



# MODEL DC103D-OH

Planetary Packaged

4 x 2

OFF-HIGHWAY REAR DUMPER



## SPECIFICATIONS

### ENGINE

	Standard	Optional	Optional
Make	Cummins	Cummins	Cummins
Model	NH-250	NH-250	NTQ-280
Cycle	Four	Four	Four
Type	Valve-in-head	Valve-in-head	Valve-in-head
Number of Cylinders	Six	Six	Six
Bore and Stroke	5 1/8 x 6	5 1/8 x 6	5 1/8 x 6
Piston Displacement (Cu. In.)	743	855	743
Brake Horsepower at R.P.M.	270 @ 2100	250 @ 2100	280 @ 2100
Maximum Torque at R.P.M.	606 @ 1600	685 @ 1500	770 @ 1500
Governed Speed (R.P.M.)	2100	2100	2100
Compression Ratio	15.5	14.9	16.0
Connecting Rod Bearings			
Diameter (In.)	3 1/8	3 1/8	3 1/8
Projected Area (Each—Sq. In.)	6.18	6.18	6.18
Crankshaft			
	Counter-balanced and Tocco-hardened	Counter-balanced and Tocco-hardened	Counter-balanced and Tocco-hardened
Cylinders	Wet sleeve liners	Wet sleeve liners	Wet sleeve liners
Flywheel Housing (S.A.E. No.)	#2	#2	#2
Governor	Flyball type	Flyball type	Flyball type
Lubrication	Full pressure feed	Full pressure feed	Full pressure feed
Main Bearings			
Number	Seven	Seven	Seven
Diameter (In.)	4 1/8	4 1/8	4 1/8
Total Projected Area (Sq. In.)	61.15	61.15	61.15
Pistons	Aluminum alloy	Aluminum alloy	Aluminum alloy
Turbocharger	None	None	Exhaust driven

FOR  
CONSTRUCTION,  
MINING,  
QUARRYING

## Superior Features

- Planetary Gear Drive Rear Axle with Final Reduction at Outer Ends of Wheel.
- Greater Flexibility Provided by Faster Axle Ratios and by Ten-Speed Transmission.
- High Horsepower to Weight Ratio.
- Free Floating Springs, Front and Rear.
- Heavy-Duty Radius Rods, Front and Rear.
- High-Strength, Heat-Treated Alloy Steel Frame.
- Belted Construction.
- Maximum Maneuverability Provided by Set-Back, Wide Track Front Axle.
- Autocar "Full-Adjust" Driver's Seat.
- 70° Dumping Angle Provided by Double-Acting Hydraulic Hoist.

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## SPECIFICATIONS (Cont'd)

### COOLING SYSTEM

<b>Fan</b>	
Diameter (In.)	24
Number of Blades	Six
Blade Width (In.)	4 3/4
Drive Ratio	1.45 to 1
<b>Radiator</b>	
Construction	Built-up, with separate upper and lower tanks, side brackets and core
Type of Core	Fin and tube
Frontal Area (Sq. In.)	992
<b>Thermostat</b>	
Type	By-pass
<b>Water Pump</b>	
Type	Centrifugal
Drive	Belt

### ELECTRICAL SYSTEM

<b>Batteries</b>	
Number	Four
Voltage	12 volt
Number of Plates	13
Ampere-Hour Capacity	90 each
<b>Generator</b>	
Make	Delco-Remy
Voltage	12
Ampere Output	50
<b>Starting Motor</b>	
Make	Delco-Remy
Voltage	24
<b>Lighting System</b>	
Voltage	12

### FILTERS

<b>Air</b>	
Type	Oil bath
Make and Size (In.)	Vortex 12 (NH-230); 13 1/2 (NH-250); 13 1/2 (NF0-280)
Location	Right side of cowl
<b>Fuel Oil</b>	
Type	Removable cartridge
Make	Frpm
Location	Left side of engine
<b>Lubricating Oil</b>	
Type	Full-flow
Make	Nugent
Location	Left side of engine
<b>Lubricating Oil</b>	
Type	By-pass
Make and Model	Luber-finer 750C
Location	Left side of cowl

