

Prepared For:

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Reference ID: N/A

Presented By:

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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
2024 HX520 SFA (HX520)

AXLE CONFIG:	6X4
APPLICATION:	Roll-On/Roll-off
MISSION:	Requested GVWR: 60000. Calc. GVWR: 66000. Calc. GCWR: 140000 Calc. Start / Grade Ability: 28.09% / 2.27% @ 55 MPH Calc. Geared Speed: 95.2 MPH
DIMENSION:	Wheelbase: 278.00, CA: 188.00, Axle to Frame: 96.00
ENGINE, DIESEL:	{Cummins X15 450 V} Productivity Series, EPA 2021, 450HP @ 1900 RPM, 1650 lb-ft Torque @ 950 RPM, 2000 RPM Governed Speed, 461 Peak HP (Max)
TRANSMISSION, AUTOMATIC:	{Allison 4500 RDS} 6th Generation Controls, Wide Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, On/Off Highway
CLUTCH:	Omit Item (Clutch & Control)
AXLE, FRONT NON-DRIVING:	{Meritor MFS-20-133A} Wide Track, I-Beam Type, 20,000-lb Capacity
AXLE, REAR, TANDEM:	{Meritor RT-46-160} Single Reduction, 46,000-lb Capacity, 200 Wheel Ends Gear Ratio: 3.91
CAB:	Conventional, Day Cab
TIRE, FRONT:	(2) 315/80R22.5 Load Range L HSC 3 (CONTINENTAL), 481 rev/mile, 68 MPH, All-Position
TIRE, REAR:	(8) 315/80R22.5 Load Range L HSC 3 (CONTINENTAL), 481 rev/mile, 68 MPH, All-Position
SUSPENSION, REAR, TANDEM:	{Hendrickson HMX EX 460} Walking Beam, 46,000-lb Capacity, 54" Axle Spacing, Rubber Springs, with Transverse Torque Rods, Rubber End Bushings
FRAME REINFORCEMENT:	Full Outer C-Channel, Heat Treated Alloy Steel (120,000 PSI Yield), 13.025" x 3.687" x 0.312" (330.8mm x 93.6mm x 7.9mm), 518.0" (13157.2mm) OAL
PAINT:	Cab schematic 100LY Location 1: 9219, Winter White (Std) Chassis schematic N/A

<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
Base Chassis, Model HX520 SFA with 278.00 Wheelbase, 188.00 CA, and 96.00 Axle to Frame.	8886/7472	16358
CROSSMEMBER, REAR Relocated to End of Frame	-14/79	65
CROSSMEMBER, FRAME TIE for Heavy Duty	53/3	56
AXLE CONFIGURATION {Navistar} 6x4	162/186	348
<u>Notes</u>		
: Pricing may change if axle configuration is changed.		
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	168/432	600
FRAME REINFORCEMENT Full Outer C-Channel, Heat Treated Alloy Steel (120,000 PSI Yield), 13.025" x 3.687" x 0.312" (330.8mm x 93.6mm x 7.9mm), 518.0" (13157.2mm) OAL	485/877	1362
BUMPER, FRONT Gull Wing, Aluminum, Stainless Steel Clad, Heavy Duty	0/0	0
CROSSMEMBER, REAR, AF (1) 5-Piece	-14/80	66
WHEELBASE RANGE 258" (655cm) Through and Including 315" (800cm)	351/-351	0
AXLE, FRONT NON-DRIVING {Meritor MFS-20-133A} Wide Track, I-Beam Type, 20,000-lb Capacity	186/0	186
SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 20,000-lb Capacity, Steel Springs 18K Capacity and (2) Rubber Auxiliary Springs 2K Capacity, Less Shock Absorbers	171/0	171
BRAKE SYSTEM, AIR Dual System for Straight Truck Applications	0/0	0
<u>Includes</u>		
: BRAKE LINES Color and Size Coded Nylon		
: PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel		
: PARKING BRAKE VALVE For Truck		
: QUICK RELEASE VALVE On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4		
: SPRING BRAKE MODULATOR VALVE SR-7 with relay valve for 6x4/8x6		
AIR BRAKE ABS {Bendix AntiLock Brake System} 4-Channel (4 Sensor/4 Modulator) Full Vehicle Wheel Control System, with Automatic Traction Control	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
BRAKE CHAMBERS, REAR AXLE {Bendix EverSure} 30/30 SqIn Spring Brake	0/14	14
BRAKE CHAMBERS, FRONT AXLE {Bendix} 24 SqIn	4/0	4
BRAKE, PARKING Manual Push-Pull Pneumatic Parking Brake	1/0	1
SLACK ADJUSTERS, FRONT {Gunite} Automatic	14/0	14
SLACK ADJUSTERS, REAR {Gunite} Automatic	0/28	28
AIR COMPRESSOR {Cummins} 18.7 CFM	0/0	0
AIR DRYER LOCATION Mounted Inside Left Rail, Back of Cab	0/0	0
AIR TANK LOCATION (2) Mounted Under Battery Box, Outside Right Rail, Back of Cab, Perpendicular to Rail	0/0	0
DUST SHIELDS, FRONT BRAKE for Air Cam Brakes	10/0	10
DUST SHIELDS, REAR BRAKE for Air Cam Brakes	0/20	20
DRAIN VALVE (2) {Berg} with Pull Chains, for Air Tanks	0/0	0

