

**HX™ SERIES**



# COMPARISON GUIDE





## REAL WORLD CONFIRMATION

The International® HX™ Series is designed and engineered to endure the harshest, most punishing jobsites on the planet. To demonstrate its unmatched strength and endurance, we placed the HX Series through a number of real-world tests against several of its primary market competitors. These tests were conducted by independent industry experts to assure the highest level of objectivity and attention to detail. As you're about to read, the comparison presents compelling evidence that proves the HX Series is a vocational truck that delivers on its promise.

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# INTRODUCTION | putting uptime upfront



Introduction



The HX™ Series is purpose-built to deliver Uptime in every aspect of its productivity, efficiency, reliability and performance. The HX Series is also available with the OnCommand™ Connection advanced remote diagnostics, offering real time data for higher driver productivity and faster maintenance. Every component has been rigorously tested and proven to meet tough environments and tougher jobsites. And you're supported by unprecedented service available at nearly 700 International Dealer locations across the U.S. and Canada.

No matter how extreme the conditions, no matter how tough your job, the HX Series has what it takes to deliver.

- ▶ The industry's only dedicated aluminum cab for severe service applications is lightweight and features riveted and bonded lap seams
- ▶ Huck-bolted frame and crossmembers for superior clamping force over time
- ▶ Available, industry-leading 12.5" x 0.5" single frame rail delivers 3.5 million RBM
- ▶ All-new 3-piece Metton hood on the HX615 and HX620
- ▶ The optimized cab suspension provides a supremely comfortable and quiet ride
- ▶ Cummins® X15 engine with up to 605 HP and 2,050 lb-ft of torque for 120" BBC models and International® A26 with up to 500 HP and 1,750 lb-ft of torque in 115" BBC models
- ▶ Available 150,000 lb. capacity center tow pin provides assured strength in extreme recovery scenarios





# HX™ SERIES. DESIGNED TO OUTWORK AND OUTLAST.

The International® HX™ Series is the result of years of design, research and testing by one of the most experienced engineering teams in the industry. From concept to production, HX Series has surpassed the rigorous tests and stringent requirements that prove its capabilities. The result: A truck that redefines the Severe Service market.

The HX Series is available in four different chassis configurations depending on application requirements; long or short hood, set-forward or set-back front axle.

HX520	HX515	HX615	HX620
<b>120" BBC Set-Forward Axle Truck or Tractor</b> <b>Primary Vocations:</b> <ul style="list-style-type: none"><li>▪ Heavy Haul Tractor</li><li>▪ Construction Dump</li><li>▪ Logging</li><li>▪ Recovery</li></ul> <b>Key Features:</b> <ul style="list-style-type: none"><li>▪ Powerful 15L Cummins® X15 power up to 605 HP / 2,050 lb.-ft. torque</li><li>▪ Excellent bridge formula chassis</li><li>▪ Available 0.5", 3.5 million RBM single rail frame</li><li>▪ Available 150,000 lb. Tow Pin</li><li>▪ Available dual external air cleaners for HD filtration</li></ul>	<b>114" BBC Set-Forward Axle Straight Truck</b> <b>Primary Vocations:</b> <ul style="list-style-type: none"><li>▪ Concrete Mixer</li><li>▪ Construction Dump</li><li>▪ Refuse/Roll-off</li><li>▪ Crane</li></ul> <b>Key Features:</b> <ul style="list-style-type: none"><li>▪ Lightweight efficient International A26 up to 500 HP / 1,750 lb.-ft. torque</li><li>▪ Available 0.5", 3.5 million RBM single rail frame</li><li>▪ Available transition plate at BOC for efficient mixer mounting</li><li>▪ Available asymmetrical front spring packs for mixers or plows</li><li>▪ Available FEPTO or REPTO with in-cab access hatch for convenient maintenance</li><li>▪ Standard stationary grille</li></ul>	<b>115" BBC Set-Back Axle Truck or Tractor</b> <b>Primary Vocations:</b> <ul style="list-style-type: none"><li>▪ Construction Dump</li><li>▪ Concrete Mixer</li><li>▪ Platform Stake/Crane</li><li>▪ Refuse/Roll-off</li></ul> <b>Key Features:</b> <ul style="list-style-type: none"><li>▪ Lightweight efficient International A26 up to 500 HP / 1,750 lb.-ft. torque</li><li>▪ Available 0.5", 3.5 million RBM single rail frame</li><li>▪ Available asymmetrical front spring packs for mixers</li><li>▪ Available REPTO with in-cab access hatch for convenient maintenance</li><li>▪ Available 150,000 lb. Tow Pin</li></ul>	<b>119" BBC Set-Back Axle Truck or Tractor</b> <b>Primary Vocations:</b> <ul style="list-style-type: none"><li>▪ Heavy Haul Tractor</li><li>▪ Construction Dump</li><li>▪ Platform Stake/Crane</li></ul> <b>Key Features:</b> <ul style="list-style-type: none"><li>▪ Powerful 15L Cummins X15 power up to 605 HP / 2,050 lb.-ft. torque</li><li>▪ Available 0.5", 3.5 million RBM single rail frame</li><li>▪ Available 150,000 lb. Tow Pin</li><li>▪ Front axles up to 22K</li><li>▪ Tandem rear axles up to 70K and Tridem to 69K</li><li>▪ Available dual external air cleaners for HD filtration</li></ul>





# INTRODUCTION | a competitive set



The HX™ Series was independently tested side-by-side against several of its competitors. Although all models have unique design elements and component availability, every measure was taken to perform an accurate head-to-head comparison of key specifications, components, and features.

Series	HX Series	Kenworth T800	Peterbilt 567	Kenworth T880
Model	International® HX620	Kenworth T800	Peterbilt 567	Kenworth T880
BBC	120"	122"	121"	123"
Engine	Cummins ISX15 500 HP	Cummins ISX15 450 HP	Cummins ISX15 450 HP	Cummins ISX15 560 HP
Transmission	Eaton® Fuller® FO-18E318B-VXP	Eaton Fuller RTO-16908LL	Eaton Fuller RTO-16908LL	Eaton Fuller RTLO-18918A
Frame	12.5x3.75x.5 No reinforcement	10.75x3.5x.375 Inner C reinforcement	10.75x3.5x.375 No reinforcement	10.75x.375x3.5 Inner Steel Reinforcement
Front Axle	Meritor MFS-20-133A 20K	Dana Spicer D2000F 20K	Dana Spicer D2000F 20K	Dana Spicer D2000F 20K
Rear Axle	Meritor RT-46-160P 46K	Dana Spicer D46-170 46K	Dana Spicer D46-170 46K	Dana Spicer D46-170HP 46K
Rear Suspension	Hendrickson HMX-460 46K	Kenworth Airglide 46K	Hendrickson HMX-460 46K	Hendrickson HMX-460 46K
Tires	Continental	Bridgestone	Bridgestone	Bridgestone
Front Tires	425/65R22.5	385/65R22.5	425/65R22.5	425/65R22.5
Front Tire Tread	HDR2	M844	M854	M854
Rear Tires	11R22.5	11R22.5	11R24.5	11R24.5
Rear Tire Tread	HTC1	MX711	M799	M799
Base Warranty	1 Year, Unlimited Miles	1 Year, 100,000 Miles	1 Year, 100,000 Miles	1 Year, 100,000 Miles

## Key Advantages —

All four trucks offer a 1 year warranty, but the HX Series is the only truck among the Kenworth T800, T880 and the Peterbilt 567 to combine that with unlimited miles





## SEVERE DUTY CAB

The International® HX™ Series features one of the industry's only aluminum cabs dedicated for severe service applications. Its proven high strength and light weight design includes riveted and bonded lap seams for increased strength and improved serviceability versus welded cabs.

