



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Request for Quotation
 13 - Equipment

Proc Folder: 445837

Doc Description: ADDENDUM_2: (Class 332) TANDEM AXLE TRUCK W/ 23-TON CRANE

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2018-06-06	2018-06-14 13:30:00	CRFQ 0803 DOT1800000097	3

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Name, Address and Telephone Number:

West Virginia Tractor Company
 P.O. Box 473
 Charleston, WV 25322
 304-346-5301

06/14/18 10:56:13
 WV Purchasing Division

FOR INFORMATION CONTACT THE BUYER

Mark A Atkins
 (304) 558-2307
 mark.a.atkins@wv.gov

Signature X *Travis Gray* FEIN # 550-621-655 DATE 6-7-18

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

ADDENDUM 1 is issued for the following:

1. To move the bid opening date from 05/31/2018 to 06/07/2018 at 1:30pm EST.
2. To publish the Agency responses to the questions submitted by Vendors during the Technical Questioning period.
3. To publish the mandatory Pre-Bid attendance sheets.

No other changes made.

The West Virginia Purchasing Division is soliciting bids on behalf of the West Virginia Division of Highways, Department of Transportation to establish an open-end contract for a 60,000 GVWR Tandem Axle Straight Truck with 23-ton behind cab Crane with Outriggers per attached documents.

MANDATORY PRE-BID MEETING:

WV Division of Highways
Equipment Division
83 Brushy Fork Rd Crossing
Buckhannon, WV 26201

Time: 10:00am EDT
Date: May 17, 2018

INVOICE TO	SHIP TO
DIVISION OF HIGHWAYS EQUIPMENT DIVISION RT 33 83 BRUSHY ROAD CROSSING, PO BOX 610 BUCKHANNON WV26201 US	DIVISION OF HIGHWAYS EQUIPMENT DIVISION 83 BRUSHY FORK RD CROSSING BUCKHANNON WV 26201 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	60,000 GVWR TRUCK WITH 23-TON TRUCK CRANE	15.00000	EA		

Comm Code	Manufacturer	Specification	Model #
25101933	Altec	Attached	AC23-95

Extended Description :

60,000 GVWR TRUCK WITH 23-TON TRUCK CRANE:

Year: 2019

Make: Altec International

Model: AC23-95 HV507

Model:

SCHEDULE OF EVENTS

Line	Event	Event Date
1	Mandatory PreBid Meeting @ 10:00am EDT:	2018-05-17
2	Technical Questions due by 2:00pm EDT:	2018-05-22

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Comm Code	Manufacturer	Specification	Model #
25101933	Altec	Attached	AC23-95

Extended Description :

60,000 GVWR TRUCK WITH 23-TON TRUCK CRANE:

Year: 2019

Make: Altec Freightliner
AC23-95 114SD

Model:

SCHEDULE OF EVENTS

Line	Event	Event Date
1	Mandatory PreBid Meeting @ 10:00am EDT:	2018-05-17
2	Technical Questions due by 2:00pm EDT:	2018-05-22

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFQ 0803 DOT1800000097

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

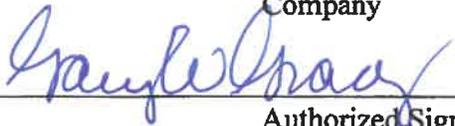
Addendum Numbers Received:

(Check the box next to each addendum received)

<input checked="" type="checkbox"/> Addendum No. 1	<input type="checkbox"/> Addendum No. 6
<input checked="" type="checkbox"/> Addendum No. 2	<input type="checkbox"/> Addendum No. 7
<input type="checkbox"/> Addendum No. 3	<input type="checkbox"/> Addendum No. 8
<input type="checkbox"/> Addendum No. 4	<input type="checkbox"/> Addendum No. 9
<input type="checkbox"/> Addendum No. 5	<input type="checkbox"/> Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

West Virginia Tractor Company

Company


Authorized Signature

6-7-2018

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFQ 0803 DOT1800000097

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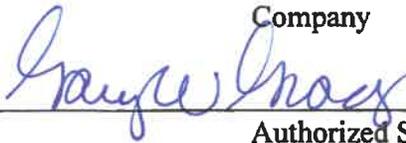
(Check the box next to each addendum received)

<input checked="" type="checkbox"/> Addendum No. 1	<input type="checkbox"/> Addendum No. 6
<input checked="" type="checkbox"/> Addendum No. 2	<input type="checkbox"/> Addendum No. 7
<input type="checkbox"/> Addendum No. 3	<input type="checkbox"/> Addendum No. 8
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West Virginia Tractor Company

Company



Authorized Signature

6-7-2018

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Gary W. Grady, President
(Name, Title)
Gary W. Grady President
(Printed Name and Title)
P.O. Box 473 Charleston, WV 25322
(Address)
304-346-5301 304-346-5305
(Phone Number) / (Fax Number)
wvtractor@msn.com
(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

West Virginia Tractor Company
(Company)

Gary W. Grady, President
(Authorized Signature) (Representative Name, Title)

Gary W. Grady, President
(Printed Name and Title of Authorized Representative)

6-6-2018
(Date)

304-346-5301 304-346-5305
(Phone Number) (Fax Number)

REQUEST FOR QUOTATION
CRFQ 0803 DOT1800000097
(332 Class) 60,000 GVWR Tandem Axle Truck with 23-ton Crane

8.2 Reports: Vendor shall provide quarterly reports and annual summaries to the Agency showing the Agency's items purchased, quantities of items purchased, and total dollar value of the items purchased. Vendor shall also provide reports, upon request, showing the items purchased during the term of this Contract, the quantity purchased for each of those items, and the total value of purchases for each of those items. Failure to supply such reports may be grounds for cancellation of this Contract.

8.3 Contract Manager: During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager:	Gary W. Grady
Telephone Number:	304-346-5301
Fax Number:	304-346-5305
Email Address:	wvtractor@msn.com

8.4 Operating and Service Manuals and Parts Lists: An operator's manual must be included with each unit upon delivery. A "line sheet" (if applicable) and the "Equipment Preventative Maintenance Questionnaire", (**Exhibit "B"**) must be with pilot unit upon delivery, Attn: Marcia Lee. There must be 12 service/shop/maintenance manuals and 14 parts manuals; CD-ROM is preferred in lieu of parts manuals. Manuals shall be delivered upon completion of delivery of total units. Failure to do so will delay payment.

8.5 Training: Manufacturers and/or dealers will be required to stage a thorough seminar on the subjects of Preventative Maintenance, Operator, and Mechanic Training. In order to keep operators and mechanics updated, the successful vendor shall conduct training sessions covering the operation, maintenance, trouble-shooting with each purchase order against this open end contract. Manufacturers and/or dealers shall be required to furnish the Training Academy with one (1) Operator's Manual to be shipped direct to:

WVDOH
Training Academy
P.O. Box 610
Buckhannon, West Virginia 26201

A training seminar to be held at the WVDOT, Equipment Division, Buckhannon, WV, after receiving the pilot unit.

Exhibit_A Pricing Page

CRFQ 0803 DOT1800000097

60,000 GVWR Truck with 23-Ton Crane

Item No.	Description:	Make/Model & Year	Estimated Unit Quantity	Unit Price	Item Total Cost
1	Complete Unit: 60,000 GVWR Truck w/ 23-Ton Crane	Make: Altec Model: AC23-95 Year: 2019 International HV507	15	\$336,595 -	\$5,048,925 -
Total Bid Cost					\$5,048,925 -

Bid will be awarded to the lowest overall bid total.

Vendor: West Virginia Tractor Company

Gary W. Grady

Contact Name: _____

wvtractor@msn.com

Email: _____

Exhibit_A Pricing Page

CRFQ 0803 DOT1800000097

60,000 GVWR Truck with 23-Ton Crane

Item No.	Description:	Make/Model & Year	Estimated Unit Quantity	Unit Price	Item Total Cost
1	Complete Unit: 60,000 GVWR Truck w/ 23-Ton Crane	Make: Altec Model: AC23-95 Year: 2019 Freightliner 114SD Set Forward Axle	15	\$ 340,407 -	\$ 5,106,105 -
Total Bid Cost					\$ 5,106,105 -

Bid will be awarded to the lowest overall bid total.