### FUEL SYSTEM

<b>Fuel Tank</b>	
Capacity (Gals.)	54
Type	Cylindrical
Location	Left hand step
<b>Fuel Pump</b>	
Make	Cummins
Drive	Gear

### CLUTCH

Make and Size	Spicer 14" two plate
Type	Dry disc
<b>Facing</b>	
Outside Diameter (In.)	13 3/4
Inside Diameter (In.)	7 3/8
Thickness (In.)	5/8
Total Area (Sq. In.)	423

### CLUTCH (Cont'd)

Clutch Brake	Yes
Actuation	Manual

### UNIT TRANSMISSION

Make and Model	Fuller 10H1120	
Type	Selective	
Number of Speeds	Ten forward, two reverse	
<b>Gear Ratios</b>		
	High Range	Low Range
First	6.54	8.59
Second	3.08	4.04
Third	1.76	2.31
Fourth	1.00	1.31
Fifth	.636	.835
Reverse	6.49	8.52

### PROPELLER SHAFTS

Make and Size	Spicer 1800
Type of Universal Joints	Needle bearing
Construction	Flange

### FRONT AXLE

Make and Model	Shuler FE18
Type	Elliott (Yoke end on center section beam)
<b>Center Section</b>	
Type	I-beam
Depth (In.)	4 1/4
Flange Width (In.)	3 1/2
Web Thickness (In.)	3/8
<b>Steering Knuckle Spindle</b>	
Diameter at Inner Bearing (In.)	1 7/8
Diameter at Outer Bearing (In.)	2 1/8
<b>Steering Knuckle Pin Diameter (Max. In.)</b>	
	1 5/8
<b>Wheel Bearings</b>	
Make	Timken
Type	Tapered roller
Inner Bearing	832-843
Outer Bearing	632-638
Capacity per Wheel at 500 R.P.M. (Lbs.)	
Radial	21,450
Thrust	13,600

### REAR AXLE

Make and Model	Autocar—Timken PR-400
Type	Planetary gear drive
<b>Axle Shafts</b>	
Nominal Diameter (In.)	2 1/4
Diameter at Splines (In.)	2 3/8
Number of Splines	24
<b>Carrier</b>	
Type	Single reduction
Mounting	Front
<b>Gears</b>	
Type	Hypoid
Ring Gear—Pitch Diameter (In.)	16 5/8
Face Width (In.)	2
Ratio Available	3.7 and 4.11 to 1
<b>Differential</b>	
Type	Four pinion, high traction
Side Gear Diameter (In.)	5.892
<b>Housing</b>	
Type	Cast steel, rectangular section
Section Modulus at Spring Seat (In. Cu.)	79.2

