

The Acela Straya is the most capable Class 5 truck chassis available in North America. The first 4x4, high-mobility commercial vehicle available with cab-over design and military-grade performance, it offers best in class maneuverability and visibility and off-highway capabilities for use in the most demanding work environments



Built from the Isuzu NRR base chassis, Acela Truck Company has leveraged its expansive defense vehicle manufacturing experience to incorporate military vehicle components and capabilities with Isuzu's ultra reliable chassis to create the ACELA Straya for extreme commercial and governmental applications.

The new ACELA Straya is equipped with the Meritor 3000 Series axles featuring the field-proven US Military production wheel-ends currently as used on the US Army's Joint Light Tactical Vehicle (JLTV), as well as Driver-Controlled Differential Lockers (DCDL) and 41-inch military tires.

Straya is the only new commercial vehicle in North America with available onboard Central Tire Inflation System (CTIS), a driver-controlled push-button capability that adjusts tire pressures on driver demand from 95 to 17 PSI – a feature that is almost exclusively found in military vehicles. CTIS allows the Straya to be driven on-highway, at highway speeds, and off-highway through sandy, swampy, snowy, steep, washboard or other challenging terrain. In off-highway conditions, the lower tire pressure settings allow the Straya to mimic tracked vehicle performance, replacing the need to transport slow and expensive tracked vehicles to the worksite.

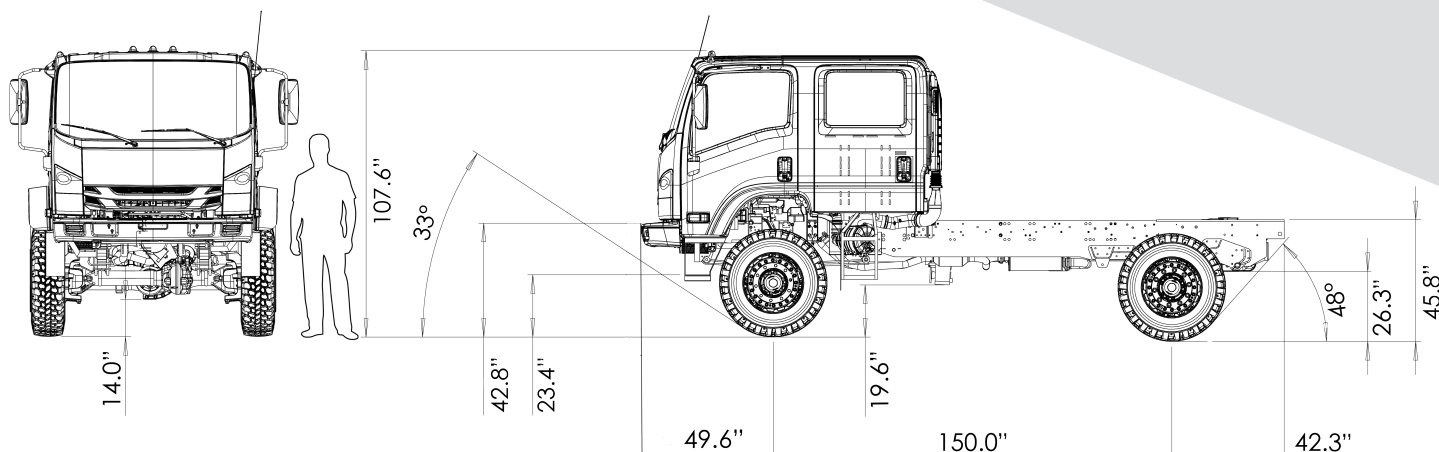
The Straya's cab-over design offers the best chassis "real estate-to-wheelbase" ratio, maximum driver visibility and an extremely small turning radius of 49.9 feet (150-inch wheelbase with a 12-foot body), providing maximum maneuverability and significantly differentiating it from other commercial truck models.

## Key Features

- Meritor 3000-Series Military Axles
- Drive-Controlled Differential Lockers (DCDL)
- 41" Military Tires
- Up to 41" of Water Fording Capability
- 19.6" Ground Clearance (at Transfer Case)

## Popular Options

- Single or Crew-Cab Configurations
- Seating Up to 7 People
- Central Tire Inflation System (CTIS)
- Back-up Camera
- Back-up Alarm
- Upfitter Switches
- Snow Plow