Vendor: West Virginia Tractor Company
Gary W. Grady
 Contact Name: _____
wvtractor@msn.com
 Email: _____

Exhibit_A Pricing Page

CRFQ 0803 DOT1800000097

60,000 GVWR Truck with 23-Ton Crane

Item No.	Description:	Make/Model & Year	Estimated Unit Quantity	Unit Price	Item Total Cost
1	Complete Unit: 60,000 GVWR Truck w/ 23-Ton Crane	Make: Altec Model: AC23-95 Year: 2019 Freightliner 114SD Set Back Axle	15	\$ 339,322 -	\$ 5,089,830 -
Total Bid Cost					\$ 5,089,830 -

Bid will be awarded to the lowest overall bid total.

Vendor: West Virginia Tractor Company
 Gary W. Grady
 Contact Name: _____
 wvtractor@msn.com
 Email: _____

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party: receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: West Virginia Tractor Company

Authorized Signature: *George Massey* Date: 6-6-2018

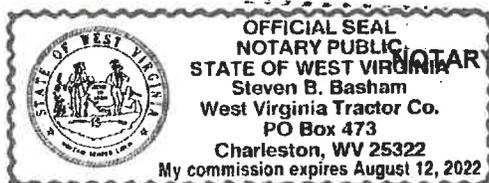
State of West Virginia
Kanawha

County of _____, to-wit:

Taken, subscribed, and sworn to before me this 6 day of June, 2018.

My Commission expires August 12, 2022.

AFFIX SEAL HERE



NOTAR PUBLIC *Steven B. Basham*

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

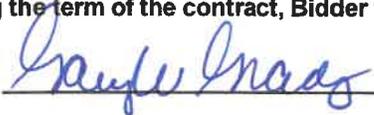
Certification and application is hereby made for Preference in accordance with **West Virginia Code**, §5A-3-37. (Does not apply to construction contracts). **West Virginia Code**, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the **West Virginia Code**. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Vendor Preference, if applicable.

1. **Application is made for 2.5% vendor preference for the reason checked:**
Bidder is an individual resident vendor and has resided continuously in West Virginia, or bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia, for four (4) years immediately preceding the date of this certification; or,
 Bidder is a resident vendor partnership, association, or corporation with at least eighty percent of ownership interest of bidder held by another entity that meets the applicable four year residency requirement; or,
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. **Application is made for 2.5% vendor preference for the reason checked:**
Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. **Application is made for 2.5% vendor preference for the reason checked:**
Bidder is a nonresident vendor that employs a minimum of one hundred state residents, or a nonresident vendor which has an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia and employs a minimum of one hundred state residents, and for purposes of producing or distributing the commodities or completing the project which is the subject of the bidder's bid and continuously over the entire term of the project, on average at least seventy-five percent of the bidder's employees or the bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years and the vendor's bid; or,
4. **Application is made for 5% vendor preference for the reason checked:**
Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. **Application is made for 3.5% vendor preference who is a veteran for the reason checked:**
Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. **Application is made for 3.5% vendor preference who is a veteran for the reason checked:**
Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
7. **Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with West Virginia Code §5A-3-59 and West Virginia Code of State Rules.**
Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) rescind the contract or purchase order; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: West Virginia Tractor Company Signed: 
Date: 6-6-2018 Title: President

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

West Virginia Ethics Commission
Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Contracting Business Entity: West Virginia Tractor Company Address: P.O. Box 473
Charleston, WV 25322

Authorized Agent: Gary W. Grady Address: Charleston, WV

Contract Number: DOT18*97 Contract Description: Tandem Axle Truck
23-Ton Crane

Governmental agency awarding contract: WVDOT-Highways

Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (attach additional pages if necessary):

1. Subcontractors or other entities performing work or service under the Contract

Check here if none, otherwise list entity/individual names below.

Altec

2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)

Check here if none, otherwise list entity/individual names below.

Gary and Christine Grady
Steve Basham
Susan Martin

3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)

Check here if none, otherwise list entity/individual names below.

Signature: *Gary W. Grady* Date Signed: 6-6-2018

Notary Verification

State of West Virginia, County of Kanawha:

I, Gary W. Grady, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 6th day of June, 2018.

Steven B. Basham

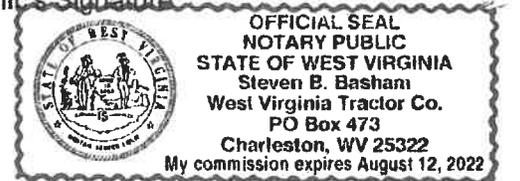
Notary Public's Signature

To be completed by State Agency:

Date Received by State Agency: _____

Date submitted to Ethics Commission: _____

Governmental agency submitting Disclosure: _____



Revised October 7, 2017



CERTIFICATE OF GARAGE INSURANCE

DATE (MM/DD/YYYY)
04/03/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Tina White	CONTACT NAME: DO Customer Service
	PHONE (A/C, No, Ext): 800-447-0633 FAX (A/C, No): 888-533-7827
	EMAIL ADDRESS: businessproducts_ssdo@sentry.com
INSURER(S) AFFORDING COVERAGE	
INSURER A : Sentry Select Insurance Company	NAIC # 21180
INSURER B :	
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED
West Virginia Tractor Co.
PO Box 473
214 Virginia Street West
Charleston, WV 25322

COVERAGES **PROD / CUSTOMER ID:** **CERTIFICATE #:** 1159119 **REVISION #:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSRD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS			
A	<input checked="" type="checkbox"/> GARAGE LIABILITY			A0053698001	04/01/2018	04/01/2019	AUTO ONLY (Ea accident)		\$ 500,000.00	
	<input type="checkbox"/> ANY AUTO OWNED AUTOS ONLY	<input checked="" type="checkbox"/> HIRED AUTOS ONLY	<input type="checkbox"/> NON-OWNED AUTOS USED IN GARAGE BUSINESS				OTHER THAN AUTO ONLY	EA ACCIDENT	\$ 500,000.00	
							AGGREGATE	\$ 1,500,000.00		
A	<input type="checkbox"/> GARAGE KEEPERS LIABILITY			A0053698001	04/01/2018	04/01/2019	<input checked="" type="checkbox"/> COMP / OTC SPECIFIED PERILS	LOC	1	\$ 250,000.00
	<input checked="" type="checkbox"/> LEGAL LIABILITY						<input type="checkbox"/>	LOC		\$
	<input checked="" type="checkbox"/> DIRECT BASIS						<input checked="" type="checkbox"/> COLLISION	LOC	1	\$ 250,000.00
	<input checked="" type="checkbox"/> PRIMARY		<input type="checkbox"/> EXCESS				LOC		\$	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY			A0053698001	04/01/2018	04/01/2019	EACH OCCURRENCE		\$ 500,000.00	
	<input type="checkbox"/> CLAIMS-MADE	<input checked="" type="checkbox"/> OCCUR	DAMAGE TO RENTED PREMISES (Ea occurrence)				\$ 100,000.00			
	GEN'L AGGREGATE LIMIT APPLIES PER:						MED EXP (Any one person)		\$ 5,000.00	
	<input checked="" type="checkbox"/> POLICY	<input type="checkbox"/> PRO-JECT	<input type="checkbox"/> LOC				PERSONAL & ADV INJURY		\$ 500,000.00	
	OTHER						GENERAL AGGREGATE		\$ 1,500,000.00	
							PRODUCTS - COMP/OP AGG		\$ 1,500,000.00	
A	<input checked="" type="checkbox"/> UMBRELLA LIAB	<input checked="" type="checkbox"/> OCCUR		A0053698001	04/01/2018	04/01/2019	EACH OCCURRENCE		\$ 2,000,000.00	
	<input checked="" type="checkbox"/> EXCESS LIAB	<input type="checkbox"/> CLAIMS-MADE	AGGREGATE				\$ 6,000,000.00			
	DED	RETENTION \$					\$			
	<input type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			N / A			PER STATUTE	OT-ER		
ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)				Y / N	<input type="checkbox"/>	E.L. EACH ACCIDENT		\$		
If yes, describe under REMARKS below						E.L. DISEASE - EA EMPLOYEE		\$		
						E.L. DISEASE - POLICY LIMIT		\$		

