MV™ SERIES

MV INTERNATIONAL™

THE NEW INTERNATIONAL® MV™ SERIES.

DELIVERING UPTIME
DAY IN AND DAY OUT.

INTRODUCING THE NEW INTERNATIONAL® MV™ SERIES.

There's a new medium duty truck that's built with everything you need to conquer your daily grind. It's designed and engineered to set new standards for quality and productivity, with a durable, spacious cab crafted through driver input for optimal comfort and control. The MV Series offers a choice of dependable Cummins® engines and the industry-leading intelligence of the Diamond Logic® electrical system to help protect both your crew and your equipment.

The MV Series is built smarter to work harder for you – all day, every day.

MV INTERNATIONAL™

DRIVERFIRST™ | INTEGRATION | QUALITY | CONNECTED

CHOOSE YOUR CONFIGURATION, UNLEASH YOUR PRODUCTIVITY.

Your demanding jobs need trucks that are engineered to squeeze the most out of every work day. That's why the MV™ Series has a broad range of applications to maximize productivity. With two proven Cummins® engines, three cab sizes, a choice of 4x2 or 6x4 axle configurations plus our unmatched expertise in delivering the specifications to suit your application, the MV Series can be dialed in to deliver precisely what you need.

MV
INTERNATIONAL

DRIVERFIRST™ — DESIGNED AROUND A DRIVER'S KEY NEEDS.

Everything in the new International® MV™ Series is designed to help the driver be more comfortable, productive and safe. It's the result of listening to extensive feedback from drivers and body companies to design and build a truck that prioritizes all their needs – a philosophy we call DriverFirst.

This driver-centric approach starts with the roomy cab and then sweats all the details – including a powerful new HVAC system. Controls and switches are configured to be easy to find, reach and operate, even when wearing gloves. Visibility has been enhanced, including door-mounted mirrors positioned to see more while turning your head less to reduce fatigue. Even the air horn lanyard is placed exactly where drivers told us they prefer it to be.

PRODUCTIVE THINKING EVERYWHERE YOU LOOK.

Every detail inside the MV™ Series cab has been researched, redesigned and extensively tested working with the real experts – drivers and body companies that need to deliver on the road or on the jobsite. The final result is a true collaboration of those who know what it takes to be productive and successful.

Cab Features	Classic	Diamond
Cab Trim Panels	Easy to Clean Soft Touch Vinyl	Easy to Clean Soft Touch Vinyl
Door Trim	Single piece door panel with integrated door pocket	Padded Gray Soft Touch Panels, available with Black Cherry accents
Trim Inserts	Neutral	Woodgrain - Optional Black Cherry Door Toppers*
Instrument Panel	Black	Black
Gauge Cluster	8-gauge, 3.5" Display with Odometer and Trip Optional: Premium 8-Gauge, 5" Color Display with Virtual Gauges and Integrated Telemetry	8-gauge, 3.5" Display with Odometer and Trip Optional: Premium 8-Gauge, 5" Color Display with Virtual Gauges and Integrated Telemetry
Accent Color	Neutral	Neutral: Optional: Black Cherry
Sun Visors	Two	Two
Lighting	LED	LED
Window Controls	Manual or Power	Power
Lock Controls	Manual or Power	Power
Cup / Bottle Holders	Four	Four
Overhead Console	Molded Plastic with Retainer Nets and CB Radio Housing	Molded Plastic with Retainer Nets and CB Radio Housing
USB Accessory Port	Up to 5 Available	Up to 5 Available

1. The all-new steering wheel adds more functions at the driver's fingertips with integrated back-lit, laser etched labeling for improved durability and visibility. Plus, all the controls within the cab are designed to be operated easily while wearing gloves.

2. An available flat instrument panel includes a center-mounted vent to keep the middle passenger cool while providing space for extra legroom or a large floor-mounted body control module.

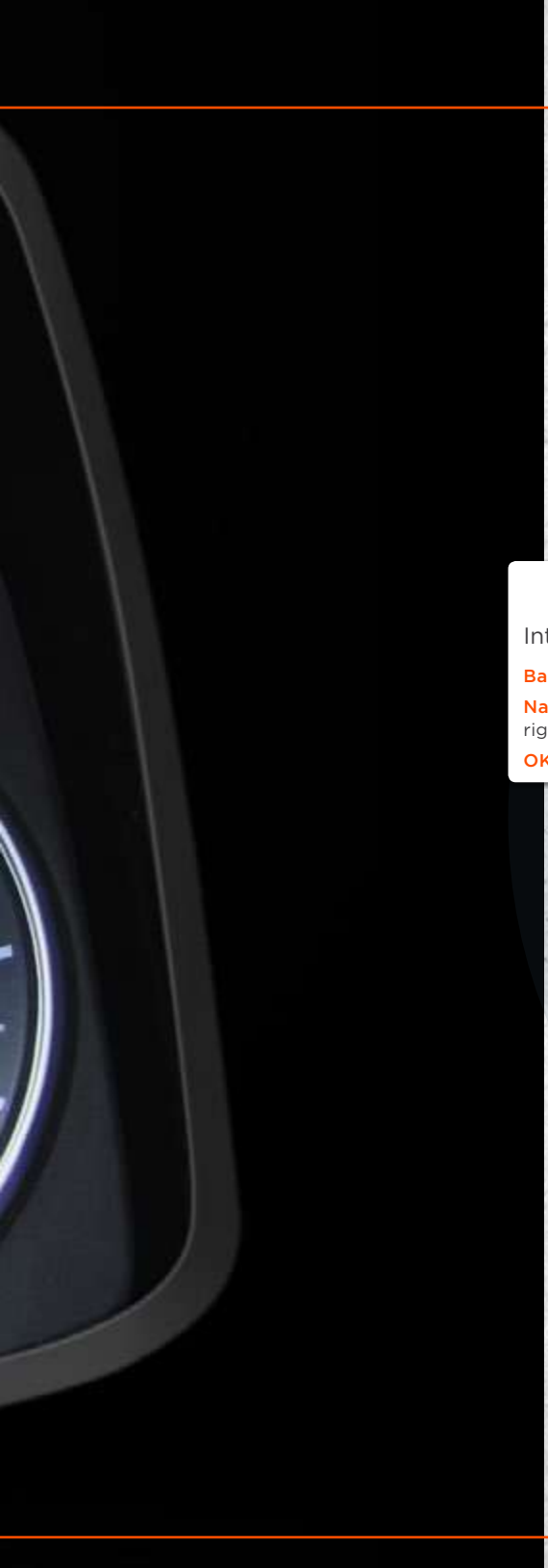
3. The innovative new shifter is mounted on the steering column, allowing the driver to easily reach and smoothly operate shifting and engine braking while keeping their eyes on the road and hands on the wheel.**

