



**CITY OF DOUGLAS WYOMING**  
Contract Documents & Specifications for a New  
Day Cab Tractor

Douglas City Hall  
101 N. 4<sup>th</sup> St.  
PO Box 1030  
Douglas, WY 82633

Public Works Dept.  
420 W. Grant Street  
PO Box 1030  
Douglas, WY 82633

**City of Douglas  
Call for Bids (Equipment)**

Sealed bids for a **New Specified 2025 Day Cab Tractor** will be received in the office of the City Clerk until **2:00 p.m., July 31, 2024** and read immediately thereafter in the Council Chambers at City Hall, 101 N. 4th St., Douglas, WY. Approved specifications and contract documents may be obtained at the Public Works Dept., 420 W. Grant Street, or on the City of Douglas website at [www.cityofdouglas.org](http://www.cityofdouglas.org) under the "Bid Postings" tab. Mail submitted bids to the City Clerk, City of Douglas, P.O. Box 1030, Douglas, WY 82633, or deliver to the City Clerk at 101 N. 4th Street, Douglas, WY. The City of Douglas reserves the right to reject any and all bids, to waive informalities, and to accept the bid that serves the best interests of the City./s/, City Clerk

Published: **July 17, 2024 & July 24, 2024**

*End of Section*

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## CITY OF DOUGLAS BID INFORMATION

Seal bids will be received until **2:00 p.m. on July 31, 2024**, at the office of the City Clerk the same day in the Council Chambers of the City Hall Building at 101 North 4<sup>th</sup> Street, Douglas, Wyoming, for a **New Specified 2025 Day Cab Tractor**. Details and specifications may be obtained by contacting the City Clerk, 101 North 4<sup>th</sup>, Douglas Wyoming 82633; at the Public Works Department, 420 West Grant, Douglas Wyoming 82633-2153; or on the City of Douglas website at [www.cityofdouglas.org](http://www.cityofdouglas.org) under the "Bids" tab. **Bids received after the specified hour will not be accepted.**

Demonstrative units will not be accepted or considered in the bid proposal. Details and specifications may be obtained by contacting the City Clerk, 101 North 4<sup>th</sup>, Douglas, Wyoming 82633 or the Public Works Department, 420 West Grant, Douglas, Wyoming 82633-2153. Bids received after the specified hour will not be accepted.

Delivery will be accepted, F.O.B. Douglas, Wyoming. All complete bids must be F.O.B. the City of Douglas, Public Works Department, 420 West Grant, Douglas, Wyoming 82633-2153. Tax Exempt Certificate will be furnished by the City of Douglas.

All bids must be clearly marked **New 2025 Day Cab Tractor** with the bidder's name and the time and date of the opening on the outside of the envelope. A Bid Bond or Letter of Credit of 5% will be required at the time the bid is opened. The City of Douglas will allow a 5% preference to Wyoming residents. Bidders will supply a Certificate of Residency in compliance with the Wyoming Department of Labor and Statistics.

No qualified individual with a disability shall, by reason of such disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the City of Douglas, or be subjected to discrimination. Pursuant to the American's with Disabilities Act, reasonable accommodation for persons with disabilities who wish to participate in these services, programs or activities shall be made upon request to City of Douglas, American Disability Act Coordinator at Douglas City Hall, 101 North 4<sup>th</sup> Street, Douglas, Wyoming 82633.

The City of Douglas reserves the right to reject any or all bids, to waive informalities in any bid received and accept any bid which best serves the interest of the City of Douglas.

The City of Douglas is letting bids for **New Specified 2025 Day Cab Tractor**. The specifications are for and the purpose and intent of this document is to specify the purchase of a **New Specified 2025 Day Cab Tractor**. Any model bid shall meet or exceed the prescribed requirements. It is unacceptable to add or change components and/or materials to a unit or lesser design capability, in order, to meet these requirements.

The bidder shall indicate his compliance with a "Yes" or non-compliance with a "No" in each line item specification. Where submitted literature does not support the meeting of these specifications, the bidder shall outline fully on company letterhead stationery the variation from specification. Any unit

not conforming to the specifications will be rejected, and it will be the responsibility of the manufacturer to conform to the requirements, unless deviations have been cited by the bidder and acceptance based upon the exceptions.

**Total bid amount for new 2025 unit: \$** \$169,574.33

**Signature of company representative responsible for bid:** Adam McCallister

You are required to deliver the above specified item/s, F.O.B. to Douglas, Wyoming on or before **08/15/2025** at which time your invoice should be submitted to the City of Douglas, Finance Department, P.O. Box 1030, Douglas, Wyoming 82633-1030 for payment, unless otherwise specified in the bid documents.

*End of Section*



*(Proposal must be filled out, signed and submitted with the bid document)*  
**PROPOSAL FOR FURNISHING NEW SPECIFIED 2025 DAY CAB TRACTOR FOR THE  
CITY OF DOUGLAS, WYOMING**

Proposal of (Name): McCandless Truck Center, LLC

(Address): 701 E. 1st St.

to furnish equipment as specified to the City of Douglas, Wyoming, in accordance with specifications dated (insert date).

**BID ITEM:**

Description: 2025 Day Cab Tractor

Make and Model: International HX620

- I. Price bid for (unit) as specified FOB  
a. Douglas, Wyoming \$ \$169,574.33
- II. Less trade-in allowance: \$ 0
- III. Net Price: (City to pay only this amount) \$ \$169,574.33

In addition to this proposal, the undersigned herewith submits complete information including specifications and descriptive literature to fully describe and illustrate the equipment and accessories offered.

Bidder proposes to deliver equipment in accordance with the schedule above. A bid bond, certified, or cashier's check made payable to the City of Douglas, Wyoming, in an amount of 5% of the total amount of this bid is enclosed. The undersigned certifies that he understands the specifications relating to said bid security and agrees to the conditions set forth in said specifications.

Submitted by: McCandless Truck Center, LLC

Signature: *aden McCandless*  
Company

Title: Sales Manager

*End of Section*



**BID BOND – EQUIPMENT**

**KNOW ALL MEN BY THESE PRESENT,** That we, the undersigned, \_\_\_\_\_ as Principal, and \_\_\_\_\_ as surety, are hereby held and firmly bound unto \_\_\_\_\_ as OWNER in the penal sum of \_\_\_\_\_ for payment of which, we and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

The condition of the above obligation is such that whereas the Principal has submitted to \_\_\_\_\_ a certain BID, attached hereto and hereby made a part hereof to enter into a contract in writing for the \_\_\_\_\_

**NOW, THEREFORE,**

- A.** If said BID shall be rejected, or
- B.** If said BID shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said BID) and shall furnish a BOND for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith and shall in all respects perform the agreement created by the acceptance of said BID.

Then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall in no way be impaired or affected by any said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

\_\_\_\_\_(L.S.)

\_\_\_\_\_  
**Surety**  
By: \_\_\_\_\_

*IMPORTANT: Surety companies executing BONDS must appear in the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of Wyoming.*

*End of Section*



**IF BIDDER IS:**

**AN INDIVIDUAL**

By: \_\_\_\_\_ doing business as: \_\_\_\_\_  
(Name)  
Address: \_\_\_\_\_ Phone: \_\_\_\_\_

**A PARTNERSHIP**

By: \_\_\_\_\_ (seal)  
(Firm Name)  
\_\_\_\_\_  
(General Partner)

Business Address: \_\_\_\_\_ Phone: \_\_\_\_\_

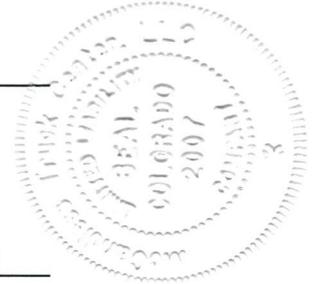
**A CORPORATION**

By: McCandless Truck Center, LLC of Colorado  
(Corporation Name) (State of Incorporation)

By: *Cylin McCandless* Sales Manager  
(Signature) (Title)

ATTEST: *Heidi Tolkeen* (Corporate Seal)

Business Address: 16704 E. 32nd Ave Phone: 303-739-9900  
Aurora CO



**A JOINT VENTURE**

By: \_\_\_\_\_ Address: \_\_\_\_\_

By: \_\_\_\_\_ Address: \_\_\_\_\_

By: \_\_\_\_\_ Address: \_\_\_\_\_

By: \_\_\_\_\_ Address: \_\_\_\_\_

*(Each member of the joint venture must sign; attach additional sheet if necessary.)*

*End of Section*





**NOTICE OF AWARD**

To: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Equipment description:** \_\_\_\_\_

The owner has considered the bid submitted by you for the above described work in response to its advertisement for bids dated \_\_\_\_\_, 20\_\_ and information for bidders.

You are hereby notified that your bid has been accepted for item/s in the amount of:

**Base Bid** \_\_\_\_\_

**Option #1** - \$ \_\_\_\_\_ Description \_\_\_\_\_

**Option #2** - \$ \_\_\_\_\_ Description \_\_\_\_\_

**Option #3** - \$ \_\_\_\_\_ Description \_\_\_\_\_

**Option #4** - \$ \_\_\_\_\_ Description \_\_\_\_\_

**Total bid amount: \$** \_\_\_\_\_

You are required, as set forth in the bid specifications, to execute any documents within ten (10) days from the date of this notice. If you fail to execute said documents, owner will be entitled to consider all rights arising out of the owner's acceptance of your bid as abandoned and as a forfeiture of your bid bond. The owner will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of this Notice of Award to the owner.

**ACCEPTANCE OF NOTICE**

Receipt of the above Notice of Award is hereby acknowledged by:

\_\_\_\_\_  
Owner

\_\_\_\_\_  
Company

\_\_\_\_\_  
Name

\_\_\_\_\_  
Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

*End of Section*



## SPECIFICATIONS

Specifications for **One (1) New 2025 Day Cab Tractor**. These are the minimum specifications for this vehicle; **you must meet or exceed these specifications**. Mark “Yes” if item meets specifications; mark “No” if not. If indication “No” is marked to any specifications, you must provide on a separate sheet of paper an explanation of the item that you would supply in place of the specified item. Any item not marked may result in rejection of the bid.

**SCOPE:** The truck being specified will be used by the City of Douglas and will be assigned specifically to the Public Works Sanitation Department. The truck will operate daily by pulling loaded walking floor trailers to landfill and returning empty.

<b>I. ENGINE &amp; ENGINE EQUIPMENT:</b>	<b>Yes</b>	<b>No</b>
1. Cummins X15 565 HP @ 1900 RPM	X	
2. 1850 LB/Ft Toque @1000 RPM	X	
3. 1500-watt 115 volt coolant heater & 300-watt oil pan heater w/ receptacle mounted under LH door	X	
4. Dry type air cleaner & restriction gauge mounted on air cleaner housing	X	
5. 1600 sq in Heavy duty radiator with refuse protection package		X
6. Automatic OTR regeneration and dash mounted regeneration request switch	X	
7. Urea system with gauge in dash indicating urea tank level	X	
8. LH 8 Gallon diesel exhaust fluid (DEF) tank	X	
9. Stainless steel after treatment device/muffler/tailpipe/shields		X
10. RH outboard under step mounted horizontal after treatment system	X	
11. RH curved vertical tailpipe B-Pillar mounted routed from step	X	
12. Variable speed viscous fan drive w/ automatic fan control and dash switch	X	
13. Electronic engine integral shutdown protection system	X	
14. 12 Volt 160amp alternator w/ remote battery sense	X	
15. (3) 2775 CCA 12V group 31 AGM batteries w/ in cab disconnect switch	X	
16. Passenger seat battery box vented to outside of cab w/ jump start provision by starter	X	
17. One piece steel refuse skid plate under engine & radiator screen w/ fumoto drain valves on oil pan	X	

<b>II. ELECTRONIC PARAMETERS:</b>	<b>Yes</b>	<b>No</b>
1. PTO Dash Switch programmed to engage while parked, roll in neutral after engagement	X	
2. 78 MPH road speed	X	
3. Cruise control speed limit same as road speed	X	
4. PTO mode cancel speed 20 MPH	X	

<b>III. TRANSMISSION &amp; TRANSMISSION EQUIPMENT:</b>	<b>Yes</b>	<b>No</b>
1. Eaton Fuller RTLO-20918B 18 Speed manual transmission	X	
2. Transmission drive PTO to drive hydraulic wet kit	X	
3. Hydraulic wet kit to produce 35 gpm @ 3000 psi w/ relief set to 2800-3000 psi	X	

4. 50 gallon aluminum hydraulic tank mounted above frame back of cab	X	
5. Wet Kit lines and connectors to match City of Douglas walking floor trailers	X	
6. Transmission oil to air cooler	X	
7. Synthetic transmission fluid	X	

<b>IV. FRONT AXLE &amp; EQUIPMENT:</b>	<b>Yes</b>	<b>No</b>
1. 14,600# taper leaf suspension w/ 14,700# 3.74 drop single front axle	X	
2. 16.5X5 Q+ Cast Spider cam front brakes, double anchor, fabricated shoes	X	
3. Cast iron front brake drums w/ dust shield	X	
4. Vented front hub caps with window	X	
5. Automatic front brake slack adjusters	X	
6. Power steering with power steering pump	X	
7. Front shock absorbers	X	
8. Synthetic 75w-90 front axle lube	X	

<b>V. REAR AXLE &amp; EQUIPMENT:</b>	<b>Yes</b>	<b>No</b>
1. Cummins RT-40-160 40,000# R-Series tandem rear axles	X	
2. 3.73 rear axle ratio	X	
3. Iron rear axle carrier with standard axle housing	X	
4. RPL25SD Meritor main driveline with RPL20 interaxle driveline	X	
5. Brake drum dust shields	X	
6. Driver controlled traction differential	X	
7. (1) driver controlled differential axle valve & (1) interaxle lock valve	X	
8. Brake cams & chambers on front side of drive axles	X	
9. Indicator lamp with each mode switch, differential unlock with road speed > 25 MPH, activate only at <5 MPH	X	
10. 16x.5X8.62 Q+ cast spider cam, double anchor, fabricated shoes	X	
11. Brake cams and chambers on rear side of drive axle	X	
12. Cast iron rear brake drums	X	
13. Wabco Tristop D Longstroke 2 drive axle spring parking chambers		X
14. Haldex automatic rear slack adjusters	X	
15. Synthetic 75w-90 rear axle lube	X	

<b>VI. REAR SUSPENSION:</b>	<b>Yes</b>	<b>No</b>
1. Airliner 40,000# rear suspension w/ chain clearance	X	
2. 59 inch axle spacing		X
3. Rear Shock Absorbers on both axles	X	
4. Suspension dump switch w/ auto fill above 5 mph	X	
5. Single air suspension leveling valve	X	

<b>VII. PUSHER AXLE:</b>	<b>Yes</b>	<b>No</b>
1. Hendrickson Ex13 13,500# Air Lift Steerable Pusher		X
2. Aluminum pusher hubs	X	
3. Auto lift in reverse	X	
4. Dash valve & gauge, regulator chassis mounted	X	
5. Positioned 54 inches ahead of front drive axle	X	
6. Auto slack adjusters	X	
7. Dust shields on brakes	X	
8. 15x4 cam brakes, double anchor, fabricated shoes	X	
9. 22.5x8.25 10 HUB piloted 2-hand steel wheels	X	
10. 11R22.5 16ply radial pusher tires		

<b>VIII. BRAKE SYSTEM</b>	<b>Yes</b>	<b>No</b>
1. Wabco 6S/6M ABS with traction control & traction control shut off switch on dash		X
2. Reinforced nylon, fabric braid and wire braid air lines	X	
3. Fiber braid park brake hoses	X	
4. Relay valve with 5-8 PSI crack pressure for tandem axles, & 3-4.5 for pusher axle	X	
5. Wabco System Saver HP air dryer with heater & coalescing filter	X	
6. Air dryer mounted under hood		X
7. Steel air tanks	X	
8. Pull cables on drain valves of all air tanks	X	
9. 15 ft straight air hose & electrical cable for trailer	X	
10. 40 inch chrome pogo stick for trailer air & electrical lines mounted to deckplate	X	
11. Gladhand/electrical holder mounted to pogostick	X	

<b>IX. WHEELBASE AND FRAME:</b>	<b>Yes</b>	<b>No</b>
1. 5475mm (216 inch) wheelbase	X	
2. 11mmX85mmX287mm steel frame 120KSI	X	
3. 1525mm (60 inch) rear frame overhang		X
4. Flange tapered end of frame	X	
5. Heavy Duty ductile iron engine crossmember	X	
6. Heavy Duty back of transmission crossmember	X	
7. Standard cast aluminum midship crossmember		X
8. Standard rear most crossmember	X	
9. Standard cast aluminum forward crossmember		X
10. Cast aluminum rear suspension crossmember		X

<b>X. CHASSIS EQUIPMENT:</b>	<b>Yes</b>	<b>No</b>
1. Ali-arc or Herd aluminum bumper/grill guard	X	
2. Headache rack w/ jail bar window, chain hangers, and full width tray	X	
3. Mount headache rack behind hydraulic tank with enough space to add oil to tank	X	
4. Deck plate back of headache rack to fifth wheel as possible.	X	
5. :H back of cab access with grab handle	X	

6. Huck-spin round collar frame fasteners	X	
7. Single centered front tow pin	X	
8. Painted mudflap brackets w/ mudflaps	X	

<b>XI. FIFTH WHEEL:</b>	<b>Yes</b>	<b>No</b>
1. Jost 24 inch air slide fifth wheel, 2 inch slide increments	X	
2. Fifth wheel forward 18 inches ahead of suspension centerline	X	
3. 7.94 inch fifth wheel leg height	X	
4. Steel outboard angle fifth wheel mounting	X	
5. Dash mounted control & plumbing for fifth wheel slide	X	
6. Inside cab mounted air-actuated king pin release		X

<b>XII. FUEL TANK(S):</b>	<b>Yes</b>	<b>No</b>
1. 100 Gallon/378 liter 25 inch diameter aluminum fuel tank - LH	X	
2. Fuel tank forward	X	
3. Plain step finish	X	
4. Fuel tank cap	X	
5. Davco fuel/water separator w/ ESOC & 12v preheater & water in fuel sensor	X	
6. Equiflo inboard fuel system	X	
7. High temperature reinforced nylon fuel line	X	
8. Painted steel fuel tank bands	X	

<b>XIII. TIRES:</b>	<b>Yes</b>	<b>No</b>
1. 12R22.5 16 ply radial front steer tires	X	
2. 11R22.5 16 ply radial rear traction tires	X	
3. One spare tire & wheel for the rear, One spare tire & wheel for the front.	X	

<b>XIV. HUBS:</b>	<b>Yes</b>	<b>No</b>
1. Pre-set plus premium iron front hubs	X	
2. Pre-set plus premium iron rear hubs	X	

<b>XV. WHEELS:</b>	<b>Yes</b>	<b>No</b>
1. 22.5x8.25 10-hub pilot steel disc wheels	X	

