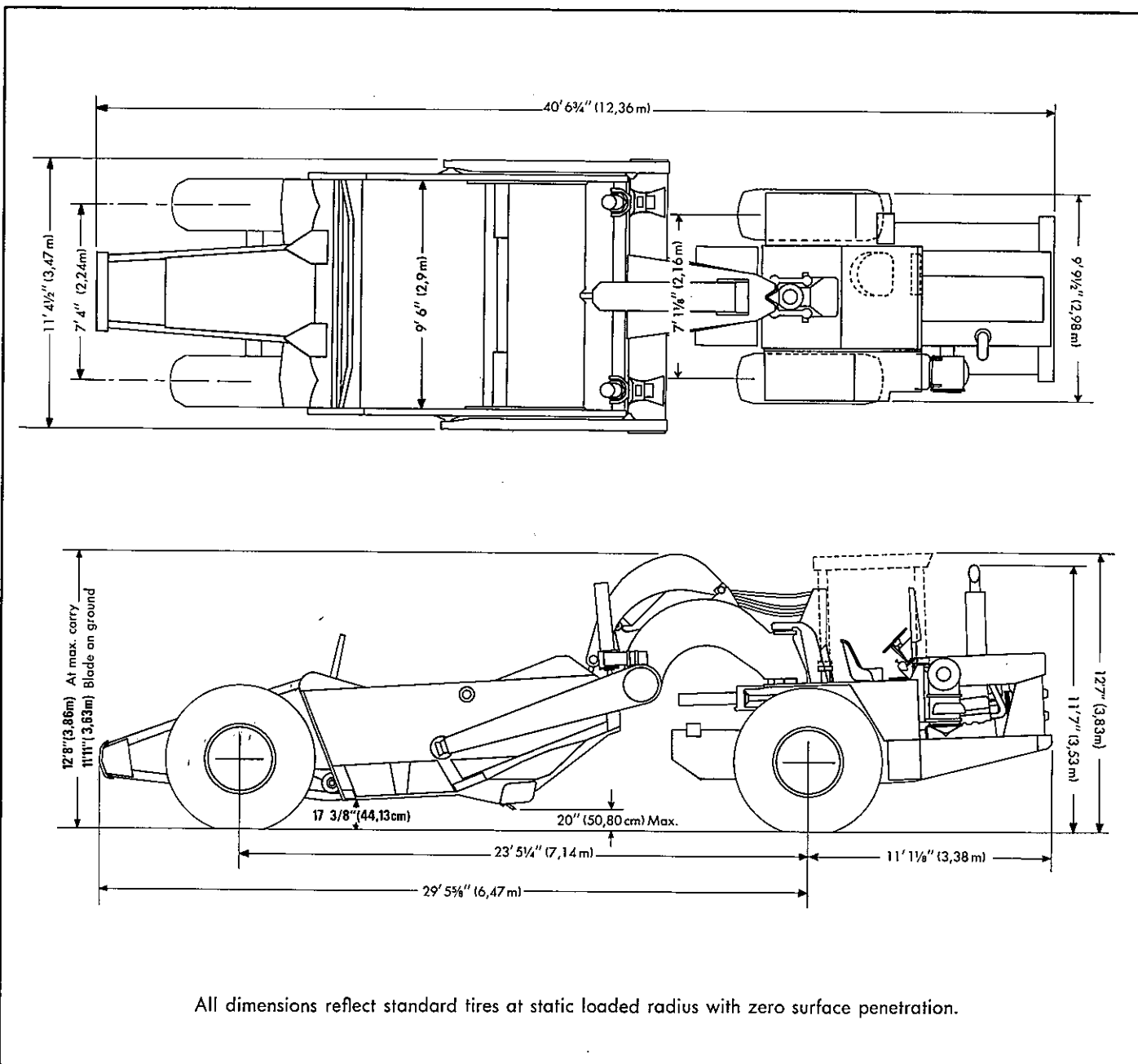
32 cubic yards (24,46 m<sup>3</sup>) capacity.



