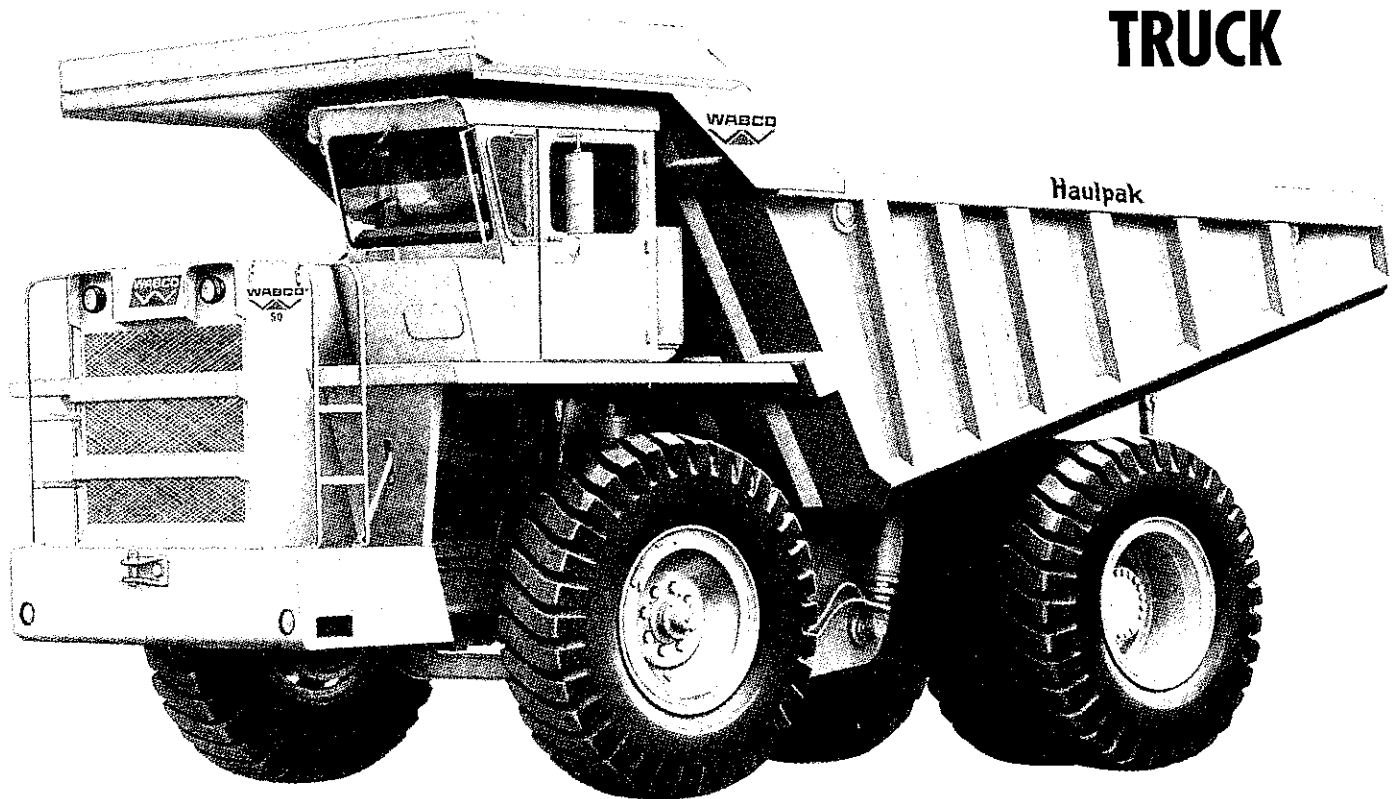


WABCO

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 ±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)

COOLING SYSTEM Continuous finned, flat tube type radiator with 2440 sq. in. (15,742 cm²), 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 m³ /min)

AIR CLEANER Dual Dry Type

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

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

SERVICE CAPACITIES

	Gallons (U.S. Standard)	Liters
Cooling System . . . . .	.42	(159)
Crankcase—Cummins . . . . .	.18	(68)
Detroit Diesel . . . . .	.215	(81)
Hydraulic System . . . . .	.60	(227)
Transmission and Torque Converter . . . . .	.16	(61)
Final Drive . . . . .	.29	(110)