### VEHICLE SPECIFICATIONS

#### Dimensional Data

Wheelbase	150 in	(3,810 mm)
Overall Width (Excluding Mirrors)	94 in	(2,387 mm)
Overall Height	108 in	(2,743 mm)
Overall Length	241.5 in	(6,134 mm)
Cab to Axle*	83.5 in	(2,070 mm)
Turning Radius (Curb to Curb)	49.9 ft	(15.2 m)
Ground Clearance		
At Transfer Case	19.6 in	(498 mm)
At Axle	14.4 in	(366 mm)
Approach/Departure Angles*	39°/48°	
Wheel Track	78°	
Curb Weight (with Fuel)*	8,750 lb	(3,969 kg)
GVWR*	19,500 lb	(8,845 kg)
GAWR, Front	9,900 lb	(4,490 kg)
GAWR, Rear	13,500 lb	(6,123 kg)
GCWR	25,500 lb.	(11,567 kg)
Maximum Payload*	10,750 lb	(4,976 kg)
Reinforced Frame Section Modulus	33.5 in <sup>3</sup>	
Reinforced Frame RBM	1,474,078 in*lb	
Fuel Tank	38.6 gal	(146 L)
Water Fording Depth	20 in	(508 mm)
High Water Fording (Optional)	41 in	(914 mm)

### EQUIPMENT SPECIFICATIONS

Engine	
PSI Chevy Vortec V8 *	LNJ, 8- Cylinder, V-Block 4-cycle, OHV, Electronically-controlled, sequential port fuel injection
Rating	311 HP (232 kW) @ 4,900 RPM
Displacement	365 cu in (6.0 L)
Torque (2HI/4HI)	353lb-ft. (478.6Nm) @ 4,150 RPM
Torque (4LO)	900lb-ft. (1200Nm) @ 4,150 RPM
Fuel Type	Gasoline
Transmission	
Allison LCT 1000	6-Speed Automatic, Electronically- Controlled, Power Take Off, 5th-Gen Electronic Controls
PTO	Dual PTO Capable, Torque Converter-Driven Spur Gear, Six-bolt, 3 O'clock and 9 O'clock Positions, 64 Tooth, 1:1 Ratio
Transfer Case	New Venture NV273, Severe-Duty 34-Spline, Synchronized Gearing for Shift On-the-Fly
Transfer Case Ratio	2.72:1
Selectable Transfer Case Gears	2H, 4H, N, 4L
Transfer Case Selection Type	Electronic shift on the fly (ESOF), touchscreen controlled with safety lockouts

\*Cab to Axle is measure from 7" behind the actual cab to allow for proper air intake clearance

\*\* Maximum speed may be restricted due to tire rating

\*\*\* All dimensions provided with CTIS in Highway Mode (95 PSI)

### Axles, Meritor 3000-Series Beam Style Military Axles, CTIS Capable

Axle Rating, Front	12,000 lb. (5,443 kg)
Axle Rating, Rear	14,7900 lb. (6,667 kg)
Final Drive Ratio (Hi/Lo)	6.5:1
Locker, Rear	Driver Controlled Differential Lock (DCDL), Electronically activated touchscreen controlled with safety lockout
Locker, Front (Optional)	Driver Controlled Differential Lock (DCDL), Electronically activated touchscreen controlled with safety lockout
Hubs	2:1 Reduction, automatic locking
Carrier	Single Reduction, Amboid-Gearing Bevel
Wheel End Ratio Front	Bevel Reduction, 2.0:1 Ratio
Front Axle Steering Angle	33.5°
Drivelines	Sealed and Maintenance-Free Double CV Joints
Suspension	Tapered Parabolic Leaf Springs with Hydraulic Twin-Tube Shock Absorbers
Tires	Continental MPT81- 335/80R20 (41 in.), 68 MPH-rated super singles (6,779 lb. @ 95 PSI)
Wheels	2-Piece aluminum, 11x20, CTIS-capable
Type	Meritor Quadraulic 4-piston hydraulic brakes
ABS	4-Channel
Testing	C/FMVSS-105 Certified

### Central Tire Inflation System (CTIS) (Optional)

Controls	Driver-Controlled touchscreen controls, settings Highway, Cross-Country, Mud/Sand/Snow, and Emergency modes
Compressor	10 CFM, belt-driven
Tire Pressure Range	17-95 PSI (1.2-6.6 Bar)
Electrical	
Alternator	145A, 12V
Battery	(1) Group 3, 750 CCA, Maintenance-Free
Instrumentation	Can Bus-Driven Instrument Cluster
Exterior Lighting	Ships with Temporary Rear STT Lighting
Power	(2) 12VDC Cigarette Style Power Ports, (1) USB 2.0 Port
Rear Body/ Bed Light Switch	Dash-Mounted, Backlit, Illuminated When Activated
General Mirrors	Heated, Remote Controlled, Foldable
Entertainment	AM/FM/CS/USB/BT/AUX Stereo (Upgraded Stereo and Statellite Radio Available)
Auxiliary Upfitter and Accessory Controls	Canbus-Driven Multiplexing Touchscreen Controls, Upfitter Expandable
Seating	2-7 Person, Adjustable, High-Back river & Front Passenger
Steering Wheel	Fully Adjustable (Up/Down, Forward, Aft)
Interior Storage, Convenience	Cup Holders, Overhead Storage Tray, Glove Box
Onboard Air	12 VDC-Powered Air Compressor, 1 Gallon Air Tank