



HX[®] SERIES COMPARISON GUIDE

SEVERE DUTY JOB? BRING IT.

The HX Series has always been the go-to truck for the toughest applications. Thanks to features like built-in International® Diamond Logic® multiplex technology and factory-installed lift axle options, the HX Series is a body company's dream. Add in legendary durability and excellent maneuverability and it's easy to see why the HX Series is the king of jobsites everywhere.



- The HX Series cab is made of tough, durable easy to repair steel. The new cab offers larger, quieter interior with air-tight, watertight seals along with reinforced door hinges and B-Pillars
- Huck-bolted frame and crossmembers for superior clamping force that will not loosen over time, and are highly resistant to vibration
- The DCPD (Dicyclopentadiene) three-piece hood is stronger than fiberglass and resists cracking over the life of the truck
- The HX Series was designed with a large sweptback windshield, sloped hood design, optimized mirror placement and redesigned 1-piece side windows that provide a clear field of view
- Available industry-leading 12.5" x .5" single frame rail delivering 3.5 million RBM
- Available International® S13 Integrated with up to 515 hp and 1,850 lb.-ft. of torque and Cummins® X15 engine with up to 605 hp and 2,050 lb.-ft. of torque
- Available with a dynamic range of factory-installed lift axles, pre-certified and ready to get to work
- The optimized cab suspension provides a supremely comfortable and quiet ride

BRUTE FORCE MEETS SURGICAL PRECISION.

Built to endure, thrive and dominate any assignment, it's hard to imagine a truck with more capability than the International® HX® Series truck. Its premium interior offers the space and materials designed to provide comfort and support mile after extreme mile. And when equipped with the revolutionary, light-weight International® S13® Integrated Powertrain, businesses can benefit from outstanding payload capacity, exceptional fuel economy and simplified serviceability.

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"x3.893"x0.625": 3,580,800 RBM

• 3/8"+ 5/16": 13.030"x3.687"x0.6875": 4,854,000 RBM

Engines

International S13

• HX620

• 400 – 515 HP

• 1,450 – 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 Fuller manual: 8LL (10), 9ALL (11), 13, 18-speed

• Eaton Cummins automated manual endurant HD: 12-speed

• Eaton Cummins 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.

• Cummins-Meritor: 12,000 – 22,800 lbs.

HX520

• Cummins-Meritor: 12,000 – 20,000 lbs.

Front suspensions

HX520

• Multi-leaf: 20,000 lbs.

• 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.

• Cummins-Meritor: 40,000 – 58,000 lbs.

Single and double reduction

Tridem rear axles

• Cummins-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.

COMPETITIVE SET

The International® model was compared side-to-side against several of its competitors. Although all models have unique design elements and component availability, every measure has been taken to perform an accurate head-to-head comparison of key specifications, components, and features.



COMPETITIVE SET	INTERNATIONAL HX MAIN	KENWORTH T880 MAIN	MACK GRANITE MAIN	WESTERN STAR 49X MAIN
BBC	119"	117"	117"	121.5"
BA	50"	48.5"	29"	30"
Engine	S13 430 HP	MX-13 455 HP	MP8 505 HP	DD16 530 HP
Transmission	T14	TX-18	4500 RDS	4500 RDS
Frame	12.25" x 3.38" x .375"	10.75" x 3.5" x .375"	11.81" x 5.13" x .437"	12.4" x 3.5" x .59"
Front Axle	MFS-20-133A 20K	FX-20 20K	FLX20 20K	MFS-20-133 20K
Rear Axle	RT-46-160 46K	RT-46-160P 46K	RT-46-164EH 46K	RT-46-160 46K
Rear Suspension	HAULMAAX EX 46K	HAULMAAX EX 46K	HAULMAAX EX 46K	HAULMAAX 46K
Tire Manufacturer	Michelin / Continental	Michelin	Michelin	Michelin
Front Tires	425/65R22.5	385/65R22.5	425/65R22.5	425/65R22.5
Front Tire Tread	XZY3	XZY3	XZY3	XZY-3
Rear Tires	11R22.5	11R22.5	11R22.5	11R24.5
Rear Tire Tread	HSR2	XDN2	X Works	X Multi-D
Base Warranty	1 year / Unlimited miles	1 year / 100,000 miles	1 year / 100,000 miles	1 year / 100,000 miles

AS COMFORTABLE ON THE SITE AS YOU ARE GETTING THERE



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 – a cab you can work in all day long without feeling cramped.

KEY FEATURES

- Extreme duty steel cab features reinforced door hinges, B-pillars, and high strength steel sled runners for added strength and durability
- DCPD (Dicyclopentadiene) three-piece sloped hood is stronger than fiberglass and resists cracking over the life of the truck
- The HX® Series features a special paint and coating process that provides superior cab protection required for extreme duty environments

CAB DESIGN

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.

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.