REMARKS (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Refer to attached

CERTIFICATE HOLDER State of West Virginia 2019 Washington Street, E. P O Box 50130 Charleston, WV 25305	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE <i>John Heyland</i>
--	---



AGENCY CUSTOMER ID: _____

LOC #: _____

ADDITIONAL REMARKS SCHEDULE

Page ____ of ____

AGENCY		NAMED INSURED West Virginia Tractor Co.	
POLICY NUMBER A0053698005			
CARRIER Sentry Select Insurance Company	NAIC CODE 21180	EFFECTIVE DATE: 04/01/2018	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
Certificate of Garage Insurance

FORM NUMBER: ACORD 30 **FORM TITLE:** _____

First Supplemental Name applies to all policies- West Virginia Tractor Company
Bid Certificate



June 6, 2018
Our 89th Year

Ship To:
WEST VIRGINIA TRACTOR COMPANY
214 VIRGINIA ST W
CHARLESTON, WV 25302
US

Bill To:
WEST VIRGINIA TRACTOR COMPANY
214 VIRGINIA ST W
CHARLESTON, WV 25302
United States

Attn:
Phone: 304-346-5301
Email:

Altec Quotation Number: 436495 - 1
Account Manager: Keaton E Gleason
Technical Sales Rep: Aric Mason King

<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
	<u>Unit</u>		
1.	Altec's AC23-95 Hydraulic Telescopic Crane built in accordance to Altec's standard specifications and includes the following features:	1	
	<ul style="list-style-type: none"> A. Maximum Lifting Capacity: 23.5 ton (21.3 metric ton) B. Boom: 95 foot (29 m), 4-Section Proportional C. Sheave Height: 105 foot (32 m) on base boom D. Altec LMAP (Load Moment & Area Protection) System: Hirschmann system that includes Rated Capacity Limiter and Working Area Definition Audible Alarm Set-Points. Includes boom angle, length and rotational position. E. Winch: Single speed with burst of speed, 12,000 pound (5,443 kg) line pull on bare drum, mounted at base of boom (unless otherwise stated below in options) F. Lower Winch Control: Located at hook stowage point for ease of unit setup G. Winch Drum Rotation Indicator: Provides tactile and visual indication to operator of which motion, speed, and direction. H. Anti-Two Block Device I. Hydraulic System: Hydraulic pilot operated control valves at the control station J. Control Station(s): Behind-the-cab and rear-mount models have curbside and streetside walk-through control stations with grab handles for bed access. Riding seat models have dual control pods K. Operator Controls: Emergency stop, engine start/stop, and crane/outrigger mode switches L. Outrigger Boom Interlock System: Helps prevent operator from using unit until all outriggers are deployed M. Outrigger Motion Alarm: Provides audible alarm when any of the outriggers are in motion N. Outriggers: Primary outriggers and auxiliary outriggers out-and-down. Full-span spread is 18.5 feet (5.6 m), mid-span is 14 feet (4.3 m), and short-span is 9 feet (2.7 m) O. Outrigger Controls: Electric over hydraulic controls located at each rear corner of tailshelf providing a line-of-sight from the controls to the outrigger contact zone 		

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UTILITY EQUIPMENT AND BODIES SINCE 1929

<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
	<ul style="list-style-type: none"> P. Paint: Altec 2-Stage Powder Coat Paint Process (Altec white is standard unless otherwise stated in options) Q. Complies with ASME B30.5 Mobile Crane Standard R. Manuals: Two (2) Operator's and two (2) Maintenance/Parts manuals S. Basic Operation Videos: DVDs for Crane and LMAP 		
2.	Behind Cab Mount	1	
3.	Non-continuous 370 degrees, front outrigger required	1	
4.	12,000 LB Two Speed Main Winch With Line Tensioner, Grooved Drum, And 3rd Wrap Indicator	1	
5.	Starlift Xtra (Former Flex-X 35) Wire Rope - 350' Of 9/16" Diameter	1	
6.	Additional Sheave At Boom Tip, Jib Side	1	
7.	ATB Switch Cover	1	
8.	LMI Reel Tree Guard	1	
9.	Jib Not Required	1	
10.	Platform, Two-Man, 36 x 72 x 44.5 inch, Front Entry Gate, 800 lb Capacity	1	
11.	Platform Test Lift Package, 800 lb Capacity Platform. Supplied With One 800lbs Weight And One 200lbs Weight.	1	
12.	AC23 Subbase For Out and Down Outriggers	1	
13.	Primary Out And Down Outriggers	1	
14.	Auxiliary Out And Down Outriggers	1	
15.	Front Bumper Outrigger, with electrical switch control on outrigger, required for 360 degree working capacity	1	
16.	Dual Walk Through Control Stations Mounted Each Side of Unit Pedestal	1	
17.	Left Hand Joystick Control/Right Hand Lever Controls (Standard for all Models)	1	
18.	Foot Throttles At Stand Up Control Stations	1	
19.	Drum Rotation Indicator, installed	1	
20.	Winch Disable Switch	1	

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<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
21.	Telescope Disable Switch	1	
22.	Radio Remote Control for Crane Functions	1	
23.	Hirschmann LMAP System with Swing Arm Mount - Behind Cab or Rear Mount	1	
24.	Vinyl LMAP Display Cover With Altec Logo	1	
25.	Imperial/US Units of Measure for Capacity Charts and LMAP System	1	
26.	English Language for Capacity Charts, LMAP System, and Placards	1	
27.	AC23-95B-OD-ENG	1	
28.	Spanner Wrench - Crane Swing Drive Adjustment	1	
29.	Manual, Extra	1	
30.	Electric Over Hydraulic Outrigger Controls - Rocker Switches Installed On Tailshelf, Each Side (Behind Cab/Rear Mount)	1	
31.	Outrigger Down Jack Controls on Swing Arm for Stand Up Control Stations	1	
32.	Independent Beam and Down Jack Outrigger Operation	1	
33.	Altec Powder Coat Paint Process	1	
34.	Base Boom and Turntable Painted Altec White (Standard)	1	
35.	Extended Portions of Outriggers Painted Black (Standard)	1	
36.	Front Bumper Outrigger Painted Black (Standard)	1	
37.	Subbase Painted Black (Standard)	1	
38.	Upper Booms Powder Painted Black (Standard)	1	
39.	Additional Unit Option - Additional radio remote control with charging station	1	
<u>Unit & Hydraulic Acc.</u>			
40.	Load Ball For 9/16" IWRC or 9/16" Flex-X Winch Rope	1	

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<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
41.	Load Ball Strap For Behind Cab Mounted Unit	1	
42.	Boom Winch Stow at Tailshelf	1	
43.	Front Bumper Outrigger Installation Components	1	
44.	Frame Stiffeners for Crane Subbase Installation	1	
45.	Subbase Installation Components	1	
46.	Load block, single sheave 2/3 part	1	
47.	Upright Load Block/Ball Stowage	1	
48.	HVI-22 Hydraulic Oil (Standard).	120	
49.	Single 90,000 BTU Cooler	1	
50.	Standard Pump For PTO	1	
51.	Hot shift PTO for automatic transmission	1	
52.	Standard Altec PTO/Machine Functionality: PTO won't engage until parking brake is set. -Once parking (holding) brake is set, PTO and machine functions are enabled. -If parking (holding) brake is disengaged, both PTO and machine functions are disabled.	1	
53.	Altec recommends any connection made to the tool circuit be done with Non-Conductive hose. If ordering a Hose reel, Altec recommends ordering a hose reel with Non-Conductive hose. The lower tool circuit hoses may be, or become, conductive. Death or serious injury could occur if the unit becomes energized while lower tool circuit is in use.	1	
54.	Hydraulic Tools at Tailshelf	1	
55.	90 Gallon Reservoir On Bed - Behind Cab/Rear Mount	1	

