

TRACKMOBILE MODEL SPECIFICATIONS

Key: ● Standard ▲ Optional or Special



	Viking	Hercules	Hercules Wide Cab
Engine	Cummins Electronic Turbo-Charged Diesel Engine	Cummins Electronic Turbo-Charged Diesel Engine	Cummins Electronic Turbo-Charged Diesel Engine
	Meets EPA Tier IV Final and EURO Stage IV Emissions	Meets EPA Tier IV Final and EURO Stage IV Emissions	Meets EPA Tier IV Final and EURO Stage IV Emissions
	Meets EPA Tier III EU Stage III A emissions	Meets EPA Tier III EU Stage III A emissions	Meets EPA Tier III EU Stage III A emissions
Configuration			
Valves per Cylinder	4	4	4
Engine Displacement Tier III, Tier IV Final and EURO Stage IV	275 In ³ [4.5 L]	408 In ³ [6.7 L]	408 In ³ [6.7 L]
Horsepower Tier III @2500 rpm	130hp [97kW]	160hp [123kW]	160hp [123kW]
Horsepower Tier IV Final and EURO Stage IV @2500 rpm	130hp [97kW]	173hp [129kW]	160hp [123kW]
Maximum Torque Tier III @1500 rpm	459lb -Ft (622N-m)	539lb-Ft (731N-m)	539lb-Ft (731N-m)
Maximum Torque Tier IV Final and EURO Stage IV @1500 rpm	457lb -Ft (620N-m)	620lb-Ft (841N-m)	539lb-Ft (731N-m)
Automatic Engine Shutdown	●	●	●
Ballast Package	N/A	▲	N/A
Intake Air Heater - preheats incoming combustion air prior to start ³	●	●	●
Air Intake			
3 - Stage Filtration: High- Efficiency Pre-Cleaner Tubes, Primary Filter, Safety Filter	●	●	●
Fuel Tank - High-strength steel, fuel tank			
Approximately Sixty (60) Gallon (227 liters) capacity with lockable cover	N/A	●	●
Twenty-five (25) Gallon [94.5 Liters] capacity	●	N/A	N/A
Powertrain			
Transmission Funk, DF 150 series, constant mesh spur gearing Four Speed Forward and Reverse with selectable Power shift manual or automatic with 4th or 3rd and 4th Gear Lock-Out Rail, Road, or Both	●	●	●
Axles			
On Road - Two (2) heavy-duty, steel cast case, hydraulically raised and lowered	●	●	●
On-Rail - Two (2) out-board internal planetary type with high-strength ductile iron	●	●	●
Rear Axle Drive hubs with Friction Drive	●	●	●
Differential - Rigid, outboard planetary air actuated differential locking	●	●	●
Transfer Case - Heavy-duty, hardened alloy steel spur gears w/oil bath lubrication	●	●	●
Brake System			
On-Road Machine Braking ² Hydraulic disc brakes, Dual Calipers, 14.625" [371.475 mm]	●	●	●
On-Rail Machine Braking ² Hydraulic disc brakes, 18" [457 mm] diameter	●	●	●
Machine Parking Brake - 14" [355.6mm] diameter disc, driveline mounted	●	●	●
In-Cab Train Air Source Control	●	●	●
Selectable Neutral Braking - Automatically applies brake to full pressure within 5 seconds.	●	●	●
AAR Compatible Train Air Brake System - gladhand connections			
100 CFM Rotary Screw Compressor with large steel constructed (Train Air Reservoir , 2.0 ft ³ [56.6 L] capacity)	N/A	●	●
16 CFM Engine Drive Compressor (Train Air Reservoir 2.0 ft ³ [56.6 L] capacity)	●	N/A	N/A
56 CFM Engine Driven compressor (Train Air Reservoir 2.0 ft ³ [56.6 L] capacity)	N/A	▲	N/A
60 CFM Twin Cylinder compressor (Train Air Reservoir 2.0 ft ³ [56.6 L] capacity)	▲	N/A	N/A
Pneumatic System			
Machine air pressure system air dryer ³ with automatic internal 12 VDC heater	●	●	●

