

With up to 17,139 lbs. of off-road payload capacity, ACELA's extreme-duty, high-mobility 4x4 Monterra is the most capable, versatile and reliable wheeled vehicle solution available in the commercial market today, designed specifically to dramatically improve operational capabilities and job site productivity.



Originally designed for the U.S. Army for use in extreme terrain and weather conditions, the Monterra is outfitted with the industry's most dependable components and design features, including drivetrains, frames, axles, suspensions, and tires that were specifically designed to withstand the rigors of the harshest and most extreme terrains, including field combat, surface mining, pipeline construction, emergency response, and oil and gas exploration. For over 17 years, it has achieved the U.S. Army's coveted "ultra-reliability" certification. Simply put, the Monterra consistently outperforms every other wheeled vehicle in its class in virtually every environment.

When fully-loaded, the Monterra boasts a whopping 8-inches more ground clearance than any other truck in its class, providing access to areas where other trucks can't operate.

With all Monterra parts commercially available, ACELA's after-sales support is second to none. We're here to support your operation with our world-class technical expertise, and can provide same-day shipping of virtually any part.

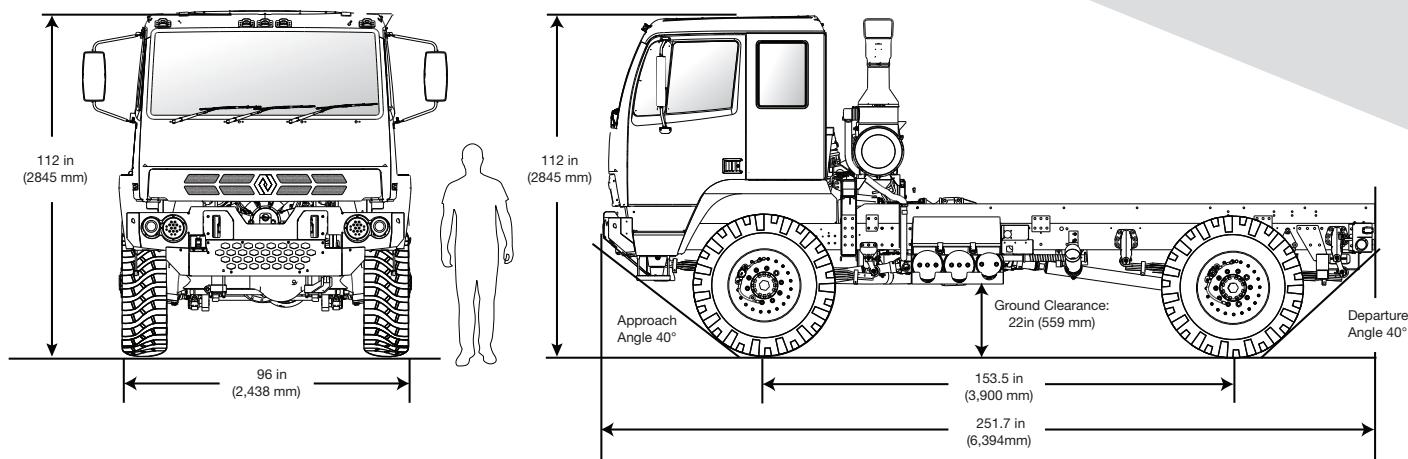
If you're ready for a dependable, proven, all-in-one job site solution that keeps your operations running smoothly, the ACELA Monterra is your only choice.

Key Features

- Full-Time All-Wheel Drive
- 330HP Caterpillar 7.2L Turbo-Charged Diesel Engine
- Allison Automatic 7-Speed Transmission
- Top Speed up to 74 MPH (119 km/h)
- Multiple 4x4 and 6x6 Variants with 90% Parts Commonality
- U.S. Army "Ultra-Reliable" Certification
- 22" Ground Clearance
- Air-Ride Seating

Popular Options

- High-Speed Gearing
- 3-Person Cab
- Back-up Camera
- Back-up Alarm
- Central Tire Inflation System (CTIS)
- Upfitter Switches
- Snow Plow