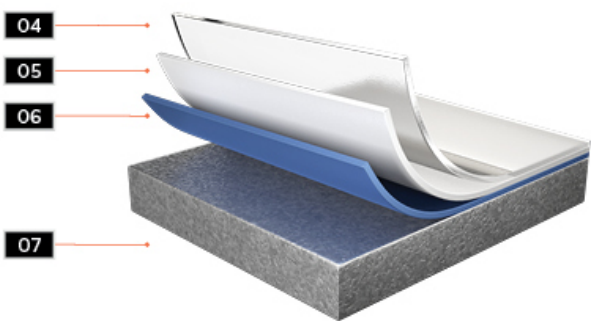
CAB OF STEEL.



CORROSION PROTECTION

01	InterCoat® ChemGuard Coating	Think of it as a self-healing layer of skin on our galvanized steel. This inter-reactive, chrome-zinc phosphate coating is used on floor and toe kick panels to help extend integrity. The self-rejuvenating properties allow surface cuts, scratches and perforations to maintain corrosion protection.
02	Spray-On Liner Coating	This available polyurethane and polyurea formulation creates a protective tray on the cab floor that contains spills as well as any of nature's elements that make their way inside. Durable and long-lasting, optional spray-on liner coating is an OEM-grade protective coating designed to guard against abrasion, corrosion and impact and can be found on over 4 million pickup bedliners.
03	Reinforced B-Pillars	For extra cab strength and to support the new cab-mounted exhaust option, every HX Series includes reinforced B-pillars.

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



E-COAT PAINT PROCESS

04	Clearcoat
05	Base Coat
06	E-Coat
07	Galvanized Steel



STRUCTURAL ENHANCEMENTS

Sled Runners (day cab and sleeper)
The HX Series cab variants feature high-strength steel sled runners for improved durability.



Strut Brace (sleeper only)
A strut brace improves dash endurance.

CAB DESIGN

KEY SPECS

VISIBILITY

GLASS



KEY SPECS		INTERNATIONAL HX CAB	KENWORTH T880 CAB	MACK GRANITE CAB	WESTERN STAR 49X CAB
BBC		120" 119"	116.7" 122.6"	115.2"	121.5"
BA		29.9" 49.9"	28" 49"	29.4" 51"	30.1" 46.5"
GVWR		80,000 lbs.	86,500 lbs.	86,000 lbs.	66,000 lbs.
Cab Construction		Welded Steel	Aluminum	Welded Steel	Steel Reinforced Aluminum
Available Cabs / Sleepers		Day Cab Low Roof: 56" High-Rise: 56", 73"	Day Cab Low Roof: 40", 52" Mid Roof: 52", 76" High Roof: 76"	Day Cab Low Roof: 36"	Day Cab Low Roof: 36" Mid Roof: 36", 48", 60", 72" High Roof: 72"
Hood Design		3-piece	5-piece	1-piece	1-piece
Step Height	Ground to Step	23.5"	20.5"	23.75"	24.75"
	Step to Step	18.75"	19.25"	18.5"	17.75"
	Step to Cab	14.5"	14.5"	10.5"	15.5"
	Total Cab Height	56.75"	54.25"	52.75"	58"
	Average Spacing Difference	4.5"	3"	6.625"	4.625"
Hood Hatch		Not Available	Not Available	Not Available	Available
Integral Snow Valve		Available	Available	Available	Available

CAB DESIGN

KEY SPECS

VISIBILITY

GLASS



VISIBILITY	INTERNATIONAL HX CAB	KENWORTH T880 CAB	MACK GRANITE CAB	WESTERN STAR 49X CAB
Driver Side Rear	128.7"	150.6"	123.8"	170.3"
Driver Side Forward	166.9"	181.8"	147.3"	188.9"
Forward Left Side	223.3"	293.6"	193.6"	261.8"
Forward Straight Ahead	341.8"	319.3"	317.7"	359.9"
Forward Over Center	375.9"	347.1"	333.1"	382.4"
Forward at Hood Corner	371.2"	362.5"	353.1"	395.1"
Forward Wiper	392.6"	421.5"	392.8"	400.3"
Forward Right Side	360.8"	410.6"	355.1"	413.3"
Passenger Side Forward	314.4"	294"	278"	341.5"
Passenger Side Rear	351.2"	379.5"	313.5"	482.5"

CAB DESIGN

KEY SPECS

VISIBILITY

GLASS



GLASS	INTERNATIONAL HX CAB GLASS	KENWORTH T880 CAB GLASS	MACK GRANITE CAB GLASS	WESTERN STAR 49X CAB GLASS
Windshield Design	1-piece	1-piece	1-piece	1-piece
Windshield Installation	Bonded	Bonded	Roped-in	Roped-in
Windshield Slope	61°	64°	69°	64°
Windshield Area	1,909 sq. in.	1,780 sq. in.	1,839 sq. in.	1,927 sq. in.
Wiper Coverage	1,193 sq. in.	1,382 sq. in.	1,082 sq. in.	1,418 sq. in.
Wiper Efficiency	62%	78%	59%	74%
Side Glass	1,144 sq. in.	1,248 sq. in.	882 sq. in.	1,076 sq. in.
Rear Glass	749 sq. in.	625 sq. in.	842 sq. in.	590 sq. in.
Total Glass	3,802 sq. in.	3,653 sq. in.	3,563 sq. in.	3,593 sq. in.