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	Titan	Titan w/Ad-Trac	Atlas
Engine	Cummins Electronic Turbo-Charged Diesel Engine	Cummins Electronic Turbo-Charged Diesel Engine	Cummins Electronic Turbo-Charged Diesel Engine
	Meets EPA Tier IV Final and EURO Stage IV Emissions	Meets EPA Tier IV Final and EURO Stage IV Emissions	Meets EPA Tier IV Final and EURO Stage IV Emissions
	Meets EPA Tier III EU Stage III A emissions	Meets EPA Tier III EU Stage III A emissions	Meets EPA Tier III EU Stage III A emissions
Configuration			
Valves per Cylinder	4	4	4
Engine Displacement Tier III, Tier IV Final and EURO Stage IV	408 In ³ [6.7 L]	408 In ³ [6.7 L]	543 In ³ [8.9 L]
Horsepower Tier III @2500 rpm	260hp [193kW]	260hp [193kW]	N/A
Horsepower Tier IV Final and EURO Stage IV @2500 rpm	260hp [193 kW]	260hp [193kW]	350hp [261kW]
Maximum Torque Tier III @1900 rpm	550lb -Ft (746N-m)	728lb-Ft (987N-m)	N/A
Maximum Torque Tier IV Final and EURO Stage IV @1900 rpm	550lb -Ft (746N-m)	728lb-Ft (987N-m)	990 lb-Ft [1,342-m]
Automatic Engine Shutdown	●	●	●
Intake Air Heater - preheats incoming combustion air prior to start ³	●	●	●
Air Intake			
3 - Stage Filtration: High- Efficiency Pre-Cleaner Tubes, Primary Filter, Safety Filter	●	●	●
Donaldson Brand, 2 - Stage Filtration with Primary Filter and Safety Filter	● ⁴	● ⁴	N/A
Fuel Tank - High-strength steel			
Approximately Eighty (80) Gallon (303 liters) capacity with lockable cover	N/A	N/A	●
Approximately Sixty (60) Gallon (227 liters) capacity with lockable cover	●	●	N/A
Powertrain			
Transmission Funk, DF 150 series, constant mesh spur gearing Four Speed Forward and Reverse with selectable Power shift manual or automatic with 4th or 3rd and 4th Gear Lock-Out Rail, Road, or Both	●	●	N/A
Funk, DF 250 series, constant mesh spur gearing Four Speed Forward and Reverse with selectable Power shift manual or automatic with 4th or 3rd and 4th gear lock-out Rail, Road, or Both	N/A	N/A	●
Axles			
On Road - Two (2) heavy-duty, steel cast case, hydraulically raised and lowered	●	●	●
On-Rail - Two (2) out-board internal planetary type with high-strength ductile iron	●	●	●
Rear Axle Drive hubs with Friction Drive	●	●	●
Differential - Rigid, outboard planetary air actuated differential locking	●	●	●
Transfer Case - Heavy-duty, hardened alloy steel spur gears w/oil bath lubrication	●	●	N/A
Brake System			
On-Road Machine Braking ² Hydraulic disc brakes, Dual Calipers, 14.625" [371.475 mm]	●	●	●
On-Rail Machine Braking ² Hydraulic disc brakes, 18" [457 mm] diameter	●	●	●
Machine Parking Brake - 14" [355.6mm] diameter disc, driveline mounted	●	●	N/A
Machine Parking Brake - Transmission mounted, self contained, spring activated wet disc park brake	N/A	N/A	●
In-Cab Train Air Source Control	●	●	●
Selectable Neutral Braking - Automatically applies brake to full pressure within 5 seconds.	●	●	●
AAR Compatible Train Air Brake System - gladhand connections			
100 CFM Rotary Screw Compressor with large steel constructed (Train Air Reservoir , 2.0 ft ³ [56.6 L] capacity)	●	●	●
Pneumatic System			
Machine air pressure system air dryer ³ with automatic internal 12 VDC heater	●	●	●