Body

56.	Altec Body	1	
57.	Aluminum Body	1	
58.	Body Is To Be Built In Accordance With The Following Altec Standard Specifications:	1	

A. Basic Body Fabricated From 3003 Grade Mill finish Aluminum.

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<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
	<ul style="list-style-type: none"> B. All Doors Are Full, Double Paneled, Self-Sealed With Built-In Drainage For Maximum Weather-Tightness. Aluminum Hinge Rods Extend Full Length Of Door. C. Welded Aluminum Frame Construction With Structural Channel Crossmembers. D. Integrated Door Header Drip Rail At Top For Maximum Weather Protection. E. Fender Panels Are Either Roll Formed Or Have Neoprene Fenderettes Mechanically Fastened. F. Aluminum Treated For Improved Primer Bond And Corrosion Resistance. G. Automotive Type Non-Porous Door Seals Fastened To The Door Facing. 		
59.	Platform/Flatbed	1	
60.	Finish Paint Body Flatbed White (Applies To Steel And Aluminum)	1	
61.	Undercoat Body	1	
62.	264" Estimated Aluminum Flatbed Length (Engineering To Determine Final Length)	1	
63.	1/4" Aluminum Treadplate Floor	1	
64.	96" Body Width	1	
65.	4 High Flatbed (No Cross Storage Available)	1	
66.	Stake Pockets on Sides and Rear of Flatbed, Installed on 24" Centers Outside of Frame	1	
67.	6 Inch High Removable Aluminum Stake Sides	1	
68.	Outrigger Cutout Required	1	
69.	Unit Cutout Required	1	
70.	Light Channels Installed At Rear Of Flatbed	1	
71.	Rubrails on Sides of Flatbed	1	
<u>Body and Chassis Accessories</u>			
72.	ICC (Underride Protection) Bumper Installed At Rear	1	
73.	Buyers PH20 Style Pintle hitch (40,000 lb)	1	
74.	Eyebolt For Breakaway Cable, 1/4 Inch	1	
75.	Set Of D-Rings for Trailer Safety Chain, installed one each side of towing device mount.	1	

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<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
76.	Glad Hands At Rear, Swing Away Type	1	
77.	Standard Boom Rest, removable, installed behind cab - Removable boom rest	1	
78.	Mounting Brackets for Lights, Located on Lower Boom Rest	1	
79.	Plastic Outrigger Pad, 30" x 30" x 2", Black With Rope Handle	4	
80.	Outrigger Pad Holder, 31" x 31" x 4", Steel, For Multiple 30" x 30" x 2" Outrigger Pad And Smaller, Chain and Hasp Retainer, Underbody Box Mounted Only	4	
81.	Mud Flaps With Altec Logo (Pair)	1	
82.	Wheel Chocks, Rubber, 9.75" L x 7.75" W x 5.00" H, with 4" L Metal Hairpin Style Handle (Pair)	2	
83.	Wheel Chock Holders (Pair), For Installation Under Flatbed Or Dump Body - Aluminum	2	
84.	Underbody Storage Box, Aluminum Treadplate, 36" L x 18" W x 18" H, One (1) Drop-Down Door, One (1) T-Handle Latch, Cable Stops (Buyers Products) - Two (2) located on the curb side - Two (2) located on the street side	4	
85.	Safety Harness & 4.5 FT Lanyard (Medium To X-large)	2	
86.	Triangular Reflector Kit, Installed	1	
87.	5 LB Fire Extinguisher With Light Duty Bracket, Shipped Loose	1	
88.	Vinyl manual pouch for storage of all operator and parts manuals	1	
89.	Soft Vinyl Lanyard Pouch	1	
<u>Electrical Accessories</u>			
90.	Lights and reflectors in accordance with FMVSS #108 lighting package. (Complete LED, including LED reverse lights)	1	
91.	Custom Strobe Light - Six (6) oval LED strobe lights - Two (2) at the front, two (2) on the sides, and two (2) at the rear - 1-5/8" high x 5" wide Whelen 500 series	1	
92.	Strobe Lights Wired Ignition Hot	1	

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<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
93.	Flood Light, LED, With Aluminum Housing, 4.25" W x 4.25" H, No Switch on the Light - One on each control station - One on each side of the boom rest	4	
94.	Auxiliary Lighting Wired Ignition Hot	1	
95.	Dual Tone Back-Up With Outrigger Motion Alarm	1	
96.	PTO Hour Meter, Analog, with 10,000 Hour Display	1	
97.	7-Way Trailer Receptacle (Pin Type) Installed At Rear	1	
98.	Electric Trailer Brake Controller (Tekonsha Voyager #9030)	1	
99.	Inverter, 2400 Watt, Pure Sine Wave, 120 VAC (Sensata #12/2400N) - Will be used to charge wireless headset and radio equipment	1	
100.	Inverter Wired Ignition Hot with Dash Mounted Switch	1	
101.	Pdm Module, Installed On Back Wall Of Cab/Chassis	1	
102.	Additional Electrical Accessory - Team wireless system - Three (3) Apex 3-series wireless headsets with com-hub - 2-Way Radio Sonetics Model #SONPWS-DECT7 - Cab mounted battery charger	1	

Installation

103.	Manual Kit (Includes (2) Operators Manuals, (2) Parts and Maintenance Manuals, (1) Operational and Safety DVD	1	
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Finishing Details

104.	Altec Standard; Components mounted below frame rail shall be coated black by Altec. i.e. step bumpers, steps, frame extension, pintle hook mount, dock bumper mounts, D-rings, receiver tubes, accessory mounts, light brackets, under-ride protection, etc. Components mounted to under side of body shall be coated black by Altec. i.e. Wheel chock holders, mud flap brackets, pad carriers, boxes, lighting brackets, steps, and ladders.	1	
105.	Apply Non-Skid Coating to all walking surfaces	1	
106.	Custom Cargo Coating - Black Gator Hyde - Entire ICC bumper	1	

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<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
107.	English Safety And Instructional Decals	1	
108.	Vehicle Height Placard - Installed In Cab	1	
109.	Placard, HVI-22 Hydraulic Oil	1	
110.	Stability test unit according to ANSI requirements.	1	
111.	Delivery Of Completed Unit	1	
112.	Focus Factory Build	1	
113.	Final Assembly	1	
<u>Miscellaneous</u>			
114.	Standard Altec Crane/HiLine Warranty: One (1) year parts warranty, one (1) year labor warranty, ninety (90) days warranty for travel charges, five (5) year structural warranty	1	
115.	Ext Warranty Labor, Mat., Expense (NO Travel) (Day 366-1095) Cranes AC26/28	1	

AC23-95



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or visit us online at altec.com


TELESCOPIC CRANE

AC23-95

STANDARD FEATURES

- Altec LMAP (Load Moment & Area Protection) System
 - » Rated Capacity Limiter
 - » Displays: Boom Length, Boom Angle, Load on Hook, Percent of Rated Capacity
 - » Operator Defined Audible Alarm Set-Points for Boom Angle, Length and Rotational Position
- Outrigger Boom Interlock System
- Outrigger Motion Alarm
- Winch Drum Rotation Indicator
- Anti-Two Block Device
- Rotation Resistant Wire Rope
- Winch Control at Load Hook Stow Point
- Hydraulic Oil Cooling System

OPTIONS

- 1-Piece Jib: 26 ft (7.9 m)
- 2-Piece Jib: 26 ft (7.9 m) Retracted, 44 ft (13.4 m) Extended
- Load Block
- Load Block and Ball Storage on Deck of Crane
- ASME B30.23 Personnel Lifting Package
 - » 2-Man Fixed Steel Platform, 800 lbs (362.9 kg) capacity
 - » Radio Remote Controls
 - » Fall Protection
- ASME B30.23 Compliant Test Weight Package
- Hydraulic Tool Circuit at Tail Shelf

Recommended equipment, available through Altec Supply, include wheel chocks and outrigger pads.