ALWAYS TAKE CARE OF THE DRIVER.



A premium truck demands a premium cab. And just as there's no truck that can outwork the HX Series, nobody offers a more comfortable interior. The new Diamond Elite trim level provides best-in-class comfort – providing the ideal temperature, support and seating position for the most discerning drivers.



SEAT OF POWER

A well-designed seat should help the driver stay fresh and alert. That's why the Diamond Elite seat in the HX Series has so many adjustments. It can now be tailored to suit drivers of all shapes and sizes, incorporating features normally only found in luxury automobiles.

Seat Cushion Adjustment

- Controls the bottom seat cushion length and tilt
- Helps accommodate drivers of all heights by distributing leg support

Fore/Aft Isolator & Adjustable Shock Absorber

- Sometimes known as a "chugger," the fore/aft isolator dampens the movement/jostling caused by various loads
- The adjustable shock absorber can vary the stiffness of the ride to match the road profile

Seat Length and Height Adjustment

- The height and length adjustment allows drivers to find the perfect driving position
- Pneumatic lumbar and side bolster supports
- The two-chamber lumbar adjustment is especially appreciated by drivers who spend long hours behind the wheel
- Pneumatic side bolsters provide additional upper body support and help the driver sit more upright

Seat Backrest and Armrest

- The adjustable backrest provides up to 52 degrees of range
- The armrest is designed to provide support for drivers of various sizes

Seat Climate Control

- Active seat ventilation helps keep drivers and passengers comfortable on a long drive in any weather
- Two fans draw fresh cabin air into the seats, allowing the air to circulate and keeping perspiration to a minimum
- A sensor is located in both the seat and backrest to ensure uniform temperature distribution

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	DIAMOND ELITE
12-Volt Power Supply	Standard
Trim Panels	Easy-to-Clean, Soft Touch Vinyl with Satin Mahogany Accents
Headliner	Soft Vinyl
Sleeper Windows	Standard
Windshield Curtain	Optional
Sleeper Control Panel	Standard
Microwave Accommodation	Optional
TV Accommodation	Optional
56" LOW-ROOF	
Overhead Storage	Two Airline-Style Cabinets Standard, with an Option for Two Additional
56" HI-RISE	
Overhead Storage	Two Compartments with Netting or Doors
Rear Wall Storage	Optional
73" HI-RISE	
Overhead Storage	Optional Two or Four Compartments with Nets or Optional Doors
Rear Wall Storage	Standard
Driver Side Wardrobe	Standard, Optional Doors
Passenger Side Cabinets	Utility Cabinet, Lower Right Wardrobe Tower Cabinet, Dresser Cabinet, Refrigerator, Storage with or without Doors

CAB INTERIOR

INTERIOR DIMENSIONS

DRIVER ENVIRONMENT



INTERIOR DIMENSIONS	INTERNATIONAL HX INTERIOR DIMENSIONS	KENWORTH T880 INTERIOR DIMENSIONS	MACK GRANITE INTERIOR DIMENSIONS	WESTERN STAR 49X INTERIOR DIMENSIONS
Cab Width at Shoulder Level	78"	78.5"	74.75"	85.75"
Cab Width at Hip Level	72.5"	67.25"	65.5"	75.25"
Fuel Pedal to Back of Cab	46.5"	43"	48"	45.5"
Floor to Roof at Seat Edge	56"	58.5"	57.5"	58"
Total Volume Cab	92.6 cu. ft.	99.2 cu. ft.	93.6 cu. ft.	109.19 cu. ft.
Door Opening Height	52"	50"	50.5"	52.5"
Door Opening Width	35.5"	33.5"	31.5"	33.5"
Door Opening Angle	65°	68°	80°	53°

CAB INTERIOR

INTERIOR DIMENSIONS

DRIVER ENVIRONMENT



DRIVER ENVIRONMENT		INTERNATIONAL HX INTERIOR	KENWORTH T880 INTERIOR	MACK GRANITE INTERIOR	WESTERN STAR 49X INTERIOR
Belly Room		22.5"	18.75"	17.5"	23.75"
Leg Room		29.03"	26.63"	29.69"	29.35"
Head Room	Minimum	36.5"	38"	36.5"	37"
	Maximum	41.5"	45"	43.25"	41.25"
Sound Levels Interior	@idle	57 dB	65.6 dB	59.9 dB	57.6 dB
	750 rpm	58.9 dB	61.8 dB	56.2 dB	57.9 dB
	1000 rpm	62.1 dB	62.3 dB	58.2 dB	61.8 dB
	1500 rpm	68.2 dB	66.6 dB	N/A	66.3 dB
	Governed	70.8 dB	70.4 dB	N/A	71.2 dB
Sound Levels Exterior	@idle	80.6 dB	80.5 dB	77.4 dB	79.7 dB
	750 rpm	84 dB	81.3 dB	86.2 dB	80.7 dB
	1000 rpm	87.4 dB	84.3 dB	91.7 dB	84.9 dB
	1500 rpm	92.8 dB	90.2 dB	N/A	89.8 dB
	Governed	94.2 dB	95.9 dB	N/A	96.4 dB

A TEM-READY TASKMASTER.