### 222G TRACTOR-ELEVATING SCRAPER

22 cubic yards (16,82 m<sup>3</sup>)

# 229G TRACTOR-SCRAPER

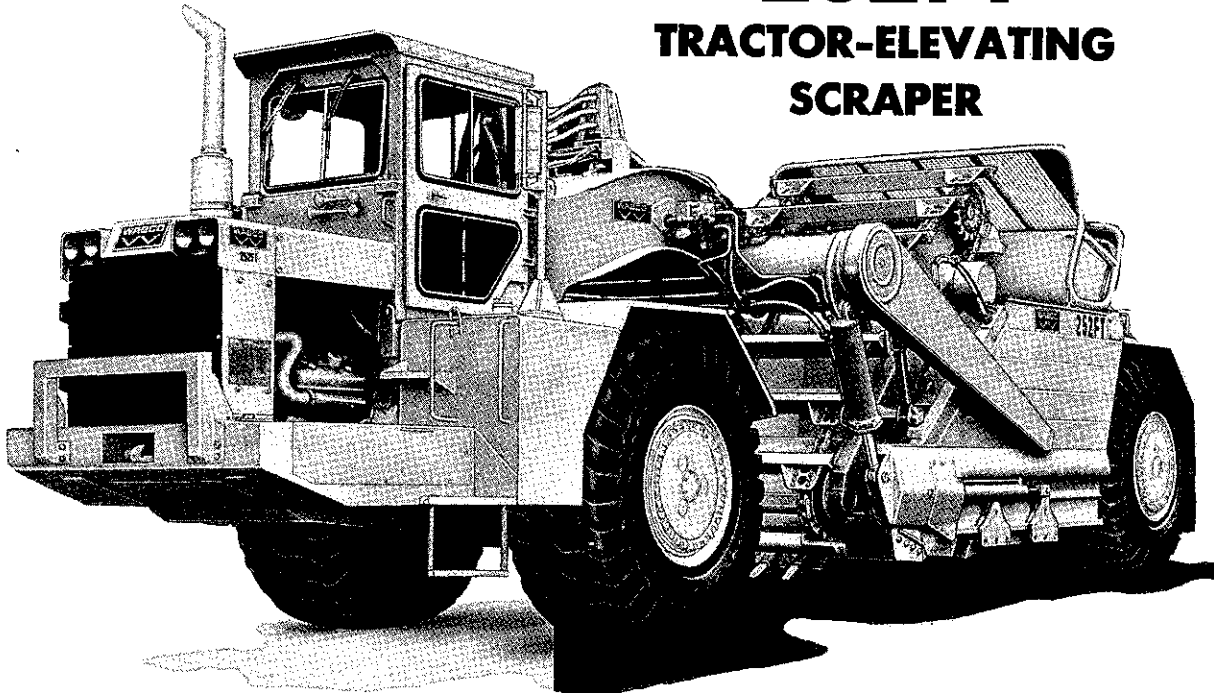


CONSTRUCTION AND MINING EQUIPMENT GROUP  
An AMERICAN-STANDARD Company  
2300 N.E. Adams Street • Peoria, Illinois 61639





**MODEL**  
**252FT**  
**TRACTOR-ELEVATING**  
**SCRAPER**



- 27 Cu. Yds. (20,64 m<sup>3</sup>)
- 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.



# 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  $\pm 5\%$ .)

\*\* (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  $\pm 5\%$ .)

\*\* (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 m<sup>3</sup>)  
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/cm<sup>2</sup>)  
Relief Valve Setting ..... 2500 PSI  
(176 kg/cm<sup>2</sup>)

## 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 <sup>2</sup> )
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%

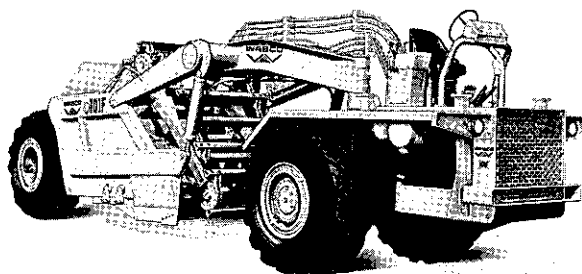
## STANDARD EQUIPMENT

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.)