<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
BRAKES, REAR {Meritor 16.5X7 Q-PLUS CAST} Air S-Cam Type, Cast Spider, Fabricated Shoe, Double Anchor Pin, Size 16.5" X 7", 23,000-lb Capacity per Axle	0/104	104
BRAKES, FRONT {Meritor 16.5X6 Q-PLUS CAST} Air S-Cam Type, Cast Spider, Fabricated Shoe, Double Anchor Pin, Size 16.5" X 6", 23,000-lb Capacity	33/0	33
PARK BRAKE CHAMBERS, ADDITIONAL (2) Spring Brake Type	0/30	30
STEERING COLUMN Tilting and Telescoping	0/0	0
STEERING WHEEL 4-Spoke; 18" Dia., Black	0/0	0
STEERING GEAR (2) {Sheppard M100/HD94} Dual Power	103/-4	99
DRIVELINE SYSTEM {Dana Spicer} SPL250 Main Driveline with SPL170 Interaxle Shaft, for 6x4	0/0	0
AFTERTREATMENT COVER Aluminum	0/0	0
EXHAUST SYSTEM Horizontal Aftertreatment System, Frame Mounted Right Side Under Cab, for Single Vertical Tail Pipe, Cab Mounted Right Side	0/0	0
ENGINE COMPRESSION BRAKE {Cummins} Interbrake For Cummins Signature/ISX/X15 Engines; Furnished with Engine	0/0	0
EXHAUST HEIGHT 10'	0/0	0
MUFFLER/TAIL PIPE GUARD (1) Aluminum	13/7	20
TAIL PIPE (1) Straight Type	0/0	0
ELECTRICAL SYSTEM 12-Volt, Standard Equipment	0/0	0
<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		
HORN, AIR Single, Located Under Cab	0/0	0
ALTERNATOR {Leece-Neville AVI160P2013} Brush Type, 12 Volt, 160 Amp Capacity, Pad Mount	0/0	0
BATTERY SYSTEM {Fleetrite} Maintenance-Free, (3) 12-Volt 1980CCA Total, Top Threaded Stud	0/0	0
CB RADIO Omit Power Feeds, Power Source and Wiring	0/0	0
BATTERY DISCONNECT SWITCH {Cole-Hersee 75920-06} 300 Amp, Disconnects Cab Power, Does Not Disconnect Charging Circuits, Locks with Padlock, Battery Box Mounted	0/0	0
SPEAKERS (2) 6.5" Dual Cone Mounted in Doors	0/0	0
RADIO Omit, Includes Wiring and Antenna	0/0	0
ANTENNA Shark Fin, Roof Mounted	1/0	1
HORN, ELECTRIC Disc Style	0/0	0
BATTERY BOX Aluminum, with Plastic Cover, 18" Wide, 2-4 Battery Capacity, Mounted Right Side Back of Cab	0/0	0
TURN SIGNAL SWITCH Self-Canceling	0/0	0

<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
HEADLIGHT WARNING BUZZER Sounds When Head Light Switch is on and Ignition Switch is in "Off" Position	0/0	0
STARTING MOTOR {Mitsubishi Electric Automotive America 105P} 12-Volt, with Soft-Start	0/0	0
CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses	0/0	0
HEADLIGHTS Halogen	0/0	0
LOGOS EXTERIOR Model Badges	0/0	0
LOGOS EXTERIOR, ENGINE Badges	0/0	0
FRONT END Tilting, Composite	0/0	0
GRILLE Chrome Vertical Accent Bars, with Black Mesh	0/0	0
PAINT SCHEMATIC, PT-1 Single Color, Design 100	0/0	0
PAINT TYPE Base Coat/Clear Coat, 1-2 Tone	0/0	0
COMMUNICATIONS MODULE Telematics Device with Over the Air Programming; Includes Five Year Data Plan and International 360	0/0	0
CLUTCH Omit Item (Clutch & Control)	-118/-26	-144
ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection	0/0	0
ENGINE, DIESEL {Cummins X15 450 V} Productivity Series, EPA 2021, 450HP @ 1900 RPM, 1650 lb-ft Torque @ 950 RPM, 2000 RPM Governed Speed, 461 Peak HP (Max)	0/0	0
FAN DRIVE {Horton Drivemaster} Two-Speed Type, Direct Drive, with Residual Torque Device for Disengaged Fan Speed	0/0	0
<u>Includes</u> : FAN Nylon		
AIR CLEANER Single Element, with Pre-Cleaner, Engine Mounted	0/0	0
EMISSION, CALENDAR YEAR {Cummins X15} EPA, OBD and GHG Certified for Calendar Year 2023	0/0	0
HOSE CLAMPS, RADIATOR HOSES {Gates} Shrink Band Type	0/0	0
FAN DRIVE SPECIAL EFFECTS Fan Cooling Ring with Fan Shroud Effects, Engine Mounted	0/0	0
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
CARB IDLE COMPLIANCE Federal, Does Not Comply with California Clean Air Idle Regulations	0/0	0
RADIATOR Aluminum, Welded, Down Flow, Front to Back System, 1325 SqIn, with 806 SqIn Charge Air Cooler	0/0	0
<u>Includes</u> : RADIATOR HOSES Premium, Rubber		
CARB EMISSION WARR COMPLIANCE Federal, Does Not Comply with CARB Emission Warranty	0/0	0
TRANSMISSION, AUTOMATIC {Allison 4500 RDS} 6th Generation Controls, Wide Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, On/Off Highway	77/31	108
OIL COOLER, TRANSMISSION {Modine} Remote Mounted; Not for use with Retarder, for Automatic Transmission	0/0	0
TRANSMISSION SHIFT CONTROL Column Mounted Stalk Shifter, Not for Use with Allison 1000 & 2000 Series Transmission	1/0	1
TRANSMISSION OIL Synthetic; 63 thru 76 Pints	0/0	0