The International® Diamond Logic® electrical system, standard on the 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 movable components, the HX Series allows TEMs to create the ideal solution for your application requirements.

KEY FEATURES

- Single 1/2", 3.5 million RBM straight frame rail provides high strength without added weight or risk of inter rail corrosion for dump and crane applications
- Diamond Logic® capable multiplexed electrical system allows you to customize the vehicle chassis to suit specific applications, Diamond Logic Builder allows TEM's to write their own logic
- Available with a dynamic range of factory-installed lift axles controlled through Diamond Logic, pre-certified and ready to get to work

CHASSIS

Body Company Benefits

Mixer

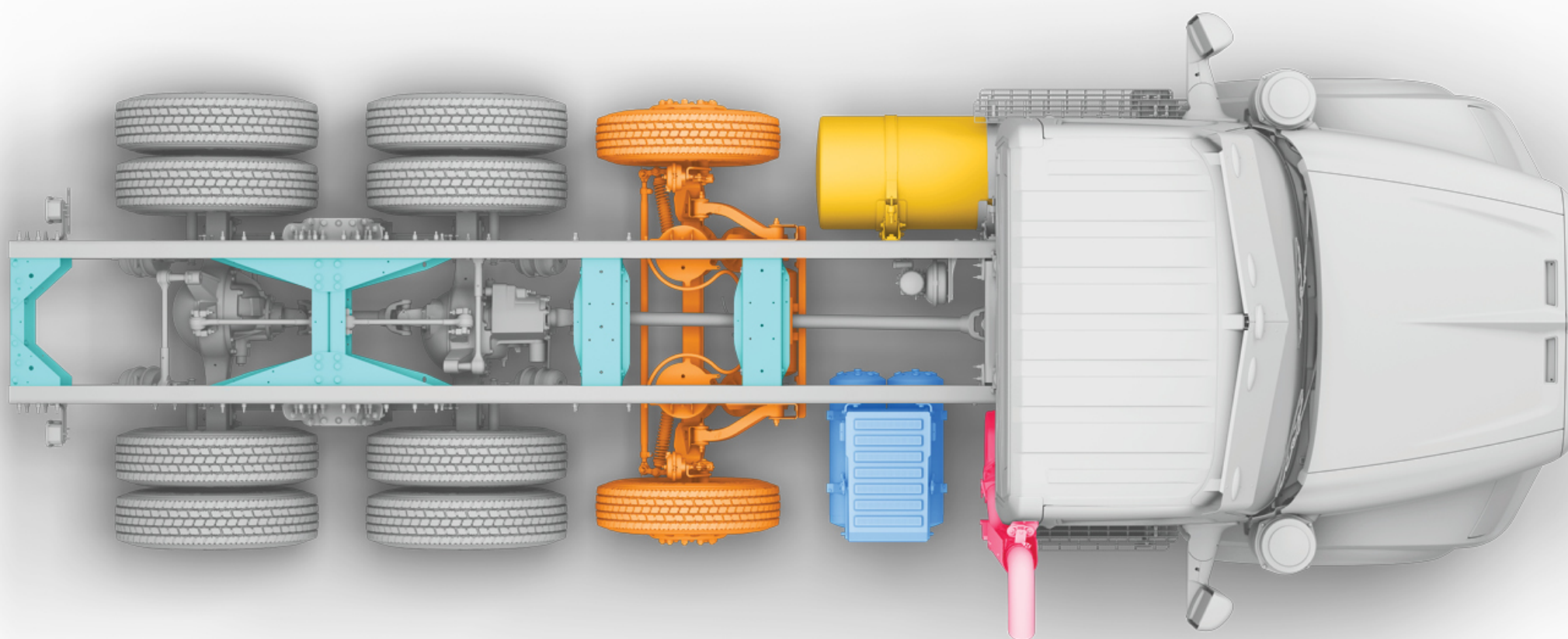
- Specific cross-member location to accommodate mixer PTO pump
- Factory-installed transition brackets for body mounting
- Inverted after-frame cross members for booster axle ram clearance

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

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 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

LINKING TEMS WITH DEALERS TO STREAMLINE INSTALLATIONS AND ENHANCE CUSTOMER UPTIME

The Diamond Partner Program creates a new conduit between International, 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.

