

This hauler does pushups with a Denison pump

A Haulpak® Rear Dump by Westinghouse Air Brake Company hauls 35-ton loads round-the-clock at speeds to 40 mph.

But what happens when the operator wants to dump the loads? Wabco relies on fast, reliable, precisely-controlled fluid power.

A Denison vane-type pump operating at 2,300 rpm delivers up to 61 gpm at 1,900 psi for the twin-cylinder, 3-stage, double-acting body hoist and power steering system. This

rugged, compact unit is built to take the same strenuous duty as the construction equipment itself.

If you're designing fluid power systems up to 5,000 psi, do it with dependable Denison components. Pumps, motors, control valves.

Your nearby Denison hydraulics specialist will gladly assist you. Call or write him today. And ask for your free copy of bulletin no. 220 describing our full line.

Abex
CORPORATION
Denison Division
1240 DUBLIN ROAD
COLUMBUS, OHIO 43216



Denison® Hydraulics

MODEL 35D HAULPAK® TRUCK



ENGINE Cummins KT-1150-C
 Fuel Diesel
 Number of cylinders 6
 Operating Cycle 4 stroke
 *Rated Brake Power (SAE) ... 450 HP (336 kW) @ 2100 RPM
 **Flywheel Power (SAE) ... 435 HP (324 kW) @ 2100 RPM
 Maximum Torque 1250 lb-ft (1709 N.m) @ 1500 RPM
 Bore 6 1/4" (159 mm)
 Stroke 6 1/4" (159 mm)
 Displacement 1150 cu. in. (18.9 l)

*Rated brake power 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. Power and torque shown above represent performance at SAE standard 2519B conditions of 500 ft. altitude (29.00" Hg/738 mm HG dry barometer) 85°F (29°C) air intake temperature.

**Flywheel power is the rated power at the engine flywheel minus the average accessory losses. Accessories include fan, air compressor and alternator.



ENGINE Detroit 12V-71N
 Fuel Diesel
 Number of Cylinders 12
 Operating Cycle 2 stroke
 *Rated Brake Power (SAE) ... 456 HP (340 kW) @ 2100 RPM
 **Flywheel Power (SAE) ... 441 HP (329 kW) @ 2100 RPM
 Maximum Torque 1200 lb-ft (1627 N.m) @ 1600 RPM
 Bore 4 1/4" (108 mm)
 Stroke 5" (127 mm)
 Displacement 852 cu. in. (13.96 l)



TRANSMISSIONS Allison CLBT-5861 with hydraulic retarder, Allison TC690 Torque converter, lock-up type, 6 forward speeds, full power shift, Allison electric shift control, Allison CLBT-754 with hydraulic retarder, Allison TC498 torque converter, lock-up type, 5 forward speeds, automatic shifting plus operator-selected ranges.

SPEEDS in MPH and (Kilometers per Hour)

	CLBT-5861	CLBT-754
Forward 1st	6.9 (11.10)	6.8 (10.94)
2nd	10.4 (16.73)	11.1 (17.87)
3rd	13.8 (22.20)	17.5 (28.17)
4th	20.6 (33.15)	25.7 (41.37)
5th	27.6 (44.73)	35.4 (56.99)
6th	41.5 (66.77)	
Reverse 1st	5.4 (8.69)	3.6 (5.8)



FINAL DRIVE ASSEMBLY
 WABCO Traction Sensing Differential maintains power to the wheel with traction. Operates automatically. No operator training required.

Final Drive Double reduction type

Ratios:	with CLBT-5861 Transmission	with CLBT-754 Transmission
Bevel Set	2.92:1	2.29:1
Final Set	5.50:1	5.50:1
Total Reduction	16.08:1	12.62:1



TIRES & RIMS

STANDARD TIRES	MPH Rating*	tk/h
18.00 x 33, 28 PR Rock (E-3)	160	234
OPTIONAL TIRES		
18.00 X 33, 32 PR Rock (E-3)	160	234
18.00 x 33, Radial Steel Cord	180	263
Rim size for all tires listed above	13.00 x 33	

*Estimated top mile per hour rating at 100°F (38°C) ambient temperature. Use as a guide only. Contact the manufacturer for more precise data.

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.



FRAME Special alloy steel modified box section frame with integral front bumper and cross member

Top and bottom plate thickness 3/4" (19 mm)
 Side plate thickness 3/8" (10 mm)
 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.



V-BODY - ROCK TYPE

Construction
 High Strength 125,000 PSI (862 MPa) yield steel 3/4" (19 mm) one piece bottom plate, 90,000 PSI (620 MPa) yield steel in sides and front body plates. Rugged bolster and sill construction. Body rubber mounted on frame. Exhaust heated body, standard.

CAPACITY 35 tons (31.77 t)
 Struck 22.0 cu. yd. (16.8 m³)
 Heaped 3:1 27.0 cu. yd. (20.7 m³)
 Heaped 2:1 29.0 cu. yd. (22.2 m³)

BODY PLATE THICKNESS
 Floor 3/4" (19.05 mm)
 Side 3/8" (9.53 mm)
 Front 1/2" (12.70 mm)
 Canopy 1/4" (6.35 mm)



CAB Engineered to provide superb working comfort, deluxe interior, excellent visibility, adjustable steering wheel and steering column. Windshield Tinted safety glass, 4" tilt
 Driver's seat Fully adjustable
 Environment Filtered adjustable ventilation system. All-weather fresh air heater and full windshield defroster. Cab is insulated for sound and temperature control.



SUSPENSION HYDRAIR® II variable rate, hydro-pneumatic suspension cylinders with integral rebound control. Warranted for 1 year or 5,000 hours.

Cylinder stroke, front 14 1/2" (368 mm)
 Cylinder stroke, rear 10 1/4" (260 mm)



BRAKING SYSTEMS

SERVICE BRAKES

Shoe type wedge actuated, air-over hydraulic
 Total braking surface 1264 sq. in. (8160 cm²)
 Front 20 1/4" x 5" (514 mm x 127 mm)
 Rear 28" x 8" (660 mm x 203 mm)