<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS) and Regional Haul Series (RHS), General Purpose Trucks, Construction, Package Number 223	0/0	0
SHIFT CONTROL PARAMETERS {Allison} 3000 or 4000 Series Transmissions, Performance Programming	0/0	0
AXLE, REAR, TANDEM {Meritor RT-46-160} Single Reduction, 46,000-lb Capacity, 200 Wheel Ends . Gear Ratio: 3.91	0/453	453
SUSPENSION, REAR, TANDEM {Hendrickson HMX EX 460} Walking Beam, 46,000-lb Capacity, 54" Axle Spacing, Rubber Springs, with Transverse Torque Rods, Rubber End Bushings	0/37	37
TRANSVERSE TORQUE RODS {Hendrickson} TRAAX Rod, Transverse Only	0/-8	-8
FUEL/WATER SEPARATOR {Racor} Fuel Pre-Filter and Filter Base, Includes Water-In-Fuel Sensor	0/0	0
FUEL HEATER {Cummins} Omit Plumbing for TRV on Cummins Engines	-2/0	-2
FUEL TANK Polished Aluminum, 24" Dia, 80 US Gal (303L), Mounted Left Side, Under Cab	9/-2	7
DEF TANK 10.6 US Gal (40L) Capacity, Frame Mounted Outside Left Rail, Under Cab	0/0	0
CAB Conventional, Day Cab	0/0	0
<u>Includes</u>		
: 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		
: 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		
AIR CONDITIONER with Integral Heater and Defroster	0/0	0
<u>Includes</u>		
: HOSE CLAMPS, HEATER HOSE Mubea Constant Tension Clamps		
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)		
IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster	0/0	0
SEAT, PASSENGER {National} Non Suspension, High Back with Integral Headrest, Vinyl, with Fixed Back, with Under Seat Storage	30/10	40
SEAT, DRIVER {ISRI} Series 300, Air Suspension, High Back, Vinyl, Single Chamber Lumbar, Inboard Armrest, Suspension Cover, Fore/Aft Isolator, Cushion Extension, Seat Tilt	0/0	0

Description

GRAB HANDLE, EXTERIOR (2) Chrome, Towel Bar Type, with Anti-Slip Rubber Inserts, for Cab Entry Mounted Left and Right Side at B-Pillar

F/R Wt	Tot Wt
(lbs)	(lbs)
6/0	6

MIRRORS (2) Aero Pedestal, Power Adjust, Heated, Turn Signals, Bright Heads, Black Arms, 6.5" x 14" Flat Glass, Includes 6.5" x 6" Convex Mirrors, for 102" Load Width

0/0	0
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Notes

: Mirror Dimensions are Rounded to the Nearest 0.5"

CAB INTERIOR TRIM Diamond, for Day Cab

0/0	0
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MONITOR, TIRE PRESSURE Omit

-9/-2	-11
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WINDOW, POWER (2) and Power Door Locks, Left and Right Doors, Includes Express Down Feature

0/0	0
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INSTRUMENT PANEL Wing Panel

0/0	0
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MODESTY PANEL Painted

0/0	0
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ACCESS, CAB Aluminum, Driver & Passenger Sides, Two Steps per Door, for use with Day Cab or Sleeper Cab

0/0	0
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WHEELS, FRONT {Alcoa 89U63} DISC; 22.5x9.00 Rims, Mirror Polish Aluminum, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs, Non-Standard Offset 4.06"

-37/0	-37
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WHEELS, REAR {Accuride 41730} DUAL DISC; 22.5x9.00 Rims, Standard Polish Aluminum, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs

0/-72	-72
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(2) TIRE, FRONT 315/80R22.5 Load Range L HSC 3 (CONTINENTAL), 481 rev/mile, 68 MPH, All-Position

70/0	70
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(8) TIRE, REAR 315/80R22.5 Load Range L HSC 3 (CONTINENTAL), 481 rev/mile, 68 MPH, All-Position

0/280	280
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Services Section:

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:

10640/9678	20318
(lbs)	(lbs)
(lbs)	(lbs)

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.