CRANE SPECIFICATIONS

Maximum Lift Capacity	47,000 lb (21,319kg)
Boom Length (4-Section)	95 ft (29 m)
Powered Sheave Height	105 ft (32 m)
Maximum Sheave Height with 2-Stage Jib	149 ft (45.4 m)
Stowed Travel Height	13.25 ft (4 m)
Vehicle Travel Length	39.6 ft (12.1 m)
3-Position, Sequential Out and Down Outriggers	
Full Span	18.5 ft (5.6 m)
Mid Span	14 ft (4.3 m)
Short Span	9 ft (2.7 m)
Two Speed Winch Capacity	12,000 lb (5,443 kg)
Control System	Pilot-Operated, Hydraulic
ASME B30.5 Compliant	

LOAD MOMENT AND AREA PROTECTION

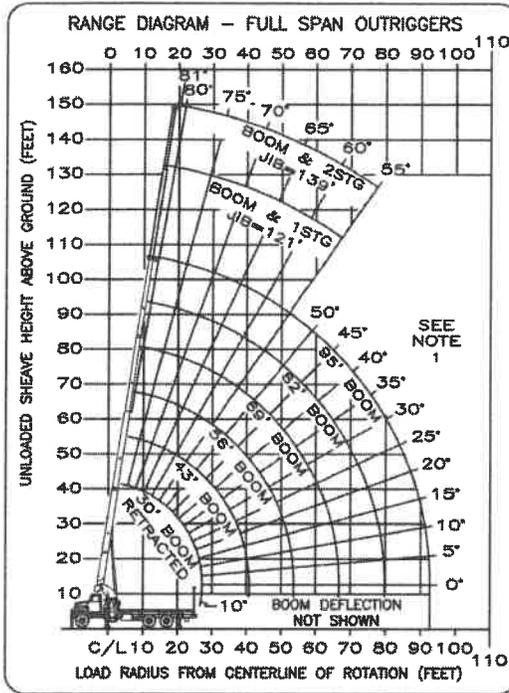


The ability to provide vital data to operators, continuously monitor crane operation and send alerts of potential overloads, while maximizing crane work capacity, is invaluable. The LMAP system offers customers and operators easy operation, fast calibration and reliable technology.

UNIT		RECOMMENDED CHASSIS DIM				MINIMUM RECOMMENDED CHASSIS SPECIFICATIONS				
Model	Rear Axle	CT (in)	WB (in)	AF (in)	Rear Axle Spread (in)	Front Axle Rating (lb)	Rear Axle Rating (lb)	GVWR (lb) W	Frame Sec Modulus (in ³)	Frame RBM (in-lb)
AC23-95B	Tandem	193	262	127	54	16,000	34,000	50,000	consult factory	
AC23-95R	Tandem	173	247	114	52	16,000	34,000	50,000	consult factory	
AC23-95S	Tandem	173	247	114	52	16,000	34,000	50,000	consult factory	



LOAD CHART - FULL SPAN OUTRIGGERS



BOOM LOAD CAPACITIES IN LBS. WITH FULL SPAN OUTRIGGERS

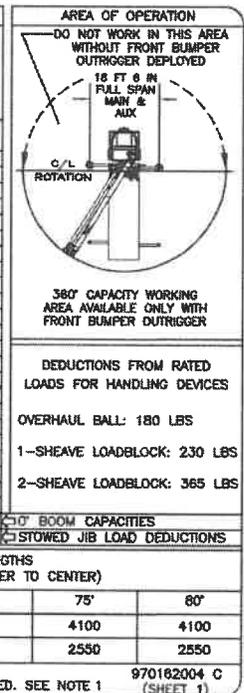
LOAD RADIUS (FT)	30 FT BOOM		43 FT BOOM		56 FT BOOM		69 FT BOOM		82 FT BOOM		95 FT BOOM		
	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	
5	77	47000											
8	71	36800	77	17600									
10	66	30900	74	17800	78	17500							
12	62	26100	71	18000	76	17600							
14	57	22200	68	18200	74	17700	78	17400					
16	52	19100	65	18500	72	17900	76	18100	79	13900			
18	47	17600	62	18000	70	18100	75	14900	78	12900	80	10000	
20	41	15400	59	15800	68	16000	73	13800	76	12000	79	10000	
25	19	11400	51	11900	62	12100	68	11600	73	10100	78	8800	
30			42	9300	56	9500	64	9700	69	8300	73	7800	
35			30	7400	48	7800	59	7800	65	7000	70	6400	
40					42	6100	54	6250	61	6100	68	5500	
45					33	4800	48	4950	57	5050	63	4800	
50					20	3800	42	4000	52	4100	59	4150	
55							35	3200	47	3300	55	3400	
60							28	2800	42	2700	51	2750	
65							11	2100	36	2200	47	2250	
70									29	1750	42	1850	
75									20	1400	37	1500	
80											32	1150	
											24	900	
											14	875	
0	8000	0	4900	0	3100	0	2000	0	1150	0	575	0	250
	825		550		425		350		300		250		250

DEPLOYED JIB LOAD CAPACITIES (LBS) FOR ALL BOOM LENGTHS
JIB CAPACITIES ARE FOR FULL SPAN OUTRIGGERS (18 FT 6 IN CENTER TO CENTER)

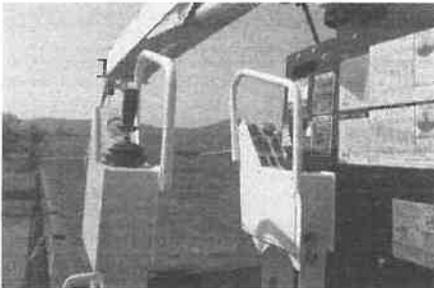
LOADED BOOM ANGLE	55° *	60°	65°	70°	75°	80°
RETRACTED 26 FT JIB	775	1450	2250	3100	4100	4100
EXTENDED 44 FT JIB	550	1125	1550	2050	2550	2550

NOTE: RATINGS ABOVE THE HEAVY LINE ARE BASED ON STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY.

* DO NOT OPERATE JIB BELOW THIS ANGLE UNLESS BOOM IS FULLY RETRACTED. SEE NOTE 1



Note 1: When jib is erected, boom must be fully retracted. Interference below minimum boom with jib angles. Retracted boom with jib has no lifting capacity below a 50 degree angle with full span outriggers and below a 65 degree angle not shown on jib load rating chart.



DUAL STAND-UP WALK THROUGH CONTROL STATIONS

Dual walk-through controls for the AC23-95B and AC23-95R models allow the operator the ability to work from either side of the bed for best visibility depending on application providing an unobstructed view of the bed and work area. In addition, the hand guards assist in providing three points of contact for users as they exit or enter the control station and also help prevent inadvertent actuation of controls.

ALTEC OPTI-VIEW® RIDING SEAT

As standard equipment on the AC23-95S, Altec's Opti-View riding seat control station maximizes the operator's visibility of the worksite. The operator is provided with safe and confident access to the controls all while maintaining operator comfort.



OUTRIGGER CONTROLS AT TAILSHELF

Outrigger controls at the tailsheaf allow the operator to access the controls from either side of the bed for best visibility of the contact surface which reduces the chance of a crushing hazard while deploying and retracting outriggers.