SUSPENSION, HYDRAIR-II Variable rate air-hydraulic suspension with integral rebound control
 Length of stroke, front 14½" (36,83 cm)
 Length of stroke, rear 10" (26,04 cm)

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

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

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



SERVICE BRAKES, Shoe Type-Wedge Actuated, Air over hydraulic
 Square inches of braking surface: Total 1960 (12,645 cm²)
 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 cm²) 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/cm²) 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/cm²) at rated load.
 Relief pressure set at 2500 PSI (176 kg/cm²)

CAPACITY
 Cubic yards, Struck 30.8 (23,55 m³)
 Heaped @ 3:1 37.0 (28,29 m³)
 @ 2:1 (S.A.E.) 40.0 (30,58 m³)
 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:

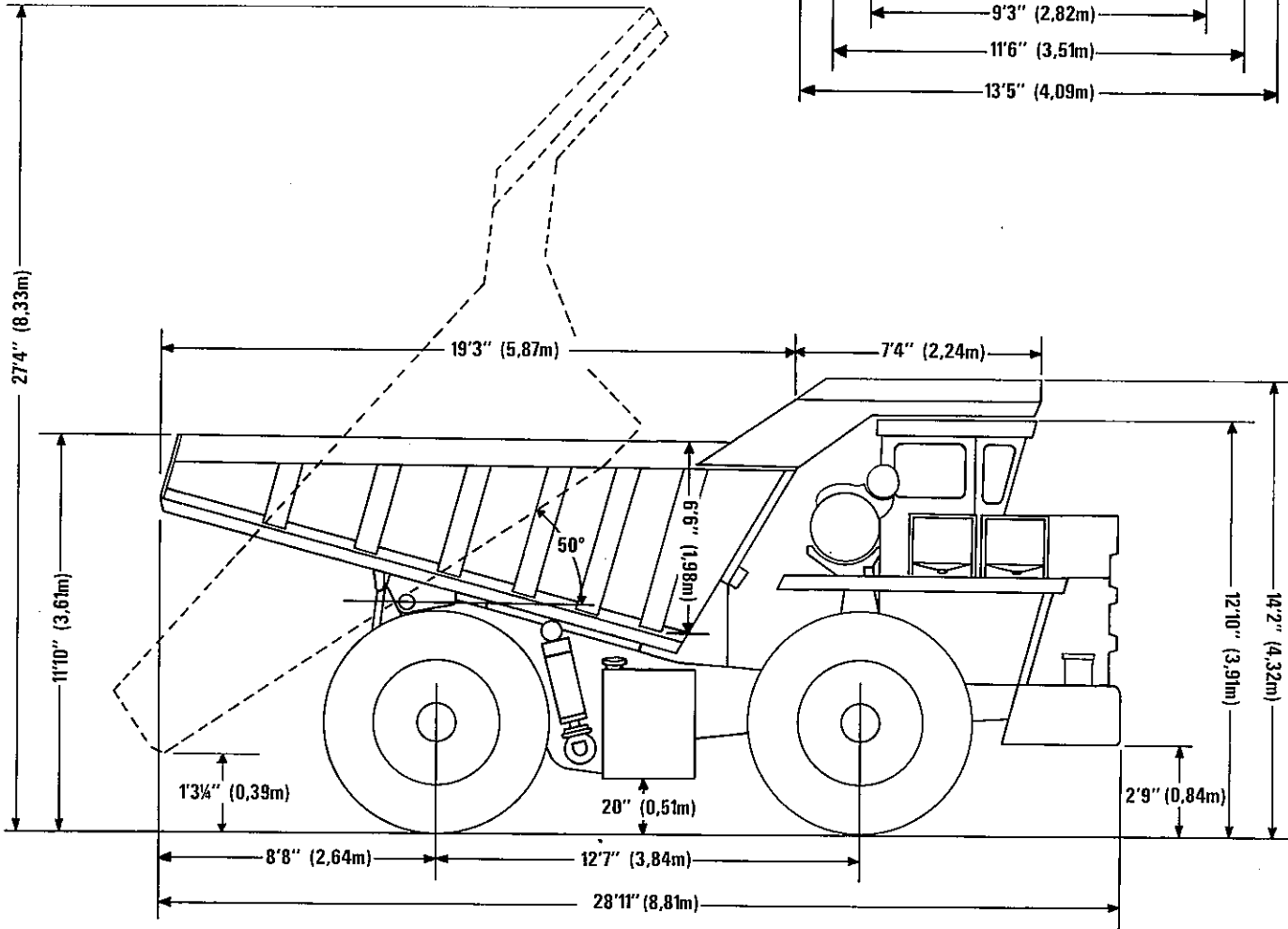
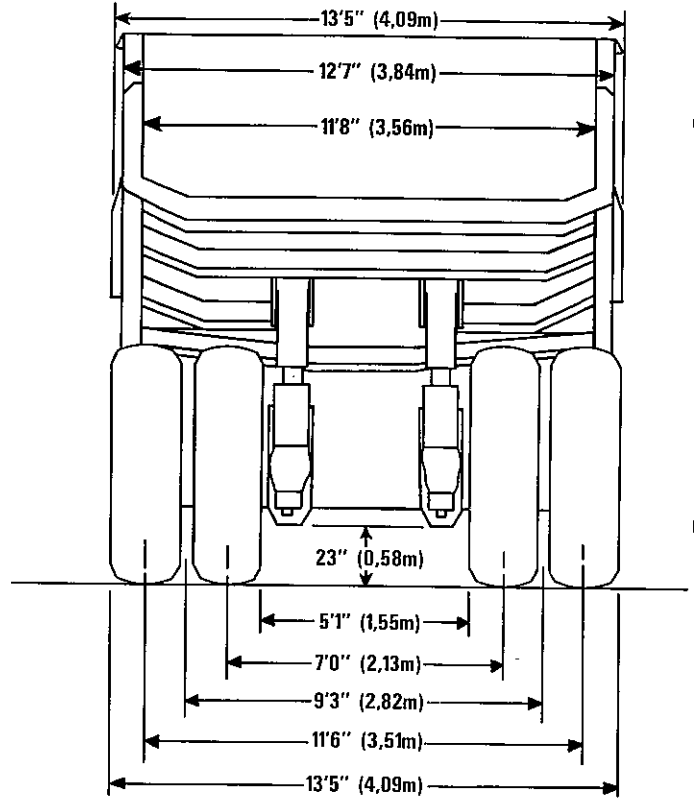
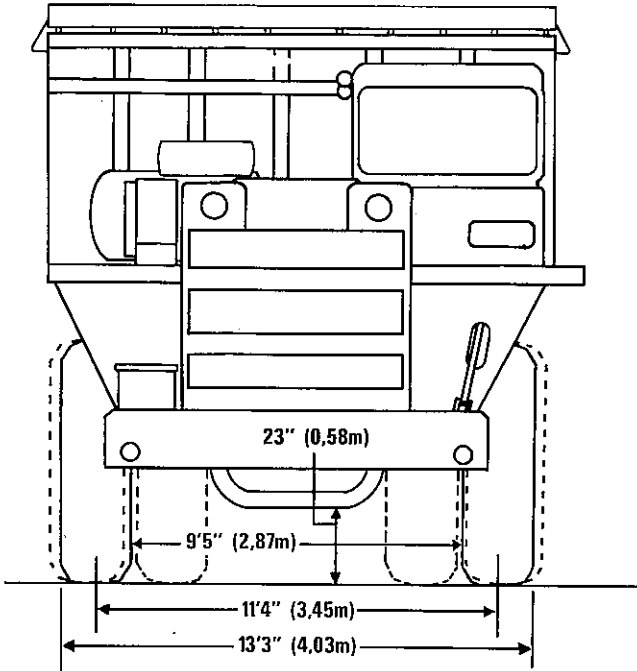
Back-up warning horn, fenders, belly guard for transmission, mirror-right hand, air conditioner (21,500 BTU), radiator shutters and thermostatic fan, thermostatic fan, windshield washer-foot powered.

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.

3961 First Printing Nov. 75-745

50 HAULPAK REAR DUMP TRUCK



An American-Standard Company