<b>XVI. CAB EXTERIOR:</b>	<b>Yes</b>	<b>No</b>
1. Steel reinforced aluminum conventional cab		X
2. Air cab mounts	X	
3. Bolt-on molded flexible fender extensions	X	
4. Interior lower grab handles plus exterior LH and RH grab handles	X	
5. Hood opening assist w/ locking strut to prevent wind from slamming hood closed	X	
6. Bright hood mounted air intake grill, black screen		X
7. Vocational hood	X	
8. Single air horn under deck	X	

9. Single electric horn	X	
10. Door lock and ignition switch keyed the same	X	
11. Stainless steel sun visor w/ LED marker lights	X	
12. Daytime running lights	X	
13. Intelligent LED headlights w/ heated lens system		X
14. Rear facing turn signal lamps in convex mirrors	X	
15. Dual C-bar heated mirrors w/ LH & RH remote		X
16. LH and RH convex mirrors mounted under primary mirrors	X	
17. Dual LED Class 1 Strobe lights mounted above each door	X	
18. LH and RH Heated hood/fender convex mirrors		X
19. Roped in windshield		X
20. Power electric door window regulators	X	
21. Windshield washer reservoir, cab mounted	X	
22. Integral LED stop/turn/tail backup lights	X	

<b>XVII. CAB INTERIOR:</b>	<b>Yes</b>	<b>No</b>
1. Base trim package interior	X	
2. Molded plastic door panels with integrated storage pockets	X	
3. Black mats with added insulation	X	
4. Dash mounted ashtray with 12v power outlet	X	
5. (2) Cup Holders in dash	X	
6. Heater, defroster and air conditioner	X	
7. Standard heater plumbing with ball shut off valves	X	
8. Heavy duty air conditioner compressor	X	
9. Binary control, R134A	X	
10. Premium cab insulation	X	
11. Quantity of keys - 3	X	
12. 12-volt negative ground electrical system	X	
13. LED Interior Cab Lighting	X	
14. Cab door latches with electric door locks	X	
15. High back air suspension driver seat with fold down arm rests	X	
16. Passenger seat mid back non-suspension without arm rests	X	
17. Heavy duty cloth driver & passenger seats	X	
18. 18 inch steering wheel with dash panel & radio switch controls	X	
19. Adjustable tilt and telescoping steering column	X	
20. Driver and passenger interior sun visors	X	

<b>XVIII. INSTRUMENTS AND CONTROLS:</b>	<b>Yes</b>	<b>No</b>
1. Low air pressure light and buzzer	X	
2. Dual needle primary and secondary air pressure gauge	X	
3. 97 DB back-up alarm	X	
4. Electronic cruise control with steering wheel switches	X	

5. Tractor & Trailer air brake application gauge	X	
6. 5" drivers display in instrument cluster	X	
7. Diagnostic interface connector, located LH below dash	X	
8. 2-inch electric fuel, oil pressure, engine temperature.	X	
9. Digital transmission temperature, axle temperature, voltage, outside temp in dash	X	
10. AM/FM/WB radio with front auxiliary inputs, (2) radio speakers in cab	X	
11. Power & ground provision in overhead console	X	
12. Electronic MPH speedometer with secondary KPH scale	X	
13. Electronic 2500 RPM tachometer	X	
14. Ignition switch controlled engine stop	X	
15. Pre-trip inspection feature for exterior lamps	X	
16. Single electric windshield wiper motor with delay	X	
17. PTO controls for wet kit activation	X	
18. Two valve parking brake system with warning indicator	X	
19. Self-canceling turn signal switch with dimmer, washer/wiper and hazard in handle	X	
20. Digital turbo boost in drivers display	X	
21. Three extra switches wired to end of frame	X	

<b>XIX. PAINT AND COLOR:</b>	<b>Yes</b>	<b>No</b>
1. Paint: one solid color	X	
2. Cab color: fleet white	X	
3. Chassis paint: black	X	
4. Wheels: white	X	

<b>XX. WARRANTY:</b>	<b>Yes</b>	<b>No</b>
1. Full factory warranty on cab chassis and components to be shown with the bid.	X	
2. Cab and chassis warranty will be registered by the vendor at the time of delivery. A copy of the cab and chassis warranty/registration is to be delivered with the truck.	X	
3. Engine warranty will be registered by the vendor.	X	

<b>XXI. MANUALS:</b>	<b>Yes</b>	<b>No</b>
1. Workshop manual online access	X	
2. Online parts catalog	X	
3. Drivers & operators manual	X	
4. Engine operator's manual	X	

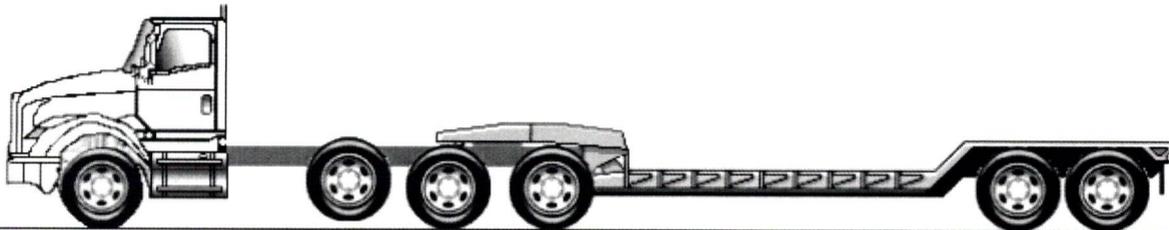
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**Prepared For:**  
City of Douglas  
John Harbarger  
101 N 4th St.  
Douglas, WY 82633-2401  
(307)358 - 9750  
Reference ID: N/A

**Presented By:**  
MCCANDLESS TRK CENTER  
Adam McCandless  
16704 E 32ND AVE.  
AURORA CO 800111521  
307-775-5000

Thank you for the opportunity to provide you with the following quotation on a new International truck. I am sure the following detailed specification will meet your operational requirements, and I look forward to serving your business needs.



**Model Profile**  
**2025 HX620 SBA (HX620)**

<b>AXLE CONFIG:</b>	6X4
<b>APPLICATION:</b>	Heavy Hauler Tractor
<b>MISSION:</b>	Requested GCWR: 120000. Calc. GCWR: 150000. Calc. GVWR: 67820 Calc. Start / Grade Ability: 13.18% / 1.20% @ 55 MPH Calc. Geared Speed: 89.8 MPH
<b>DIMENSION:</b>	Wheelbase: 217.00, CA: 148.00, Axle to Frame: 65.00
<b>ENGINE, DIESEL:</b>	{Cummins X15 565V} Productivity Series, EPA 2024, 565HP @ 1950 RPM, 1850 lb-ft Torque @ 1000 RPM, 2000 RPM Governed Speed, 579 Peak HP (Max)
<b>TRANSMISSION, MANUAL:</b>	{Fuller RTLOF-20918B} 18-Speed Manual, Double Overdrive, Air Shift, Internal Lube Oil Pump
<b>CLUTCH:</b>	{Eaton Fuller Advantage} Self-Adjusting, 15.5" Dia Two-Plate, Cast Angle Spring, Ceramic, 7-Spring Coaxial VCT Plus Damper with Pre-Damper, 2"-10 Tooth Spline, Mechanical Pull Type Control, 6-Button Disc, 2050 lb-ft Torque Capacity
<b>AXLE, FRONT NON-DRIVING:</b>	{Meritor MFS-14-143A} Wide Track, I-Beam Type, 14,600-lb Capacity
<b>AXLE, REAR, TANDEM:</b>	{Meritor RT-40-160P} Single Reduction, 40,000-lb Capacity, Driver Controlled Locking Differential in Forward-Rear and Rear-Rear Axle, R Wheel Ends Gear Ratio: 3.73
<b>CAB:</b>	Conventional, Day Cab
<b>TIRE, FRONT:</b>	(3) 12R22.5 Load Range H HSR 3 (CONTINENTAL), 484 rev/mile, 75 MPH, All-Position
<b>TIRE, REAR:</b>	(8) 11R22.5 Load Range H HDR2+ (CONTINENTAL), 491 rev/mile, 75 MPH, Drive
<b>SUSPENSION, REAR, AIR, TANDEM:</b>	{Hendrickson HAS-402-55} 40,000-lb Capacity, 55" Axle Spacing, 9.5" Ride Height, with Shock Absorbers
<b>PAINT:</b>	Cab schematic 100LZ Location 1: 9219, Winter White (Std) Chassis schematic N/A

<u>Description</u>	<u>F/R Wt</u>	<u>Tot Wt</u>
	(lbs)	(lbs)
Base Chassis, Model HX620 SBA with 217.00 Wheelbase, 148.00 CA, and 65.00 Axle to Frame.	9444/6697	16141

**AXLE CONFIGURATION**

AXLE CONFIGURATION {Navistar} 6x4	0/0	0
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Notes

: Pricing may change if axle configuration is changed.

**ENGINE**

ENGINE, DIESEL {Cummins X15 565V} Productivity Series, EPA 2024, 565HP @ 1950 RPM, 1850 lb-ft Torque @ 1000 RPM, 2000 RPM Governed Speed, 579 Peak HP (Max)	642/35	677
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EMISSION, CALENDAR YEAR {Cummins X15} EPA, OBD and GHG Certified for Calendar Year 2024	0/0	0
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CARB EMISSION WARR COMPLIANCE Does Not Comply with CARB Emission Warranty	0/0	0
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CARB IDLE COMPLIANCE Does Not Comply with California Clean Air Idle Regulations	0/0	0
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EPA IDLE COMPLIANCE Low NOx Idle Engine, Complies with EPA Clean Air Regulations; Includes "Certified Clean Idle" Decal on Hood	0/0	0
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RADIATOR Aluminum, Welded, Down Flow, Front to Back System, 1325 SqIn, with 806 SqIn Charge Air Cooler	0/0	0
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Includes

: RADIATOR HOSES Premium, Rubber

FAN DRIVE {Horton Drivemaster} Two-Speed Type, Direct Drive, with Residual Torque Device for Disengaged Fan Speed	0/0	0
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Includes

: FAN Nylon

AIR CLEANER Single Element, with Pre-Cleaner, Engine Mounted	0/0	0
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ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection	0/0	0
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BLOCK HEATER, ENGINE {Phillips} 120V/1500W, with "Y" Cord for 120V/300W Oil Pan Heater	3/0	3
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Includes

: BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door

FAN DRIVE SPECIAL EFFECTS Fan Cooling Ring with Fan Shroud Effects, Engine Mounted	0/0	0
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FAN OVERRIDE Manual; with Electric Switch on Instrument Panel, (Fan On with Switch On)	2/0	2
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HOSE CLAMPS, RADIATOR HOSES {Gates} Shrink Band Type	0/0	0
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RADIATOR DRAIN & FILL FITTING SPECIAL; To Vacuum Out or Fill the Cooling System from the Bottom of Radiator, for Use with Quick-Connect Radiator Drain Tool or Shop Coolant Evacuation-Fill System	0/0	0
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**TRANSMISSION**

TRANSMISSION, MANUAL {Fuller RTLOF-20918B} 18-Speed Manual, Double Overdrive, Air Shift, Internal Lube Oil Pump	0/0	0
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CLUTCH HOUSING Aluminum; Available with 1350 to 2050 lb-ft Capacity Fuller Transmissions	-46/-7	-53
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OIL COOLER, TRANSMISSION Water to Oil Type Included in Radiator End Tank (REQUIRES TRANSMISSION LUBE PUMP)	4/0	4
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PTO CONTROL, DASH MOUNTED For Customer Provided PTO; Includes Switch, Electric/Air Solenoid, Piping and Wiring	5/0	5
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<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
TRANSMISSION OIL {EmGard 40W} Synthetic; 22 thru 33.99 Pints	0/0	0

**CLUTCH**

CLUTCH {Eaton Fuller Advantage} Self-Adjusting, 15.5" Dia Two-Plate, Cast Angle Spring, Ceramic, 7-Spring Coaxial VCT Plus Damper with Pre-Damper, 2"-10 Tooth Spline, Mechanical Pull Type Control, 6-Button Disc, 2050 lb-ft Torque Capacity	4/0	4
CLUTCH EFFECTS Hydraulic Clutch Actuation System, with Air Assist	0/0	0

**REAR AXLES, SUSPENSIONS**

AXLE, REAR, TANDEM {Meritor RT-40-160P} Single Reduction, 40,000-lb Capacity, Driver Controlled Locking Differential in Forward-Rear and Rear-Rear Axle, R Wheel Ends . Gear Ratio: 3.73	0/402	402
SUSPENSION, REAR, AIR, TANDEM {Hendrickson HAS-402-55} 40,000-lb Capacity, 55" Axle Spacing, 9.5" Ride Height, with Shock Absorbers	0/-86	-86
AXLE, PUSHER, LIFT TYPE {Watson & Chalin SL1190SSR Tru-Trk Alumilite} 13,500-lb Capacity, One Self-Steer Axle	306/513	819
AXLE SPACING, FIRST PUSHER 54" Ahead of Drive Axle	0/0	0
AXLE, LIFT, CONTROLS for One Lift Axle; Controls Inside and Outside Cab; Includes Pressure Gauge and Lift/Lower Switch Inside Cab on Dash; Pressure Gauge and Pressure Regulator Outside Cab	0/0	0
LIFT AXLE ENGR REVIEW Special Quotation to Allow Engineering Review of Lift Axle Configurations	0/0	0
AXLE, REAR, LUBE {EmGard FE-75W-90} Synthetic Oil; 65 thru 89.99 Pints	0/0	0
DIFF. SWITCH CONTROLS Two Independent Switches for Control Traction Differentials on Tandem Rear Axles, Mounted on Dash	1/0	1
SUSPENSION AIR CONTROL VALVE Pressure Release Control In Cab	0/1	1

**FRONT AXLES**

AXLE, FRONT NON-DRIVING {Meritor MFS-14-143A} Wide Track, I-Beam Type, 14,600-lb Capacity	0/0	0
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**FRONT SUSPENSIONS**

SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 16,000-lb Capacity, with Shock Absorbers	-91/0	-91
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**CABS, COWLS, BODIES**

CAB Conventional, Day Cab	0/0	0
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Includes

- : CAB REAR SUSPENSION Air
- : CLEARANCE/MARKER LIGHTS (5) LED Roof Mounted
- : COAT HOOK, CAB Located on Rear Wall, Centered Above Rear Window
- : CONSOLE, CENTER Includes Two Cup Holders and One Additional Storage Area
- : CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets, Retainer Nets and CB Radio Pocket; Located Above Driver and Passenger
- : COURTESY LIGHT (2) Driver and Passenger Door Mounted
- : DOME LIGHT, CAB Rectangular, Door and Instrument Panel Mounted Switch Activated, Timed Theater Dimming, Center Mounted, Integral to Console
- : FLOOR COVERING Rubber, Black
- : GLASS, ALL WINDOWS Tinted

<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
: GRAB HANDLE, CAB INTERIOR (1) "A" Pillar Mounted, Passenger Side		
: GRAB HANDLE, CAB INTERIOR (4) "B" Pillar and Door Mounted, Two Each Side		
: READING LIGHT, CAB Located in Overhead Console		
: STORAGE POCKET, DOOR (2) Full Length, Driver and Passenger Door		
ACCESS, CAB AND FRAME Aluminum, Driver & Passenger Sides, Two Steps per Door; Left Side Frame Access Step, Includes One Deck Plate and Grab Handle, for use with Day Cab or Sleeper Cab	-49/-6	-55
AIR CONDITIONER with Integral Heater and Defroster	0/0	0
<u>Includes</u>		
: HOSE CLAMPS, HEATER HOSE Mubea Constant Tension Clamps		
CAB INTERIOR TRIM Diamond, for Day Cab	0/0	0
CAB SOUND INSULATION Day Cab Interior Noise Reduction Package	0/0	0
FRESH AIR FILTER Attached to Air Intake Cover on Cowl Tray in Front of Windshield Under Hood	0/0	0
GAUGE CLUSTER Premium Level; English with English Electronic Speedometer	0/0	0
<u>Includes</u>		
: GAUGE CLUSTER DISPLAY: Base Level (3" Monochromatic Display), Premium Level (5" LCD Color Display); Odometer, Voltmeter, Diagnostic Messages, Gear Indicator, Trip Odometer, Total Engine Hours, Trip Hours, MPG, Distance to Empty/Refill for		
: GAUGE CLUSTER Speedometer, Tachometer, Engine Coolant Temp, Fuel Gauge, DEF Gauge, Oil Pressure Gauge, Primary and Secondary Air Pressure		
: WARNING SYSTEM Low Fuel, Low DEF, Low Oil Pressure, High Engine Coolant Temp, Low Battery Voltage (Visual and Audible), Low Air Pressure (Primary and Secondary)		
GAUGE, AIR APPLICATION	1/0	1
GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} Under Hood Cleaner Mounted with Internal Switch, with Text Message in Cluster	0/0	0
GAUGE, AIR PRESSURE for Pressure in Rear Air Suspension, Mounted in Instrument Center Panel	0/0	0
GAUGE, OIL TEMP, ENGINE	1/0	1
GAUGE, TEMPERATURE, AMBIENT Sensor Wiring with Display Unit Mounted in Cluster	0/0	0
VIRTUAL GAUGE, MANIFOLD PRESS Data Link Driven; Mounted in Instrument Panel, Includes Controller Module. Requires Premium Cluster	0/0	0
VIRTUAL GAUGE, OIL TEMP, MANL XMSN for Manual Transmission, Requires Premium Cluster	0/0	0
VIRTUAL GAUGE, OIL TEMP, REAR AXLE Requires Premium Cluster	0/0	0
GRAB HANDLE, EXTERIOR (2) Chrome, Towel Bar Type, with Anti-Slip Rubber Inserts, for Cab Entry Mounted Left and Right Side at B-Pillar	6/0	6
HEATER SHUT-OFF VALVES (1) Ball Valve Type, Supply Line	5/0	5
INSTRUMENT PANEL Wing Panel	0/0	0
IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster	0/0	0
MIRRORS (2) Aero Pedestal, Power Adjust, Heated, Turn Signals, Black Heads and Arms, 6.5" x 14" Flat Glass, Includes 6.5" x 6" Convex Mirrors, for 102" Load Width	0/0	0
<u>Notes</u>		
: Mirror Dimensions are Rounded to the Nearest 0.5"		
MIRROR, CONVEX, HOOD MOUNTED (2) Right and Left Sides, Black, 7.5" x 7"	11/-1	10