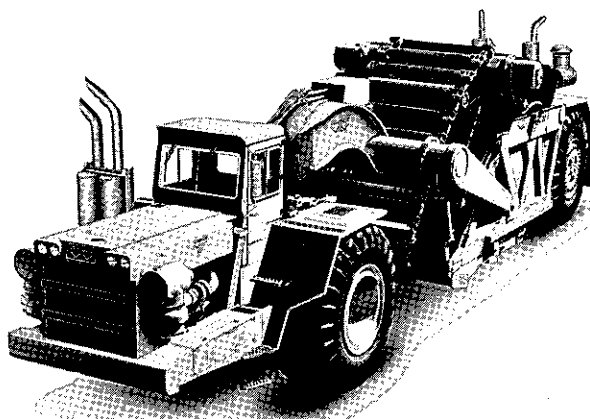
## Other WABCO Elevating Scrapers

You get capacity loads without a pusher.



### 101F TRACTOR-ELEVATING SCRAPER

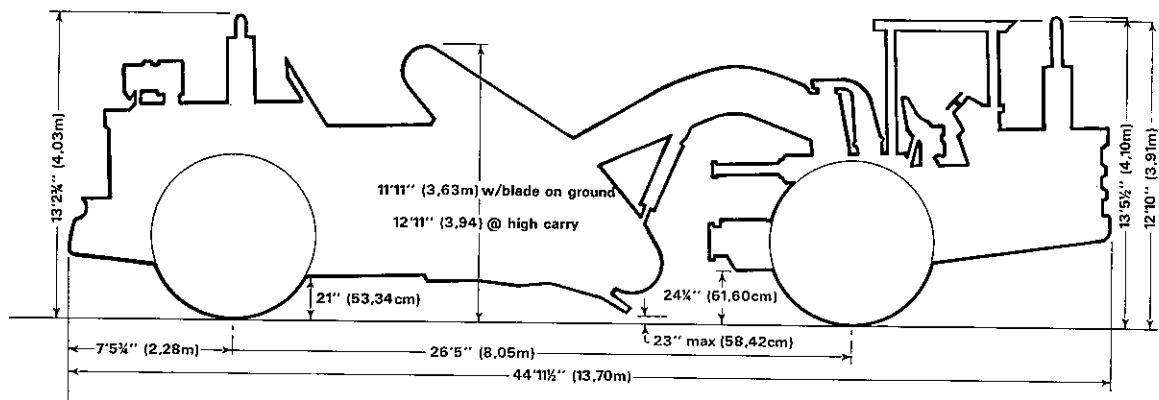
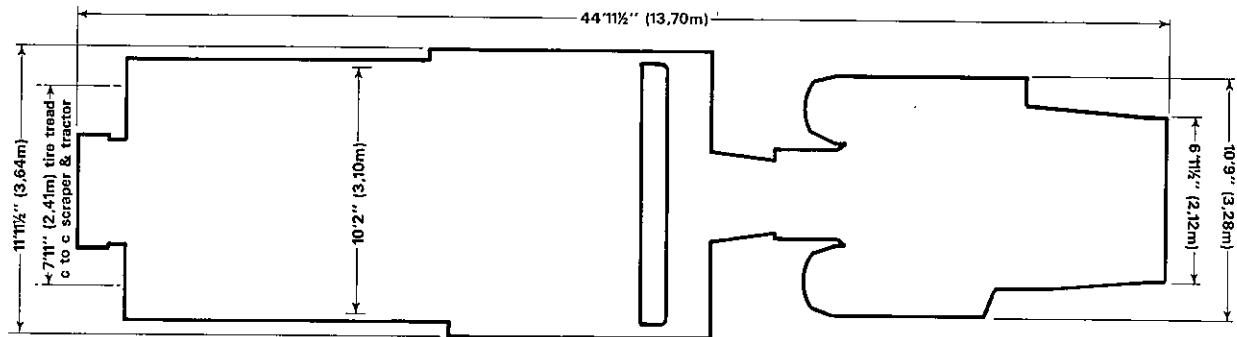
9 cubic yards (6,88 m<sup>3</sup>) capacity.



### 333FT TRACTOR-ELEVATING SCRAPER

34 cubic yards (26,0 m<sup>3</sup>) capacity.

# MODEL 252FT TRACTOR-ELEVATING SCRAPER



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



An American-Standard Company