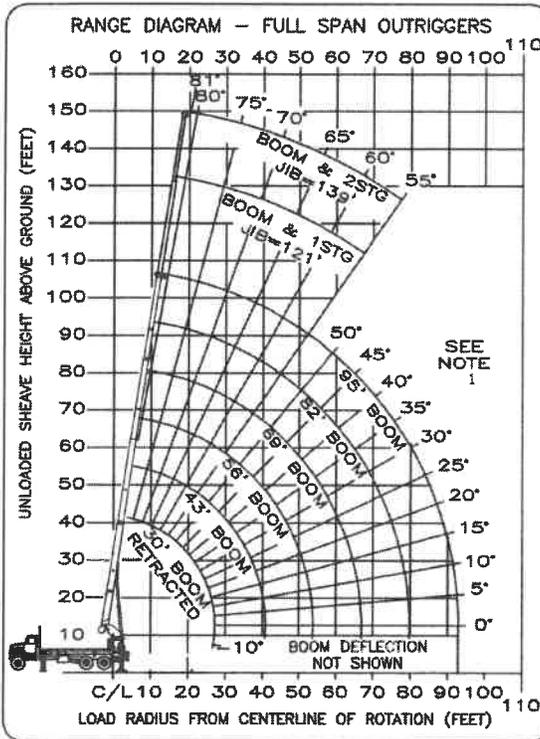
LOWER WINCH CONTROL

The lower winch control helps prevent boom damage by reducing the flow pressure to the winch during stowage. The operator can control the load block or ball while winching up or down during set up and stowage without the need to access the upper control station. Reducing slip/trip/fall hazard exposure.



AC23-95R | LOAD CHARTS

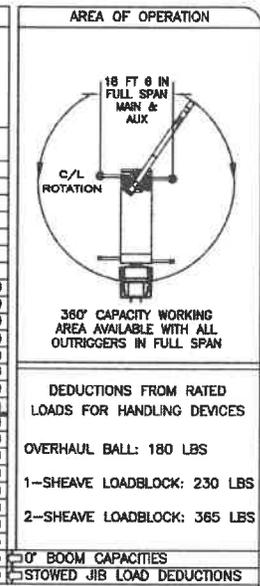
FULL SPAN OUTRIGGERS



BOOM LOAD CAPACITIES IN LBS. WITH FULL SPAN OUTRIGGERS

LOAD RADIUS (FT)	30 FT BOOM		43 FT BOOM		56 FT BOOM		69 FT BOOM		82 FT BOOM		95 FT BOOM	
	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
5	77	47000										
8	71	38800	77	17600								
10	66	30900	74	17800	78	17500						
12	62	26100	71	18000	76	17600						
14	57	22200	68	18200	74	17700	78	17400				
16	52	19100	65	18500	72	17900	76	16100	79	13900		
18	47	17600	62	18000	70	18100	75	14900	78	12900	80	10000
20	41	15400	59	15800	68	16000	73	13900	76	12000	79	10000
25	19	11400	51	11900	62	12100	68	11800	73	10100	76	8800
30			42	9300	58	9500	64	9700	69	8300	73	7800
35			30	7400	49	7600	59	7800	65	7000	70	6400
40					42	6100	54	6250	61	6100	68	5500
45					33	4800	48	4950	57	5050	63	4800
50					20	3800	42	4000	52	4100	59	4150
55							35	3200	47	3300	55	3400
60							26	2800	42	2700	51	2750
65							11	2100	36	2200	47	2250
70									29	1750	42	1850
75									20	1400	37	1500
80											32	1150
85											24	900
90											14	675

NOTE: RATINGS ABOVE THE HEAVY LINE ARE BASED ON STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY



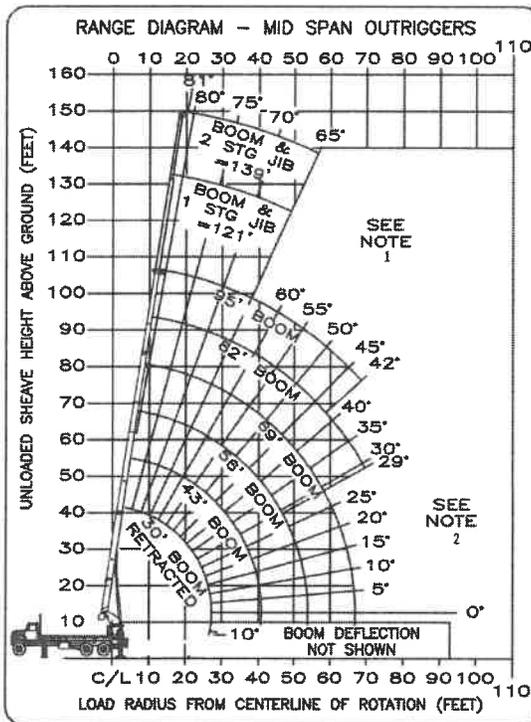
DEPLOYED JIB LOAD CAPACITIES (LBS) FOR ALL BOOM LENGTHS

JIB CAPACITIES ARE FOR FULL SPAN OUTRIGGERS (18 FT 6 IN CENTER TO CENTER)

LOADED BOOM ANGLE	55° *	60°	65°	70°	75°	80°
RETRACTED 26 FT JIB	775	1450	2250	3100	4100	4100
EXTENDED 44 FT JIB	550	1125	1550	2050	2550	2550

* DO NOT OPERATE JIB BELOW THIS ANGLE UNLESS BOOM IS FULLY RETRACTED. SEE NOTE 1

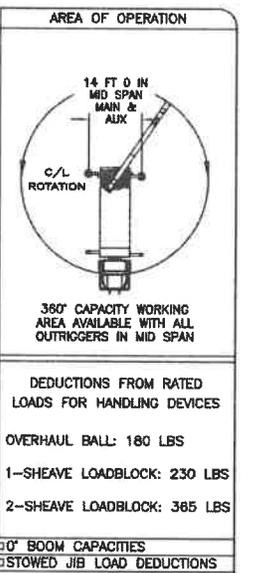
MID SPAN OUTRIGGERS



BOOM LOAD CAPACITIES IN LBS. WITH MID SPAN OUTRIGGERS

LOAD RADIUS (FT)	30 FT BOOM		43 FT BOOM		56 FT BOOM		69 FT BOOM		82 FT BOOM		95 FT BOOM	
	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
5	77	46000										
8	71	35000	77	17800								
10	66	30900	74	17800	78	17500						
12	62	26100	71	18000	76	17600						
14	57	22200	68	18200	74	17700	78	17400				
16	52	18600	65	18500	72	17900	76	16100	79	13900		
18	47	14500	62	15200	70	15500	75	14900	78	12900	80	10000
20	41	11700	59	12300	68	12600	73	12800	76	12000	79	10000
25	21	7500	51	8100	62	8300	68	8500	73	8800	76	8700
30			42	5600	56	5800	64	6000	69	6100	73	6200
35			30	4000	49	4200	59	4400	65	4500	69	4600
40					42	3100	53	3300	61	3400	68	3400
45					33	2300	48	2450	56	2550	62	2600
50					20	1650	41	1800	52	1900	58	2000
55							34	1300	47	1400	55	1500
60							25	900	42	1000	51	1075
65							10	550	36	675	46	725
70									29	400	42	450
75												
80												
85												
90												

NOTE: RATINGS ABOVE THE HEAVY LINE ARE BASED ON STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY



DEPLOYED JIB LOAD CAPACITIES (LBS) FOR ALL BOOM LENGTHS

JIB CAPACITIES ARE FOR MID SPAN OUTRIGGERS (14 FT 0 IN MIN CENTER TO CENTER)

LOADED BOOM ANGLE	65° *	70°	75°	80°
RETRACTED 26 FT JIB	800	1925	3900	4100
EXTENDED 44 FT JIB	550	1500	2550	2550

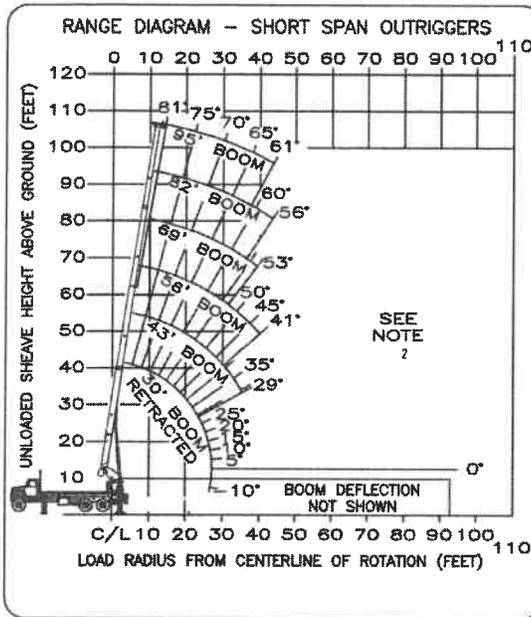
* DO NOT OPERATE JIB BELOW THIS ANGLE UNLESS BOOM IS FULLY RETRACTED. SEE NOTE 1

Note 1: When jib is erected, boom must be fully retracted before lowering below minimum boom with jib angles. Retracted boom with jib has no lifting capacity below a 50 degree angle with full span outriggers and below a 65 degree angle not shown on jib load rating chart.