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	Viking	Hercules	Hercules Wide Cab
Hydraulic			
On-Road Machine Braking ⁵ - Hydraulic disc brakes, Dual Calipers per side	●	●	●
On-Rail Machine Braking ⁵ - Hydraulic disc brakes, 18" [457 mm] diameter	●	●	●
Constant Pressure Hydraulic System, with piston pump and O-ring face seal fittings	●	●	●
Electrically controlled cartridge monoblock valve with diagnostic pressure ports	●	●	●
Electrical			
Heavy Duty 12 Volt DC, 160 AMP Alternator with Dual 925 CCA Batteries	●	●	●
Digital Instrumentation System - SAE-J1939 CAN-Bus Control System	●	●	●
Ultraview 7" Digital Display for real-time machine statistics and diagnostic data	●	●	●
Safe-T-Vue™ Video 10" Monitor display with 360° surround view camera system	●	●	●
Optional rail line of sight cameras	▲	▲	▲
Alarms - Automatic backup road-mode alarm, selectable electronic Warble-type alarm, blast type air horn, and amber LED strobe warning lights	●	●	●
Wheels/ Tires			
On Road - Four (4), 16 Ply 9.00 x 20 Heavy Duty, Mine Service Rubber Tires	●	●	●
On Rail - Four (4), 27" [685.8 mm], heat-treated, cast steel, ring-style flanged AAR profile Standard Gauge 56 1/2" [1435 mm]	●	●	●
Sanders			
Eight (8) Individual, Air-Operated, Electronically- Controlled Sanders- 2 per wheel	●	●	●
Main Frame			
Heavy Duty -High Strength 2" thick welded Steel Structural Frame	●	●	●
With two (2) 3" [76.2 mm] thick cross-members, one each on the front and rear	N/A	●	●
With two (2), 6" [152.4 mm] thick cross-members, one each on front and rear	●	N/A	N/A
Floating axles within mainframe, oscillate up to 2.6° assuring 4-wheel rail contact	●	●	●
Body Frame - Heavy-duty all-welded construction steel plates and structural forms	●	●	●
Suspension - Durable shock resistant foundation for Body Frame, Cab	●	●	●
Isolation mounts for reduced noise and vibration levels	●	●	●
Six (6) isolation mounts between cab and body frame (deck), and eight (8) Lord rubber mounts between the body deck and main frame	N/A	●	●
Six (6) isolation mounts between the cab and body frame (deck), and four (4) Lord rubber mounts, and between body and main frame	●	N/A	N/A
Steering - On Road - hydraulic power steering with pivot away steering wheel	●	●	●
Standard AAR Couplers			
Two heavy-duty cast steel weight transfer design positive coupling and uncoupling with AAR contour coupler and locking knuckle.	●	●	●
Industry Leading Coupler Beam Width for adverse and severe curve radius	●	●	●
AAR, SA-3, UIC (Hook and Buffer style), Metro Train type couplers allowing dual-gauge conversion capabilities	●	●	●

Notes:

1. Tier IV Final Required in United States and Canada
2. Tier III, EU Stage III available where permitted by law.
3. Not to be used in conjunction with Ether starting fluid.
4. Only available as standard on Tier III Titan.
5. Maximum application pressure is varied automatically, depending on whether the machine is in rail or road mode. If the machine is on rail, the machine is on rail, the application pressure will vary depending on weight transferred, for best stopping capability.

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	Titan	Titan w/Ad-Trac	Atlas
Hydraulic			
On-Road Machine Braking ⁵ - Hydraulic disc brakes, Dual Calipers per side	●	●	●
On-Rail Machine Braking ⁵ - Hydraulic disc brakes, 18" [457 mm] diameter	●	●	●
Machine Parking Brake - transmission mounted, self-contained, wet disc brake	N/A	N/A	●
Constant Pressure Hydraulic System, with piston pump and O-ring face seal fittings	●	●	●
Electrically controlled cartridge monoblock valve with diagnostic pressure ports	●	●	●
Electrical			
Heavy Duty 12 Volt DC, 160 AMP Alternator with Dual 925 CCA Batteries	●	●	●
Digital Instrumentation System - SAE-J1939 CAN-Bus Control System	●	●	●
Ultraview 7" Digital Display for real-time machine statistics and diagnostic data	●	●	●
Safe-T-Vue™ Video 10" Monitor display with 360° surround view camera system	●	●	●
Optional rail line of sight cameras	▲	▲	▲
Alarms - Automatic backup road-mode alarm, selectable electronic Warble-type alarm, blast type air horn, and amber LED strobe warning lights	●	●	●
Wheels/ Tires			
On Road -Four (4), 20 Ply 12.00 x 20 Heavy Duty Mine Service Foam Filled Tires	N/A	N/A	●
On Road - Four (4), 16 Ply 12.00 x 20 Heavy Duty, Mine Service Rubber Tires	●	●	N/A
On Rail - Four (4), 27" [685.8 mm], heat-treated, forged steel, ring-style flanged AAR profile Standard Gauge 56 1/2" [1435 mm]	●	●	N/A
On Rail - Four (4), 33" [838.2 mm], heat treated, forged steel, ring-style flanged AAR profile Standard Gauge 56 1/2" [1435 mm]	N/A	N/A	●
Sanders			
Eight (8) Individual, Air-Operated, Electronically- Controlled Sanders- 2 per wheel	●	●	●
Main Frame			
Heavy Duty -High Strength 2" [51 mm] thick welded Steel Structural Frame	●	●	N/A
With one (1) front 3" [76.2 mm] and one (1) rear 6" [152.4 mm] thick cross-member	●	●	N/A
Pivoting Frame - Heavy-duty 2" [51 mm] thick split rotating mainframe oscillates up to 10° assuring 4-wheel rail contact	●	●	N/A
Heavy Duty -High Strength welded steel with two 8" [203mm] thick ballast plates and two (2) front and rear 4" [101.6 mm] structural plates	N/A	N/A	●
Pivoting Frame - Heavy-duty 6" [152 mm] thick split rotating mainframe plate and 8" [203 mm] thick mount plate, oscillates up to 10° assuring 4-wheel rail contact	N/A	N/A	●
Body Frame - Heavy-duty all-welded construction steel plates and structural forms	●	●	●
Suspension - Durable shock resistant foundation for Body Frame, Cab			
Isolation mounts for reduced noise and vibration levels	●	●	N/A
Eight (8) isolation mounts between cab and body frame (deck), and four (4) Firestone® air bags with height adjustment between the body (deck) and main frame	●	●	N/A
Four (4) Firestone airbags and cab air-ride shock absorbers between body frame and fully suspended cab with leveling adjustment capability	N/A	N/A	●
Steering - On Road - hydraulic power steering with pivot away steering wheel	●	●	●
Standard AAR Couplers			
Two heavy-duty cast steel weight transfer design positive coupling and uncoupling with AAR contour coupler and locking knuckle.	●	●	●
Industry Leading Coupler Beam Width for adverse and severe curve radius	●	●	●
AAR, SA-3, UIC (Hook and Buffer style), Metro Train type couplers allowing dual-gauge conversion capabilities	▲	▲	▲