### DURABLE COMPONENTS

- ▶ Piano style stainless steel door hinges are corrosion resistant and provide superior strength for a vocational environment
- ▶ The HX Series cab is a proven severe service performer - unlike some of its competitor's cabs which originated as highway cabs

### HOODS AND GRILLE

- ▶ High-strength 3-piece Metton hood is available on the HX615 and HX620. A 1-piece Metton hood is available for the HX520. The HX515 features a 1-piece high-strength fiberglass hood.
- ▶ Hood tilt effort is less than both competitors and enables easier access to pre-trip and routine maintenance points
- ▶ Rugged all-metal grille, bright surround and available bright grille bars are as good looking as they are durable

### COMFORT BEGINS WITH PROPER DESIGN

- ▶ Advanced manufacturing fixtures, superior adhesives and efficient door seals result in a tight cab for reduced noise and consistent temperature control
- ▶ One-piece floor mats are designed for easy cleaning and excellent durability
- ▶ Optimized cab suspension is designed for superior ride and weight savings for vocational applications





# CAB DESIGN | severe duty cab | key numbers



## CAB DESIGN severe duty cab



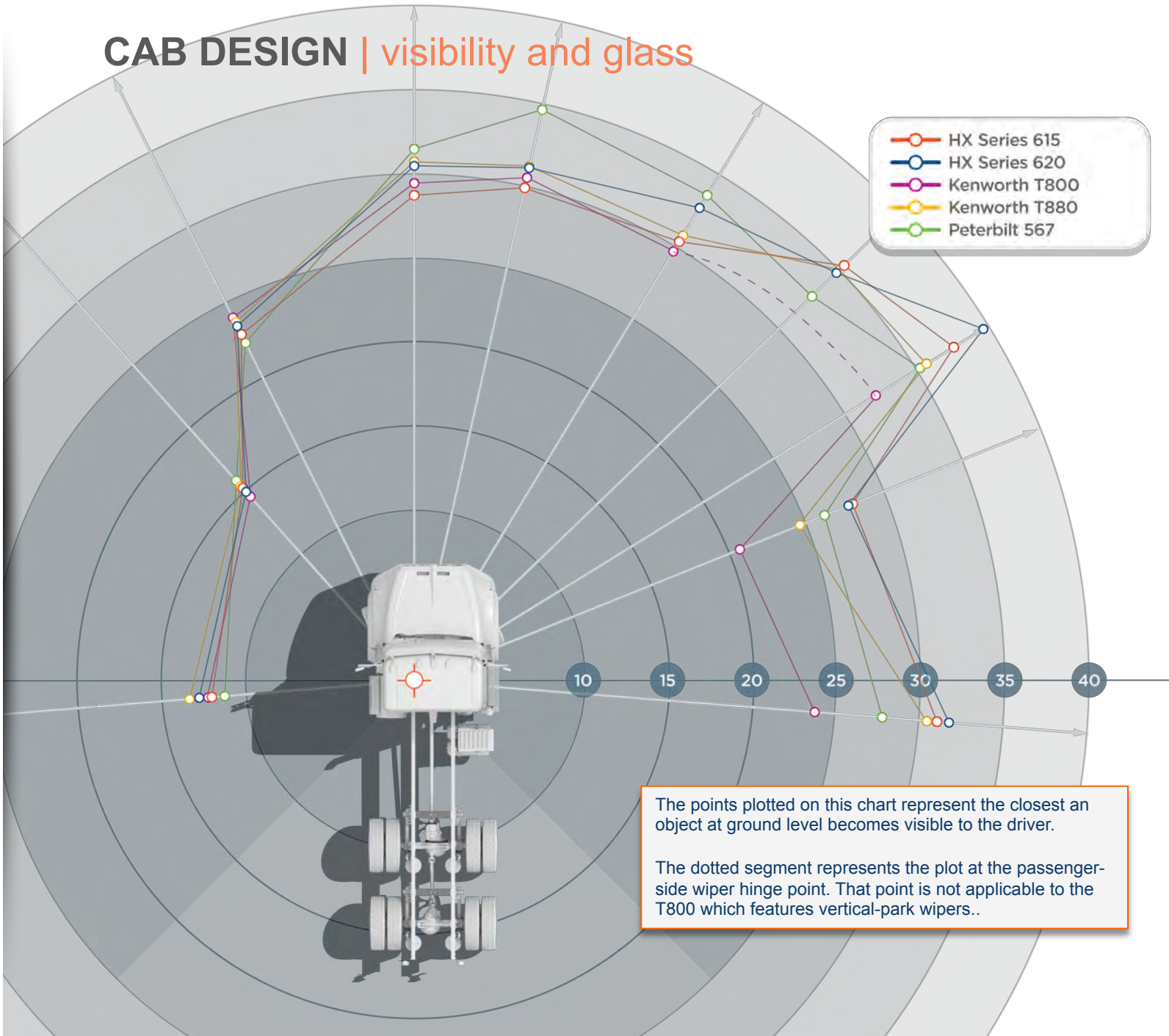
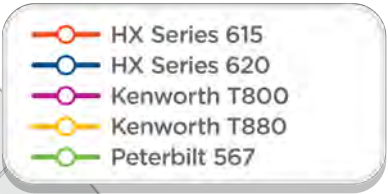
Series	HX Series	Kenworth T800	Peterbilt 567	Kenworth T880
Available BBCs	115", 120"	115.9", 122.6"	115", 121"	116.7", 122.6"
Cab Construction	Riveted and Bonded Aluminum	Huck-bolted Aluminum	Aluminum	Stamped Aluminum
Front Axle Position	28" Set-forward 50.2" Set-back	49" or 51" Set-back	29" Set-forward (115" BBC) 31" Set-forward (121" BBC)	28" Set-forward 49" Set-back
Cab Configurations	Day cab, 51" Sleeper (Low-Roof and H-Rise)	Day Cab, Extended Cab, Sleepers	Day Cab, Sleepers	Day Cab, Sleepers
Cab Suspension - Standard Optional	Air N/A	Solid Mount Link Cabmate Air	Solid Mount Air	Air Mechanical (w/HD rear support)
<b>STEP SPACING CONSISTENCY</b> Ground to Step, Step to Step, Step to Cab Total Cab Sill Height Average Spacing Difference (consistency)	22", 18", 16" 56" 4"	20.75", 20.75", 15.25" 52" 9.17"	22.75", 16', 17.25" 56" 4.5"	22.25", 19", 14" 55.25" 5.5"
Door Opening Area (sq. in.)*	1612	1691.5	1696	1675
Door Hinges	Stainless Steel Piano-type	Stainless Steel Piano-type	Steel, Internal	Steel, Internal
Door Opening Angle	65°	63°	68°	69°
Hood Design	3-piece Metton**	1 or 2-piece depending on model	3-piece Metton	5-piece
Hood Tilt Effort	HX615: 31.5 lbs. HX620: 39.5 lbs.	66 lbs.	83 lbs.	75.4 lbs.
Hood Blow-down	Latch	None	Latch	Latch
Hood Dampening	Dampened Open & Close	No Hood Dampening	No Hood Dampening	Dampened Open & Close
Mirror Mounting	Door-mounted	Cab-mounted	Door-mounted	Cab-mounted