Note 2: Do not lower boom into this area, instability may occur. Hydraulic pressure may not allow raising the boom without retracting boom first.

AC23-95R | LOAD CHARTS

SHORT SPAN OUTRIGGERS



BOOM LOAD CAPACITIES IN LBS. WITH SHORT SPAN OUTRIGGERS

LOAD RADIUS (FT)	30 FT BOOM		43 FT BOOM		56 FT BOOM		69 FT BOOM		82 FT BOOM		95 FT BOOM	
	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	
5	77	39000										
8	71	28400	77	17600								
10	68	18400	74	17800	78	17800						
12	62	12800	71	13300	78	13800						
14	58	8300	69	9900	74	10200	78	10300				
16	53	7100	66	7600	72	7900	76	8000	79	8150		
18	48	5500	63	6000	70	6250	74	8400	77	8500	80	8600
20	42	4300	60	4800	67	5050	72	5200	76	5300	78	5400
25	22	2400	51	2850	62	3100	68	3200	72	3300	75	3400
30			42	1850	55	1875	63	2000	68	2100	72	2150
35			29	850	49	1075	58	1200	64	1300	68	1350
40					41	475	53	625	60	700	65	750
45									56	250	61	325

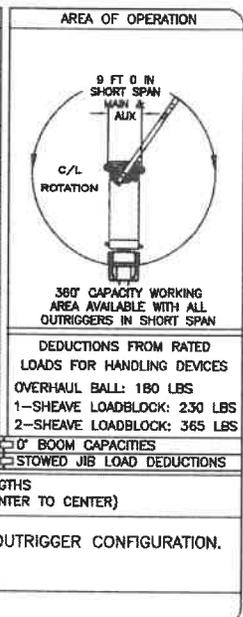
NOTE: RATINGS ABOVE THE HEAVY LINE ARE BASED ON STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY

SEE NOTE 9

0	1900	550	425	350	300	250
	825	550	425	350	300	250

DEPLOYED JIB LOAD CAPACITIES (LBS) FOR ALL BOOM LENGTHS
JIB CAPACITIES ARE FOR SHORT SPAN OUTRIGGERS (9 FT 0 IN MIN CENTER TO CENTER)

DO NOT OPERATE OR ERECT JIBS IN THIS OUTRIGGER CONFIGURATION. SEE NOTE 19.

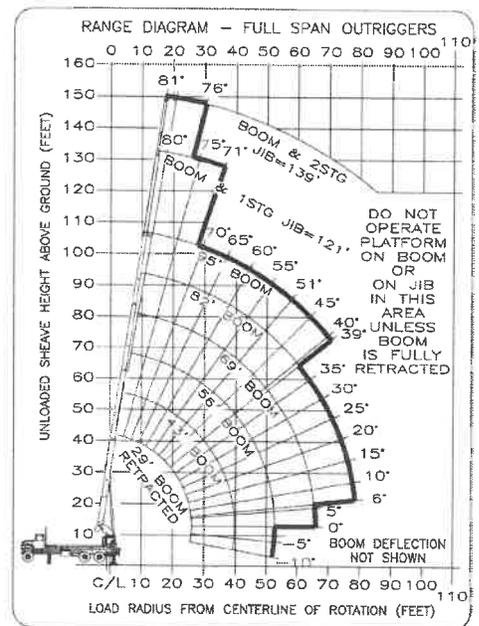


Note 1: When operating the crane in the "Short Span" mode, the outrigger beam pins must be properly engaged. Do not operate or erect lifts in "Short Span" outrigger configurations.
Note 2: Do not lower boom into this area, instability may occur. Hydraulic pressure may not allow raising the boom without retracting boom first.

WINCH CHART

1 PART LOAD LINE	2 PART LOAD LINE	3 PART LOAD LINE	4 PART LOAD LINE	5 PART LOAD LINE	CAUTION
LOADS UP TO	LOADS UP TO	LOADS UP TO	LOADS UP TO	LOADS UP TO	
10,571 LBS. IWRC XXIP	21,142 LBS. IWRC XXIP	31,713 LBS. IWRC XXIP	42,284 LBS. IWRC XXIP	47,000 LBS. IWRC XXIP	
7,400 LBS. ROT. RESISTANT WIRE ROPE	14,800 LBS. ROT. RESISTANT WIRE ROPE	22,200 LBS. ROT. RESISTANT WIRE ROPE	29,600 LBS. ROT. RESISTANT WIRE ROPE	37,000 LBS. ROT. RESISTANT WIRE ROPE	
95 FT + 44 FT JIB	95 FT BOOM	74 FT BOOM	56 FT BOOM	45 FT BOOM	
<p>MAXIMUM BOOM LENGTH AT MAXIMUM ELEVATION WITH RIGGING SHOWN TO REACH THE GROUND</p> <p>SEE OWNERS MANUAL FOR OTHER REEVING OPTIONS</p> <p>With certain boom and hoist tackle combinations, maximum capacities may not be obtainable with standard cable lengths.</p>					

PLATFORM CHART

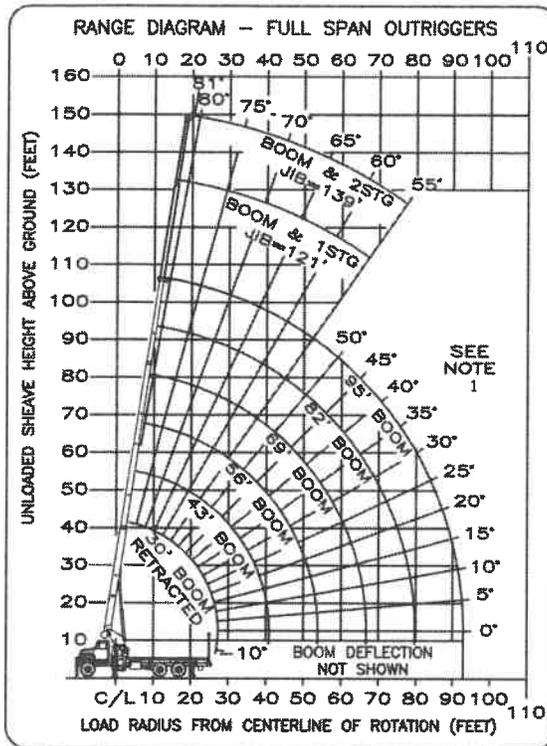


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AC23-95B | LOAD CHARTS

FULL SPAN OUTRIGGERS



BOOM LOAD CAPACITIES IN LBS. WITH FULL SPAN OUTRIGGERS

LOAD RADIUS (FT)	30 FT BOOM		43 FT BOOM		56 FT BOOM		69 FT BOOM		82 FT BOOM		95 FT BOOM		
	LBS	▲	LBS	▲	LBS	▲	LBS	▲	LBS	▲	LBS	▲	
5	77	47000											
8	71	36800	77	17600									
10	66	30900	74	17800	78	17500							
12	62	28100	71	18000	78	17600							
14	57	22200	68	18200	74	17700	78	17400					
16	52	19100	65	18500	72	17900	78	18100	79	13900			
18	47	17600	62	18000	70	18100	75	14900	78	12900	80	10000	
20	41	15400	59	15800	68	16000	73	13900	78	12900	79	10000	
25	19	11400	51	11900	62	12100	66	11800	73	10100	78	8800	
30			42	9300	56	9500	64	9700	69	8300	73	7600	
35			30	7400	49	7600	59	7800	65	7000	70	6400	
40					42	6100	54	6250	61	6100	66	5600	
45					33	4800	48	4950	57	5050	63	4800	
50					20	3800	42	4000	52	4100	59	4150	
55							35	3200	47	3300	55	3400	
60							26	2600	42	2700	51	2750	
65							11	2100	36	2200	47	2250	
70									29	1750	42	1850	
75									20	1400	37	1500	
80											32	1150	
85											24	900	
90											14	675	
0	8000	0	4900	0	3100	0	2000	0	1150	0	575	0	250
	825		550		425		350		300				