4. Factory-installed switches with custom labels are optimally positioned to use with integrated equipment:
   - Up to 30 customizable, user-replaceable switches are available for any application
   - Large, easy-to-read backlit text
   - Warning lights can be any of seven colors
   - One common switch pack for wiring simplicity
   - Any switch can be relocated by the customer without wiring changes
   - Blank "windows" available for custom labeling by the customer

* Woodgrain available on Wing Panel only
** Available with Eaton Procission, Eaton AMT and Allison 3000

ADVANTAGES YOU CAN SEE CLEARLY.

Uptime is much more than simply being able to work – It means giving your drivers the tools they need to be seriously productive. That's why MV™ Series gauges were tested, refined and tested again to ensure optimal readability, usability and positioning. The color, illumination, legibility and even the type font and size of gauges is designed to deliver optimal viewing in varying light conditions. All key information is precisely where it needs to be to view without distraction, maximizing driver alertness and confidence.



Intuitive controls allow you to easily navigate between digital screens.

Back Button - navigate to previous page/sub category and then to main home screen

Navigation Button – navigate up and down to move within categories, navigate left or right to access the main menu and to move from one category to another

OK/Reset Button – select a highlighted category or hold for 3 seconds to reset the item

The premium gauge cluster includes a customizable digital display with a wealth of information, including:

- Axle load*
- Safety indicators*
- Custom gauge settings*
- Digital speedometer
- Tire pressure*
- Additional virtual gauge options

* When added with optional feature code for required sensors.

UPTIME THAT'S BUILT TO BE BULLETPROOF.

The International® MV™ Series is the go-to solution for vocations where uptime matters most. From armored trucks to leasing fleets, emergency vehicles to utility trucks, whatever the worksite or job description, the MV Series is engineered to deliver the maximum return on your investment.

MV SERIES FEATURES:

- A high-strength, low-alloy (HSLA) reinforced, cold-rolled steel cab delivers superior corrosion resistance as well as world-class fit and finish
- The welded cab assembly is dipped into an electrostatically applied primer as part of a paint process that provides outstanding resistance to corrosion and fading, and it's backed by a 5-year perforation corrosion warranty

Standard breakaway mirrors minimize cab and door damage

Huck® Bolt chassis fasteners provide consistently superior clamping force without re-torqueing, and won't come loose even in extreme environments

Key fluid reservoirs are translucent for quick inspection and many of the caps are tethered, saving time and frustration from dropped or lost caps

In-cab electrical panel is protected from the elements and conveniently located under spill-resistant dash panel

One continuous piece of steel surrounds the entire door frame for superior structural integrity, durability and sealing

Routine service points are clearly labeled and easily accessed under the hood

Even a rock-solid truck like the MV™ Series requires timely service. Fortunately, you'll experience quick turnaround time in your service bay or at any of the over 700 International® dealer locations across the U.S. and Canada.

- 3-piece hood is easy to lift and enables single-panel replacement for lower repair costs

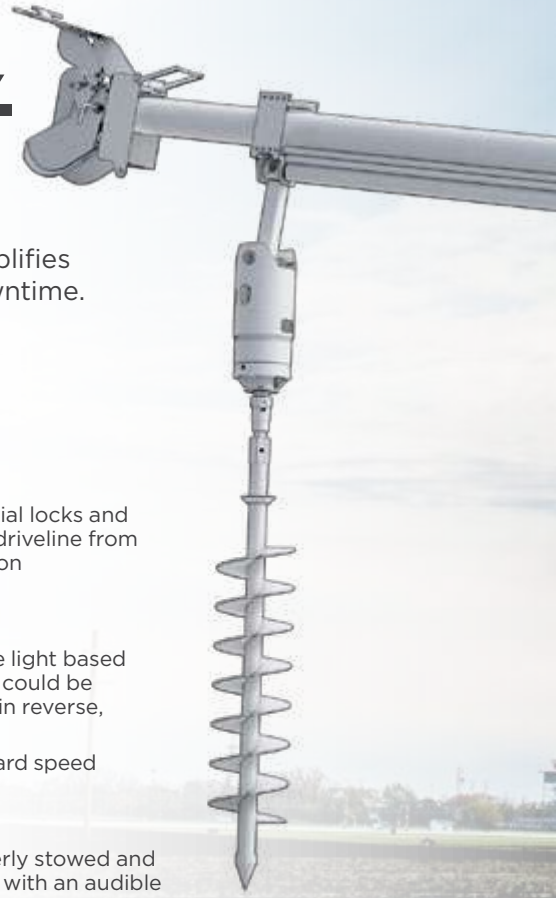
International cabs, extended cabs and crew cabs pass the rigorous SAE J2422 cab roof strength test as well as the standard European ECE 29 roof strength requirement, which tests for a uniform vertical load applied to the roof. SAE J2422 also tests for angled side loads which is a National Fire Protection Association (NFPA) requirement

DIAMOND LOGIC®.