\* Approximated based on height and width at widest point \*\* HX515 utilizes a fiberglass hood

**Key Advantages** — The HX™ Series cab is equipped with a standard air suspension system - redesigned and optimized for heavy-duty applications. The T800 and 567 offer air cab suspension as optional equipment. The HX Series' Metton\* hood requires much less effort to open than the T800, T880 or the 567 and unlike the T800 or 567, is dampened while opening and closing. The HX Series cab steps are also more consistently spaced than the T800, T880 and 567 for more predictable footing.



## CAB DESIGN | visibility and glass



The points plotted on this chart represent the closest an object at ground level becomes visible to the driver.

The dotted segment represents the plot at the passenger-side wiper hinge point. That point is not applicable to the T800 which features vertical-park wipers..

Proper driver visibility is essential to driver and jobsite safety. The HX™ Series has been designed with a large windshield and sloped hoods to provide excellent driver visibility.







# CAB DESIGN | visibility and glass | key numbers



## CAB DESIGN visibility and cab glass



Series	HX Series		Kenworth T800	Peterbilt 567	Kenworth T880
	HX615	HX620			
Driver's Side Rear	144"	150"	144"	128"	154"
Driver's Side Forward	185"	184"	182"	190"	182"
Forward Straight Ahead	348"	366"	349"	374"	350"
Forward Over Center	364"	378"	377"	411"	378"
Forward at Hood Corner	382"	397"	357"	402"	384"
Passenger Side Forward	335"	333"	247"	312"	295"
Passenger Side Rear	381"	388"	280"	329"	378"
Windshield Design	Bonded, 1 or 2-piece		Roped-in, 1 or 2-piece	Bonded, 1-piece	Bonded, 1-piece
Windshield Rake Angle	68°		78°	64°	64°
	1 Piece	2 Piece			
Windshield Area (sq. in.)	1,646	1,685	1,016	1,946	1,780
Wiper Coverage (sq. in.)	938	1,266	605	1,343	1,382
Wiper Efficiency (%)	57	75	60	69	78
Rear Glass (sq. in.)	762		570	1010	625
Side Glass (sq. in.)	1,008		1,268	1,232	1248
Total Glass (sq. in.)	3,416		2,960	4,188	3653

**Key Advantages** — The HX615's forward visibility beats the T800, T880 and is nearly 2 feet better than 567. Both HX™ Series models offer better driver's side visibility than the 567. The HX Series has a greater windshield slope than the T800. A higher degree of slope better deflects road debris reducing the chance of glass damage.





## CAB DESIGN | Pro Style



Now you can work hard and look good while doing it. The HX™ Series is designed to turn heads, convey strength and portray professionalism.

- ▶ All-metal grille with chromed steel surround and available bright grille bars
- ▶ Available stainless-clad aluminum bumper not only looks good but is more durable and reduces weight
- ▶ Available dual external chromed air cleaners provide HD filtration and easy serviceability
- ▶ Specify even greater style and functionality with available stainless visor, bug deflector, bright cab skirts and pedestal hood mirrors
- ▶ Halogen headlamps with LED daytime running lights and turn signals



▶ Available with bright mirrors with LED accents



▶ Available dual external air cleaners ▶ LED powered DRL



▶ Available stainless steel visor

International conducted extensive research to create an all-new, driver-friendly interior for the HX™ Series. The cab is designed to offer ample space, easy accessibility to gauges and switches and standard features that ensure driver comfort. One of the greatest factors in how spacious and comfortable a cab feels to the driver is cab depth. The HX Series cab is deeper from the fuel pedal to back of cab than many competitors. Designers optimized the new door panels to create more space at the hips. The HX Series' angled center dash panel keeps controls and switches within easy reach. Recessed dash-top trays are provided in a variety of sizes and intuitively positioned within easy reach of the driver and passenger. Trays are recessed to varying depths to ensure items remain in-place and do not slide across the dash





# CAB INTERIOR | cab size and dimensions | key numbers



## CAB INTERIOR cab size and dimensions



Series	HX Series	Kenworth T800	Peterbilt 567	Kenworth T880
Width				
A-pillar to A-pillar at Dash	68.50"	57.00"	66.00"	66.5"
A-pillar to A-pillar at Roof	67.50"	57.75"	66.75"	66.75"
B-pillar to B-pillar at Dash	66.75"	65.00"	70.50"	68.5"
B-pillar to B-pillar at Roof	67.00"	68.25"	70.50"	70.25"
Width at Shoulder Level	74.25"	68.25"	78.25"	78.5"
Width at Hip Level	68.25"	64.75"	70.75"	67.25"
Centerline of Seat to Door	15.5"	15.25"	15.5"	14.25"
Depth				
A-pillar to BOC at Dash	42.50"	46.00"	47.00"	47.25"
A-pillar to BOC at Roof	36.50"	43.75"	39.00"	40.5"
Fuel Pedal Center to Rear Wall	44.00"	41.50"	43.25"	43"
Height				
Floor to Roof at Seat Edge	56.00"	57.00"	58.50"	58.5"
Floor to Roof at Dash Edge	52.50"	51.25"	54.50"	54.5"
Floor to Roof at B-pillar	57.00"	56.50"	59.50"	60.5"
Total Volume (cu. ft.)*	88.32	85.12	98.16	99.2"

\*Volume is calculated from the above as well as additional data not included in this table

**Key Advantages** — The HX Series cab is nearly a foot wider at the dash than the T800 and wider at the A-pillars than all three competitors. It is also deeper from the fuel pedal to the back of cab than all three competitors. The HX Series has more space from the centerline of the driver's seat to the door panels than the T800 or T880 – an important dimension in ergonomics and crucial in helping drivers feel less cramped behind the wheel