CHASSIS

FRAME

FUEL TANK CAPACITY

AXLES

SUSPENSION

UPFITTER



FRAME		INTERNATIONAL HX FRAME	KENWORTH T880 FRAME	MACK GRANITE FRAME	WESTERN STAR 49X FRAME
Frame Rating (RBM)		2,037,600 - 3,536,400 lbs.	1,776,000 - 2,683,000 lbs.	1,880,000 - 3,160,000 lbs.	1,792,426 - 3,737,583 lbs.
Available Reinforcements (RBM)		3,580,800 - 4,854,000 lbs.	2,925,000 - 5,853,000 lbs.	3,230,000 - 4,260,000 lbs.	4,410,000 - 5,470,000 lbs.
Front of Frame Extensions	Integral	27"	Not Available	20"	8, 12, 16, 20, 24, 30"
	Bolt-On	Not Available	Not Available	6, 27"	Not Available
	Bumper Extension	Not Available	Not Available	Not Available	Not Available
Towing/Recovery	Front	Hooks, Pin	Hooks	Hooks, Loops, Pins	Hooks, Pin
	Rear	Loops, Hooks	Hooks, Loops, Pintle Hitch	Hooks	Hooks, Pintle Hitch

CHASSIS

FRAME

FUEL TANK CAPACITY

AXLES

SUSPENSION

UPFITTER



FUEL TANK CAPACITY	INTERNATIONAL HX FRAME	KENWORTH T880 FRAME	MACK GRANITE FRAME	WESTERN STAR 49X FRAME
Fuel Tank	50 - 300 gal.	45 - 354 gal.	50 - 232 gal.	50 - 300 gal.
DEF Tank	7, 10.6, 10.8, 15.9, 18, 25.2 gal.	7.3, 14, 21, 23.8, 30 gal.	6.6, 8.7, 11.8, 18.4 gal.	8, 13, 22 gal.

CHASSIS

FRAME

FUEL TANK CAPACITY

AXLES

SUSPENSION

UPFITTER



AXLES		INTERNATIONAL HX AXLE	KENWORTH T880 AXLE	MACK GRANITE AXLE	WESTERN STAR 49X AXLE
Configurations	Set Forward	29.9"	28"	29.4"	30.1"
	Set Back	50.2"	49"	51"	46.5"
Manufacturers	Front	Cummins-Meritor, Dana Spicer	PACCAR, Cummins-Meritor, Dana Spicer	Mack, Marmon-Harrington	Detroit, Cummins-Meritor
	Rear	Cummins-Meritor, Dana Spicer	Cummins-Meritor, Dana Spicer, Sisu	Mack, Cummins-Meritor, Dana Spicer	Detroit, Cummins-Meritor, Dana Spicer
Capacities	Front	12,000 - 22,800 lbs.	12,500 - 22,800 lbs.	12,000 - 23,000 lbs.	12,000 - 23,000 lbs.
	Rear	40,000 - 69,000 lbs.	21,000 - 78,000 lbs.	23,000 - 85,000 lbs.	21,000 - 69,000 lbs.
	- Single	Not Available	21,000 - 30,000 lbs.	23,000 - 30,000 lbs.	21,000 - 30,000 lbs.
	- Tandem	40,000 - 58,000 lbs.	34,000 - 70,000 lbs.	38,000 - 65,000 lbs.	40,000 - 84,000 lbs.
	- Tridem	50,000 - 69,000 lbs.	51,000 - 78,000 lbs.	45,000 - 85,000 lbs.	69,000 - 126,000 lbs.

CHASSIS

FRAME

FUEL TANK CAPACITY

AXLES

SUSPENSION

UPFITTER



SUSPENSION		INTERNATIONAL HX FRAME	KENWORTH T880 FRAME	MACK GRANITE FRAME	WESTERN STAR 49X FRAME
Type	Spring				
	- Front	Taper-leaf, Multi-leaf	Taper-leaf	Taper-leaf, Multi-leaf	Taper-leaf, Flat-leaf
	- Rear	Not Available	Reyco: 79KB, 102 Multi-leaf	Multi-leaf	Freightliner Flat-leaf, TufTrac
	Air				
	- Front	Not Available	Kenworth AG-130	Not Available	Not Available
	- Rear	Hendrickson: HAS, PRIMAAAX EX	Kenworth: Airglide, Hendrickson: PRIMAAAX EX, HAS, Neway: AD, ADZ	Mack: AL-402, Link: Air Link, Hendrickson: PRIMAAAX EX, Neway: ADZ	Freightliner: AirLiner, Hendrickson: PRIMAAAX EX
	Beam				
	- Rear	Hendrickson: R, RT, HAULMAAX EX, Chalmers: 800 Series	Hendrickson: RT, ULTIMAAX, HAULMAAX EX, Chalmers: 800 Series	Mack: Camelback, mRide, Hendrickson: RS, RT, RTE, HAULMAAX EX, HN, Chalmers: 800 Series	Hendrickson: ULTIMAAX, HAULMAAX EX, Chalmers: 800 Series
Capacities	Front	12,000 - 22,800 lbs.	12,000 - 23,000 lbs.	12,000 - 23,000 lbs.	12,000 - 23,000 lbs.
	Rear	40,000 - 69,000 lbs.	23,000 - 90,000 lbs.	23,000 - 85,000 lbs.	21,000 - 126,000 lbs.