VEHICLE SPECIFICATIONS

Dimensional Data

Width	96 in	(2,438 mm)
Height	112 in	(2,845 mm)
Pintle Height (Laden/Unladen)	33.5/36 in	(851/905 mm)
Length	252 in	(6,401 mm)
Wheelbase	153.5 in	(4,100 mm)
Cab to Axle ¹	107.2 in	(3,125 mm)
Turning Radius	55.4 ft	(16.9 m)
Ground Clearance		
Loaded	22 in	(559 mm)
Under Axle	14.4 in	(365 mm)
Approach/Departure Angles*	40°/40°	
Curb Weight (with Fuel)*	14,601 lb	(6,623 kg)
GVWR*	23,600-31,740 lb	(10,705-14,397 kg)
Payload*	8,999-17,139 lb	(4,082-7,774 kg)
Maximum Towed Load	12,000 lb	(5,443 kg)
Maximum Speed	58 MPH	(94 km/h)
(Standard Gearing)		
Maximum Speed	74 MPH	(119 km/h)
(Optional High Speed Gearing)		
Fuel Tank	58 gal	(220 L)
Range	400+ mi	(645+ km)
Maximum Grade/Side Slope	60% / 30%	
Water Fording Depth	30 in	(762 mm)

Axles, Meritor RF-611 Series

Front	14,700 lb (6,668 kg) GAWR
Rear	18,740 lb (8,500 kg) GAWR
Locker	Automatic, Detroit Style, Rear Axle
Carrier	Single Reduction, Amboid-Gearing
Wheel End	Bevel Wheel End Reduction, Ratio 2:1
Final Gear Ratio	Standard: 7.80:1
Optional: 6.14:1 Available	
Front Axle	35°
Steering Angle	

Steering	Power Assisted, Recirculating Ball, Adjustable Tilt Wheel
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Suspension	Parabolic-Tapered Leaf Springs with Hydraulic Twin-Tube Shock Absorbers
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Brakes

Primary	Dual-Circuit, Four-Channel Air, Anti-Lock Braking System (ABS)
Supplemental	Air-Actuated, Driver Controlled Exhaust "Jake" Brake

Tires	46 in GoodYear MV/T, 14-Ply, 81MPH-Rated, Load-Range G Super-Singles (9,370 lb (4,250 kg) Max. load rating)
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Spare	Rack-Mounted, Hydraulic Lift
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Central Tire Inflation System (CTIS) (Optional)

General	Cab-Mounted Electronic Controls, Operable While Driving in Highway, Cross-Country, Sand/Mud/Snow, and Emergency Modes
Pressure Range	17-85 PSI (1.1-6.6 Bar)

Electrical

System	Dual Voltage, 12/24VDC, Central Power Distribution Panel
Alternator	100 amp, 12/24 volt, Waterproof, EMI/RFI Suppressed
Starter	24 VDC, Waterproof
Batteries	(4) 6T Commercial Batteries, 3000 CCA, 480 CA
Exterior Lighting	C/FMVSS Compliant, Ships with Temp. Rear Lighting

Cab

General	Extended Cab-Over Design
Trim	Commercial-Grade Trim Package, Heavy-Duty Heat and Sound Insulation
Entertainment	AM/FM/DVD 6.2" Touchscreen Stereo
Power	(2) 2.1A USB Power Ports, (1) 12VDC Cig. Style Plug
Seating	2-Person, Adjustable, High-Back, Air-Ride Seats (3-Person Optional)
Mechanical Access	Electric/Hydraulic Tilt
HVAC	47,000 BTU/Hr (13.8 kw) Heating Capacity 29,900 BTU/Hr (8.8 kw) Cooling Capacity Airflow 334 SCFM 9.5 m³/min

EQUIPMENT SPECIFICATIONS

Engine

Caterpillar 3126/C7*	6-Cylinder, 7.2 L, Electronically Controlled, Fuel-Injected, Turbocharged and Aftercooled, EPA Certified
Rating	330 HP (246 kW) @ 2400 RPM
Displacement	441 cu in (7.2 L)
Torque	860 ft-lb (1,166 Nm) @ 1440 RPM
Fuel Type	Diesel
Lubricant	15W40, Synthetic Blend

Transmission

Allison MD 3700/3070SP	Automatic, 7-speed, Electronically-Controlled, Power Take Off
Full-Time AWD	Integral Transfer Case
Torque Split	Normal Operations: 30% Front / 70% Rear Off-Road Mode: 50% Front / 50% Rear
Lubricant	ATF, 31.8 qt (30 L)

*Model Dependant

¹Measured From Aft Lateral Frame Support

Acela Truck Company

1-800-940-0508

info@acelatruck.com