# CAB INTERIOR | driver environment | key numbers



## CAB INTERIOR driver environment



Series	HX Series				Kenworth T800		Peterbilt 567		Kenworth T880	
Standard Key Features	Air Conditioning Power Windows Power Locks LED Interior Lighting Tilt/Telescopic Column 2 Netted Overhead Compartments				Air Conditioning Manual LH, Power RH Power Locks Incandescent Lighting Fixed Column 2 Open Overhead Compartments		Air Conditioning Power Windows Power Locks LED Interior Lighting Fixed Column 1 Open Overhead Compartment		Air Conditioning LED Interior Lighting Power Windows Power Locks Tilt/Telescopic Column 2 Open Overhead Compartments*	
Seat Travel	6.00"				7.00"		8.25"		8.25"	
Horizontal	6.25"				4.75"		7.25"		5.75"	
Vertical										
Maximum Head Room	41.00"				40.50"		46.25"		46.5"	
Maximum Belly Room	17.25"				17.75"		18.25"		19.25"	
Maximum Leg Room	28.00"				27.97"		26.47"		25.9"	
Steering Column Tilt Range	28°				23°		15°		18°	
Sound Levels (db)*	Interior		Exterior		Interior	Exterior	Interior	Exterior	Interior	Exterior
	A26	X15	A26	X15						
Idle	60.95	62.3**	83.25	84.4**	66.0	82.1	67.0	85.0	68.2	83.5
750 RPM	60.15	62.3	84.35	84.4	69.3	87.1	72.5	86.1	60.5	87.2
1500 RPM	66.75	66.8	93.4	92.5	71.3	90.4	67.6	91.1	69.3	94.0
Governed	72.8	69.5	96.4	95.1	73.0	90.6	N/A†	N/A†	70.9	94.5

\* Sound levels are averaged from minimum and maximum readings recorded over a 10 second duration at all RPM levels  
\*\* ISX15 idled at approximately 750 RPM  
† Vehicle engine governed at 1400 RPM

### Key Advantages

**A quieter cab helps mitigate driver stress** — Average interior noise levels of the HX Series are lower than the T800 and 567 at all levels measured for both engines. The HX Series cab was also quieter than the T880 at most levels measured.

**More seat travel and steering column tilt means more leg room for the driver** — The HX Series' vertical seat travel beats the T800 and T880, while steering column tilt range is greater than the T800, T880 and 567 ensuring a comfortable position for drives of all sizes. Tall drivers will appreciate the additional leg room offered by the HX Series which beats the T800, T880 and 567.





## CHASSIS | chassis and frame equipment



The strength behind the HX™ Series begins with its industry-leading frame. At 3,536,400 in. – lbs., the RBM of its available 1/2" single rail surpasses many competitors reinforced ratings. And the long-term reliability of Huck-Spin frame and crossmember fasteners is standard.

### 1/2" SINGLE RAIL FRAME

- ▶ The HX Series Super Single 1/2" frame rail is stronger and lighter than many reinforced rails — an advantage in weight-sensitive and bridge law applications
- ▶ Single channel rail design reduces the risk of inter-rail corrosion

### 150,000 LB. CAPACITY CENTER TOW PIN

- ▶ 150,000 lb. capacity front tow pin reduces the potential need to unload a portion of the payload during a critical recovery scenario

### STANDARD HUCK-SPIN® FRAME FASTENERS

- ▶ Highly resistant to vibration
- ▶ Huck-Spin fasteners provide superior clamping force over time and don't require re-torquing





# CHASSIS | chassis and frame equipment | key numbers



## CHASSIS chassis and frame equipment



Series	HX Series	Kenworth T800	Peterbilt 567	Kenworth T880
Frame Ratings Yield (PSI) Single Rail RBM (in.-lbs.)	120,000 2,037,600 - 3,536,400	120,000 1,776,000 - 2,683,000	120,000 1,776,000 - 2,568,000	120,000 1,776,000 - 2,683,000
Available Reinforcements Full Partial Reinforced Rail RBM (in.-lbs.)	Outer C-Channel Mixer Transition Plate* 3,580,800 - 4,854,000	Inner C-Channel 10 - 25' Insert 2,925,000 - 5,853,000	Inner or Outer C-Channel Mixer Insert 2,832,000 - 5,484,000	Inner C-Channel 10' - 25', cab to BOC, Over Bogie 2,925,000 - 5,853,000
Frame Extensions Integral Bolt-on	27"* N/A	17.5", 24.5" N/A	N/A N/A	N/A (limited to bumper extensions) N/A
Towing/Recovery Front Rear	Loops, Shackle, Pin, Hooks Loops, Hooks	Hooks, Center Pin Loops, Hooks	Tow Pins, Heavy Duty Tow Eye Hitch, Hooks, Tow Eye	Tow Hooks or Center Hook Pintle, Ram's Horn, Chain Loops
Fuel Tanks Type Capacities Diameters	Aluminum Cylindrical 60 - 120 Gallons 24", 26"	Aluminum Cylindrical 45 - 177 Gallons 22", 24.5", 28.5"	Aluminum Cylindrical 40 - 150 Gallons 20", 26"	Aluminum Cylindrical 45 - 177 Gallons 22", 24.5", 28.5"
Exhaust After-Treatment Device (ATD) Configurations	Switchback with Horizontal or Vertical ATD	Crossover Horizontal or Vertical ATD	Crossover, RH Horizontal or Vertical ATD	Horizontal Crossover, RH Under Cab
Tailpipe Configurations	Horizontal or Single/Dual Vertical	Horizontal or Single/Dual Vertical	Horizontal or Single/Dual Vertical (The LH stack included with the dual side-of-cab exhaust option is non-functional and is an aesthetic- only feature)	Horizontal or Single/ Dual Vertical
DEF Tanks (gallons)	9.5, 16, 15.9**	6.9, 11, 20.7, 31.1	11, 20.7, 31	7.3, 11, 20.7, 31.1

\*HX515 exclusively

\*\*15.9 applies to Cummins X15

### Key Advantages

The 567 and T880 do not offer front frame extensions. It is also notable that the LH stack included with the dual side-of-cab exhaust option on the 567 is non-functional and intended for aesthetic purposes only.