Description	F/R Wt	Tot Wt
	(lbs)	(lbs)
MODESTY PANEL Painted	0/0	0
MONITOR, TIRE PRESSURE Omit	-10/-1	-11
SEAT, DRIVER {ISRI} Series 300, Air Suspension, High Back, Mordura, Single Chamber Lumbar, Inboard Armrest, Suspension Cover, Fore/Aft Isolator, Cushion Extension, Seat Tilt	0/0	0
SEAT, PASSENGER {Seats, Inc.} Non Suspension, High Back, Fixed Back, Integral Headrest, Mordura Cloth, for use with Batteries in Cab	34/10	44
SUNSHADE, EXTERIOR Aerodynamic, Bright Stainless Steel, with Integral LED Amber Lens Clearance/Marker Lights	15/2	17
WINDOW, POWER (2) and Power Door Locks, Left and Right Doors, Includes Express Down Feature	0/0	0
<b>FRAMES</b>		
FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 12.250" x 3.380" x 0.375" (304.8mm x 85.6mm x 9.5mm); 550.0" (13970mm) Maximum OAL	102/168	270
BUMPER, FRONT Contoured, Steel, Painted, Heavy Duty, for HX	0/0	0
CROSSMEMBER, FRAME TIE for Standard Duty	39/3	42
DECK PLATE Aluminum, (2) Sections, 15" Wide	15/11	26
FRAME RAILS WITH TAPERED REAR	0/-7	-7
TOW PIN, FRONT Heavy Duty; 150,000-lb. Total Capacity	90/-16	74
LICENSE PLATE HOLDER Single Plate, Swing Type, Mounted Below Front Bumper	1/0	1
WHEELBASE RANGE 191" (485cm) Through and Including 236" (600cm)	105/-105	0
<b>BRAKES</b>		
BRAKE SYSTEM, AIR Dual System for Tractor Applications	19/-3	16
<u>Includes</u>		
: BRAKE LINES Color and Size Coded Nylon		
: GLAD HANDS (2) One for Service and One for Emergency; Trailer Hoses from Cab		
: HAND CONTROL VALVE, AIR Mounted in Instrument Panel		
: PARKING BRAKE CONTROL Yellow and Red Knobs, Located on Instrument Panel		
: PARKING BRAKE VALVE Combination Valve for Tractor and Trailer		
: QUICK RELEASE VALVE On Rear Axle for Spring Brake Release: 1 for Forward Rear Axle		
: TRACTOR PROTECTION VALVE		
AIR BRAKE ABS {Bendix AntiLock Brake System} 6-Channel (6 Sensor/6 Modulator) Electronic Stability Program, with Automatic Traction Control	0/0	0
BRAKE, PARKING Manual Push-Pull Pneumatic Parking Brake	1/0	1
BRAKES, FRONT {Meritor 16.5X5 Q-PLUS CAST} Air S-Cam Type, Cast Spider, Fabricated Shoe, Double Anchor Pin, Size 16.5" X 5", 14,700-lb Capacity	-23/0	-23
BRAKE CHAMBERS, FRONT AXLE {Bendix} 24 SqIn	4/0	4
SLACK ADJUSTERS, FRONT {Gunite} Automatic	14/0	14
DUST SHIELDS, FRONT BRAKE for Air Cam Brakes	10/0	10
BRAKES, REAR {Meritor 16.5X7 Q-PLUS LW} Air S-Cam Type, Fabricated Spider, Fabricated Shoe, Double Anchor Pin, Size 16.5" X 7", 20,000-lb Capacity per Axle	0/84	84

<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
BRAKE CHAMBERS, REAR AXLE {Bendix EverSure} 30/30 SqIn Spring Brake	0/14	14
SLACK ADJUSTERS, REAR {Gunitex} Automatic	0/28	28
DUST SHIELDS, REAR BRAKE for Air Cam Brakes	0/20	20
PARK BRAKE CHAMBERS, ADDITIONAL (2) Spring Brake Type	0/30	30
BRAKES, PUSHER AXLE Air S-Cam Type, 16.5" x 6.0", Includes 24 Sq.In. Brake Chambers, Furnished with One Pusher Lift Axle	0/0	0
AIR COMPRESSOR {Cummins} 18.7 CFM	0/0	0
AIR COMPRESSOR DISCHARGE LINE 1/2" ID to 5/8" ID Teflon Hose, with Stainless Steel Braid; to Air Dryer	0/0	0
AIR DRYER {Bendix AD-HF} with Heater, Includes Pressure Protection Circuits, Safety Valve, Integral Purge Tank, Governor Pressure Settings 110 psi Cut-In/130 psi Cut-Out, Integrated PuraGuard Coalescing Filtration	0/0	0
AIR DRYER LOCATION Mounted Inside Left Rail, Back of Cab	0/0	0
AIR TANK Painted Aluminum, with Straight Thread O-Ring Ports	-20/-8	-28
AIR TANK LOCATION (2) Stacked, Outside Right Rail, Back of Cab, Perpendicular to Rail	0/0	0
DRAIN VALVE (2) {Berg} with Pull Chains, for Air Tanks	0/0	0
HOSE TENDER Flexible Pogo Stick, Located 46" +/- 6" Back of Cab	15/16	31
SPRING BRAKE MODULATOR VALVE with Relay function	0/0	0
TRAILER HOSES AND CABLES {Erich Jaeger} Straight, Phillips Rubber Hose, 14' Working Length, Aluminum Glad Hands with Rubber Seals, Lighting Cable with Polypropylene Composite Plug	8/4	12
<b><u>STEERING</u></b>		
STEERING GEAR (2) {Sheppard M100/M80} Dual Power	108/-12	96
STEERING COLUMN Tilting and Telescoping	0/0	0
STEERING WHEEL 4-Spoke; 18" Dia., Black	0/0	0
<b><u>DRIVELINES</u></b>		
DRIVELINE SYSTEM {Dana Spicer} SPL250 Main Driveline with SPL170 Interaxle Shaft, for 6x4	2/5	7
<b><u>EXHAUST SYSTEMS</u></b>		
EXHAUST SYSTEM Horizontal Aftertreatment System, Frame Mounted Right Side Under Cab, for Single Vertical Tail Pipe, Cab Mounted Right Side	0/0	0
AFTERTREATMENT COVER Aluminum	0/0	0
ENGINE COMPRESSION BRAKE {Cummins} Interbrake For Cummins Signature/ISX/X15 Engines; Furnished with Engine	0/0	0
EXHAUST HEIGHT 11' 6"	4/0	4
MUFFLER/TAIL PIPE GUARD (1) Bright Stainless Steel	20/11	31
TAIL PIPE (1) Turnback Type	-10/-3	-13
<b><u>ELECTRICAL SYSTEMS</u></b>		
ELECTRICAL SYSTEM 12-Volt, Standard Equipment	0/0	0

<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
<u>Includes</u>		
: HAZARD SWITCH Push On/Push Off, Located on Instrument Panel to Right of Steering Wheel		
: HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever		
: PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light		
: STARTER SWITCH Electric, Key Operated		
: STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector		
: WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever		
: WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted		
ALTERNATOR {Delco Remy 36SI} Brushless, 12 Volt, 165 Amp Capacity, Pad Mount, with Remote Sense	7/0	7
ANTENNA Shark Fin, Roof Mounted	1/0	1
BACK-UP ALARM Electric, 102 dBA	0/3	3
BATTERY BOX Steel, 2-3 Battery Capacity, Mounted Inside the Cab, Under Passenger Seat	33/-1	32
BATTERY SYSTEM {Deka/EAST PENN 9F31 Fahrenheit AGM} Maintenance-Free, (3) AGM 12-Volt 2775CCA Total, Top Threaded Stud	18/9	27
BODY BUILDER WIRING To Rear of Frame, with Stop, Tail, Turn, and Marker Lights Circuits, Ignition Controlled Auxiliary Feed and Ground, Less Trailer Socket	2/0	2
CB RADIO Omit Power Feeds, Power Source and Wiring	0/0	0
2-WAY RADIO Wiring Effects; Wiring with 20 Amp Fuse Protection, Includes Ignition Wire with 5 Amp Fuse, Wire Ends Heat Shrink and Routed to Center of Header Console in Cab	1/0	1
CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses	0/0	0
HEADLIGHT WARNING BUZZER Sounds When Head Light Switch is on and Ignition Switch is in "Off" Position	0/0	0
HEADLIGHTS Halogen, with Daytime Running Lights	0/0	0
HORN, AIR Single, Located Under Cab	0/0	0
HORN, ELECTRIC Disc Style	0/0	0
JUMP START STUD (2) 12V, Remote Mounted	1/0	1
POWER SOURCE, TERMINAL TYPE 2-Post	0/0	0
RADIO AM/FM/WB/Clock/Bluetooth/USB Input/Auxiliary Input	3/0	3
RADIO, STEERING WHEEL CONTROLS Mounted in Steering Wheel, Radio Function Control Switch, Includes Volume Up/Down, Mute, Forward/Back and Bluetooth Answer/Disconnect	9/1	10
SPEAKERS (2) 6.5" Dual Cone Mounted in Doors	0/0	0
STARTING MOTOR {Mitsubishi Electric Automotive America 105P} 12-Volt, with Soft-Start	0/0	0
STOP, TURN, TAIL & B/U LIGHTS All LED, (2) Oval Multi-Function Stop, Turn, and Tail Lights, with (1) Oval Backup Light, Includes License Plate Light, for Integrated Crossmember	-12/47	35
TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights	0/0	0
TURN SIGNAL SWITCH Self-Canceling	0/0	0
<b>FRONT END</b>		
FRONT END Tilting, Composite	0/0	0
GRILLE Black Vertical Accent Bars, with Black Mesh	0/0	0

<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
LOGOS EXTERIOR Model Badges	0/0	0
LOGOS EXTERIOR, ENGINE Badges	0/0	0
<b><u>SPEEDOMETER, TOOLS, MISC</u></b>		
COMMUNICATIONS MODULE Telematics Device with Over the Air Programming; Includes Five Year Data Plan and International 360	0/0	0
FIFTH WHEEL, AIR SLIDE {Jost JSK37USL-A8PX24} 24" Slide, Cast Top Plate, 7.75" Above Top of Frame, Left Hand Release	0/635	635
FIFTH WHEEL LOCATION On Rear Axle Centerline	0/0	0
KEYS - ALL ALIKE, ADDITIONAL 3 Keys	0/0	0
MUD FLAP HOLDER Spring Loaded, Painted Black, 45-Degree End, with Red and White Reflective Tape, Less Flaps	-6/26	20
MUD FLAPS, REAR Black Rubber, Anti-Sail, Less Holders	-3/14	11
PAINT SCHEMATIC, PT-1 Single Color, Design 100	0/0	0
PAINT TYPE Base Coat/Clear Coat, 1-2 Tone	0/0	0
PROMOTIONAL PACKAGE Government Silver Package	0/0	0
<b><u>FUEL TANKS</u></b>		
FUEL TANK Non-Polished Aluminum, 24" Dia, 100 US Gal (379L), Mounted Left Side, Under Cab	24/30	54
DEF TANK 10.8 US Gal (41L) Capacity, Frame Mounted Outside Left Rail, Under Cab	18/3	21
FUEL HEATER {Cummins} Plumbing for Thermal Recirculation Valve (TRV) Mounted to Cummins X15 Engines, Thermostatically Controlled	0/0	0
FUEL/WATER SEPARATOR {Davco 386} 12 VDC Electric Heater, with ESOC Fittings, Includes Water-in-Fuel Sensor	4/0	4
<b><u>WHEELS, TIRES - FRONT</u></b>		
WHEELS, FRONT {Maxion F22.53449} DISC; 22.5x8.25 Rims, Painted Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with .490" Thick Increased Capacity Disc and Steel Hubs	12/0	12
(3) TIRE, FRONT 12R22.5 Load Range H HSR 3 (CONTINENTAL), 484 rev/mile, 75 MPH, All-Position	48/0	48
<b><u>WHEELS, TIRES - REAR</u></b>		
WHEELS, REAR {Maxion 91541} DUAL DISC; 22.5x8.25 Rims, Painted Steel, 2-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs	0/-8	-8
(8) TIRE, REAR 11R22.5 Load Range H HDR2+ (CONTINENTAL), 491 rev/mile, 75 MPH, Drive	0/40	40
<b><u>WHEELS, SPARE</u></b>		
WHEEL, SPARE, DISC {Maxion 91541} 22.5x8.25 Rims, Painted Steel, 2-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted	0/66	66
<b><u>WHEELS MISC OPTIONS</u></b>		
HUB BRAND, FRONT {ConMet PreSet Plus Premium} Front Hubs in lieu of Standard Source Hubs	0/0	0

<u>Description</u>	<u>F/R Wt</u>	<u>Tot Wt</u>
	(lbs)	(lbs)
HUB BRAND, REAR {ConMet PreSet Plus Premium} Rear Hubs In Lieu Of Standard Source Hubs	0/0	0
HUB CAPS (2) {Stemco Sentinel} Vented, Front	5/0	5
PAINT IDENTITY, FRONT WHEELS Disc Front Wheels; with Vendor Applied White Powder Coat Paint	0/0	0
PAINT IDENTITY, REAR WHEELS Disc Rear Wheels; with Vendor Applied White Powder Coat Paint	0/0	0
WHEEL BEARING, FRONT, LUBE {EmGard FE-75W-90} Synthetic Oil	0/0	0
TIRE, SPARE Equal to Model Standard	0/121	121

**WHEELS, TIRES - LIFT AXLE**

WHEELS, LIFT AXLE PUSHER {Accuride 51408} Single Wheels, For One Lift Axle; 22.5x8.25 Rims, Powder Coat Steel, 2-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut << Pricing Includes Standard Tires >>	95/265	360
(2) TIRE, PUSHER 11R22.5 Load Range H AH37 (HANKOOK), 499 rev/mile, 75 MPH, All-Position	0/0	0

**BODY INTEGRATION**

BDY INTG, REMOTE POWER MODULE Mounted Inside Cab Behind Driver Seat, Up to 6 Outputs & 6 Inputs, Max 20 amp per Channel, Max 80 amp Total; Includes 1 Switch Pack Containing 6 Momentary Switches	0/0	0
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**Services Section:**

**WARRANTY**

WARRANTY Standard for HX520, HX620, Effective with Vehicles Built January 1, 2021 or Later, CTS-2015B	0/0	0
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**Total Component Weight:**

**11052/9050**    **20102**  
 (lbs)            (lbs)

(lbs)            (lbs)

Upfit of wet kit, PTo, Headache rack and all other ancillary equipment	0/0	0
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**Total Goods Purchased:**

**0/0**            **0**

The weight calculations included in this proposal are an estimate of future vehicle weight. The actual weight as manufactured may be different from the estimated weight. Navistar, Inc. shall not be liable for any consequences resulting from any differences between the estimated weight of a vehicle and the actual weight.

<u>Description</u>	(US DOLLAR)	<u>Price</u>
Factory List Prices:		
Product Items	\$307,394.00	
Service Items	\$0.00	
Total Factory List Price Including Options:		\$307,394.00
Total Goods Purchased:		\$25,000.00
Fuel for delivery	\$650.00	
Total Preparation And Delivery:		\$650.00
Freight	\$3,100.00	
Total Freight:		\$3,100.00
Total Factory List Price Including Freight:		\$336,144.00
Less Customer Allowance:		(\$166,569.67)
Total Vehicle Price:		\$169,574.33
Total Sale Price:		\$169,574.33
Total Per Vehicle Sales Price:		\$169,574.33
Net Sales Price:		\$169,574.33

Please feel free to contact me regarding these specifications should your interests or needs change. I am confident you will be pleased with the quality and service of an International vehicle.

**Approved by Seller:**

**Accepted by Purchaser:**

\_\_\_\_\_  
Official Title and Date

\_\_\_\_\_  
Firm or Business Name

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Authorized Signature and Date

**This proposal is not binding upon the seller without Seller's Authorized Signature**

\_\_\_\_\_  
Official Title and Date

The TOPS FET calculation is an estimate for reference purposes only. The seller or retailer is responsible for calculating and reporting/paying appropriate FET to the IRS.

The limited warranties applicable to the vehicles described herein are Navistar, Inc.'s standard printed warranties which are incorporated herein by reference and to which you have been provided a copy and hereby agree to their terms and conditions.

**LIMITED WARRANTY FOR HX**

\*Effective with vehicles built January 01, 2021 or later

**Basic Vehicle**

Navistar®, Inc., at its option, will repair or replace any part of this vehicle that proves defective in material or workmanship, in normal use and service, with new or RENEWED™ parts, based on the Component Coverages below.

<b>Coverage</b>	<b>Months</b>	<b>Miles</b>	<b>Kilometers</b>	<b>Hours</b>
Basic Vehicle Warranty	12	Unlimited	Unlimited	Unlimited
Basic Vehicle Warranty with Non-Navistar Engine	12	Unlimited	Unlimited	Unlimited
Towing (Vehicles with International A26 Engine Failures Only)	24	Unlimited	Unlimited	Unlimited
Towing (Vehicles with Navistar N13 Engine Failures Only)	24	Unlimited	Unlimited	Unlimited
Frame Side Rails	60	Unlimited	Unlimited	Unlimited
Cab/Cowl Structure	60	Unlimited	Unlimited	Unlimited
Aluminum Cab/Cowl Perforation Corrosion	60	Unlimited	Unlimited	Unlimited
Steel Cab/Cowl Perforation Corrosion	120	Unlimited	Unlimited	Unlimited
International A26 Engine (Non-Rescue Applications)	24	Unlimited	Unlimited	Unlimited
Navistar N13 Engine (Non-Rescue Applications)	24	Unlimited	Unlimited	Unlimited
International A26 Major Components (Non-Rescue Applications)	60	500,000	800,000	Unlimited
Navistar N13 Major Components (Non-Rescue Applications)	60	500,000	800,000	Unlimited
International A26 Engine (Rescue Applications)	60	100,000	160,000	Unlimited
Navistar N13 Engine (Rescue Applications)	60	100,000	160,000	Unlimited
Front Axle Assembly (Rear Axle Weight Ratings Greater than 52,000 lb)	12	Unlimited	Unlimited	Unlimited
Rear Axle and Differential (Rear Axle Weight Ratings Greater than 52,000 lb)	12	Unlimited	Unlimited	Unlimited
Transmission (Rear Axle Weight Ratings Greater than 52,000 lb)	12	Unlimited	Unlimited	Unlimited
Front Axle Assembly (Rear Axle Weight Ratings of 52,000 lb and Less)	36	300,000	480,000	Unlimited
Rear Axle and Differential (Rear Axle Weight Ratings of 52,000 lb and Less)	36	300,000	480,000	Unlimited
Transmission (Rear Axle Weight Ratings of 52,000 lb and Less)	36	300,000	480,000	Unlimited
Brightwork, Chassis Paint and Corrosion (Other than Cab)	6	Unlimited	Unlimited	Unlimited
Hood/Cab Paint	12	Unlimited	Unlimited	Unlimited
First 90 Days from Delivery to User (DTU) + Towing	3	Unlimited	Unlimited	Unlimited
Federal Emissions Coverage (Medium/Heavy, Heavy Duty Diesel Engine)	60	100,000	160,000	Unlimited
Federal Emissions Coverage (Medium/Heavy, Heavy Duty Diesel Engine Non-Navistar)	60	100,000	160,000	Unlimited
Towing (Vehicles with International S13 Engine Failures Only)	24	Unlimited	Unlimited	Unlimited
Towing (Vehicles with International T14 Transmission Failures Only) (Rear Axle Weight Ratings Greater than 52,000 lb)	24	Unlimited	Unlimited	Unlimited
Towing (Vehicles with International T14 Transmission Failures Only) (Rear Axle Weight Ratings of 52,000 lb and Less)	36	Unlimited	Unlimited	Unlimited
International S13 Engine (Non-Rescue Applications)	24	Unlimited	Unlimited	Unlimited
International S13 Major Components (Non-Rescue Applications)	60	500,000	800,000	Unlimited
International T14 Transmission and Mounted PTO (Rear Axle Weight Ratings Greater than 52,000 lb)	24	Unlimited	Unlimited	Unlimited
International T14 Transmission and Mounted PTO (Rear Axle Weight Ratings of 52,000 lb and Less)	36	Unlimited	Unlimited	Unlimited
International T14 Clutch (Rear Axle Weight Ratings Greater than 52,000 lb)	24	Unlimited	Unlimited	Unlimited
Federal Emissions Coverage (International S13 Engine )	60	100,000	160,000	Unlimited
Greenhouse Gas Emissions Coverage	60	100,000	160,000	Unlimited
International S13 Engine (Rescue Applications)	60	100,000	160,000	Unlimited
International T14 Clutch (Rear Axle Weight Ratings of 52,000 lb and Less)	36	Unlimited	Unlimited	Unlimited

**Navistar Diesel Engine Coverage Includes:**

Engine block, cylinder heads, internally lubricated components, fuel pump, high pressure pump, turbocharger, water pump, air compressor, injectors/ nozzles; electronic engine modules, engine relays, engine sensors and regulators required for electronic engine operation, and certain aftertreatment components. Excluding: attaching accessories (e.g., fan clutch, alternator, starter, etc.), and externally mounted electrical and filtration systems.