ADVANCING THE SCIENCE OF PRODUCTIVITY.

The MV™ Series includes the International® truck Diamond Logic® electrical system, widely considered the most advanced in the industry. Diamond Logic streamlines chassis and body equipment integration and allows you or your driver to program automated tasks. This means more consistent performance and increased equipment protection and crew safety. It's easy to spec, simplifies integration, and includes on-board diagnostics that self-monitor vehicle components to reduce downtime.

You even have the ability to write custom logic for your application through Diamond Logic Builder.



1 Body Controller

- Heart of the Diamond Logic System. Performs all body integration software execution to maximize safety, performance and ease of equipment installation

2 Switch Packs

- All switches are controlled via 6 wires
- Blinking switch indicators provide equipment status
- Switches can be moved without moving wiring
- Up to seven colors of lights can be used

3 PTO Power Take Off

- Engagement and disengagement based on chassis and body conditions (engine speed, road speed, outrigger deployed before boom can raise, park brake set, transmission in neutral, etc.)
- Certain data links can be used as an interlock including RPM, MPH, Park Brake and gear position
- Engine speed can be controlled (in most cases) while using the PTO with no additional wiring needed

4 Remote Power Modules

- All 12-volt outputs are automatically fused (auto-resettable) with solid state technology

5 Outriggers

- Diamond Logic can sense when they are not properly stowed and will illuminate an indicator light in the switch packs while sounding an audible alarm

6 Differential Lock

- Diamond Logic can control when the axle differential locks and unlocks depending on road speed, protecting the driveline from damage due to excessive speeds in a locked position

7 Work Light

- Diamond Logic can automatically turn on or off the light based on chassis functions (for example: rear-facing light could be programed to turn on any time the transmission is in reverse, adding additional lighting)
- Automatically shut off the light based on a set forward speed

8 Boom Hydraulics

- Diamond Logic can sense when they are not properly stowed and will illuminate an indicator light in the switch packs with an audible alarm

9 Pre-Trip Light Inspections

- Driver can press a button and all the exterior lights will blink in sequence, allowing daily DOT light inspection with just one person

10 Solenoid Air Packs

- Air can be turned on with a switch in the dash or controlled based on chassis and/or body functions (for example: tailgate air lock in dump applications can be programmed to not unlock unless the truck is driving below a certain speed)

MV™ Series features a programmable key fob that allows two Diamond Logic tasks to be activated with the push of a button

1. Order from nearly 200 preprogrammed tasks

WAYS TO USE DIAMOND LOGIC®

2. Work with International® to create custom tasks

3. International can train and certify your technicians on Diamond Logic Builder software to independently program new tasks

DIAMOND LOGIC BUILDER

MV™ Series customers have the ability to write custom logic so Diamond Logic can be easily expanded, configured and updated in the field to meet specific application requirements.

SAFETY AND PRECISION FOR ANY APPLICATION. THE RIGHT SYSTEM FOR ANY TASK.

Whether you're looking for an efficient, cost-effective solution for your municipality, a Truck Equipment Manufacturer (TEM) looking for a rock-solid foundation to build on, or a construction company wanting the toughest in the business, the MV™ Series combined with the Diamond Logic® System will get the job done with safety and precision others simply can't match.

UTILITY

- Body Lighting
  - Wiring is located back of the cab at the frame and includes sealed connectors for Tail/Amber Turn/ Marker/Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn
- Remote Engine Speed Control
  - Remote-mounted body builder interface wiring for engine speed control with Cummins® ISB engines
- Power Take Off Control
  - Electric control with dash-mounted switch, Includes audible alarm and indicator light in gauge cluster - Provides safe control of the power take off with multiple interlocks