CHASSIS

FRAME

FUEL TANK CAPACITY

AXLES

SUSPENSION

UPFITTER

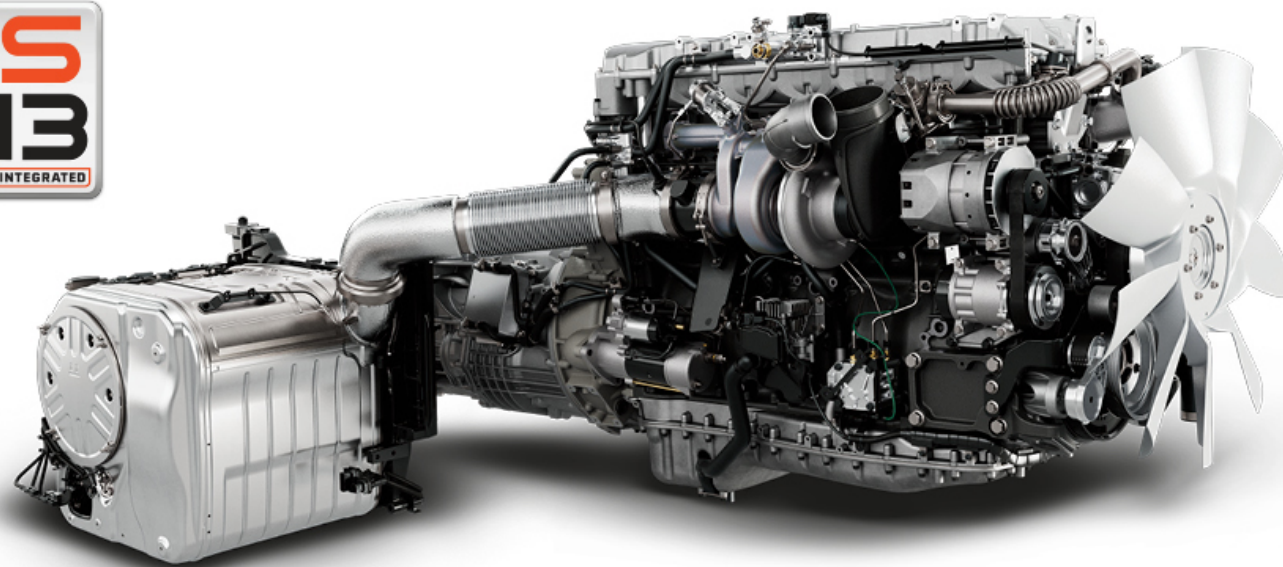


UPFITTER	INTERNATIONAL HX FRAME	KENWORTH T880 FRAME	MACK GRANITE FRAME	WESTERN STAR 49X FRAME
Body Builder Wiring Access	Back of Cab, End of Frame	Back of Cab, Mid-Rail, End of Frame	Back of Cab, End of Frame	Back of Cab, End of Frame
Maximum Upfitter Auxiliary Switches	Up to 30	Up to 5	Up to 10	Up to 24

POWERFUL OPTIONS

The HX Series offers powertrain options that can suit your specific needs. Whether you choose the lightweight S13 Integrated Powertrain or the 15-liter Cummins X15, you will have all the muscle, performance and capability you need to get the job done.

POWERTRAIN



KEY FEATURES

- FEPTO, REPTO and dual transmission PTO's available with a variety of common interfaces
- Shift actuator packaging was designed specifically for automated functionality, allowing for more compact gearbox housing
- High temperature fasteners have a permanent coating on the exhaust manifolds, turbocharger, and heat shields to prevent seizing

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	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	24 months; unlimited miles, unlimited hours*
Base major component	60 months; 500,000 miles
Base towing	24 months; unlimited miles, unlimited hours**
Optional engine	Up to 72 months, 600,000 miles
Optional major component	Up to 84 months, 700,000 miles

* Fire & rescue applications: 60 months/100,000 miles/unlimited hours

**Towing for vehicles with engine failures

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

T14 GEAR RATIOS AVAILABLE

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

POWERTRAIN

CUMMINS X15 PROVEN MUSCLE FOR THE HEAVY HAUL



Engine type	Diesel, 4-cycle
Configuration	Inline 6-cylinder
Displacement	14.9L (912 cu. in.)
Bore & stroke	5.3 in. & 6.65 in. (137 mm & 169 mm)
Compression ratio	18.9:1
Aspiration	Variable geometry turbocharger
Combustion system	Direct injection CPI fuel system
Engine lubrication	56 Quarts (53L)
Total engine weight	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	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

KEY FEATURES

- The proprietary design of the VGT Turbo is stronger than previous designs and also includes an impeller for rapid boost and improved braking
- Single high-capacity ECM management of the engine and aftertreatment system provides exceptional performance and fuel efficiency
- A flow-through Aftertreatment System design provides better heat management for improved efficiency and increased ash capacity for fewer cleanings