## What is Not Covered Under Basic Coverage

### Components/Items

- Components warranted by their respective manufacturers (such as non-International® brand engines, tires, Allison transmissions, lubricants, Cummins engines, Agility fuel systems, etc.)
- Bodies, equipment, and accessories installed by other than authorized International Truck employees at International Truck manufacturing plants
- Front and rear axle alignment
- Front and rear axle coverage excludes brakes, wheel ends, axle shafts, controls and attachments

### Repairs & Maintenance

- Maintenance-related items/repairs, or those needed as a result of normal wear and tear, including tune-ups, brake/clutch linings, windshield wiper blades, tire balancing, lubrication, and other similar procedures/parts required to keep vehicle in good working condition
- Failures that are the result of poor fuel quality, water in fuel, rust, etc.
- Repairs needed as a result of vehicle misuse, negligent care, improper maintenance, improper operation, or the result of accident or collision
- Fade, runs, mismatch or damage to paint, trim items, upholstery, chrome, polished surfaces, etc., resulting from environmental causes such as improper polishes, cleaners or washing solutions, or chemical and industrial fallout
- Failure to observe published capacity or load specifications for engine, transmission, propeller shaft, axles (powertrain) and suspension

### Other

- Vehicles sold and/or operated outside the United States and Canada
- This exception does not apply to vehicles that meet current US EPA emission standards, which were sold by an International dealer located in Mexico, if the vehicle is authorized by the US DOT to operate in long-haul, cross border transportation and the vehicle is only operated in the United States, Canada, and Mexico
- Vehicles/components that have had unauthorized alterations or modifications
- Vehicles on which the odometer reading has been altered
- Loss of time or use of the vehicle, loss of profits, inconvenience, or other consequential or incidental damages or expenses
- Replacement of defective parts with parts other than those provided by Navistar, Inc.

## Obtaining Service

Return this vehicle to any International Truck dealer authorized to service this model vehicle and engine.

*This warranty is automatically transferred to subsequent owners at no charge. Visit your local Authorized International® Truck dealer for name and address change information.*

**Note: The customer has 365 days and up to a maximum of 100,000 miles (160,000 km) from DTU to purchase an extended warranty on the unit. For extended warranty purchases between 181 and 365 days from DTU and <100,000 miles (160,000 km) an additional fee will be assessed. See your local International® dealer for details.**

## Disclaimer

NO WARRANTIES ARE GIVEN BEYOND THOSE DESCRIBED HEREIN. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. THE COMPANY SPECIFICALLY DISCLAIMS WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OTHER REPRESENTATIONS TO THE USER/PURCHASER, AND ALL OTHER OBLIGATIONS OR LIABILITIES. THE COMPANY FURTHER EXCLUDES LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES, ON THE PART OF THE COMPANY OR SELLER.

No person is authorized to give any other warranties or to assume any liabilities on the Company's behalf unless made or assumed in writing by the Company, and no other person is authorized to give any warranties or to assume any liabilities on the seller's behalf unless made or assumed in writing by the seller.

Remedies Under State or Provincial Law: Some States and Provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to the owner. This warranty gives the owner specific legal rights, and he may also have other legal rights which may vary by state or province.

## Telematics Data Disclosure

Your Navistar vehicle may include an activated telematics subscription service. By accepting this Limited Warranty, you consent to our collection and use of data from your vehicle as set forth at [www.oncommandconnection.com](http://www.oncommandconnection.com) on behalf of yourself and any vehicle operators and passengers. Navistar, Inc., or its affiliates will collect and send diagnostic and system data from your vehicle and use it for various purposes as further set forth in our Privacy Policy, posted at [www.oncommandconnection.com](http://www.oncommandconnection.com), such as improving the uptime for your vehicle, improving our vehicles in the future, and reducing warranty events. If you choose not to allow Navistar to access your data, you may suspend your subscription at [www.InternationalTrucks.com/Opt-Out](http://www.InternationalTrucks.com/Opt-Out).

**Record of Ownership**

Upon receipt of new vehicle by original owner, complete the following:

I have read this Warranty Brochure and fully understand the warranty coverage. I acknowledge that I have received a copy of the Owner's Limited Warranty and I accept the terms described herein.

\_\_\_\_\_  
**Customer Signature**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**Owner's Address**

\_\_\_\_\_  
**City**

\_\_\_\_\_  
**State/Prov Postal Code**

\_\_\_\_\_  
**Truck Model**

\_\_\_\_\_  
**Vehicle Identification Number**

\_\_\_\_\_  
**Engine Model Number**

\_\_\_\_\_  
**Engine Serial Number**

\_\_\_\_\_  
**Date Delivered to User (DTU)**

\_\_\_\_\_  
**Odometer Reading at Delivery**

*IMPORTANT: The information contained in this Warranty Policy explains the coverage provided on your new International vehicle. This policy should be kept in the vehicle for presentation to the Dealer when you request warranty services.*

City of Douglas Spec deviations

Daycab Tractor

July 29,2024

I Engine and Equipment

#5 1325 Sq inch radiator. It is sized to the proper cooling requirements for this powertrain.

#9 Some components are aluminum instead of stainless for weight savings

V Rear axle

#13 Bendix ILO wabco

VI Suspension

#2 55" axle spacing

VII Pusher

#1 Watson and Chalin ILO of Hendrickson See Spec attached

Brake system

#1 Bendix ILO of Wabco

#6 Mounted in frame rail behind cab

IX Wheelbase and frame

#3 65" Overhang

#7, #9,#10 aluminum crossmembers not available

XI Fifth Wheel

#6 Feature not available

XVI Cab exterior

#1. All steel cab

#6 Air intake comes through front grille

#13 LED not available currently

#15 Turn signal lamp not available in c loop pedestal style is in this offer

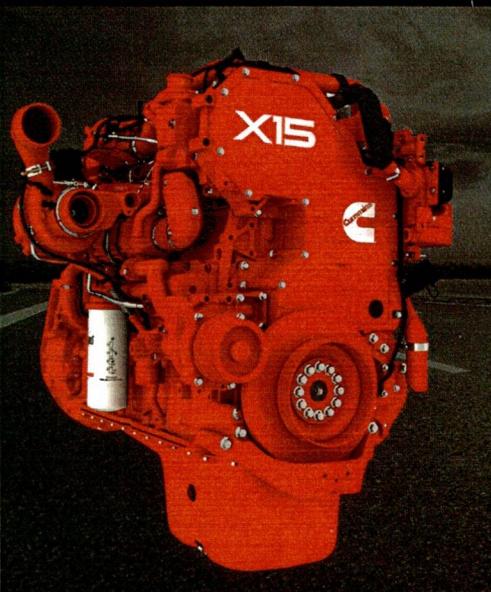
#18 Heated hood mirror not available. Mirror is included in spec

#19 Windshield is bonded not roped

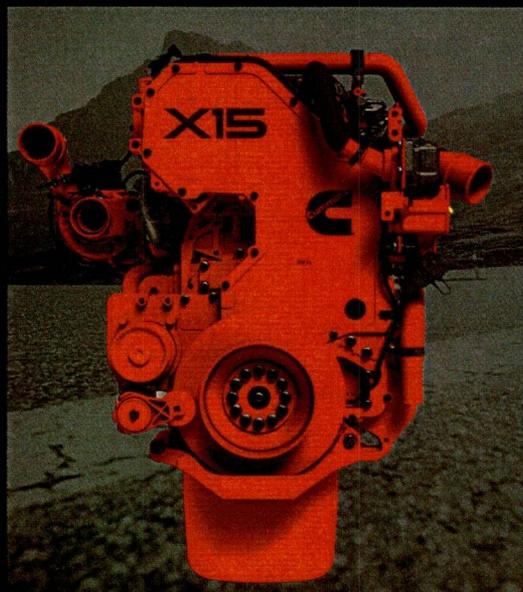
**“WE SHOULD DO  
EVERYTHING IN  
OUR POWER...”**

**- CLESSIE CUMMINS**

## CUMMINS 2021 X15™ ENGINE PORTFOLIO



**EFFICIENCY SERIES**



**PRODUCTIVITY SERIES**



**PERFORMANCE SERIES**



**ALWAYS ON**

# YOU GET IT ALL.

Improvements made to the X15 lineup have been focused around customers' needs. It's more than just providing the most efficient engine that meets 2021 greenhouse gas standards. It's also about providing an engine that works for you. With a focus on uptime, total cost of ownership and ease of operations, the X15 lineup for 2021 is the best Cummins 15-liter yet. Starting with the most reliable 15-liter ever produced, to offering EX ratings for enhanced driver performance, the X15 gives you the confidence needed to improve your business without sacrificing anything.

## SPEND LESS. GO FURTHER.

Cummins X15 engines have some of the longest maintenance intervals in the transportation industry. Our Single Module™ aftertreatment system uses smart logic to inform the operator when the DPF finally needs to be maintained, well in advance of any unexpected downtime.

ITEM	SEVERE <5.0 MPG	SHORTHAUL 5.0 - 5.9 MPG	NORMAL 6.0 - 6.9 MPG	LIGHT >7.0 MPG
<b>OIL DRAIN INTERVAL LEVEL</b>	25,000 Mi 40,000 Km	50,000 Mi 80,000 Km	60,000 Mi 96,000 Km	75,000 Mi 120,000 Km
<b>X15 OIL DRAIN WITH VALVOLINE PB*</b>	30,000 Mi 48,000 Km	55,000 Mi 88,000 Km	65,000 Mi 105,000 Km	80,000 Mi 130,000 Km
<b>X15 OIL DRAIN WITH CUMMINS OILGUARD™ 1</b>	extensions available	extensions available	extensions available	Up to 100,000 Mi 160,000 Km
<b>FUEL FILTER<sup>2</sup></b>	25,000 Mi 40,000 Km	50,000 Mi 80,000 Km	60,000 Mi 96,000 Km	75,000 Mi** 112,000 Km
	SEVERE <5.5 MPG	NORMAL 5.5 - 6.5 MPG	LIGHT >6.5 MPG	
<b>DIESEL PARTICULATE FILTER<sup>3</sup></b>	200,000-400,000 Mi 320,000-640,000 Km	400,000-600,000 Mi 640,000-960,000 Km	600,000-800,000 Mi 960,000-1,300,000 Km	
<b>DIESEL EXHAUST FLUID FILTER</b>	250,000 Mi 400,000 Km	300,000 Mi 480,000 Km	300,000 Mi 480,000 Km	
<b>VALVE ADJUSTMENT</b>	500,000 Mi 800,000 Km	500,000 Mi 800,000 Km	500,000 Mi 800,000 Km	

\* Cummins recommends Valvoline Premium Blue (PB 8600ES)

\*\* Extending fuel filter interval from 60,000 miles to 75,000 recommends use of extended filter available through Cummins service network.

1 - Up to 100,000-mile oil drain interval with participation in Cummins OilGuard oil analysis program.

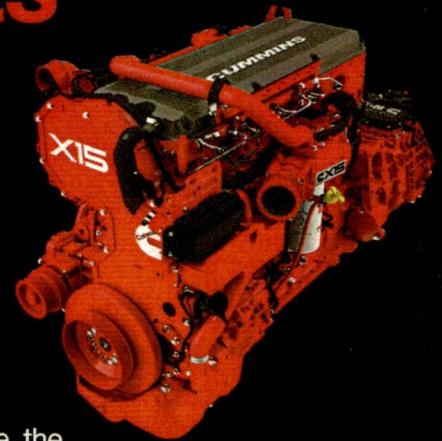
2 - For Premium Blue users, the fuel filter interval matches the ODI.

3 - Maintenance lamp will illuminate when DPF maintenance is needed. Cummins recommends replacing the DPF with a Genuine Cummins DPF at the time of ash maintenance interval.

# CUMMINS X15 EFFICIENCY SERIES

## THE POWER TO SAVE.

If you want the power to save on your bottom line, then meet the Cummins X15 Efficiency Series – with up to a 3.5% fuel economy improvement over the 2017 model with base engine and powertrain optimization, and up to an additional 1.5% fuel economy improvement when selecting an EX rating package. EX ratings combine the X15 Efficiency Series that you've come to trust with the Endurant HD transmission and GPS data to deliver a fully optimized powertrain package. On top of the power to save, the Efficiency Series delivers excellent drivability and uptime that you can take straight to the bank.



## THE POWER OF EX FEATURES.\*

**On-Ramp Boost:** This Cummins-exclusive feature momentarily disables fuel-saving features and augments the shift calibration to deliver greater acceleration when you need it most.

**Predictive Gear Shifting:** Leverages GPS data to downshift before the hill to maintain uphill speed.

**Predictive Engine Braking:** Looks at the grade ahead and can engage engine brakes early to aid in maintaining the desired maximum speed.

**Dynamic Power:** Adjusts torque in order to make lighter vehicles operate similarly to heavier vehicles on grades. This provides fuel savings on lightly loaded vehicles by delivering consistent performance across varying loads.

\*EX features require Endurant HD and GPS data. Availability of specific features varies by OEM.

## X15 EFFICIENCY SERIES SPECIFICATIONS

ADVERTISED HORSEPOWER	400 - 500 hp	298 - 373 kW
PEAK TORQUE	1450 - 1850 lb-ft	1966 - 2508 N • m
GOVERNED SPEED	1700 RPM	
CLUTCH ENGAGEMENT TORQUE	1000 lb-ft	1356 N • m
NUMBER OF CYLINDERS	6	
SYSTEM WEIGHT	3152 lb	1430 Kg
ENGINE (DRY)	2961 lb	1343 Kg
AFTERTREATMENT SYSTEM	191 lb	87 Kg



# THE POWER TO DELIVER.

**WORK GLOVES. HARD HAT.  
STEEL-TOED BOOTS.**

X15 Productivity Series ratings are designed, built and optimized for vocational, specialty, multi-purpose and heavy-haul applications. Whether you're transporting raw materials in a quad-axle dump, moving 130,000 GVW down the interstate or need reliability in emergency applications, Cummins delivers the power you need – with torque to match.

Components have been carefully selected to match output characteristics and load demands. Ratings from 430-500 horsepower share proven hardware from the X15 Efficiency Series, while ratings from 565-605 hp utilize higher-capacity hardware from the X15 Performance Series.

Front-end PTO capability is another feature of the Productivity Series that makes these ratings the ideal choice for applications that require unique power demands.

With available ratings of up to 605 hp and 2050 lb-ft of peak torque, the X15 Productivity Series has the highest power output of any on-highway engine in North America, with a longer power curve than any engine in its class – making it the best choice for heavy-haul applications where having massive pulling power is the most mission-critical factor.



## X15 PRODUCTIVITY SERIES SPECIFICATIONS

ADVERTISED HORSEPOWER	430 - 605 hp	321 - 451 kW
PEAK TORQUE	1650 - 2050 lb-ft	2237 - 2779 N • m
GOVERNED SPEED	2000 - 2100 RPM	
CLUTCH ENGAGEMENT TORQUE	1000 lb-ft	1356 N • m
NUMBER OF CYLINDERS	6	
SYSTEM WEIGHT	3152 lb	1430 Kg
ENGINE (DRY)	2961 lb	1343 Kg
AFTERTREATMENT SYSTEM	191 lb	87 Kg



# THE POWER TO PERFORM.

What does it mean to have the power to perform? It means that your drivers brag about how powerful the engine under their hood is. We listened to customers who said they needed to pull heavy loads over mountainous terrain and we built the X15 Performance Series to deliver on that while not sacrificing uptime.

With ratings ranging from 525-565 hp with 1850-2050 lb-ft of torque available at 1000 rpm, the Performance Series ratings are optimized for premium and heavy long-haul customers.

The X15 Performance Series delivers more than just power and drivability. Rugged durability is ensured by the use of proven hardware while continuous improvements have resulted in reliability that provides peace of mind for trucking operations. Demand nothing less than the power to perform.



## X15 PERFORMANCE SERIES SPECIFICATIONS

ADVERTISED HORSEPOWER	525-565 hp	391-451 kW
PEAK TORQUE	1850-2050 lb-ft	2508-2279 N • m
GOVERNED SPEED	1900 RPM	
CLUTCH ENGAGEMENT TORQUE	1000 lb-ft	1356 N • m
NUMBER OF CYLINDERS	6	
SYSTEM WEIGHT	3152 lb	1430 kg
ENGINE (DRY)	2961 lb	1343 kg
AFTERTREATMENT SYSTEM	191 lb	87 kg



## PROVEN COMPONENTS. PROVEN TECHNOLOGY.

- **VGT Turbocharger** – Highly reliable and precise design for rapid acceleration
- **XPI Fuel System** – High pressure enables multiple injection events per cycle for industry-leading fuel economy and quieter operation
- **Single Module™ Aftertreatment System** – A compact and lightweight system that offers increased ash capacity for industry-leading Diesel Particulate Filter maintenance intervals of up to 800,000 miles and improved serviceability compared to modular systems
- **Fleetguard Fuel And Lube Filters** – Superior holding capacity provides better protection and enables longer service intervals
- **High-Capacity Electronic Control Module** – This allows full integration of data inputs from all subsystems, optimizing performance
- **Cummins Engine Brake** – With up to 600 braking horsepower, it's the most powerful in the industry. Stronger braking capacity reduces wear on service brakes and replacement costs

## CUMMINS WARRANTY – CONFIDENCE IN WRITING.

The base engine warranty coverage\* on Cummins X15 engines includes parts and labor on warrantable failures for both the engine and aftertreatment system – with no deductible. Cummins base warranty coverage is good for 2 years/250,000 miles (402,336 km).