TRACKMOBILE SIDE-BY-SIDE MODEL COMPARISON



Tractive Effort	Viking		Hercules		Hercules Wide Cab	
Double Coupled*	42,700 lbs [19,368 kg]		44,700 - 46,000 lbs [20,276 - 20,865 kg]		44,900 - 46,200 lbs [20,367 - 20,956 kg]	
Single Coupled*	27,000 lbs [12,247 kg]		28,400 - 29,700 lbs [12,882 - 13,472 kg]		28,500 - 29,900 lbs [12,927 - 13,562 kg]	
Dimensions and Performance						
	On Rail		On Road		On Road	
Wheel Base	121" [3,792 mm]	82.5" [2,096 mm]	127" [3,226 mm]	65.4" [1,661 mm]	127" [3,226 mm]	65.4" [1,661 mm]
Rail & Road Clearance	3.5" [89 mm]	6.5" [165 mm]	4.0" [101.6 mm]	5.25" [133 mm] <small>at Flange</small>	3.5" [89 mm]	4.4" [111 mm]
Rail & Road Height ***	142" [3,607 mm]	153" [3,886 mm]	145" [3,683 mm]	153" [3,886 mm]	136" [3,459 mm]	145" [3,683 mm]
Length	155" [3,937 mm]		170" [4,318 mm]		170" [4,318 mm]	
Width	123" [3,124 mm]		123" [3,124 mm]		96" [2,438 mm]	
Machine Weight/ Ballasted Weight	34,400 lbs [15,604 kg]		36,500 - 40,400 lbs [16,556 - 18,325 kg]		37,000 - 41,400 lbs [16,782 - 18,778 kg]	
Rail Gauge**	AAR Standard 56.5" [1,435 mm]		AAR Standard 56.5" [1,435 mm]		AAR Standard 56.5" [1,435 mm]	
Centerline to Cab Side	63.47" [1,612.14 mm]		63.06" [1,601.72 mm]		48.56" [1,233 mm]	
Centerline to Non-Cab Side	59.03" [1,499.36 mm]		59.50" [1,511.3 mm]		46.56" [1,183 mm]	
Cab Interior Volume	150 cu. ft.		150 cu. ft.		248 cu. ft.	
Road Turning Radius						
Inside Tire	13' 10" [4.0m]		16' [4.9m]		16' [4.9 m]	
Outside Tire	21' 5" [6.5m]		23' 6" [8.1m]		23' 6" [8.1 m]	
Outside Clearance	23' 6" [7.2m]		27' [8.2m]		27' [8.2m]	
Speeds- Forward & Reverse****	On Rail			On Road		
Low Gear	2.4 MPH, [3.9 km/h]			1.5 MPH, [2.4 km/h]		
2nd Gear	4.0 MPH, [6.4 km/h]			2.5 MPH, [4.0 km/h]		
3rd Gear	8.0 MPH, [12.8 km/h]			5.1 MPH, [8.2 km/h]		
4th Gear	13.6 MPH, [21.9 km/h]			8.7 MPH, [14.0 km/h]		

TIER IV ENGINES ADD APPROXIMATELY 8" [20 cm] ADDITIONAL HEIGHT.