POWERTRAIN

ENGINE SPECS

TRANSMISSION

PTO

ROUTINE MAINTENANCE



ENGINE SPECS	INTERNATIONAL HX ENGINE	KENWORTH T880 ENGINE	MACK GRANITE ENGINE	WESTERN STAR 49X ENGINE
Engine	International S13 Cummins X15	PACCAR PX-9 PACCAR MX-11 PACCAR MX-13 Cummins L9N Cummins X12N Cummins X15	Mack MP7 MP8	Detroit DD13 Detroit DD15 Detroit DD16 Cummins X12 Cummins X15
Displacement	12.7L 14.9L	8.9L 10.8L 12.9L 8.9L 11.9L 14.9L	10.8L 12.8L	12.8L 14.8L 15.6L 11.9L 14.9L
Horsepower	400 - 515 hp 430 - 605 hp	330 - 450 hp 355 - 445 hp 405 - 510 hp 320 hp 320 - 400 hp 450 - 605 hp	325 - 425 hp 415 - 505 hp	370 - 525 hp 425 - 505 hp 500 - 600 hp 350 - 500 hp 400 - 605 hp
Torque	1,450 - 1,850 lb.-ft. 1,650 - 2,050 lb.-ft.	1,000 - 1,250 lb.-ft. 1,250 - 1,700 lb.-ft. 1,550 - 1,850 lb.-ft. 1,000 lb.-ft. 1,150 - 1,450 lb.-ft. 1,450 - 2,050 lb.-ft.	1,260 - 1,560 lb.-ft. 1,460 - 1,860 lb.-ft.	1,250 - 1,850 lb.-ft. 1,550 - 1,850 lb.-ft. 1,850 - 2,050 lb.-ft. 1,250 - 1,700 lb.-ft. 1,450 - 2,050 lb.-ft.
Warranty	2 years / Unlimited 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 2 years / 250,000 miles	2 years / 250,000 miles 2 years / 250,000 miles	2 years / Unlimited miles 2 years / 250,000 miles 2 years / 250,000 miles 2 years / 250,000 miles

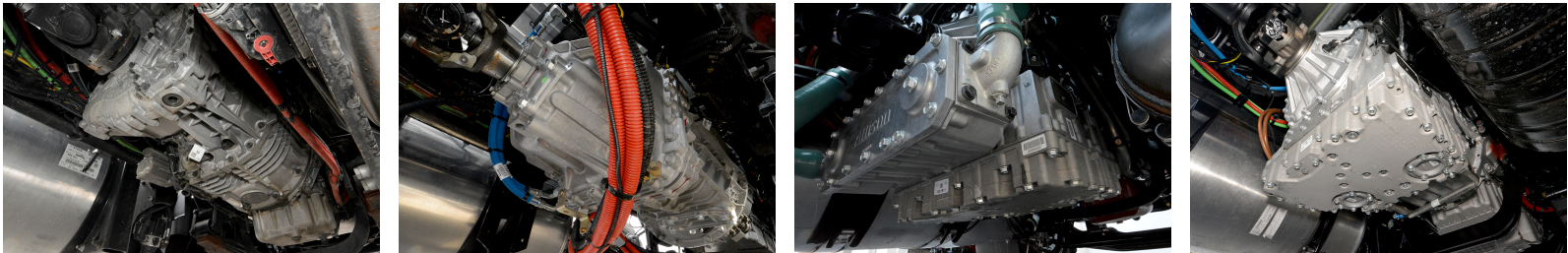
POWERTRAIN

ENGINE SPECS

TRANSMISSION

PTO

ROUTINE MAINTENANCE



TRANSMISSION	INTERNATIONAL HX TRANSMISSION	KENWORTH T880 TRANSMISSION	MACK GRANITE TRANSMISSION	WESTERN STAR 49X TRANSMISSION
Manual	Eaton Fuller: 10, 11, 13, 18-speed	Eaton Fuller: 10, 11, 13, 18-speed	Eaton Fuller: 10, 11, 13, 18-speed	Eaton Fuller: 9, 10, 11, 13, 18-speed
Automated	International T14: 14-speed, Eaton Cummins Endurant: 12, 18-speed	Eaton Fuller UltraShift PLUS: 10, 11, 13, 18-speed, Eaton Fuller Advantage: 10-speed, Eaton Cummins Endurant: 12, 18-speed	Mack MAXITORQUE: 9, 10, 13, 18-speed, Mack mDrive HD: 12, 13, 14-speed	Detroit DT12: 12-speed, Eaton Fuller UltraShift PLUS: 8, 9, 13, 18-speed, Eaton Cummins Endurant: 11, 12-speed
Automatic	Allison 3000, 4000: 5, 6, 7-speed	PACCAR: TX-12, TX-18: 12, 18-speed, Allison 3000, 4000: 5, 6, 7-speed	Allison 3000, 4000: 5, 6-speed	Allison 4000: 5, 6-speed