Cummins wide variety of extended coverage plans allows you to make financial projections with complete confidence, with protection plans for up to 7 years or up to 600,000 miles (804,672 km) on registered parts and labor. Cummins extended coverage plans are available covering internal components and major engine systems, including the turbocharger, water pump and fuel injectors, air compressor, fuel pump and select engine sensors. New Protection Plan Plus and aftertreatment extended coverage plans allow customers to add coverage for additional components beyond what is covered by standard extended coverage plans.

\*Covers defects in Cummins materials or factory workmanship.

## KEEPING YOU ON THE ROAD. NOT IN THE BAY.

Cummins Care makes your workload easier by creating a seamless support experience. You can expect to get complete solutions while working with one of over 3,700 authorized parts and service locations. Visit [care.cummins.com](http://care.cummins.com) or call 1-800-CUMMINS™ (1-800-286-6467) to connect with a Cummins Care expert. The Cummins Guidanz™ mobile app and INLINE™ mini-adaptor allow for key engine information to be downloaded on a smartphone or tablet. You don't even have to wait in line for a diagnostic bay to open – your vehicle's info can be downloaded while you stand right outside the cab. Cummins suite of Connected Solutions uses wireless technology to manage your engine's health. This includes Connected Diagnostics, our Connected Advisor program and Connected Software Updates that let you update engine control module calibrations over the air, from the road or wherever your trucks are domiciled.



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[cummins.com](http://cummins.com)

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**INTERNATIONAL<sup>®</sup> HX<sup>®</sup> SERIES**



**INTERNATIONAL HX SERIES.**





# BRUTE FORCE MEETS SURGICAL PRECISION.

The International® HX® Series, now available with the International® S13 Integrated Powertrain.

Built to endure, thrive, and dominate any assignment, it's hard to imagine a truck with more capability than the International® HX® Series. But that's exactly what the engineers at International® Truck have done by adding the revolutionary International® S13 Integrated Powertrain as an option on the HX620. With its multiple factory-installed PTO options, easy serviceability, and precise low-speed maneuverability, the HX Series is engineered to raise the bar (and profits) at worksites everywhere.





SEVERE DUTY JOB?  
**BRING IT.**





The International® HX Series has always been the go-to truck for the toughest applications. But it's also been the go-to truck for those who appreciate the finer things in life. Like best-in-class interior space, premium materials and a driver's seat designed to provide comfort and support load after load. Plus, thanks to features like built-in Diamond Logic™ multiplex technology, and factory-installed lift axle options, the HX Series is a body company's dream.



# IT ALL COMES TOGETHER

A clean sheet of paper and decades of experience. That's what the engineering team started with when they began work on the International® S13 Integrated Powertrain. And this wasn't just any team. This was a dream team of engineers located literally all over the world. Thanks to a spirit of collaboration between partner companies, the team was able to shift what's possible and rethink, redesign and reinvent what an integrated powertrain can be. The result is the S13 Engine, T14 Transmission, Dual Stage Aftertreatment system and nine PTO options — which, combined, make up the S13 Integrated Powertrain. A powertrain that delivers stellar performance, is easy to service and is at home on the toughest jobsites.

## HIGH-PRESSURE FUEL SYSTEM

- ▶ Improved efficiency with less parasitic loss
- ▶ 1800 bar

## 9-BLADE FAN

- ▶ Converted from an 11-blade to a 9-blade for additional efficiency improvement

## WATER PUMP

- ▶ Low displacement, low parasitic losses

## T14 TRANSMISSION

- ▶ 14-speed single countershaft geartrain transmission with 2 crawler gears and a 26.7 overall ratio is designed for slow speed maneuverability as well as performance at highway speeds
- ▶ Electronic clutch actuator for smooth starting and fast shifting

## OIL FILTER

## FUEL FILTER

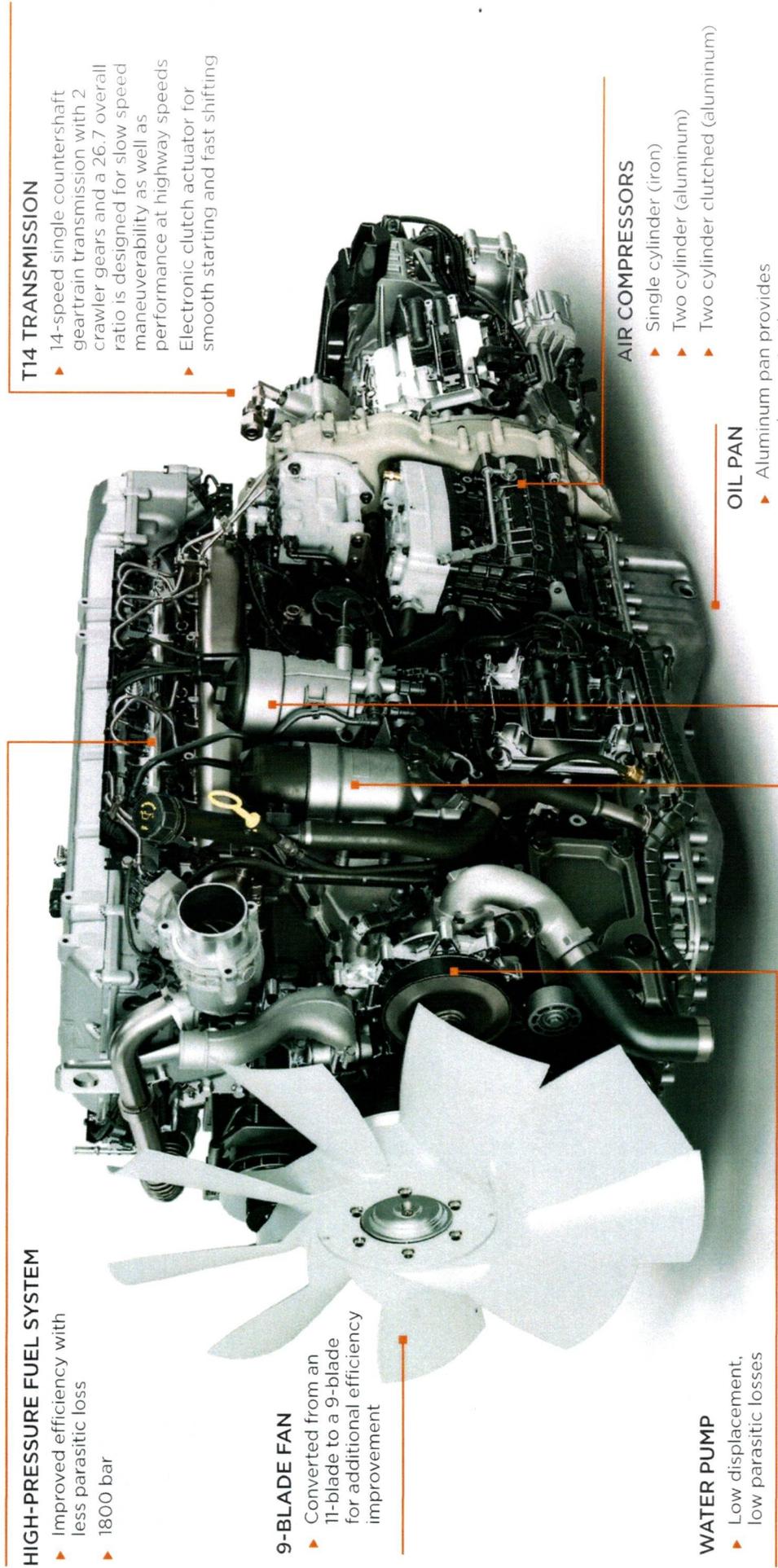
- ▶ Offered with industry leading systems

## OIL PAN

- ▶ Aluminum pan provides corrosion protection

## AIR COMPRESSORS

- ▶ Single cylinder (iron)
- ▶ Two cylinder (aluminum)
- ▶ Two cylinder clutched (aluminum)



#### DUAL STAGE AFTERTREATMENT

- ▶ Compact design for more frame rail mounting space
- ▶ No active DPF regen
- ▶ No diesel oxidation catalyst

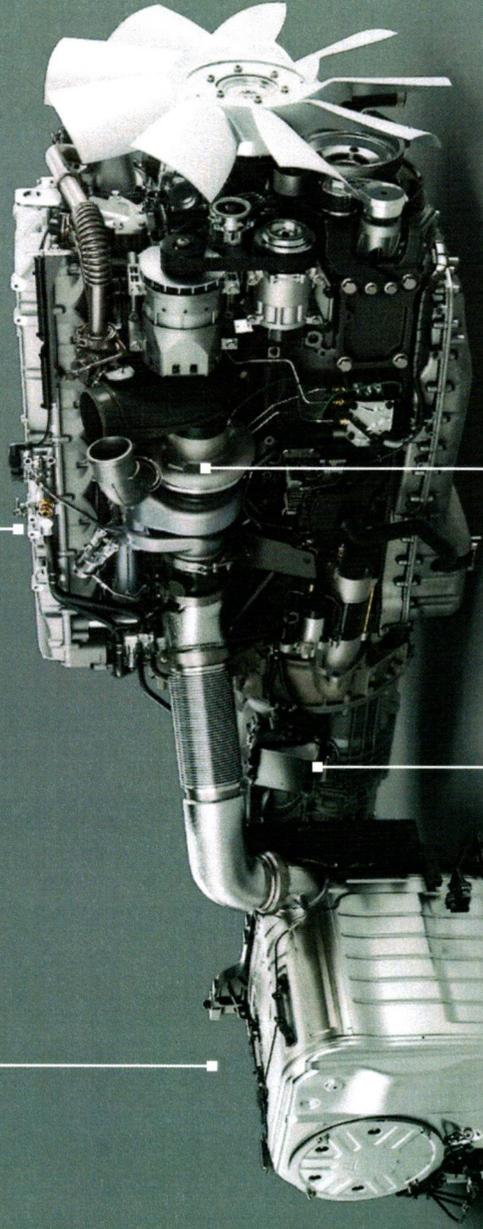


#### ELIMINATION OF EGR COOLER

- ▶ Improved reliability

#### ALUMINUM VALVE COVER

- ▶ Rugged and lightweight

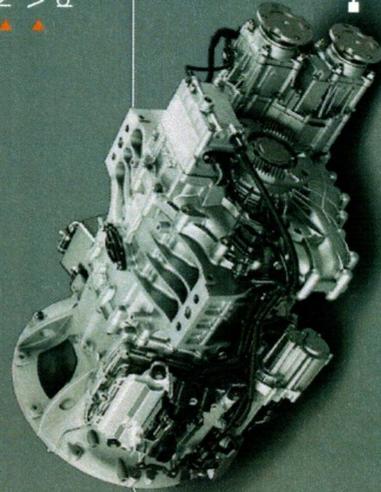


#### FIXED GEOMETRY TURBO

- ▶ More reliable and efficient design

#### STANDARD INTEGRAL HEAT EXCHANGER AND OIL SYSTEM

- ▶ No horsepower or torque restrictions
- ▶ Variable oil system with dry sump in high range allows for reduced parasitic loss



#### FACTORY INSTALLED PTOs AVAILABLE

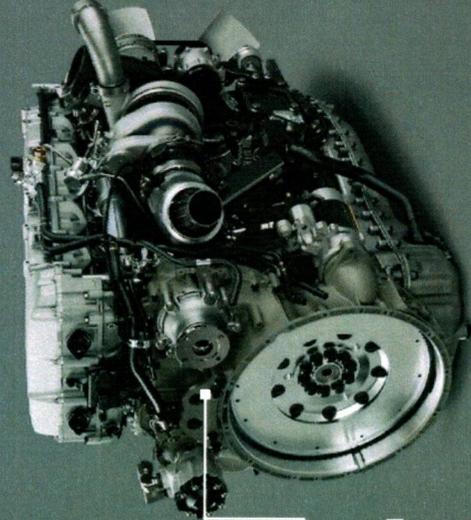
- ▶ Single and dual transmission PTOs available with a variety of common interfaces, installed directly at the factory
- ▶ REPTO and FEPTO options available without horsepower restrictions

### READY TO WORK: ON THE ROAD OR AT THE JOBSITE

The International® S13 Integrated Powertrain was designed with hard work in mind. The S13 delivers performance through its robust lightweight design, optimized gearing, and no active regens leading to more payloads delivered on the jobsite.

- Outstanding payload capacity
- Simple design, easy serviceability
- Exceptional fuel economy
- Nine PTO options including a dual option

Plus, thanks to the seamless integration of OnCommand® Connection Advanced Remote Diagnostics, the visibility into the health, location and performance of your assets has never been more accessible.



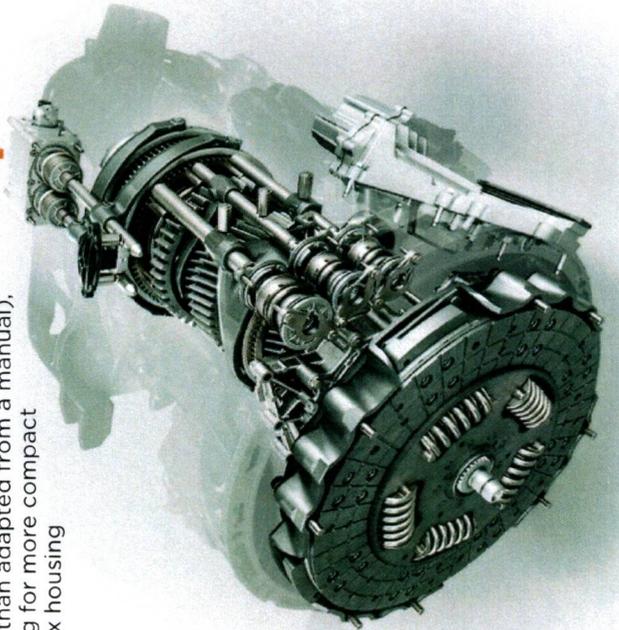


# SHIFT WHAT'S POSSIBLE.

Any engine, no matter how well designed, is only as good as the transmission it's mated to. Delivering the power to the road in a smooth, predictable manner is no small feat when you consider the amount of torque of heavy-duty trucks. By starting with a clean sheet of paper, our engineers behind the S13 Integrated Powertrain were able to make sure the engine and transmission work in perfect harmony. The result is the fully automated T14 manual transmission with 14-speed overdrive. Its shifts are seamless and require no input from the driver in terms of being in the right gear at the right time.

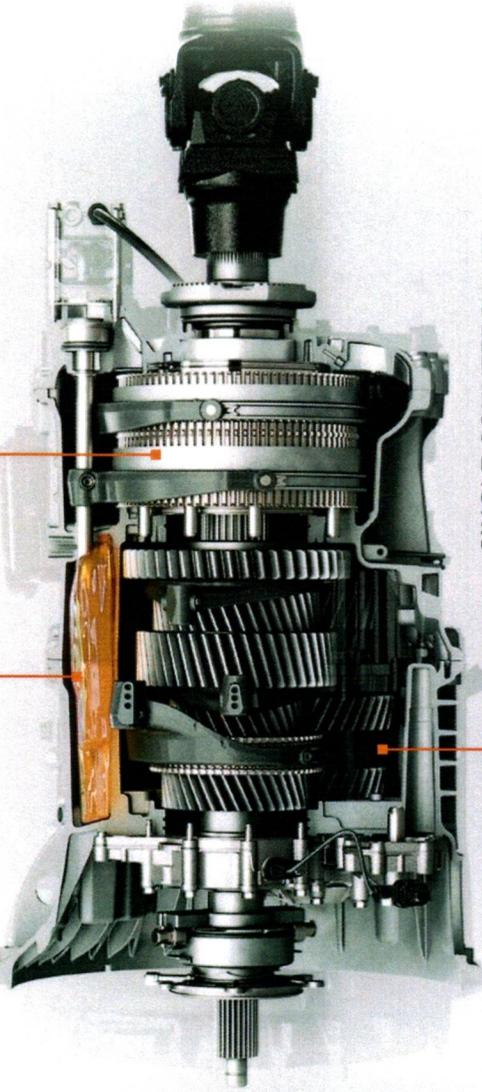
## SHIFT ACTUATORS

- Shift actuator packaging was designed specifically for automated functionality (rather than adapted from a manual), allowing for more compact gearbox housing



## VARIABLE OIL LEVEL UPPER RESERVOIR

- Oil is pumped to the reservoir under lower loads to reduce parasitic losses, allowing for the continuous lubrication of gears by the oil sprayers



## PLANETARY GEARS

- The planetary gear set eliminates the need for a dedicated reverse gear, shortening the gearbox and allowing for better packaging within the chassis

## SINGLE COUNTERSHAFT

- A single countershaft with helical gears lowers the overall weight of the unit without compromising the durability or performance of the transmission

## THE TRANSMISSION CONTROL MODULE (TCM)

Features like predictive cruise control, neutral coast, downhill speed control, and predictive shifting, can now be found in one module — the TCM. Combining these features into one module means the vehicle feels more natural and intuitive and, ultimately, more efficient.

The transmission has an electronically controlled clutch actuator that works in sync with the engine to deliver faster, smoother shift performance. Since clutch engagement does not consume air during low speed maneuvers while navigating a tight job site, the drive never needs to stop and let the air recharge.



## DRIVE MODES

Three different shift modes for ultimate control for the driver

- ▶ Performance — Predictive shifting with fuel efficiency focus
- ▶ Performance+ — Perfect balance
- ▶ Off-road — Shifting at peak power with focus on performance



## DOWNHILL SPEED CONTROL

Cruise control using the engine brake to slow down to a specific speed.

## ROCKING MODE

Extracts a truck that has sunk into the ground by rocking it back and forth (without spinning the wheels) until it's free.

## PAVER MODE

Enables the truck to be shifted from neutral into a forward gear without the driver needing to depress the brake. This helps ensure the smooth/uninterrupted delivery of material into the following asphalt paver.

## MANEUVERING MODE

Gives the driver more control of the vehicle in low speeds for specific movements such as navigating a tight construction site.

## CREEP MODE

Allows the vehicle to automatically move both in drive and reverse when the brake pedal is released.