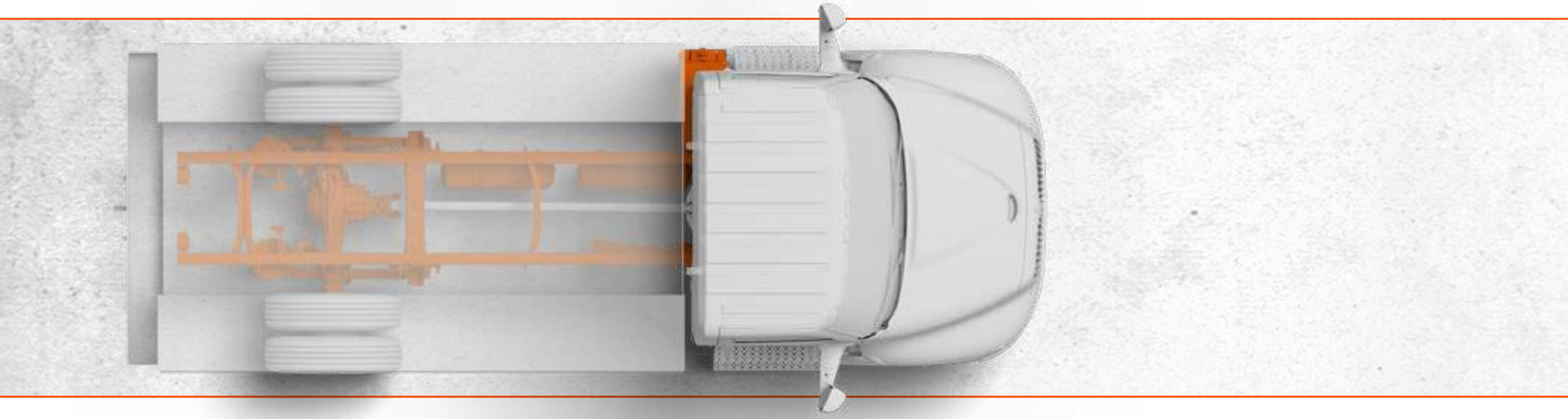
RECOVERY

- Wig-Wag Headlights
  - Hi-Beam with park brake interlock. Park brake disables hi-beam wig wag, enables low-beam wig wag
- High Amperage Switch
  - Control one auxiliary load up to 40 Amps with a factory-installed switch for a high amperage load such as a light bar. Power available in "IGNITION" or "ACCESSORY" key states

FIT TO BE UPFITTED.

The more specialized your needs, the more we deliver with an unmatched application expertise paired with virtually unlimited upfit capabilities. Your dealer can work directly with International® engineers, allowing you to order the specific foundation needed for your application up-front – substantially reducing the time and expense of upfitting the vehicle post-production.

Every MV™ Series truck starts with a huck-bolted frame and cross member system to deliver maximum vocational durability as well as a number of frame rail options. Air tanks, fuel tanks, battery boxes and exhaust systems can all be mounted in various positions to better align with your application. The MV Series is also available with a clean Cab-to-Axle (CA) configuration to minimize costly post-production modifications.



Body Company Benefits:

- Custom frame piercing to minimize open holes and maximize frame strength
- Optional full length outer frame reinforcements
- Huck-bolted frame ladder for durability and dependability
- Extensive number of wheelbases to accommodate any application
- A clean cab-to-axle configuration (Clean CA).

INTERNATIONAL® TRUCK SPECIALTY CENTERS PROVIDE QUICK, EFFICIENT AND COST-EFFECTIVE CUSTOMIZATION:

- Modifications covered under manufacturer's warranty
- Process supervised by International engineers to ensure factory production-level quality
- Expertise to identify and resolve problems quickly
- Optimized delivery cycle times and comprehensive factory support