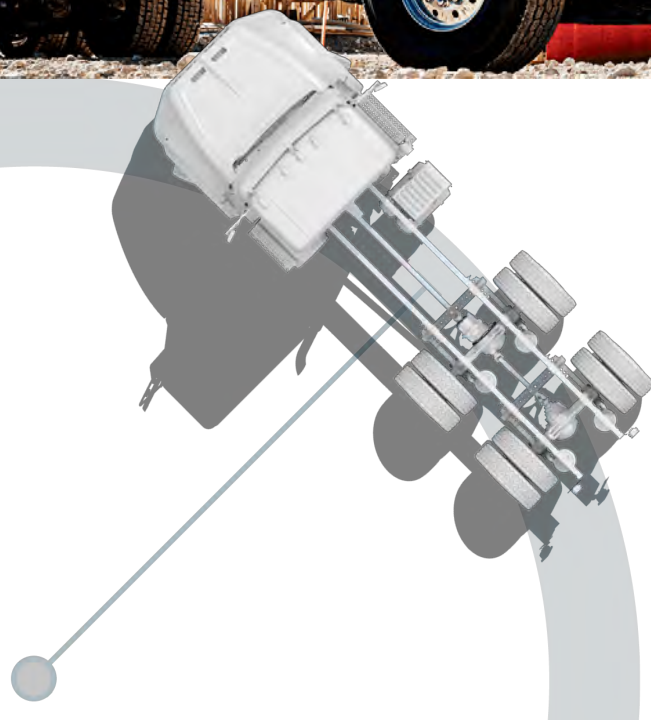




## CHASSIS | axles and maneuverability



Chassis



The HX™ Series' unrivaled agility is a result of up to a 50° wheel cut, standard wide-track front axles and dual steering gear for axles 14,600 lbs. and above.

### OUTSTANDING JOBSITE PERFORMANCE

- ▶ Turning performance of the HX Series beats both competitors measured

### STANDARD WIDE-TRACK FRONT AXLES

- ▶ All front axles are a standard wide track design to provide improved wheel cut and turning radius

### DUAL STEERING GEAR DESIGN

- ▶ 14,600 lb axles and above are standard with dual steering gear design to improve wheel cut
- ▶ Innovative dual gear design enables a high degree of wheel cut in both directions. Competitive designs do not provide equal wheel cut in both directions.





# CHASSIS | axles and maneuverability | key numbers



## CHASSIS axles and maneuverability



Series	HX Series	Kenworth T800	Peterbilt 567	Kenworth T880
Front Axles	12,000 – 22,000 lbs.*	12,000 – 22,000 lbs. †	12,000 – 22,000 lbs.	12,000 – 22,000 lbs.
Front Suspension**				
Multi-Leaf	14,000 – 23,000 lbs.	N/A	N/A	Not Available
Taper-Leaf	12,000 – 20,000 lbs.	12,000 – 22,000 lbs.	12,000 – 23,000 lbs.	12,000 – 23,000 lbs.
Air	N/A	13,200 lbs. (KW AG)	N/A	13,200 lbs.
Inside Wheel Cut	LH: 38° / RH: 38°	LH: 30° / RH: -31°	LH: 35° / RH: 37°	LH: 40° / RH: 46°
LH Turning Radius	35.6'	43'	38.5'	36.4'
Rear Axles	Meritor, Dana	Meritor, Dana, Sisu	Meritor, Dana, Sisu	
Single	N/A	21,000 – 26,000 lbs.	21,000 – 30,000 lbs.	21,000 – 26,000 lbs.
Tandem	40,000 – 70,000 lbs.	34,000†† – 70,000 lbs.	40,000 – 70,000 lbs.	34,000 – 70,000 lbs.
Tridem	53,000 – 69,000 lbs.	69,000 lbs. (capacity varies)	69,000 lbs.	Available (capacity varies)
Rear Suspensions				
Solid Mount	Hendrickson: R Series	Hendrickson: R Series	Hendrickson: R Series	Hendrickson R Series
Steel Spring	Hendrickson: RT Series	Hendrickson: RT Series Reyco: Multi-leaf	Hendrickson: RT Series	Hendrickson RT Series, Reyco Multi-leaf Hendrickson RS, HMX, Chalmers 800 Series
Rubber Spring	Hendrickson: HMX, RS Series Chalmers: 800 Series	Hendrickson: HMX, RS Series Chalmers: 800 Series	Hendrickson: HMX, RS, HN Series Chalmers: 800 Series	HAS, Kenworth
Air Spring	Hendrickson: PRIMAAX®, HAS	Hendrickson: PRIMAAX®, HAS Kenworth: Airglide Neway: AD, ADZ	Peterbilt: Air Trac, Air Leaf, Flex Air	Hendrickson: PRIMAAX®, HAS Kenworth: Airglide Neway: AD, ADZ

\* 12,000 lb. rating set-forward axle only, 22,000 lb. rating set-back axle only

\*\* Capacities vary by model

† 40,000 lb. twin steer available for T800

†† 34,000 lb. applies to 6x2 configurations

### Key Advantages

With its innovative dual-gear design, the HX Series heavily spec'd as tested, produced a 38° wheel cut for both inside wheels – beating the T800 and the 567.





## CHASSIS | electrical and lighting



The HX™ Series features a point-to-point electrical system that's designed to deliver reliable performance, easy operation and simple adaptability to future modifications.

The HX Series also features color-coded, continuously numbered chassis wiring for streamlined troubleshooting and maximum uptime.

- ▶ Chassis electrical lines are protected within a corrugated housing for excellent reliability
- ▶ The HX Series' primary breaker and fuse panel is located inside the cab to protect it from the elements

### **INTERNATIONAL TRUCK SPECIALTY CENTERS PROVIDE QUICK, EFFICIENT AND COST-EFFECTIVE CUSTOMIZATION**

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







# CHASSIS | electrical and lighting | key numbers



## CHASSIS electrical and lighting



Series	HX Series	Kenworth T800	Peterbilt 567	Kenworth T880
System Design	Point-to-point	Multiplexed Instrumentation	Multiplexed Cab	Multiplexed
Panel Locations	In-cab	Under Hood	In-cab	In-cab
Batteries	3 - 4 International®: 1950 - 3700 CCA	2 - 4 PACCAR: 1400 - 2800 CCA Odyssey: 3450 - 4600 CCA Optima: 1800 - 2700 CCA	1 - 4 PACCAR: 700 - 3200 CCA Optima: 1800 - 2700 CCA	1 - 4 PACCAR 700 - 2800 CCA Odyssey 3450 - 4600 CCA
Battery Box	Under Cab, Back of Cab	In Cab, Under Cab, Back of Cab, Between/ Across Rails	In Cab, Under Cab, Back of Cab Between/ Across Rails	BOC, Under Cab, Cantilever BOC, Between Rails, In-cab
Cover	Plastic, Aluminum (polished/unpolished), Bright Stainless Steel	ABS, Aluminum (polished/unpolished), Diamond Plate, Steel	Aluminum, Diamond Plate	Aluminum, ABS, Diamond Plate, Integral Step
Alternators	Delco Remy: 165 - 240 Amp Leece-Neville: 160 - 240 Amp	Bosch: 200 Amp Delco: 320 Amp PACCAR: 160 Amp	Supplier not published: 160 - 300 Amp	Bosch: 160 - 200 AMP Leece Neville: 270 AMP
Jump Start Provision	Battery Box	Back of Cab, Under Hood	Battery Box, Back of Cab, Under Hood	Under Hood, BOC
Circuit Protection Standard Optional	SAE Blade-type Manual-reset Circuit Breakers	SAE Blade-type Manual-reset Circuit Breakers	Standard Not Published Auto Reset Circuit Protection	Standard not published Auto-reset Polyswitches
Daytime Running Lights	Available, LED	Available, Incandescent	Standard, Incandescent	Available, Incandescent

### Key Advantages

The HX Series offers available LED daytime running lights. LED daytime running lights are not available on the T800, 567 or the T880.