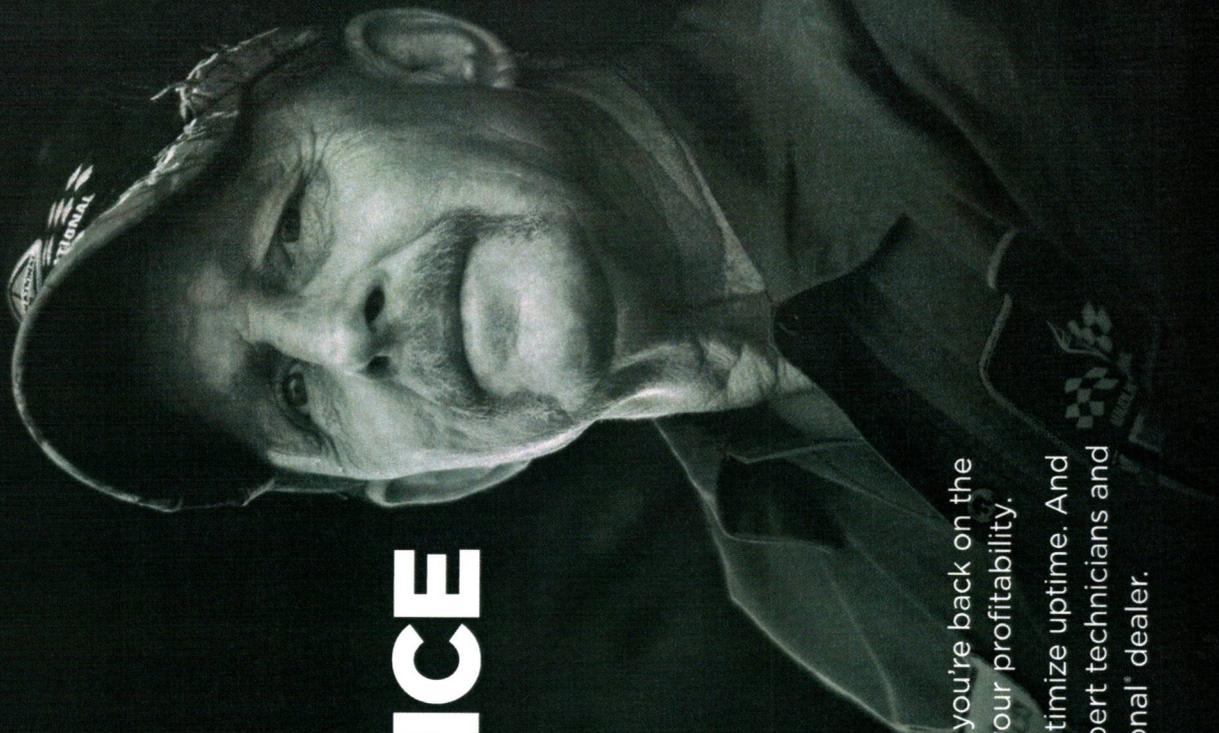


# SIMPLIFIED MAINTENANCE MAXIMIZES UPTIME.

**Keeping you on the  
road to profitability.**

The faster your truck can be serviced, the faster you're back on the road, meeting delivery schedules and boosting your profitability.

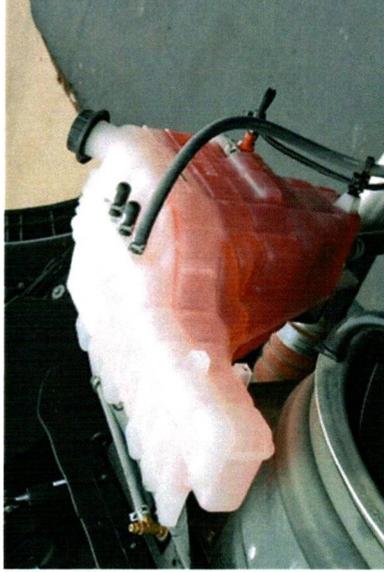
The HX<sup>®</sup> Series is designed and engineered to optimize uptime. And when you do need service, you can count on expert technicians and an extensive parts inventory from your International<sup>®</sup> dealer.





## Simplified and optimized to keep you moving forward.

Every last part of the International® S13 Integrated Powertrain is engineered to be revolutionary, and its aftertreatment is no exception. It's built with a dual-stage SCR system—an advanced technology that removes the EGR cooler, diesel oxidation catalyst (DOC), and exhaust system fuel dosing—creating a system that doesn't require active regener.



Translucent containers allow you to check fluid levels at a glance.



Tethered caps on most fluid containers prevent dropped or lost caps while refreshing fluids.

### UPTIME IS ABOUT THE DETAILS

- ▶ Driver controls and instrumentation are based on robust industry-standard SAE J1939 electrical architecture, with gauge cluster and switches designed to keep drivers focused and maximize uptime.
- ▶ Cab wiring features a power distribution module that's located inside the cab, protected from the elements.
- ▶ ChemGuard coating under the cab floor provides further corrosion protection.
- ▶ Models equipped with the International® A26 or the S13 Integrated Powertrain include over-the-air cellular programming for approved engine calibration and programmable parameters (Cummins' X15 includes engine calibration updates).

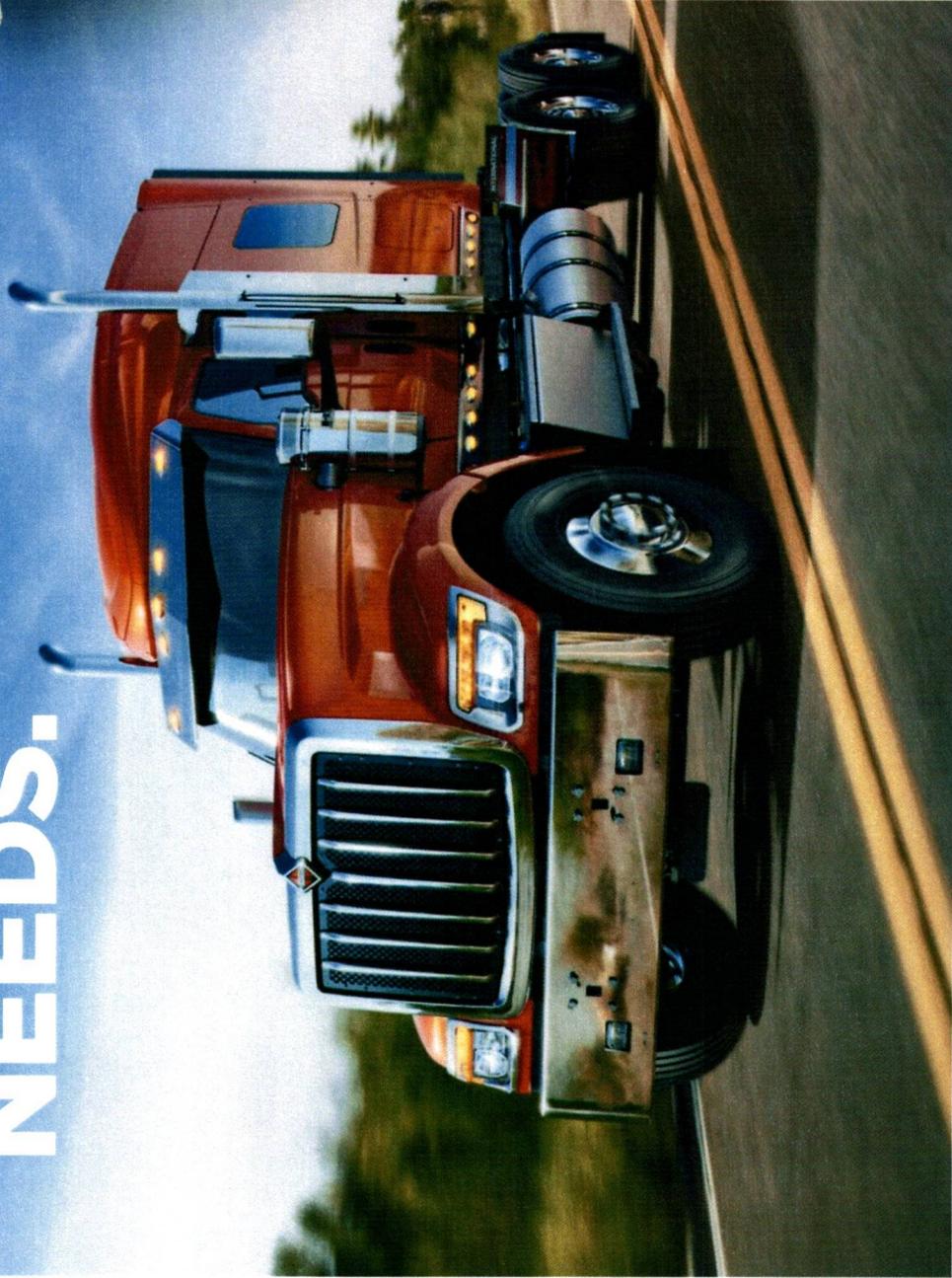
### KEY FEATURES

- ▶ Reduced engine soot for extended DPF service intervals
- ▶ Easy access to DPF for easy serviceability
- ▶ No diesel oxidation catalyst
- ▶ No fuel dosing
- ▶ 2 years unlimited miles, unlimited hours





# SOLUTIONS FOR WHATEVER YOUR BUSINESS NEEDS.



## INTERN

The International® A26 engine offers premium performance in an advanced, fuel-efficient 12.4L design. The A26 produces up to 515 hp and 1,850 lb.-ft. of torque from a design with a best-in-class dry weight of 2,314 lbs. and is 600 to 700 lbs. lighter than traditional big bore engines. It also features North America's first Class 7-8 Compacted Graphite Iron (CGI) crankcase design.

# ATIONAL® A26

## Lightweight, Quiet, and Efficient Power



**Variable Geometry Turbocharger** — Titanium compressor wheel provides excellent longevity. Serviceable electronic actuator increases uptime and reduces service cost.

**Jacobs Engine Brake** — Variable Geometry Turbocharger improves engine braking performance, particularly at low-to-mid-RPMs and higher altitudes.

**2500 Bar High-Pressure Common Rail Fuel System** — Delivers maximum fuel injection pressure (36,300 psi) to reduce emissions and fuel consumption, with multiple injection events for smooth and quiet operation.

**Lightweight design** — Compacted Graphite Iron crankcase, shot-peened aluminum flywheel housing, composite valve covers, and a hollow camshaft deliver a lightweight design, maximizing payload capacity.

**Cold starting** — Cold starting down to -40°F with available oil heater, coolant heater, and cold start system with unaided cold starting down to 10°F for dependable starting in extreme climates or when plug-in heating isn't available.



# CUMMINS® X15

## Proven Muscle for the Long Haul

The X15 Efficiency Series produces up to 500 hp with advanced fuel-saving technology that includes dynamic electronic controls with ADEPT features, enhanced engine breathing and an optimized combustion process that leverages Cummins' proprietary VGT™ Turbo and XPI fuel system.

**VGT Turbocharger** — Featuring a patented sliding nozzle ring, the VGT Turbocharger used on Cummins X15 engines offers higher boost pressures at low engine speeds.

**XPI Fuel System** — High pressure enables multiple injection events per cycle for industry-leading fuel economy and quieter operation. With a standard thermal recirculation valve, the X15 is prepared to handle even the most challenging weather conditions.

**Single-Module™ Aftertreatment System** — Compact and lightweight, the Single-Module Aftertreatment provides better heat management and retention, delivering improved fuel economy compared to previous aftertreatment systems.



**BUILT AROUND YOU.**





## The business-end of any truck is actually behind the steering wheel.

It's the drivers that complete the job and we made sure it's the drivers who get rewarded with our available Diamond Elite interior featuring top-of-the-line materials and equipment like premium Isringhausen seats for best-in-

class comfort. Engineered for productivity, the HX Series includes a programmable digital gauge cluster so drivers can keep the information they want front and center - including the status of the lift axes.

The premium gauge cluster includes a customizable digital display which provides a wealth of information for the driver, including:

- ▶ Real-time fuel economy
- ▶ Axle load\*
- ▶ Custom gauge settings\*
- ▶ Safety indicators\*
- ▶ Digital speedometer
- ▶ Tire pressure\*



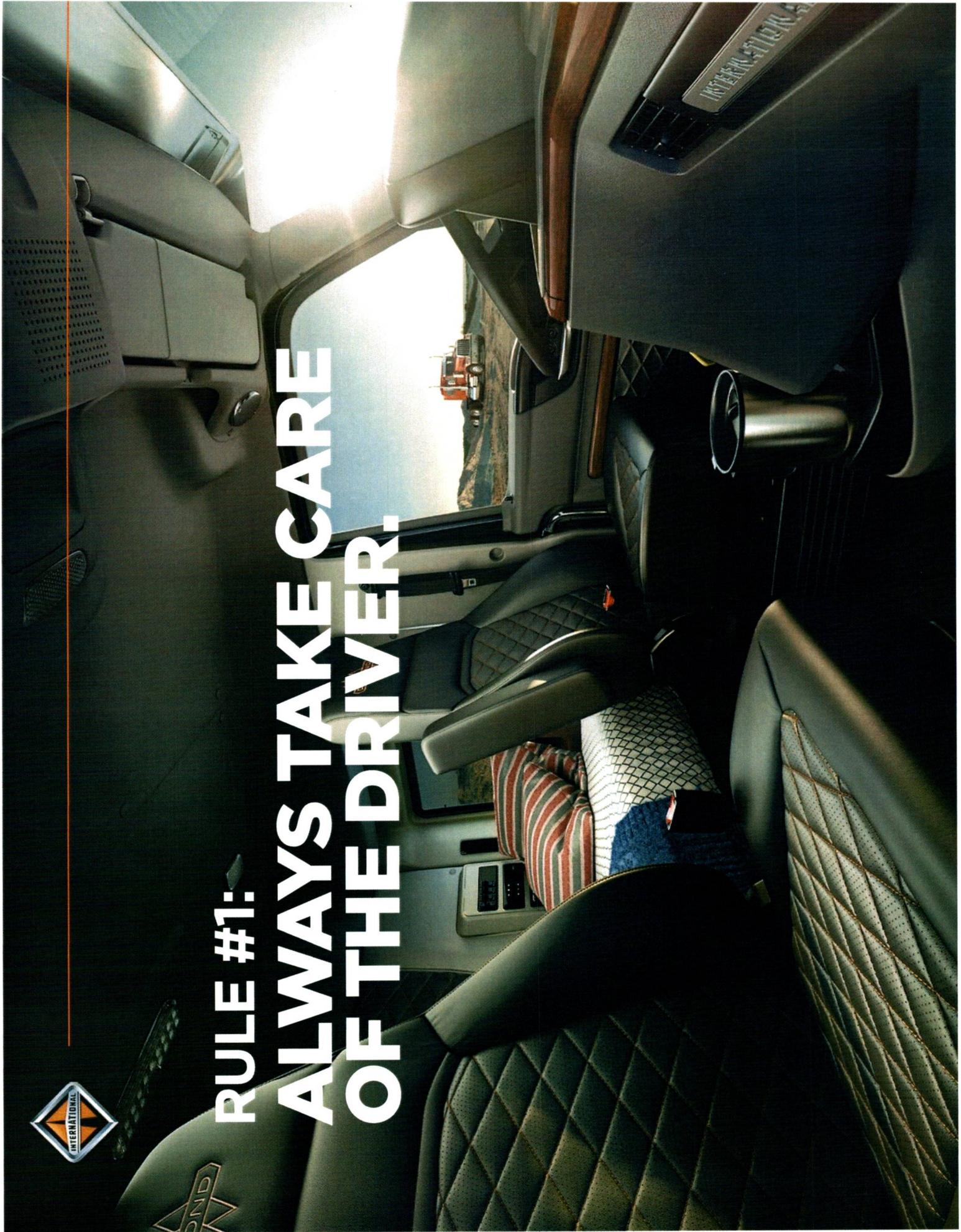
The color, illumination, legibility and even the type font and size of gauges is designed to deliver optimal viewing in varying light conditions, maximizing alertness and minimizing eye fatigue.



\*When added with optional feature code for required sensors



**RULE #1:  
ALWAYS TAKE CARE  
OF THE DRIVER.**







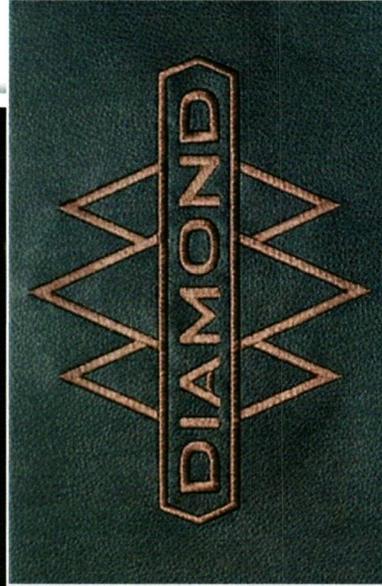
**WORK HARD.  
REST EASY.**



Nothing feels better after a hard day's work than a solid night's rest. The optional HX Series sleeper cab provides drivers with a comfortable and spacious home where they can kick back, relax, and catch some z's. Because when dawn breaks, they need to be ready to get back to work — just like always.

### HX SERIES SLEEPER CAB FEATURES

- ▶ Control panel located at head of bunk for blower speed, temperature controls, winter/summer selector switch, roof light switch, radio volume and balance controls, 12-volt power source
- ▶ Available inner spring mattress for lower bunk
- ▶ Available insulated sleeper compartment curtain
- ▶ Two exterior lockers for access to luggage within the sleeper
- ▶ Available windshield curtain for privacy



### SLEEPER FEATURES

12 Volt Power Supply  
Trim Panels  
Headliner  
Sleeper Windows  
Windshield Curtain  
Sleeper Control Panel  
Microwave Accommodation  
TV Accommodation

### DIAMOND ELITE

Standard  
Easy To Clean Soft Vinyl Trim With Satin Mahogany Inserts  
Soft Vinyl  
Standard  
Optional  
Standard  
Optional  
Optional

### 56" Low Roof Sleeper Features

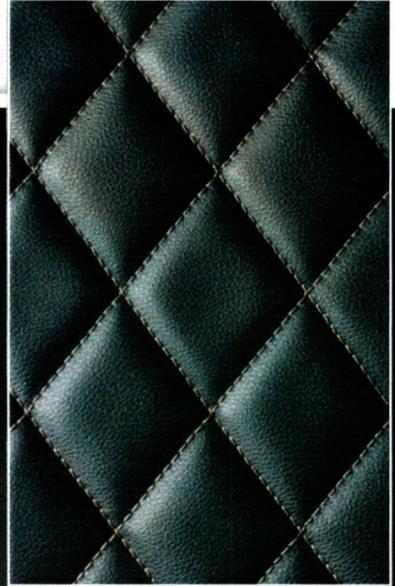
Overhead Storage

### 56" Hi-Rise Sleeper Features

Overhead Storage  
Rear Wall Storage

### 73" Hi-Rise Sleeper Features

Overhead Storage  
Rear Wall Storage  
Driver Side Wardrobe  
Passenger Side Cabinets  
Two Airline Style Cabinets Standard, with an Option for Two Additional  
Two Compartments with Netting or Doors  
Optional  
Optional Two or Four Compartments with Nets or Optional Doors  
Optional  
Standard, Optional Doors  
Utility Cabinet, Lower Right Wardrobe Tower Cabinet, Dresser Cabinet, Refrigerator Storage With or Without Doors







# CHROME FOR DAYS, NIGHTS, WEEKENDS AND OVERTIME.



The International® HX® Series is not only a tool for business, but also a calling card. Seen frequently with some of the more elaborate paintjobs on the road, this 45-ton rolling billboard is the perfect way to spread the word. Plus, with available chrome external air cleaners along with chrome pedestal mirrors, grille surround and bumper, the HX Series is already hard to miss.



# READY TO RUMBLE.

The International® HX® Series is available with a dynamic range of factory-installed lift axles, pre-certified and ready to get to work. Spacing accommodations can be made for various bridge laws and the controls for the lift axle are integrated into the wing panel through Diamond Logic® - freeing up the space between the front seats for other important items.