MV607 REGULAR CAB

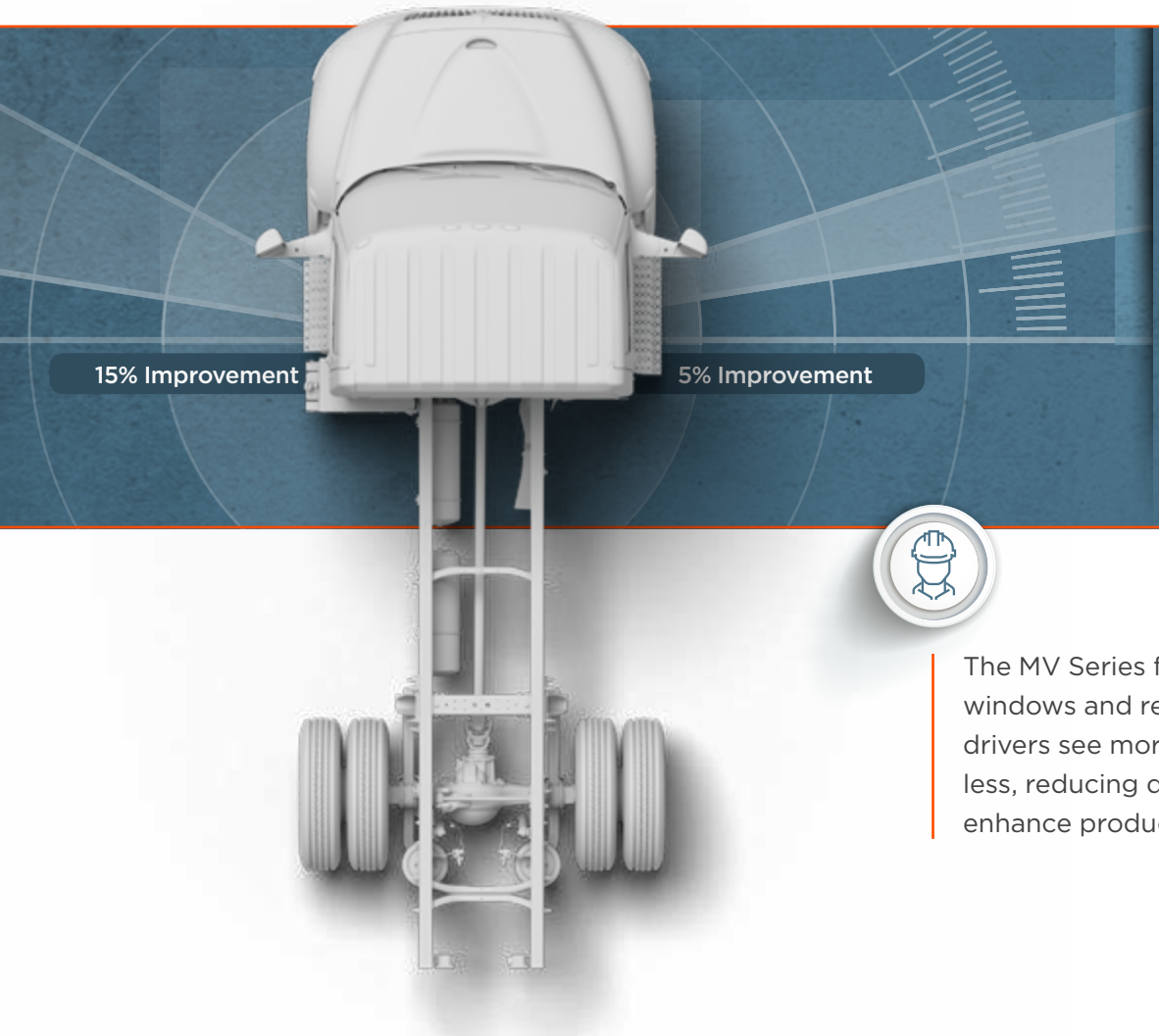
MV607 EXTENDED CAB

MV607 CREW CAB

SAFER. BY DESIGN.

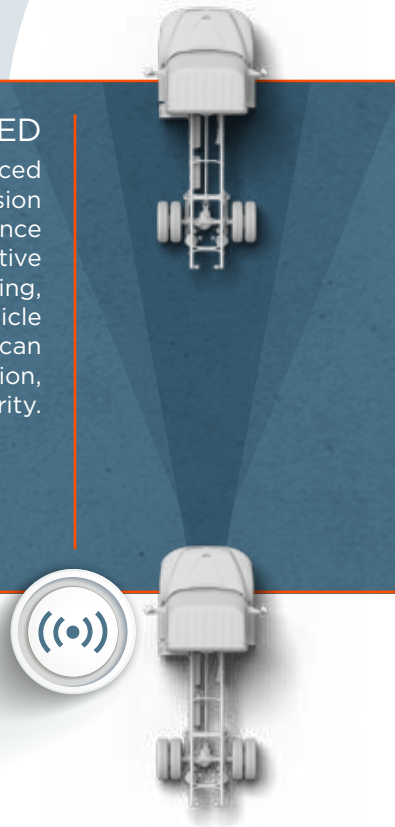
The MV™ Series is built with safety as a top priority. It's the result of extensive studies into how drivers can stay safe and productive in a broad range of situations on the road or around a jobsite.

Safety often comes down to seeing potential hazards and successfully avoiding them. That's why the MV Series provides improved side windows and mirrors for enhanced visibility, plus outstanding maneuverability with an inside wheel cut of up to 50°. An industry-leading HVAC system with MAX defrost can clear 100% of the windshield in under 30 minutes at 0ºF. Plus there's traction control to help drivers maintain control during heavy braking and on slick roads.

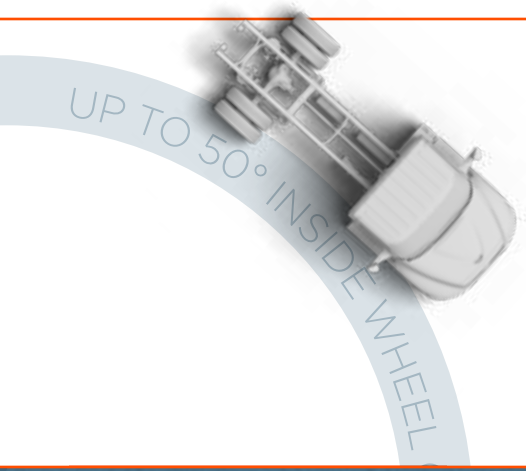


BENDIX® WINGMAN® ADVANCED

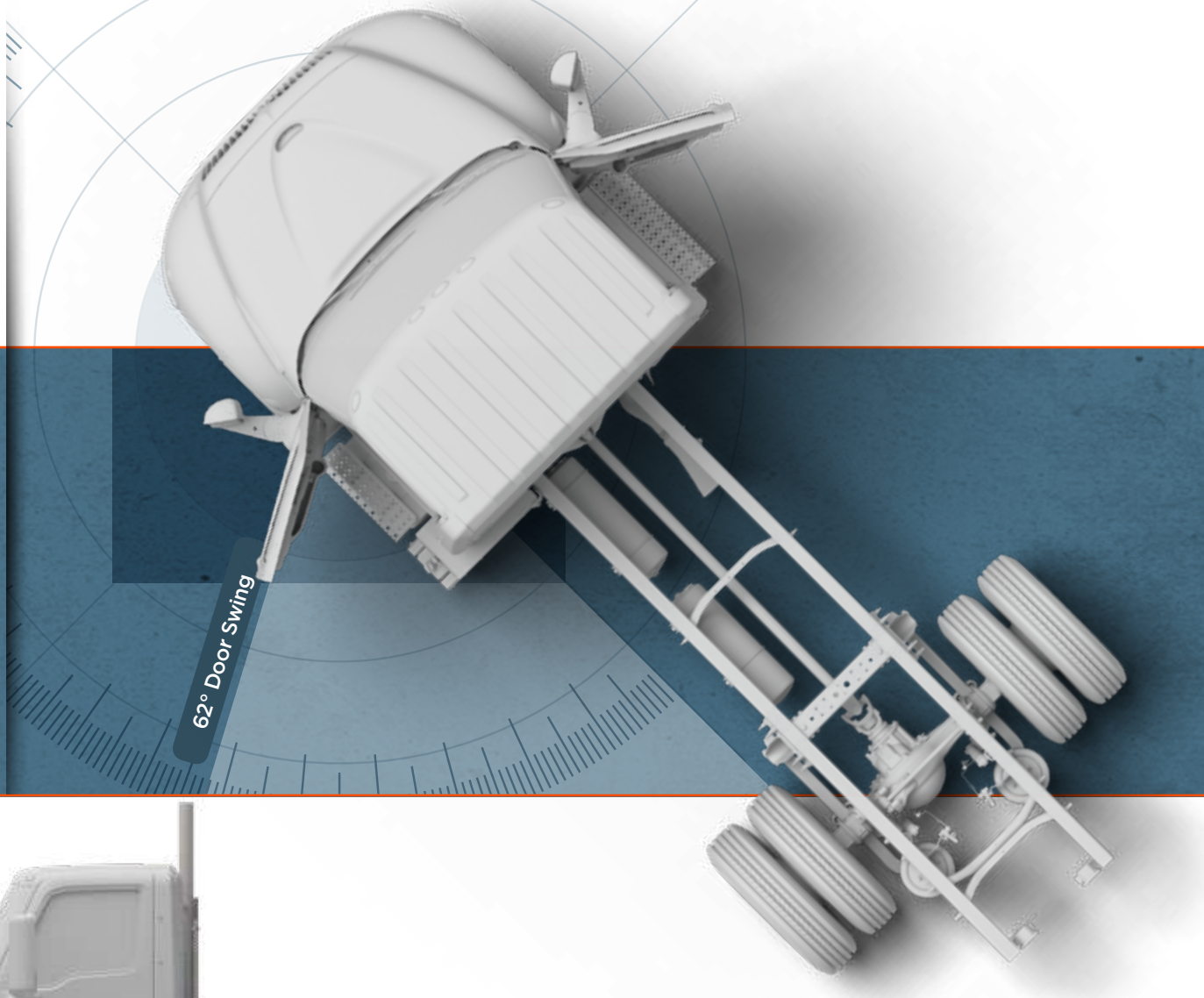
The available Bendix Wingman Advanced and Bendix Wingman Fusion collision mitigation systems can greatly enhance operator safety. By integrating adaptive cruise control, lane departure warning, over-speed alert and stationary vehicle braking, these cutting-edge systems can help the driver potentially avoid a collision, or help reduce its severity.