## DESIGNED TO OUTPERFORM

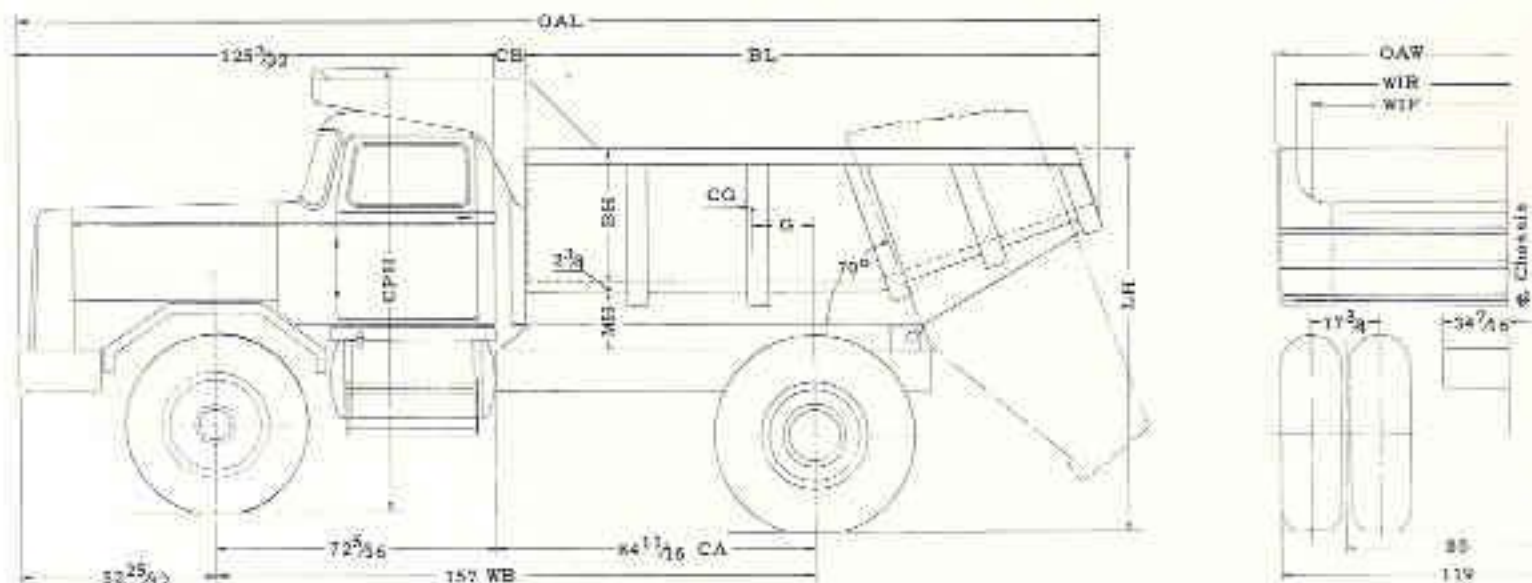
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## AUTOCAR MODEL DC103D-OH (Planetary Packaged) DIMENSIONS AND WEIGHTS



### DIMENSIONS

Item	Symbol	With Body and Hoist	
		Heil	Marion
Struck Capacity (Cu. Yds.)	—	10	10
Heaped Capacity (3:1 Slope-Cu. Yds.)	—	13	13
Body Length (In.)	BL	150	144
Cab to Front of Body (In.)	CB	87 <sup>1/2</sup>	8
Overall Length (In.)	OAL	284 <sup>1/2</sup>	278 <sup>1/2</sup>
Center of Gravity to Rear Axle (In.)	G	15 <sup>1/4</sup>	16 <sup>11/16</sup>
Body Mounting Height (In.)	MH	15 <sup>1/4</sup>	15
Height of Body Sides (In.)	BH	34 <sup>1/2</sup>	36
Loading Height (In.)	LH	102 <sup>1/2</sup>	103 <sup>1/4</sup>
Height over Cab Protector (In.)	CPH	121	124 <sup>1/4</sup>
Inside Width of Body:			
Front (In.)	WIF	102	100
Rear (In.)	WIR	110	108
Overall Width of Body (In.)	OAW	120	119

### WEIGHT DISTRIBUTION DATA

	Front	Rear	Total
<b>WITH HEIL BODY AND HOIST</b>			
Chassis	10,400	9,400	19,800
Body and Hoist	1,325	11,875	13,200
Tare Weight	11,725	21,275	33,000
Payload	3,000	27,000	30,000
Gross Weight	14,725	48,275	63,000
<b>WITH MARION BODY AND HOIST</b>			
Chassis	10,400	9,400	19,800
Body and Hoist	1,400	11,800	13,200
Tare Weight	11,800	21,200	33,000
Payload	3,200	26,800	30,000
Gross Weight	15,000	48,000	63,000

NOTE: Chassis Weight includes cab, fuel, oil, water, standard units, and 12.00/24 front and 14.00/24 dual rear tires.

# THE WHITE MOTOR COMPANY

## AUTOCAR DIVISION

### EXTON, PA.

AT6139

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