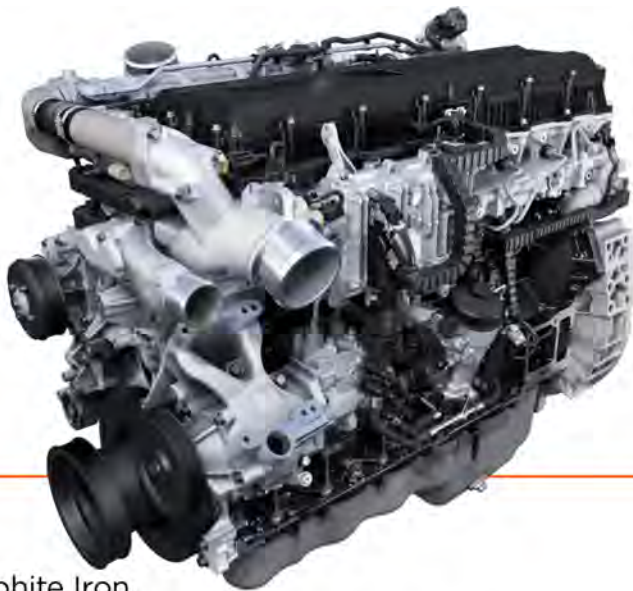




# POWERTRAIN | International A26



The big bore International A26 was engineered to set a new standard in uptime, fuel efficiency and quiet operation. Producing up to 500 HP and 1,750 lb.-ft. of torque in the HV™ Series, this 12.4L diesel includes a Variable Geometry Turbocharger (VGT) with a titanium compressor wheel for superior longevity versus aluminum designs. The A26 is also backed by the industry’s best warranty and is the first engine to meet the B10 standard that requires 90% of delivered engines to travel 1,200,000 miles before a major repair.



## Key Features

- The **crankcase** is constructed with North America’s first big bore Compacted Graphite Iron (CGI) design for 75% higher tensile strength and 45% greater stiffness while reducing weight, noise and vibration.
- The innovative A26™ **cylinder head** achieves the perfect balance between optimal weight, strength, cooling and breathing.
- Pistons** are engineered with a low-friction skirt coating and advanced piston ring geometry to reduce parasitic losses and enhance fuel economy.
- The **single stage EGR cooler** is constructed of laser-welded stainless steel to deliver proven reliability and performance in a compact, easy-to-service design.
- Gear teeth** are produced using an innovative grinding process for smoother, harder and quieter gear surfaces.

Horsepower [BHP @ RPM]	370 - 500 @ 1,700
Torque [LB-FT @ RPM]	1,350 - 1,750 @ 1,000
Gov. Speed [RPM]	2,100





# POWERTRAIN | Cummins® X15 (HX 520 and HX620)



Legendary Cummins reliability is available in the new X15 Performance Series and X15 Efficiency Series configurations. The X15 Efficiency Series produces 450 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. The X15 Performance Series generates up to 605 HP by upgrading virtually every critical component for enhanced air handling, faster throttle response and even stronger braking power at lower RPM.

## Key Features

**Variable Geometry Turbocharger** - Industry-leading proprietary design is four to six times stronger than previous designs for improved durability. The new design also includes a new impeller for rapid boost and improved braking.

**XPI Fuel System** - Delivers better performance at wider range of RPMs with multiple injection events to improve efficiency and provide smoother, quieter operation.

**Single High-Capacity ECM** - Efficient, single ECM management of the engine and after-treatment system for exceptional performance and fuel efficiency.

**Cummins After-treatment System** - A new flow-through design provides better heat management for improved efficiency and increased ash capacity for fewer cleanings. This integrated system is up to 40% lighter and 60% smaller than some two-part systems.



### Efficiency Series\*

Horsepower [BHP @ RPM]	400 - 500 @ 1,800
Torque [LB-FT @ RPM]	1,650 - 1,850 @ 1,000
Gov. Speed [RPM]	1,800

### Performance Series

Horsepower [BHP @ RPM]	485 - 605 @ 1,800 / 1,950
Torque [LB-FT @ RPM]	1,650 - 2,050 @ 1,000 - 1,200
Gov. Speed [RPM]	1,800 - 2,100

\*Up to 600 HP / 1,850 lb.-ft. torque / 2,100 Gov. Speed for Emergency Vehicle applications.



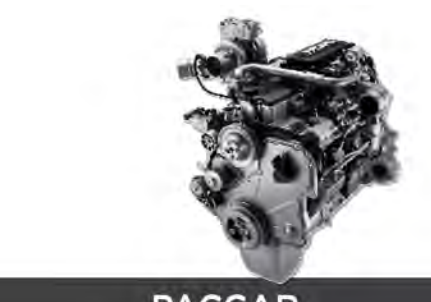


# POWERTRAIN | engine specifications | key numbers



Powertrain

## POWERTRAIN engine specifications



manufacturer	International	Cummins			PACCAR		
Truck Model	HX515, HX615	HX520, HX620, T800, 567, T880	567, T880	567	567, T880	T800, T880, 567	T800, T880, 567
Engine	A26	X15	ISL-G	ISX12-G	PX-9	MX11	MX13
Displacement (L)	12.4L	14.9	8.9L	11.9L	8.9	10.8	12.9
Engine Block	Compacted Graphite Iron	Gray Iron	Gray Iron	Gray Iron	Cast Iron	CGI	CGI
Fuel System	2500 bar High Pressure Common Rail	Extreme Pressure Injection (XPI)	N/A	N/A	High Pressure Common Rail	High Pressure Common Rail	High Pressure Common Rail
Turbocharger	Variable Geometry	Variable Geometry	Wastegate	Wastegate	Variable Geometry	Variable Geometry	Variable Geometry
Horsepower	370-500	400 - 605	320	320 - 400	350 - 380	355 - 430	405 - 510
Torque	1,350 - 1,750	1,650 - 2,050	1,000	1,150 - 1,450	1,150 - 1,250	1,250 - 1,650	1,450 - 1,850
Dry Weight	2,299 lbs.	2,961 lbs.	1,625	2,650	1,695 lbs.	2,200 lbs.	2,600 lbs.
Design Life* (B50/B10)	1,200,000 (B10)	1,000,000 (B50)	600,000 (B50)	600,000 (B50)	500,000 (B50)	1,000,000 (B10)	1,000,000 (B10)
Engine Warranty	2 Years, Unlimited Miles, Unlimited Hours	2 Years, 250,000 Miles	2 Years, 250,000 Miles	2 Years, 250,000 Miles	2 Years, 250,000 Miles**	2 Years, 250,000 Miles**	2 Years, 250,000 Miles**