The MV Series features new one-piece side windows and repositioned cab mirrors to help drivers see more while turning their heads less, reducing driver stress and neck strain to enhance productivity.



Drivers typically get in and out of their truck many times over the course of a work day, and studies show that one of the main causes of driver injury occurs from slip and falls while entering or exiting the cab. That's why the MV™ Series features doors that open a full 62 degrees.



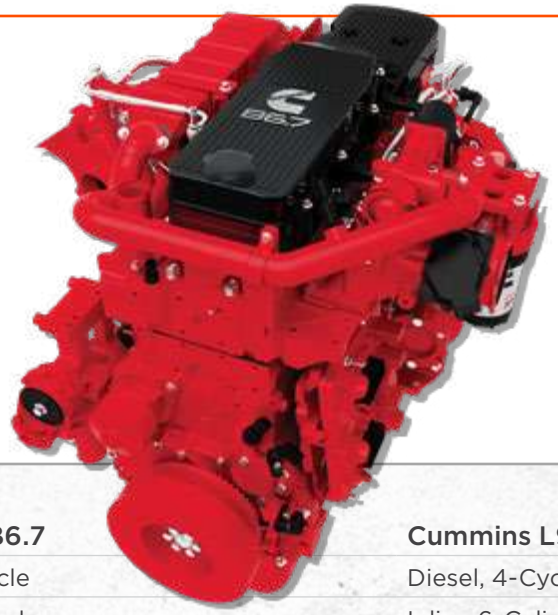
The hood can be raised with less than 12 lbs. of effort, a class-leading advantage that allows easy access to service points while reducing back strain.

Available extended length cab steps are longer and more evenly spaced for predictable footing.

TWO TOUGH CHOICES.

Cummins® B6.7

Every aspect of the B6.7 has been engineered for reliability, durability and fuel efficiency to deliver the lowest cost of ownership with maximum uptime. Add industry-leading service from International® and Cummins, plus a two-year, unlimited mileage engine warranty, and it's easy to see why the B6.7 is the best-selling engine in the medium-duty truck market.



Specifications	Cummins B6.7	Cummins L9
Engine Type:	Diesel, 4-Cycle	Diesel, 4-Cycle
Configuration:	Inline 6-Cylinder	Inline 6-Cylinder
Displacement:	409 cu. in. (6.7L)	543 cu. in. (8.9L)
Horsepower:	200-360*	260-450*
Bore and Stroke:	4.21 X 4.88 in	4.49 X 5.69 in
Aspiration:	Variable Geometry Turbocharger	Variable Geometry Turbocharger
Combustion System:	Direct Injection	Direct Injection
Engine Lubrication:	15L	15L
Total Engine Weight (Dry):	1,150 lbs.	1,695 lbs