- * Depending on weight package option, actual tractive effort may vary with rail and weather conditions.
- ** Rail Gauges available in a various sizes, speak to your local dealer regarding any special rail gauge requirements.
- *** For shipping purposes, add 1.5" (38 mm) to Rail height for a 2 x 4 block under wheel tread. Option selections may change dimensional data.
- ****Actual speeds obtained will depend on grade, load, altitude, and other factors.

TRACKMOBILE SIDE-BY-SIDE MODEL COMPARISON



Tractive Effort	Titan		Titan with Ad-Trac		Atlas	
Double Coupled*	49,500 lbs [22,453 kg]		52,000 lbs [23,587 kg]		60,200 lbs [27,306 kg]	
Single Coupled*	33,100 lbs [15,004 kg]		38,000 lbs [17,237 kg]		43,900 lbs [19,913 kg]	
Dimensions and Performance						
	On Rail		On Road		On Road	
Wheel Base	149" [3,792 mm]	82.5" [2,096 mm]	149" [3,792 mm]	82.5" [2,096 mm]	157.4" [3,997 mm]	89.2" [2,265 mm]
Rail & Road Clearance	4.0" [102 mm]	9" [248 mm]	4.0" [101.6 mm]	9" [248 mm] <small>at Flange</small>	3.75" [95.25 mm]	11.8" [300 mm]
Rail & Road Height ***	154.2" [3,917 mm]	165" [4,191 mm]	154.2" [3,917 mm]	165" [4,191 mm]	150.25" [3,816 mm]	162.6" [4,131 mm]
Length	201" [5,105 mm]		201" [5,105 mm]		220" [5,588 mm]	
Width	123" [3,124 mm]		123" [3,124 mm]		123" [3,124 mm]	
Machine Weight	50,900 lbs [23,088 kg]		51,500 lbs [23,360 kg]		83,500 lbs [37,875 kg]	
Rail Gauge**	AAR Standard 56.5" [1,435 mm]		AAR Standard 56.5" [1,435 mm]		AAR Standard 56.5" [1,435 mm]	
Centerline to Cab Side	63.25" [1,606.55 mm]		63.25" [1,606.55 mm]		63.25" [1,606.55 mm]	
Centerline to Non-Cab Side	59.66" [1,515.36 mm]		59.66" [1,515.36 mm]		59.66" [1,515.36 mm]	
Cab Interior Volume	199 cu.ft.		199 cu.ft.		199 cu.ft.	
Road Turning Radius						
Inside Tire	17' 10" [5.3m]		17' 10" [5.3m]		17' 10" [5.3m]*****	
Outside Tire	25' 7" [7.6m]		25' 7" [7.6m]		25' 7" [7.6m]*****	
Outside Clearance	29' 7" [8.5m]		29' 7" [8.5m]		29' 7" [8.5m]*****	
Speeds- Forward & Reverse****	On Rail		On Road		On Road	
Low Gear	2.4 MPH, [3.9 km/h]		1.5 MPH, [2.4 km/h]		2.0 MPH, [3.2 km/h]	1.0 MPH, [1.6 km/h]
2nd Gear	4.0 MPH, [6.4 km/h]		2.5 MPH, [4.0 km/h]		3.9 MPH, [6.3 km/h]	1.9 MPH, [3.1 km/h]
3rd Gear	8.0 MPH, [12.8 km/h]		5.1 MPH, [8.2 km/h]		7.8 MPH, [12.6 km/h]	3.8 MPH, [6.1 km/h]
4th Gear	13.6 MPH, [21.9 km/h]		8.7 MPH, [14.0 km/h]		15.0 MPH, [24.1 km/h]	7.2 MPH, [11.6 km/h]

TIER IV ENGINES ADD APPROXIMATELY 5" TO PUBLISHED MACHINE HEIGHT LISTED ABOVE.

- * Depending on weight package option, actual tractive effort may vary with rail and weather conditions.
- ** Rail Gauges available in a various sizes, speak to your local dealer regarding any special rail gauge requirements.
- *** For shipping purposes, add 1.5" (38 mm) to Rail height for a 2 x 4 block under wheel tread. Option selections may change dimensional data.
- ****Actual speeds obtained will depend on grade, load, altitude, and other factors.
- *****Actual in-use performance ratings pending.

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