Weight law requirements such as the US Federal Bridge Formula and Canadian SPIF laws limit the weight-to-length ratio of a vehicle crossing a bridge. Lift axles have been a primary method to comply with the formula, however, installing and certifying lift axles after delivery can be a complicated and time-consuming task. The HX Series can be ordered with lift axles installed and pre-certified - saving you time, hassle and a math-induced headache.

**FACTORY-INSTALLED LIFT-AXLES:**

- ▶ Can be spec'd for specific state requirements
- ▶ Pre-certified so no additional inspections are required after upfit
- ▶ Can be monitored and controlled by Diamond Logic
- ▶ Controls are located on wing panel, allowing more space in cab





# CAB OF STEEL.

## Extreme Duty Cab

The cab of the International® HX® Series is made of tough, durable, high-strength steel that's easy to repair. New advancements in manufacturing means that steel can now offer practically the same corrosion resistance as aluminum without a significant weight penalty - not to mention greater strength.

### CHEM GUARD COATING

This inter-reactive, chrome-zinc phosphate coating is applied on top of the galvanized steel. Its self-healing properties allow the surface to be scratched, cut or perforated and still maintain corrosion protection.

### OPTIONAL SPRAY-ON LINER COATING FLOOR PROTECTION

This polyurethane and polyurea formulation has earned industry respect for its durable, long-lasting and high-performance qualities. Designed to protect against abrasion, corrosion and impact, this OEM-grade coating can be found on over 4 million pickup bedliners.



### REINFORCED B-PILLARS

For extra cab strength and to support the new cab-mounted exhaust option, every HX Series includes reinforced B-Pillars.



### A No-Compromise Anti-Corrosion Approach

To provide the strength and easy-to-repair qualities of steel with the corrosion resistance severe-duty customers demand, the Extreme Duty cab of the HX Series features a special paint and coating process designed with endurance in mind.

#### Corrosion Protection Process:

1. Stamped steel with 60G/60G dual sided galvanized coating - standard on dash and toe and floor panels
2. Custom-engineered caustic and surfactant formula cleans and preps the steel
3. Proprietary tri-metal (nickel, zinc, manganese) phosphate blend provides robust corrosion protection and the first level of paint adhesion

4. Epoxy-based electrodeposition primer, or E-Coat is applied. This covers and seals the entire exposed metal surface of the cab
5. Acrylic basecoat
6. Urethane clearcoat

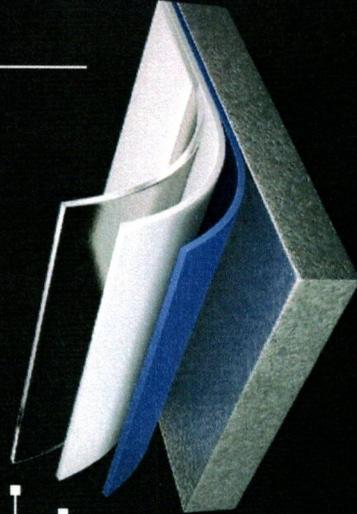
#### E-Coat Paint Process

CLEARCOAT

BASECOAT

E-COAT

GALVANIZED STEEL



### STRUCTURAL ENHANCEMENTS

Through extensive CAD modeling and rigorous testing, International engineers were able to design a cab with exceptional structural toughness.

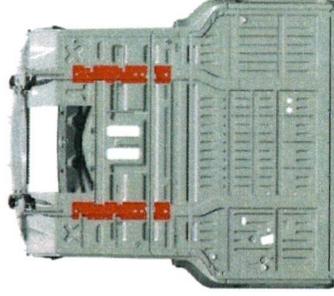
#### STRUT BRACE (sleeper only)

- ▶ A strut brace improves dash endurance.



#### SLED RUNNERS (day cab and sleeper)

- ▶ The HX Series cab variants feature high strength steel sled runners for improved durability





# AS COMFORTABLE ON THE SITE AS YOU ARE GETTING THERE.



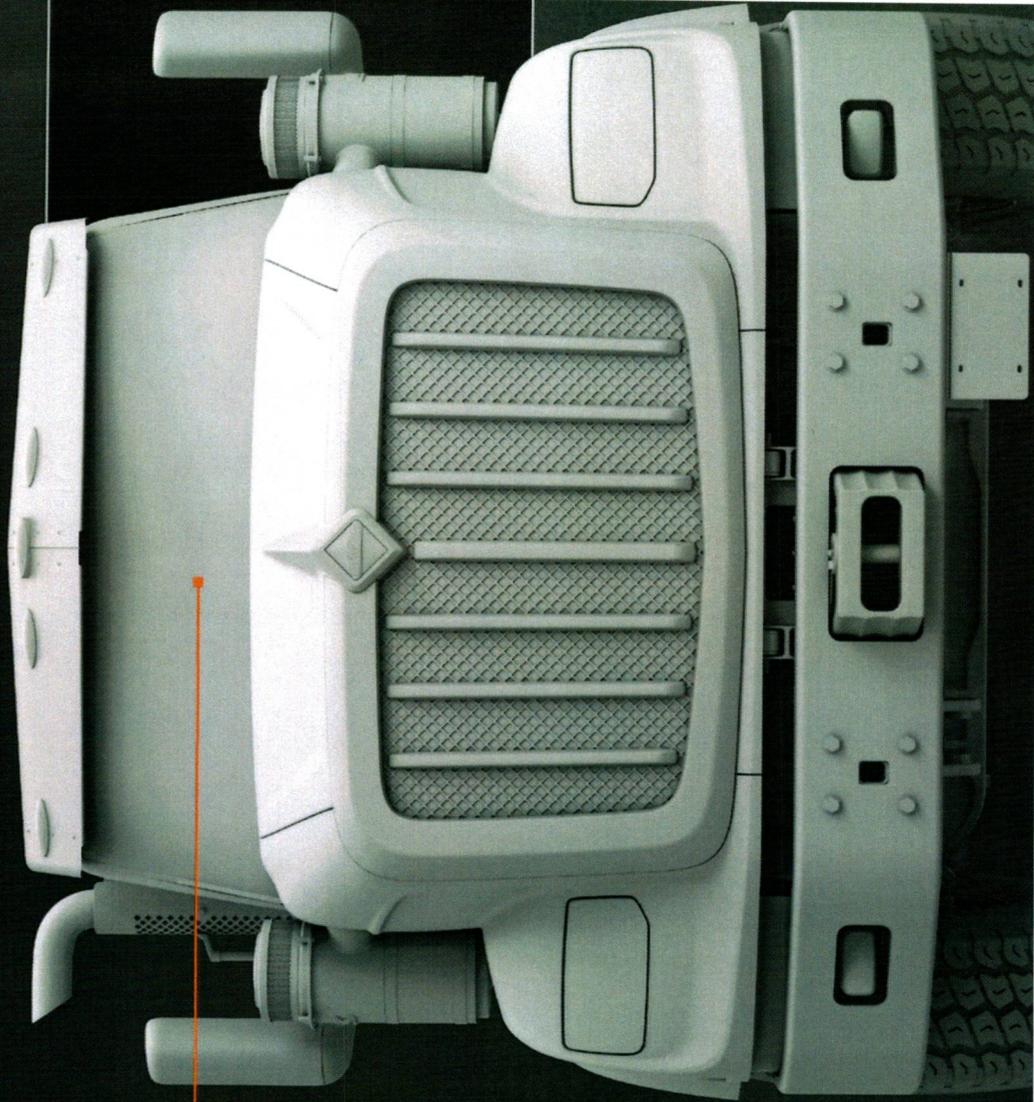
**25 MINUTES**

## **DEFROST LIKE NOBODY'S BUSINESS.**

The quicker you can see, the quicker you can get to work. Based on internal testing, the entire windshield can be cleared within 25 minutes.

## **WORKSITE DURABILITY.**

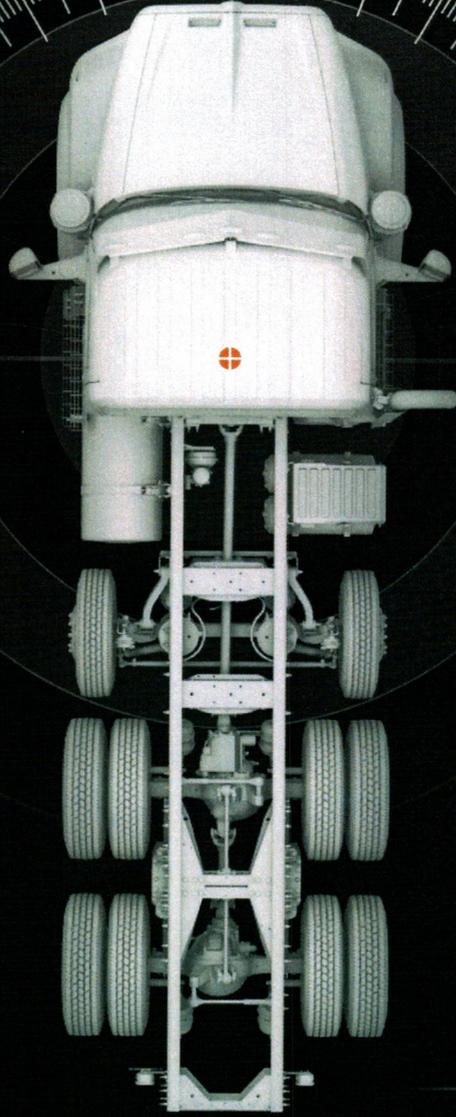
The worksite can be a rough place and very few vehicles leave without some kind of battle wound. But if the truck is made out of the right materials, the repair can be relatively painless. Compared to aluminum, repairing steel body panels like those found on the HX Series is a piece of cake. Plus, the DCPD (Dicyclopentadiene) three-piece hood is stronger than fiberglass and resists cracking over the life of the truck.



Getting to the worksite is only half the job. Being productive at the worksite is what pays the bills. The HX® Series makes this task as easy as possible by providing industry-leading HVAC, expansive driver sight lines and impressive, obstacle-avoiding maneuverability – not to mention its spacious and accommodating cab – a cab you can work in all day long without feeling cramped.

### ROOM TO APPRECIATE.

The scalloped shape of the door panels offers ample hip and elbow room while also providing a comfortable place to rest your arm. The full-grip interior handle provides excellent leverage to open and close the doors and the door pockets offer convenient access to maps or paperwork.



### EASIER SLEEPER ACCESS.

The cab design allows for excellent driver pivot access and legroom. Plus the design of the lower console makes it easy to turn in for the night.



### SEE THAT IT'S DONE.

Good visibility at the worksite is crucial to complete the job safely and efficiently. The sloped hood design, large windshield, and precision halogen headlamps on the HX Series all contribute to provide outstanding visibility.



# A TEM-READY TASK MASTER.

The Diamond Logic® Electrical System, standard on the International® HX® Series, allows you to customize the vehicle chassis, enabling control of vehicle components and body equipment.

Combined with the clean CA frame rails, factory-installed lift axles and various moveable components, the HX® Series allows TEMS to create the ideal solution for your application requirements.



#### **Body Company Benefits—Mixer:**

- ▶ Specific cross-member location to accommodate mixer PTO pump
- ▶ Factory-installed transition brackets for body mounting
- ▶ Inverted after-frame cross members for booster axle ram clearance

#### **Body Company Benefits—Crane:**

- ▶ Customized frame ladder and component locations to meet body packaging requirements
- ▶ Available integral front frame extensions
- ▶ Single 1/2", 3.5 million RBM straight frame rail provides high strength for high capacity crane applications

#### **Body Company Benefits—Dump:**

- ▶ Single 1/2", 3.5 million RBM straight frame rail provides high strength without added weight or risk of corrosion
- ▶ Factory installed lift axles with many customizable chassis packaging options
- ▶ Available in-cab battery box provides increased chassis packaging flexibility

### **INTERNATIONAL TRUCK SPECIALTY CENTERS**

Your quick, efficient and cost-effective upfitting solution. Count on:

- ▶ Quality modifications covered under manufacturer's warranty
- ▶ Upfit process supervised by International engineers to ensure factory production-level quality
- ▶ Expertise to identify and resolve problems quickly
- ▶ A quick and efficient process ensured by optimized delivery cycle times and comprehensive factory support



### **DIAMOND PARTNER**

#### **LINKING TEMS WITH DEALERS TO STREAMLINE INSTALLATIONS AND ENHANCE CUSTOMER UPTIME**

The Diamond Partner Program creates a new conduit between International Truck, our dealers and TEMs by providing industry-leading body-builder support materials and services. Through the program, it's now easier than ever for TEMs to mount their equipment faster, with a higher build quality and lower costs. In addition, the program facilitates joint marketing opportunities that can help increase awareness of the dealer and TEM partners.



# THE ADVANCED DIAMOND LOGIC<sup>®</sup> ELECTRICAL SYSTEM.

Make complicated applications safer,  
more seamless and easier-to-use.

The International<sup>®</sup> Truck electrical system is a multiplexed, Diamond Logic<sup>®</sup> capable system that is considered the most advanced in the industry—and for good reason.

Diamond Logic streamlines chassis and body equipment integration and allows customers to choose from nearly 200 pre-programmed tasks. Customers can also develop their own with the help of a technician (over 260 International technicians are certified Level 3 - the highest certification) or completely on their own using Diamond Logic Builder software. The result is more consistent integrations, improved performance, increased equipment protection and crew safety.

## SAFETY FIRST

Diamond Logic opens up a world of possibilities when it comes to safety.

- ▶ **Safety for the Driver:** Various functions including pre-trip inspections, interlocks, auto work lights, and equipment status lights can be programmed to help ensure driver safety and assist in protecting your vehicle
- ▶ **Safety on the Jobsite:** Interlocks for boom hydraulics, outriggers and PTO can increase the safety of all those nearby
- ▶ **Protecting Your Equipment:** Diamond Logic capabilities like an auto-locking and unlocking diff-lock, help mitigate human errors that can sometimes damage your equipment



## DIAMOND LOGIC BUILDER

Have a specific application requirement? Internationals can train and certify your technicians on Diamond Logic Builder so you can write your own custom logic as you go.





# OnCommand<sup>®</sup> Connection

## PROACTIVE, PREDICTIVE TOOLS THAT DRIVE UPTIME AND LOWER TOTAL COST OF OWNERSHIP.

Some trucks take more abuse than others. And that's certainly the case with the International<sup>®</sup> HX Series.

OnCommand<sup>®</sup> Connection can help make sure these hard-working assets are up to the task, thanks to:

- Advanced Remote Diagnostics
- Over-the-air (OTA) programming
- Configurable mobile app
- International<sup>®</sup> 360 Service Communications

**5**  
**YEARS**

### ADVANCED REMOTE DIAGNOSTICS

Monitor the health and status of your all-makes vehicles

Key Feature	Benefit
Fault alerts, Severity ratings, Most likely needed parts and service	Takes guesswork out of check engine lights so you know if it's a critical issue or if it can wait until the next scheduled service.
Comprehensive vehicle health reports, MPG, Fault history...And more	Delivers both high-level overview as well as detailed vehicle health data depending on your needs.
Interactive Fault Code Action Plans	Makes servicing vehicles faster and easier with detailed, step-by-step instructions on how to address vehicle faults.
GPS Location and Mapping	Tells you where vehicles are, where they have been, and how fast they've been driving. Shows nearby service stations, all-makes dealerships, tire centers, and more.
OTA Programming	Allows for increased uptime by setting programmable parameters and updating software calibrations remotely without taking the vehicle out of service.

### ONCOMMAND<sup>®</sup> CONNECTION MOBILE APP

The power of OCC at your fingertips

Key Feature	Benefit
Fault code descriptions and severity	Instantly know what a check engine light means without bringing it to a service center.
Configurable home screen	Customize your app so you can see the details that are important to you.
Vehicle health reports with critical health details including "send via email" button	Instantly share vehicle health data with your dealer, home office, or send a copy to yourself.
Initiate service button	Give your dealer advanced notice before you arrive.





## INTERNATIONAL 360 SERVICE COMMUNICATIONS

Provides a seamless communication channel with the International service network.

- Streamlines communication, accelerates the repair process, and drives greater uptime
- The only OEM service communication tool that supports all-makes vehicles without per-VIN surcharges
- Integrates telematics, dealer parts inventory, and other vital information into one easy-to-use tool
- Centralizes vehicle health data, service history, and more

## GATEWAY INTEGRATIONS – ONE SIZE DOES FIT ALL

Subscribe to select fleet management and compliance providers through our factory-installed telematics device. Whether you have one truck or 100, you'll get the data you need to help you run your business more efficiently.