\*\*Fire and Rescue 5 Years, 100,000 Miles





# POWERTRAIN | transmissions and equipment | key numbers



## POWERTRAIN transmissions and equipment



Series	HX Series	Kenworth T800	Peterbilt 567	Kenworth T880
Automatic Transmissions	Allison: 4000: EVS, RDS 4500: EVS, RDS 4700: OFS, RDS	Allison: 3000: RDS 4000: RDS 4500: EVS, RDS 4700: RDS	Allison: 3000: RDS, HS 4000: RDS, HS 4500: RDS 4700: RDS	Allison: 3000: HS, RDS, EVS 4000: HS, RDS, EVS 4500: RDS, EVS 4700: RDS TC10TS
Automated Transmissions	Eaton: UltraShift® PLUS 10 - 18-speed: LAS, VCS, VMS, VXP, MHP Advantage Series: 10-speed	Eaton: UltraShift® PLUS 10 - 18-speed: LAS, VCS, VMS, VXP, MHP	Eaton: UltraShift® PLUS 10 - 18-speed: LAS, LSE, VCS, VMS, VXP, MHP Advantage Series: 10-speed	Eaton: UltraShift Plus 10 - 18-speed: LAS, VCS, VMS, VXP, MHP Advantage Series: 10-speed
Manual Transmissions	Fuller: 10, 11, 13, 15, 18-speed	Fuller: 9, 10, 11, 13, 15, 18-speed	Fuller: 9, 10, 11, 13, 15, 18-speed	Fuller: 9, 10, 13, 15, 18-speed
Clutches	Eaton Fuller: Solo Advantage®, ECA-1850, ECA-2250	Eaton Fuller: Eaton Manual, Eaton Solo Advantage, Eaton Easy Pedal Advantage	Eaton Fuller: Eaton Easy Pedal Advantage, Eaton Solo Advantage	Eaton Fuller: Advantage Self-Adjust, Easy-Pedal
Clutch Pedal	Standard Hydraulic with Air Assist	Standard Hydraulic with Air Assist	Standard Hydraulic with Air Assist	Standard Hydraulic with Air Assist
PTO Capability FEPTO REPTO	Available (HX515) Available (HX515, HX615)	Available* Available*	N/A Available**	N/A Available*

\*N/A with Cummins X15

\*\* N/A with Cummins X15, ISX12-G

### Key Advantages

The 567 and T880 do not offer a front engine PTO (FEPTO) or front frame extension.

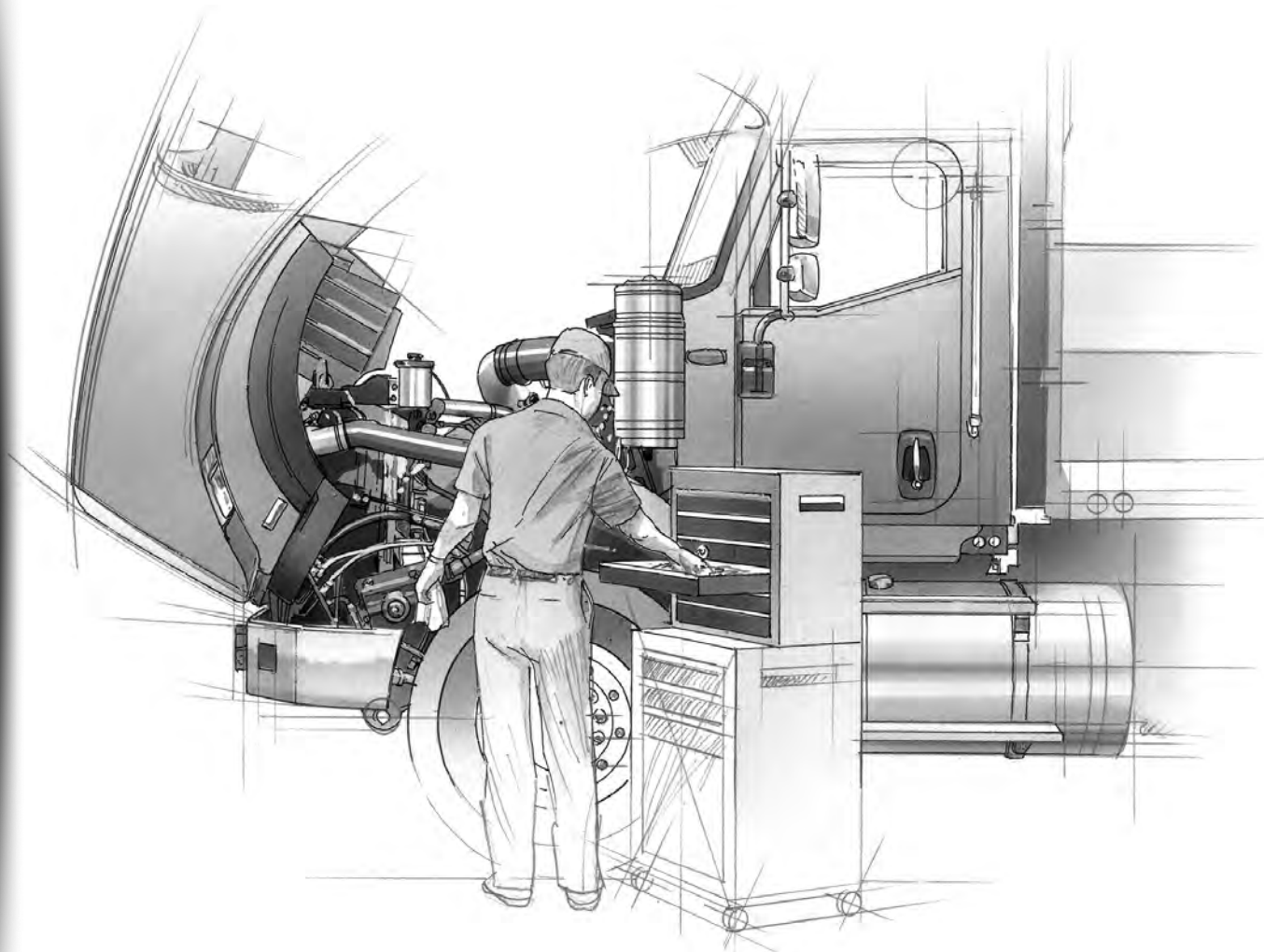




# POWERTRAIN | routine maintenance



Powertrain



Routine maintenance needs to be simple in order for it to remain part of the routine. The HX™ Series is designed with a number of features to streamline daily pre-trip inspections and maintenance.