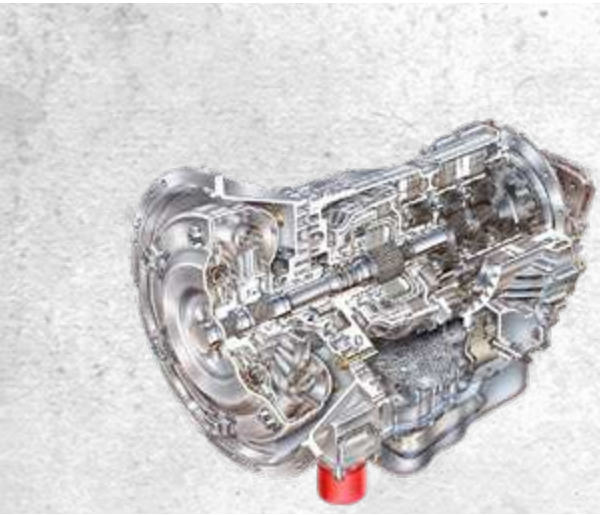
Cummins® L9

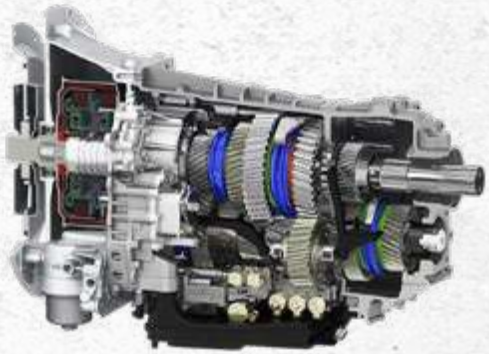
The Cummins L9 has established a solid reputation as a dependable engine for medium duty applications. Its XPI Fuel System features multiple injection events per cycle for smoother, quieter operation. This, combined with its proprietary Variable Geometry Turbocharger (VGT), means the L9 has the highest power density of any engine in its class. In addition, replaceable wet liners help make the L9 easier and less expensive to rebuild, plus heavy-duty roller followers, bypass oil filtration and targeted piston cooling all contribute to longer service life.

* Higher ratings limited to Fire and Rescue applications

AUTOMATIC ADVANTAGES.

MV™ Series offers automatic, automated manual and manual transmission choices that pair perfectly with your application needs, whether you're renting trucks to inexperienced customers, or seeking optimal cost efficiency and productivity from veteran drivers.





Allison Automatic with FuelSense® 2.0.

- The Allison FuelSense 2.0 with DynActive™ Shifting features a patented torque converter that provides infinitely variable shift points based on the vehicle configuration and operating conditions. FuelSense 2.0 can improve fuel economy up to 6% compared to previous generation FuelSense packages.

Eaton® Fuller Transmission

- The Eaton Fuller Advantage® automated transmission is available with the Cummins® L9 engine. It's rated up to 350 HP and 110,000 lbs. GCW, and features a precision lubrication system with cooler-less design for reduced weight and cost-efficient performance.

Eaton® Procision™ Automatic Transmission

- This 7-speed transmission is engineered for medium duty applications up to 300 HP and 35,000 GCW. Its dual-clutch design combines the gear efficiency of a manual with the smooth shifting of an automatic transmission, delivering steady torque to the wheels under all shift conditions.

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MV™ SERIES SPECIFICATIONS

GVW
- 21,500 – 54,600 lbs.

Models/BBC/BA
- MV607: 107" BBC, 40" BA
- MV60H: 107" BBC, 40" BA (Low Profile)

Cab Configurations
- Regular Cab
- Extended Cab
- Crew Cab

Wheelbase Options
- 128" – 311"

Axle Configurations
- 4x2, 6x4

Rear Axle
- Single Rear Axle (4x2)
  - Meritor: 13,500 – 30,000 lbs.
  - Dana Spicer: 13,500 – 30,000 lbs.
- Tandem Rear Axle (6x4)
  - Meritor: 34,000 – 40,000 lbs.
  - Dana Spicer: 40,000 lbs.
- Front Axle
  - Meritor: 8,000 – 14,600 lbs. (4x2, 6x4)
  - Dana Spicer: 8,000 – 14,000 lbs.

Frames
- High-Strength Low-Alloy Steel 50,000 – 80,000 PSI
- Heat Treated Alloy Steel 120,000 PSI
- Clean CA available for body mounting

Front Suspension
- Spring, Parabolic Taper Leaf: 8,000 – 14,600 lbs.

Rear Suspension
- Spring, Single Vari-Rate: 13,500 – 31,000 lbs.
- Tandem, 4-Spring Multileaf: 34,000 - 40,000 lbs.
- IROS Air Suspension available for Single and Tandem Axle

Electrical System

- Diamond Logic® Electrical System
- Alternators
  - 12 Volt 160 – 325 Amp.
- Battery Systems
  - 12 Volt, 2 to 3 Batteries
- Headlights
  - Long Life Halogen

Exhaust System

- Single, Horizontal, Aftertreatment Device Frame Mounted Right, Under Cab or Back of Cab, Horizontal or Vertical Tailpipe

Brakes

- Hydraulic Disc with Four Channel ABS, Optional Traction Control
- Air Brakes with ABS, Optional Traction Control, Optional Electronic Stability Program with Traction Control

Steering

- TRW/Ross Power
- Sheppard Power

Engines

- Cummins® B6.7: 200 - 325 hp and 520 - 750 lb.-ft. of torque*
- Cummins L9: 260 - 350 hp and 720 - 1000 lb.-ft. of torque

Transmissions

- Eaton® Fuller: 6, 10 Speed Manual
- Eaton: Procision™ 7 Speed Dual Clutch Automatic
- Allison: 1000, 2000, 3000 Series (HS, EVS, RDS, MH) Automatic
- Allison: 3000 TRV Series Automatic
- Eaton® Fuller: Advantage 10 Speed Fully Automated Manual

Fuel Tank

- 40 – 140 Gallon Non-Polished and Polished Aluminum, Mounted Right Side, Left Side or Dual Under Cab

DEF Tank

- 5-15 Gallon

Tires

- Continental, Michelin, Goodyear, Bridgestone, Hankook, Yokohama

* 340 hp and 700 lb-ft. of torque / 360 hp and 800 lb.-ft. torque ratings available for emergency vehicles only

ONCOMMAND® CONNECTION. ALL MAKES. ALL MODELS.