- One factory-installed, warranty-covered device
- One high-quality source of vehicle data
- NO prewiring costs
- NO extra hardware costs
- NO aftermarket installation costs



Available Today  





# S13 INTEGRATED

Engine Type	Diesel, 4-Cycle
Configuration	Inline 6-Cylinder
Displacement	12.74L (777 cu. in.)
Bore & Stroke	5.12 in. x 6.30 in. (126 mm & 166 mm)
Compression Ratio	23:1
Aspiration	Fixed Geometry Turbocharger
Combustion System	1800 bar Common Rail
Engine Lubrication	47.5 Quarts (45L)
Total Engine Weight (Dry)	2,284 lbs. (1,036 kg)
Valves	4 Valves per Cylinder, Dual Overhead Camshaft
B10 Design Life	1,200,000 mi (1,931,000 km)

## Industry-Leading Engine Warranty

Base Engine	2 years; unlimited miles, unlimited hours*
Base Major Component	5 years; 500,000 miles
Base Towing	2 years; unlimited miles, unlimited hours**
Optional Engine	Up to 6 years, 600,000 miles
Optional Major Component	Up to 7 years, 700,000 miles

\* Fire & Rescue Applications: 60 Months/100,000 Miles/ Unlimited Hours

\*\*Towing for vehicles with engine failures

## T14 Gear Ratios Available

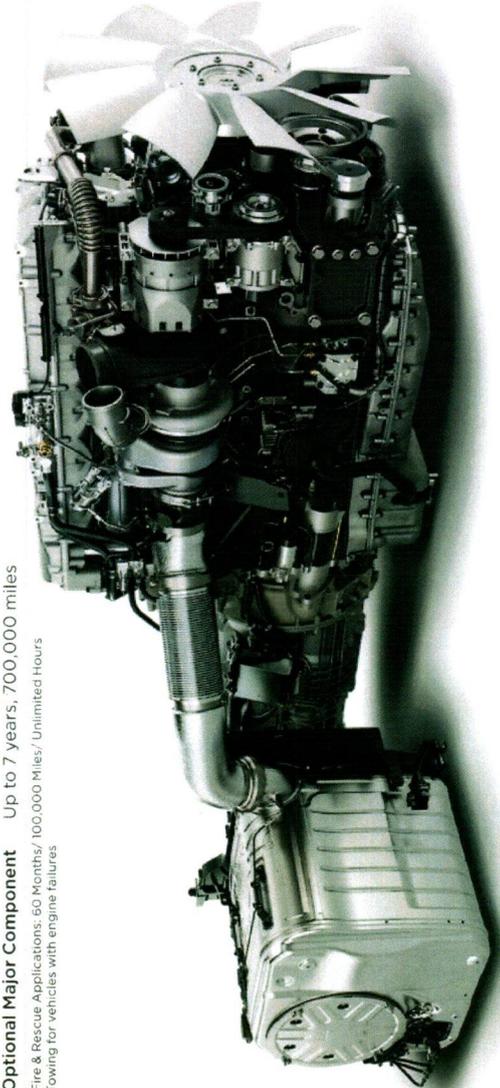
Gear	Ratio	% Step	R Gear	Ratio
1	20.81	29%	R6	4.59
2	16.16	29%	R5	5.91
3	12.57	29%	R4	7.61
4	9.76	29%	R3	9.81
5	7.56	29%	R2	12.60
6	5.87	29%	R1	16.23
7	4.55	29%		
8	3.53	28%		
9	2.77	29%		
10	2.15	29%		
11	1.66	29%		
12	1.29	29%		
13	1.00	28%		
14	0.78	-		

## Transmission, Clutch and Transmission Mounted PTO Base Warranty (Includes Towing)

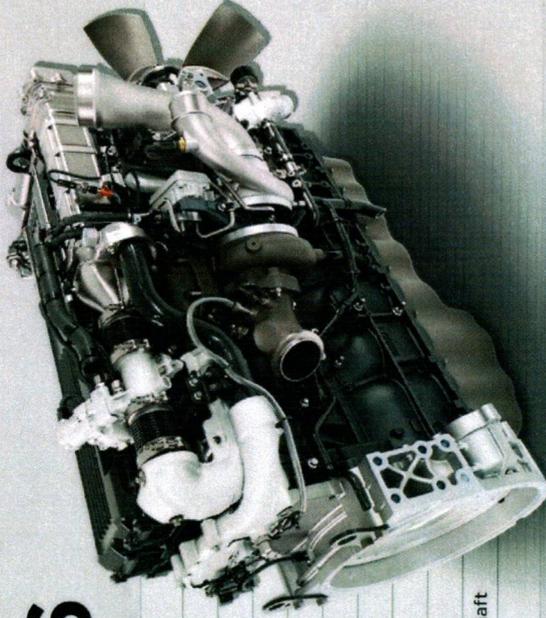
Less than 52K Rear Axles Rating	3 years; unlimited miles
Greater than 52K Rear Axles Rating	2 years; unlimited miles

## S13 Integrated Power Curves

HP @ 1800 RPM	Torque [lb-ft] @ 900 RPM	Governed speed [RPM]
400	1450	2000
430	1550	2000
450	1750	2000
475	1750	2000
515	1850	2000



# INTERNATIONAL A26



Engine Type	Diesel, 4-Cycle
Configuration	Inline 6-Cylinder
Displacement	12.4L (758 cu. in.)
Bore & Stroke	4.96 in. & 6.54 in. (126 mm & 166 mm)
Compression Ratio	20.5:1
Aspiration	Variable Geometry Turbocharger
Combustion System	Direct Injection 2500 bar HPCR
Engine Lubrication	42 Quarts (40L)
Total Engine Weight (Dry)	2,314 lbs. (1,050 kg)
Valves	4 Valves per Cylinder, Dual Overhead Camshaft
B10 Design Life	1,200,000 mi (1,931,000 km)

HP Rating	Governed Speed RPM	Torque Rating (lb-ft @ RPM)
370	2100	1350 @ 1000
390	2100	1450 @ 1000
410	2100	1450 @ 1000
430	2100	1550 @ 1000
450	2100	1700 @ 1000
475	2100	1700 @ 1000
515	2100	1850 @ 1000

# CUMMINS X15



Engine Type	Diesel, 4-Cycle
Configuration	Inline 6-Cylinder
Displacement	14.9L (912 cu. in.)
Bore & Stroke	5.39 in. & 6.65 in. (137 mm & 169 mm)
Compression Ratio	18.9:1
Aspiration	Variable Geometry Turbocharger
Combustion System	Direct Injection XPI Fuel System
Engine Lubrication	56 Quarts (53L)
Total Engine Weight (Dry)	2,961 lbs. (1,343 kg)
Valves	4 Valves per Cylinder, Single Overhead Camshaft
B10 Design Life	1,000,000 mi (1,609,000 km)

HP Rating	Governed Speed RPM	Torque Rating (lb-ft @ RPM)
430	2000	1650 @ 950
450	2000	1650 @ 950
450	2000	1750 @ 950
470	2000	1750 @ 950
500	2000	1850 @ 950
565	2100	1850 @ 1000
565	2000	1850 @ 1000
605	2000	1850 @ 1000
605	2000	2050 @ 1000
605	2100	1850 @ 1000
525	1900	1850 @ 1000
565	1900	1850 @ 1000
605	1900	2050 @ 1000

## Productivity Series

## Performance Series





# HX<sup>®</sup> SERIES SPECIFICATIONS

## HX520

### 120" BBC Set-Forward Front Axle Truck or Tractor

#### Primary Vocations:

- Heavy Haul Tractor
- Construction Dump
- Logging
- Recovery

#### Key Features:

- Powerful 15L Cummins X15 power up to 605 HP / 2,050 lb.-ft. torque
- Excellent bridge formula chassis
- Available 0.5", 3.5 million RBM single rail frame
- Available 150,000 lb. Tow Pin
- Available dual external air cleaners for HD filtration
- Front axles up to 20K and rear axles up to 58K
- BA = 29.9"



## HX620

### 119" BBC Set-Back Front Axle Truck or Tractor

#### Primary Vocations:

- Heavy Haul Tractor
- Construction Dump
- Platform Stake/Crane

#### Key Features:

- International S13 Integrated powertrain up to 515 HP / 1,850 lb.-ft. torque
- International A26 engine up to 515 HP / 1,850 lb.-ft. torque
- Powerful 15L Cummins X15 power up to 605 HP / 2,050 lb.-ft. torque
- Available 0.5", 3.5 million RBM single rail frame
- Available 150,000 lb. Tow Pin
- Front axles up to 22.8K
- Tandem rear axles up to 58K and Tridem to 69K
- Available dual external air cleaners for HD filtration
- BA = 50.2"





#### **GVWR**

- ▶ 52,000 – 91,800 lbs.

#### **Models**

- ▶ HX520 120" BBC, Set-Forward Front Axle Truck or Tractor
- ▶ HX620 119" BBC, Set-Back Front Axle Truck or Tractor

#### **Axle Configurations**

- ▶ 6x4
- ▶ 8x6
- ▶ 4x2 (upon request)

#### **Cab Configurations**

- ▶ Day Cab
- ▶ 56" Low and High Sleeper Cabs
- ▶ 73" High Sleeper Cab

#### **Heat Treated Alloy Steel 120,000 PSI Frames**

- ▶ Single Rail
  - 3/8": 10.25"x3.61"x0.375"; 2,037,600 RBM
  - 3/8": 12.25"x3.380"x0.375"; 2,521,200 RBM
  - 1/2": 12.5"x3.750"x0.5"; 3,536,400 RBM
- ▶ Double Rail
  - 5/16"+ 5/16": 10.813"x3.893x0.625"; 3,580,800 RBM
  - 3/8"+ 5/16": 13.030"x3.687"x0.6875"; 4,854,000 RBM

#### **S13 Integrated Powertrain/HX620**

- ▶ International S13
  - 400 - 515 HP
  - 1,450 - 1,850 lb.-ft.
- ▶ Dual Stage Aftertreatment
  - ▶ International T14
    - 14-speed automated manual transmission
    - Transmission PTO

#### **Engines**

- ▶ International A26 12.4L
  - HX620
    - 370 - 515 HP
    - 1,250 - 1,850 lb.-ft.
  - ▶ Cummins X15 15L
    - HX520 / HX620
      - 430 - 605 HP
      - 1,650 - 2050 lb.-ft.

#### **Transmissions**

- ▶ International T14: 14-speed automated manual
- ▶ Eaton Manual: 8LL (10), 9ALL (11), 13, 18-speed
- ▶ Eaton Automated Manual Endurant HD: 12-speed
- ▶ Eaton Automated Manual Endurant XD & XD Pro: 18-speed
- ▶ Allison Automatic: EVS, RDS, OFS Series

#### **Clutch**

- ▶ Standard: Hydraulic with Air Assist

#### **Power Take Off**

- ▶ Front Engine PTO (FEPTO) HX520
- ▶ Rear Engine PTO (REPTO) HX520, HX620

#### **Front Axles**

- ▶ HX620
  - Dana: 16,000 – 20,000 lbs.
  - Meritor: 12,000 – 22,800 lbs.
- ▶ HX520
  - Meritor: 12,000 – 20,000 lbs.

#### **Front Suspensions**

- ▶ HX520
  - Parabolic Taper-leaf: 12,000 – 20,000 lbs.
- ▶ HX620
  - Multi-leaf: 14,000 – 23,000 lbs.
  - Parabolic Taper-leaf: 13,200 – 22,000 lbs.
  - Slipper-Type: 20,000 – 24,000 lbs.

#### **Rear Axles**

- ▶ Tandem Rear Axles
  - Dana: 46,000 – 52,000 lbs.
  - Meritor: 40,000 – 58,000 lbs. Single and Double Reduction
- ▶ Tridem Rear Axles
  - Meritor: 50,000 – 69,000 lbs.

#### **Rear Suspensions**

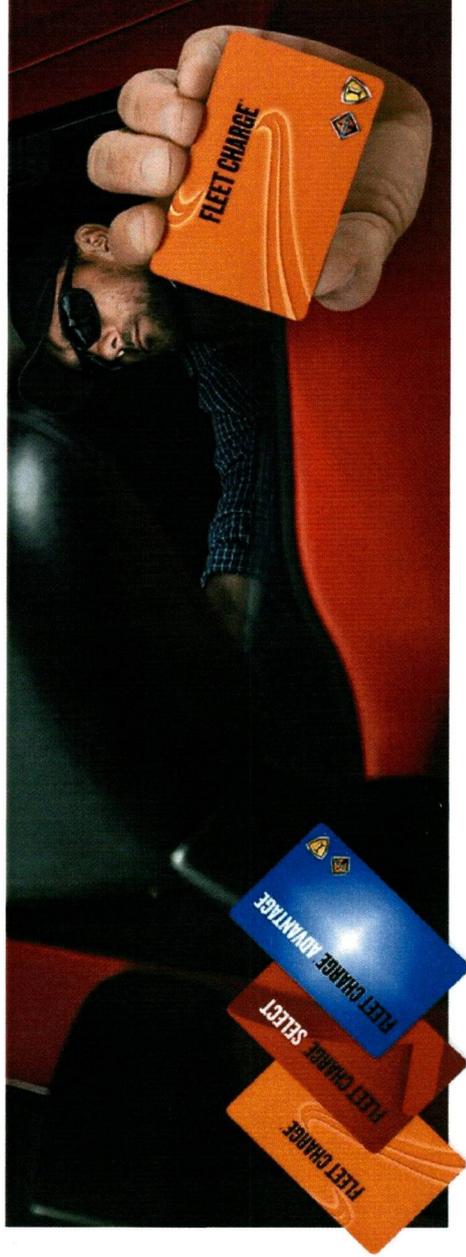
- ▶ Spring Suspensions
  - Chalmers: 40,000 – 52,000 lbs.
  - Hendrickson HAULMAAX EX: 40,000 - 52,000 lbs
  - Hendrickson R, RT: 40,000 – 80,000 lbs.
- ▶ Air Suspensions
  - Hendrickson HAS: 40,000 – 46,000 lbs. 55" and 60" spacing
  - Hendrickson PRIMAAX EX: 46,000 – 52,000 lbs. 55", 60", 72" spacing
  - Hendrickson PAX Tridem: 69,000 lbs.



# DRIVING PROFITABILITY

# MORE TIME ON THE ROAD AND LESS TIME FOR WAITING FOR REPAIRS

We understand making money means keeping your vehicles on the road. That's why uptime is so important to us. Dependable equipment spec'd for your needs or requirements is just the beginning. We also focus on fuel economy, preventive maintenance, optimized service intervals, and more to make sure the low cost of ownership of our vehicles helps keep you in the black.



Maximum Uptime -  
Repair before Failure



Prognostics that move unplanned repairs to planned. Optimizing maintenance using vehicle performance and predictive data.

Predictive Parts Stocking



Dealer parts inventory management uses AI and telematics data to predict stocking needs. This ensures the best parts are on dealer shelves to support customers.

# NAVISTAR FINANCIAL. UNLOCK YOUR POTENTIAL.

Navistar Financial offers flexible solutions to fit your financing needs, helping you secure the best products for your specific situation. Whether you're a loan customer or a lease customer the Navistar Financial team can provide you with the best option suited to your business.



For more information  
or to contact  
Navistar Financial,  
scan the QR code.

Scan me!

OVER OVER  
**700 + 400 =**  
INTERNATIONAL<sup>®</sup> LOVE'S TRUCK CARE  
DEALER LOCATIONS & SPEEDCO LOCATIONS

OVER  
**1,100**  
TOTAL SERVICE  
LOCATIONS



## TRUCK CARE

Our partnership with

**Love's Truck Care & Speedco**

adds 400+ additional locations for quick,  
conveniently located access to light  
mechanical and select warranty work\*.

PARTS YOU NEED  
WHERE AND WHEN  
YOU NEED THEM



\* Warranty-covered parts must be a certified International installed part for International Truck dealer service locations to honor warranty. Love's and Speedco locations in Texas and Louisiana cannot perform warranty services.



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. TAD20004-07/2023 © 2023 NAVISTAR Inc. All rights reserved. All marks are trademarks of their respective owners.





RLI Surety  
 A Division of RLI Insurance Company  
 P.O. Box 3967 Peoria, IL 61612-3967  
 Phone: 309-692-1000 Fax: 309-692-8637

# BID BOND

Bond No. RSB4193799

KNOW ALL MEN BY THESE PRESENTS,

That We, McCandless Truck Center LLC  
 of 16704 E 32nd Ave, Aurora, CO 80011  
 as **Principal**, and **RLI Insurance Company**, of Peoria, Illinois, as Surety, an Illinois corporation duly licensed to do  
 business in the State of Wyoming, are held and firmly bound unto \_\_\_\_\_  
City of Douglas, Wyoming as Obligee, in the penal sum of  
Five percent of total bid amount (5% of total bid amount),  
 for the payment of which the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and  
 assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, That whereas the Principal has submitted, or is about to submit, a  
 proposal or a bid to the Obligee on a contract for \_\_\_\_\_  
New 2025 Day Cab Tractor

NOW, THEREFORE, if the aforesaid principal shall be awarded the contract, the said principal will within the period  
 specified therefore, or if no period be specified, within ten (10) days after the notice of such award enter into a contract  
 and give bond for the faithful performance of the contract, then this obligation shall be null and void, otherwise the  
 principal and the surety will pay unto the obligee the difference in money between the amount of the bid of said principal  
 and the amount for which the obligee may legally contract with another party to perform the work if the latter amount be  
 in excess of the former, in no event shall the liability hereunder exceed the penal sum hereof.

PROVIDED AND SUBJECT TO THE CONDITION PRECEDENT, that any suits at law or proceedings in equity brought  
 or to be brought against the Surety to recover any claim hereunder must be instituted and service had upon the Surety  
 within ninety (90) days after the acceptance of said bid of the Principal by the Obligee.

SIGNED, SEALED AND DATED this 30th day of July, 2024.

McCandless Truck Center LLC  
 Principal  
 By: Adam McCandless

RLI Insurance Company  
 By: Gwen Campbell  
 Attorney-In-Fact

ADDRESS ALL CORRESPONDENCE TO:  
 RLI Surety Division  
 P.O. Box 3967  
 Peoria, IL 61612-3967  
 (309) 692-1000



# POWER OF ATTORNEY

## RLI Insurance Company Contractors Bonding and Insurance Company

9025 N. Lindbergh Dr. Peoria, IL 61615  
Phone: 800-645-2402

BOND NO. RSB4193799

Know All Men by These Presents:

That this Power of Attorney is not valid or in effect unless attached to the bond which it authorizes, but may be detached by the approving officer if desired.

That this Power of Attorney may be effective and given to either or both of RLI Insurance Company and Contractors Bonding and Insurance Company, required for the applicable bond.

That RLI Insurance Company and/or Contractors Bonding and Insurance Company, each Illinois corporations (separately and together, the "Company"), each authorized and licensed to do business in all states and the District of Columbia do hereby make, constitute and appoint:

Gwen Campbell, Nicholas Ray, Travis Charlton, jointly or severally

in the City of Overland Park, State of Kansas, its true and lawful Agent(s) and Attorney(s) in Fact, with full power and authority hereby conferred, to sign, execute, acknowledge and deliver for and on its behalf as Surety, the following described bond.

Any and all Bonds, undertakings, and recognizances in an amount not to exceed Five Million Dollars (\$5,000,000.00) for any single obligation.

The acknowledgement and execution of such bond by the said Attorney(s) in Fact shall be as binding upon this Company as if such bond had been executed and acknowledged by the regularly elected officers of this Company.

All authority hereby conferred shall expire and terminate, without notice, unless used before midnight of April, 28th, 2023, but until such time shall be irrevocable and in full force and effect.

RLI Insurance Company and Contractors Bonding and Insurance Company, as applicable, have each further certified that the following is a true and exact copy of the Resolution adopted by the Board of Directors of each such corporation, and now in force, to-wit:

"All bonds, policies, undertakings, Powers of Attorney or other obligations of the Corporation shall be executed in the corporate name of the Corporation by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or Agents who shall have authority to issue bonds, policies or undertakings in the name of the Corporation. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the Corporation. The signature of any such officer and the corporate seal may be printed by facsimile or other electronic image."

IN WITNESS WHEREOF, RLI Insurance Company and/or Contractors Bonding and Insurance Company, as applicable, have caused these presents to be executed by its respective Senior Vice President with its corporate seal affixed this 28th day of April, 2023.



RLI Insurance Company  
Contractors Bonding and Insurance Company

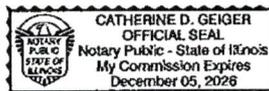
By: B. W. Davis  
Barton W. Davis Vice President

State of Illinois }  
County of Peoria } ss

On this 28th day of April, 2023, before me, a Notary Public, personally appeared Barton W. Davis, who being by me duly sworn, acknowledged that he signed the above Power of Attorney as the aforesaid officer of the RLI Insurance Company and/or Contractors Bonding and Insurance Company and acknowledged said instrument to be the voluntary act and deed of said corporation.

### CERTIFICATE

I, the undersigned officer of RLI Insurance Company and/or Contractors Bonding and Insurance Company, do hereby certify that the attached Power of Attorney is in full force and effect and is irrevocable; and furthermore, that the Resolution of the Company as set forth in the Power of Attorney, is now in force. In testimony whereof, I have hereunto set my hand and the seal of the RLI Insurance Company and/or Contractors Bonding and Insurance Company this 28th day of April, 2023.



Catherine D. Geiger  
Catherine D. Geiger Notary Public

RLI Insurance Company  
Contractors Bonding and Insurance Company

By: Jeffrey D. Fick  
Jeffrey D. Fick Corporate Secretary