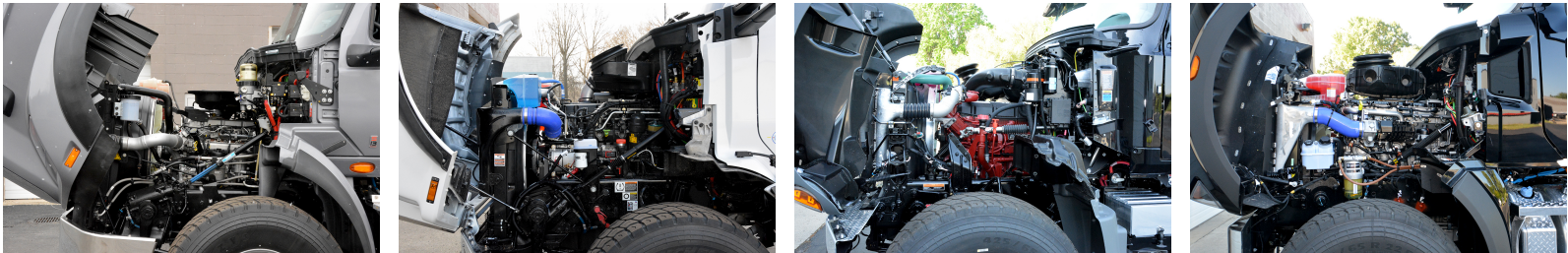
POWERTRAIN

ENGINE SPECS

TRANSMISSION

PTO

ROUTINE MAINTENANCE



PTO		INTERNATIONAL HX ENGINE	KENWORTH T880 ENGINE	MACK GRANITE ENGINE	WESTERN STAR 49X ENGINE
FEPTO		Available	Not Available	Available	Available
REPTO		Available	Available	Available	Available
Transmission	Model	FR / FRO / RTO / RTLO T14 Endurant Allison 3000 Allison 4000	FO / FRM / FRO / RTO / RTLO / RTOC UltraShift PLUS Advantage Endurant Allison 3000 Allison 4000 PACCAR: TX-12 PACCAR: TX-18	FRO / RT / RTO / RTLO MAXITORQUE mDrive Allison 3000 Allison 4000	FO / FRM / FRO / RTO / RTLO UltraShift PLUS Endurant Allison 4000 DT12
	Location	LH / RH Side / Rear / LH Bottom Mount RH Top / Bottom Rear Mount Bottom / Rear Mount LH / RH Side / Top Mount LH Side / RH Top Mount	LH / RH Side / Rear / LH Bottom Mount RH Side / Bottom / RH Rear Mount LH Bottom / RH Side / Rear Mount Bottom / Rear Mount LH / RH Side / Top Mount LH Side Mount / RH Top Mount LH Bottom LH Bottom / Rear Mount	LH / RH Side / Rear / LH Bottom Mount LH / RH Side Mount Rear Mount LH / RH Side / Top Mount LH Side Mount / RH Top Mount	LH / RH Side / Rear / LH Bottom Mount RH Side / Bottom / RH Rear Mount Bottom / Rear Mount LH Side Mount / RH Top Mount Bottom / Rear Mount
	Size	6, 8-Bolt 4-Bolt 4, 8-Bolt 10-Bolt 10-Bolt	6, 8-Bolt 6, 8-Bolt 6, 8-Bolt 4, 8-Bolt 10-Bolt 10-Bolt 8-Bolt 4, 8-Bolt	6, 8-Bolt 6, 8-Bolt 4-Bolt 10-Bolt 10-Bolt	6, 8-Bolt 6, 8-Bolt 4, 8-Bolt 10-Bolt 8-Bolt

POWERTRAIN

ENGINE SPECS TRANSMISSION PTO ROUTINE MAINTENANCE



ROUTINE MAINTENANCE	INTERNATIONAL HX ENGINE	KENWORTH T880 ENGINE	MACK GRANITE ENGINE	WESTERN STAR 49X ENGINE
Oil and Filter	Up to 70,000 miles 25,000 - 100,000 miles Up to 70,000 miles	50,000 miles 30,000 - 75,000 miles 30,000 - 75,000 miles 1,000 - 1500 hours 1,000 hours 25,000 - 100,000 miles	30,000 - 60,000 miles 30,000 - 60,000 miles	35,000 - 65,000 miles 35,000 - 75,000 miles 35,000 - 55,000 miles 40,000 - 100,000 miles 30,000 - 100,000 miles
Fuel Filter	Up to 70,000 miles 25,000 - 75,000 miles Up to 70,000 miles	50,000 miles 30,000 - 75,000 miles 30,000 - 75,000 miles 1,000 hours 1,000 hours 25,000 - 75,000 miles	30,000 - 60,000 miles 30,000 - 60,000 miles	35,000 - 65,000 miles 35,000 - 75,000 miles 35,000 - 55,000 miles 30,000 - 75,000 miles 25,000 - 75,000 miles
Coolant Filter	Not Available Not Available Up to 28,000 miles	15,000 miles 300,000 miles 300,000 miles 500 - 4000 hours 4,000 hours Not Available	30,000 - 60,000 miles 30,000 - 60,000 miles	Not Available
Hood Tilt Range	61°	76°	75°	75°



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