CONNECT YOUR ENTIRE FLEET THROUGH A SINGLE PORTAL.

If your fleet includes more than one truck make and model, chances are you're using more than one remote diagnostic system to help monitor and manage the health of your vehicles. That's the genius of OnCommand® Connection. It's the first and only all-makes diagnostic system that enhances your uptime by efficiently and accurately monitoring all the trucks in your fleet in real time.

With OnCommand Connection, you have access to advanced driver tools, including an FMCSA-compliant ELD solution with GPS, hours of service tracking, and an integrated DVIR for pre- and post-trip inspections.

ONCOMMAND CONNECTION HELPS YOU:

- Monitor and manage the hundreds of fault codes in all your trucks
- Connect your fleet with service centers and manufacturers
- Comply with safety standards by taking action on critical faults
- Make informed choices to manage your fleet for maximum productivity

ONCOMMAND CONNECTION HAS THE CAPABILITIES TO:

- Diagnose your entire fleet wherever it may be
- Get action plans for more than 18,000 engine and vehicle faults
- Prioritize needed repairs while avoiding unnecessary service units

Visit www.oncommandconnection.com for more information

OnCommand® Connection

REMOTE DIAGNOSTICS FOR ALL MAKES OF VEHICLES.

Use OnCommand Connection to proactively identify potential problems, control maintenance, lower repair costs and maximize uptime.

ALL THE TOOLS YOU NEED AT YOUR FINGERTIPS

OnCommand Connection is designed to keep your vehicles moving and your profits rising through powerful features such as interactive mapping, engineer-designed action plans and access to your online portal through your preferred interface – computer, tablet, smartphone or email.

- **Reduce** en route events by proactively scheduling maintenance and repairs
- **Map** tools that plot truck locations, nearest dealers, hotels and local towing providers
- **Generate** real-time comprehensive vehicle health reports
- **Understand** fault codes quickly and easily with descriptions in plain English
- **Gain** more insight with fault code action plans that provide severity information and recommend solutions

NAVISTAR® CAPITAL
a BMO Financial Group program

Navistar Capital is an industry leader in commercial vehicle financing with over 40 years of experience. We provide customized leases and secured loans with flexible structuring for International® heavy and medium duty commercial vehicles. Contact your local International Truck dealer for more information.

FLEETRITE

For more than 40 years, Fleetrite® parts have provided quality parts for all truck and bus makes sold exclusively at your International Truck dealer. Every part is Navistar quality approved and is covered under a 1-year parts and labor warranty. Parts you can trust and affordability you can bank on.

WE HAVE YOUR BACK SO YOU CAN KEEP MOVING FORWARD

Your International® dealer is one of the best in the business, and a strong link in the industry's broadest, most capable parts distribution and dealer network.

DIAMOND EDGE℠ CERTIFIED INTERNATIONAL TRUCK DEALERS

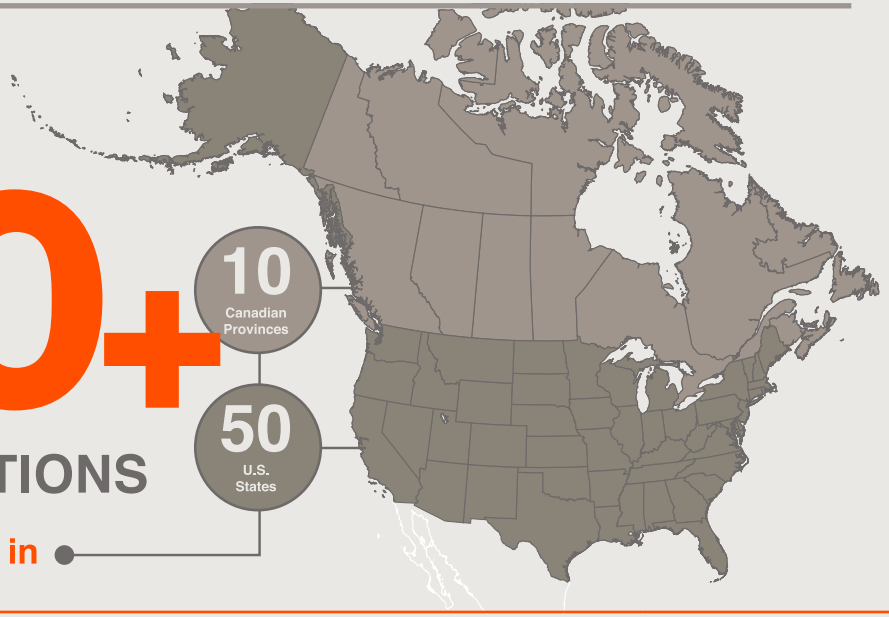
This select network of International dealer service departments has passed rigorous parts and service certification guidelines to provide you with faster turnarounds, immediate parts availability and a higher level of servicing expertise. Their ongoing pledge is to maximize your uptime and deliver a best-in-class customer experience.

YES, WE'RE OPEN

Saturday	Sunday
475+ Locations	45+ Locations

So no matter where you drive, you're not far from one of our

700+ DEALER LOCATIONS



Leading all competitors in

7,600+ TECHNICIANS

7,400+ SERVICE BAYS

Note: The information and conclusions contained herein are believed to be correct at time of publication, but do not necessarily apply to similar vehicles with different specifications or with production dates after the production of this publication. Vehicles with different specifications or later dates of production may yield different results. Vehicle specifications are subject to change without notice. TAD18002 01/2018 ©2018 NAVISTAR Inc. All rights reserved. All marks are trademarks of their respective owners.