- The HX Series hoods are well balanced and open easily for simple engine access.
- Hoods are designed with dual gas struts to dampen opening and closure, and also feature an opening lock to prevent the hood from being blown down or inadvertently closed during servicing
- Most common service points are easily accessed from the driver's side of the vehicle
- Many commonly serviced fluid reservoirs are translucent so levels can be confirmed at a glance
- Commonly misplaced caps are tethered to reduce roll-away and lost caps



## Key Advantages


HX™ Series headlight bulb replacement requires no tools, whereas both the T800 and 567 headlight assemblies require the driver to carry tools to service. Air filter servicing is even simpler with the available external air cleaners on HX520 or HX620. External air cleaners are not available on the 567, or the T880. The effort required to lift the hood is below 40lbs. And is far less than the T800, 567 or T880 (see page 7).





# POWERTRAIN | routine maintenance | key numbers



POWERTRAIN routine maintenance									
Series		HX Series		Kenworth T800		Peterbilt 567		Kenworth T880	
Driver Side Maintenance Points		Oil check, Oil fill, Power Steering fluid, Air Cleaner, Filterminder		Oil Check and Fill, Power Steering, Washer, Air Filter		Oil Check and Fill, Washer, Power Steering, Air Filter		Oil Check and Fill, Washer, Power Steering, Air Filter	
Passenger Side Maintenance Points		Coolant reservoir, Washer fluid		Coolant Check and Fill		Coolant Check and Fill		Coolant Check and Fill	
Translucent Containers (levels-at-a-glance)		Coolant reservoir, Washer fluid, Power Steering reservoir		Coolant, Washer, Power Steering		Coolant, Washer, Power Steering		Coolant, Washer, Power Steering	
ISO Identification		Oil check, Coolant reservoir, Washer fluid		Oil Check		Oil Check and Fill, Washer		Oil Check and Fill, Coolant, Washer	
Tethered Caps		Oil fill, Washer fluid		Oil Fill, Washer		Oil Fill, Washer		Oil Fill, Washer	
Engine Air Cleaner		Under Hood, Available Dual External*		Under Hood, Available Dual External		Under Hood		Under Hood	
Headlight Design and Access		Composite, No Tools Required		Sealed Beam, Tools Required		Composite Projector, Tools Required		Complex Reflector, No Tools Required	

manufacturer	International	Cummins			PACCAR		
	A26	ISL-G	ISX12-G	ISX15	PX-9	MX11	MX13
Oil and Filter (miles)	20,000	15,000	25,000	25,000	15,000	30,000	30,000
Fuel Filter (miles)	20,000	15,000	50,000	25,000	15,000	30,000	30,000
Coolant Filter (miles)	80,000	15,000	75,000	50,000	15,000	300,000	300,000
Valve Lash (miles)	120,000 <sup>2</sup>	60,000	75,000	500,000	150,000	160,000 <sup>2</sup>	25,000 <sup>3</sup>
DPF Cleaning (miles)	350,000	N/A	N/A	250,000-400,000	200,000	200,000	200,000
DEF Pump Filter (miles)	300,000	N/A	N/A	250,000	200,000	300,000	300,000

<sup>1</sup> Where specified by manufacturer    <sup>2</sup> Every 300,000 following initial    <sup>3</sup> Every 160,000 following initial





## SUPPORT | dealer network



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



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

### WE HAVE YOUR BACK SO YOU CAN KEEP MOVING FORWARD

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



#### DIAMOND EDGE<sup>SM</sup> CERTIFIED INTERNATIONAL TRUCK DEALERS

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

**YES, WE'RE  
OPEN**

**Saturday**

**475+**

**Locations**

**Sunday**

**45+**

**Locations**

**7,600+**  
**TECHNICIANS**



**7,400+**  
**SERVICE BAYS**



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

**700+**

**DEALER LOCATIONS**

**Leading all competitors in**







## OnCommand<sup>®</sup> Connection

### CONNECT YOUR ENTIRE FLEET THROUGH A SINGLE PORTAL.

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

#### ONCOMMAND CONNECTION HELPS YOU:

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

#### ONCOMMAND CONNECTION HAS THE CAPABILITIES TO:

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

#### ALL THE TOOLS YOU NEED AT YOUR FINGERTIPS

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



**Reduce** en route events by proactively scheduling maintenance and repairs



**Map** tools that plot truck locations, nearest dealers, hotels and local towing providers



**Generate** real-time comprehensive vehicle health reports



**Understand** fault codes quickly and easily with descriptions in plain English



**Gain** more insight with fault code action plans that provide severity information and recommend solutions



# SUMMARY | designed to endure, engineered to perform



## CAB

- One of the industry's only aluminum cabs dedicated for severe duty features riveted and bonded lap seams for a tight and durable cab
- Bold, aggressive styling with rugged all-metal grille, bright surround and available bright grille bars
- Complex-style halogen reflector headlamps and available LED daytime running lights for superior nighttime visibility
- New sloped hood design, large 1- or 2-piece windshield and 14% larger rear window provide excellent driver visibility
- Available dual external air cleaners provide heavy duty filtration, are simple to service and are not available on the 567 or T880
- Stainless steel piano-style door hinges are corrosion resistant and better disperse stress over door frame for excellent long-term durability

## CAB INTERIOR

- Spacious, well-designed and ergonomic driver's interior
- Standard power windows/power locks and air conditioning, tilt/telescopic column for the utmost comfort
- Standard interior LED lighting is bright and extremely durable and is currently not offered on the T800
- New cab suspension helps isolate the cab from road noise and vibration for improved ride and comfort

## CHASSIS

- Standard wide track front axles, optimized steering geometry and innovative dual steering gear on axles 14,600 lbs. and above provide excellent wheel cut and maneuverability
- 12.5" frame is one of the industry's toughest single rail frames and provides up to 3.5 million RBM with less weight and no risk of inter-rail corrosion possible with double frames
- Available 150,000 lb. capacity center tow pin provides confidence in extreme recovery situations
- The HX515 provides FEPTO and front frame extension capability – a FEPTO is not offered on the 567 or T880
- Available REPTO for the HX515 and HX615 includes large in-cab access panel for easier inspection and maintenance

## POWERTRAIN

- Rugged performance and durability of the Cummins X15 provides the HX520 and HX620 with the pulling power of up to 605 HP and 2,050 lb.-ft. of torque
- The advanced CGI design of the International® A26 provides superior strength and efficiency without added weight for HX515 or HX615 applications requiring up to 500HP and 1,750 lb.-ft. of torque
- All four HX™ Series models feature a wide range of manual, automated and automatic transmissions to ensure a properly configured truck geared to perform under the most demanding applications

*This document was prepared by an independent third party and is intended for the exclusive use of International Truck and its dealers. The information and conclusions contained within 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 this analysis was conducted. Vehicles with different specifications or later dates of manufacture could yield different results. Vehicle specifications are subject to change without notice.*