NOTE: RATINGS ABOVE THE HEAVY LINE ARE BASED ON STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY

DEPLOYED JIB LOAD CAPACITIES (LBS) FOR ALL BOOM LENGTHS
JIB CAPACITIES ARE FOR FULL SPAN OUTRIGGERS (18 FT 6 IN CENTER TO CENTER)

LOADED BOOM ANGLE	55° *	60°	65°	70°	75°	80°
RETRACTED 26 FT JIB	775	1450	2250	3100	4100	4100
EXTENDED 44 FT JIB	550	1125	1550	2050	2550	2550

* DO NOT OPERATE JIB BELOW THIS ANGLE UNLESS BOOM IS FULLY RETRACTED. SEE NOTE 1

AREA OF OPERATION

DO NOT WORK IN THIS AREA WITHOUT FRONT BUMPER OUTRIGGER DEPLOYED

18 FT 6 IN FULL SPAN MAIN & AUX

360° CAPACITY WORKING AREA AVAILABLE ONLY WITH FRONT BUMPER OUTRIGGER

DEDUCTIONS FROM RATED LOADS FOR HANDLING DEVICES

OVERHAUL BALL: 180 LBS

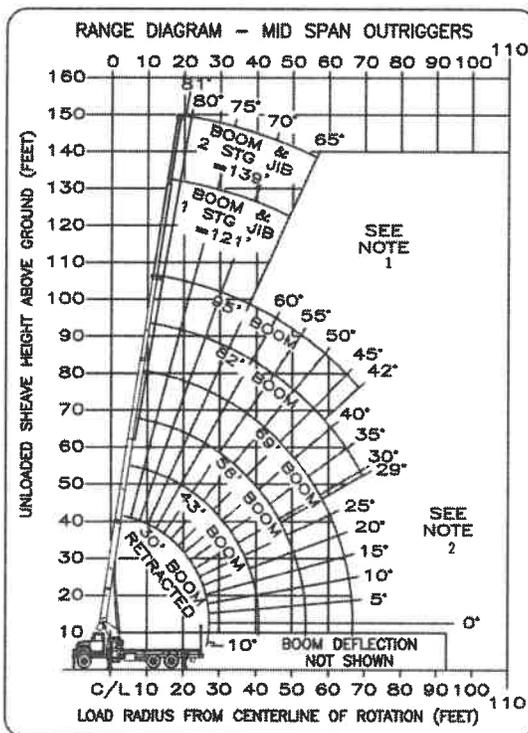
1-SHEAVE LOADBLOCK: 230 LBS

2-SHEAVE LOADBLOCK: 365 LBS

0° BOOM CAPACITIES

STOWED JIB LOAD DEDUCTIONS

MID SPAN OUTRIGGERS



BOOM LOAD CAPACITIES IN LBS. WITH MID SPAN OUTRIGGERS

LOAD RADIUS (FT)	30 FT BOOM		43 FT BOOM		56 FT BOOM		69 FT BOOM		82 FT BOOM		95 FT BOOM		
	LBS	▲	LBS	▲	LBS	▲	LBS	▲	LBS	▲	LBS	▲	
5	77	48000											
8	71	35000	77	17600									
10	66	30900	74	17800	78	17500							
12	62	28100	71	18000	78	17600							
14	57	22200	68	18200	74	17700	78	17400					
16	52	18600	65	18500	72	17900	78	18100	79	13900			
18	47	14500	62	15200	70	15500	75	14900	78	12900	80	10000	
20	41	11700	59	12300	68	12600	73	12800	78	12000	79	10000	
25	21	7500	51	8100	62	8300	68	8500	73	8600	76	8700	
30			42	5600	56	5800	64	6000	69	6100	73	6200	
35			30	4000	49	4200	59	4400	65	4500	69	4600	
40					42	3100	53	3300	61	3400	66	3400	
45					33	2300	48	2450	56	2550	62	2600	
50					20	1650	41	1800	52	1900	58	2000	
55							34	1300	47	1400	55	1500	
60							25	900	42	1000	51	1075	
65							10	550	36	675	46	725	
70									29	400	42	450	
75													
80													
85													
90													
0	6600	0	2800	0	1350	0	500	0	300	0	250	0	250
	825		550		425		350		300				

NOTE: RATINGS ABOVE THE HEAVY LINE ARE BASED ON STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY

DEPLOYED JIB LOAD CAPACITIES (LBS) FOR ALL BOOM LENGTHS
JIB CAPACITIES ARE FOR MID SPAN OUTRIGGERS (14 FT 0 IN MIN CENTER TO CENTER)

LOADED BOOM ANGLE	65° *	70°	75°	80°
RETRACTED 26 FT JIB	800	1925	3900	4100
EXTENDED 44 FT JIB	550	1500	2550	2550

* DO NOT OPERATE JIB BELOW THIS ANGLE UNLESS BOOM IS FULLY RETRACTED. SEE NOTE 1

AREA OF OPERATION

DO NOT WORK IN THIS AREA WITHOUT FRONT BUMPER OUTRIGGER DEPLOYED

14 FT 0 IN MID SPAN MAIN & AUX

360° CAPACITY WORKING AREA AVAILABLE ONLY WITH FRONT BUMPER OUTRIGGER

DEDUCTIONS FROM RATED LOADS FOR HANDLING DEVICES

OVERHAUL BALL: 180 LBS

1-SHEAVE LOADBLOCK: 230 LBS

2-SHEAVE LOADBLOCK: 365 LBS

0° BOOM CAPACITIES

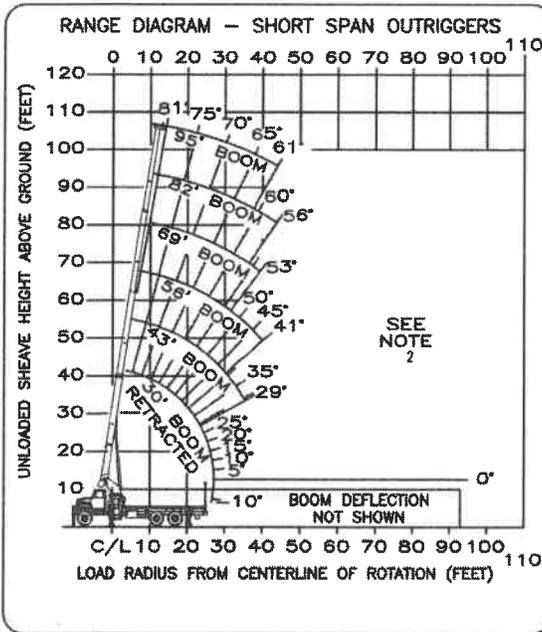
STOWED JIB LOAD DEDUCTIONS

Note 1: When jib is erected, boom must be fully retracted before lowering below minimum boom with jib angles. Retracted boom with jib has no lifting capacity below a 50 degree angle with full span outriggers and below a 65 degree angle not shown on jib load rating chart.

Note 2: Do not lower boom into this area, instability may occur. Hydraulic pressure may not allow raising the boom without retracting boom first.

AC23-95B | LOAD CHARTS

SHORT SPAN OUTRIGGERS



BOOM LOAD CAPACITIES IN LBS. WITH SHORT SPAN OUTRIGGERS

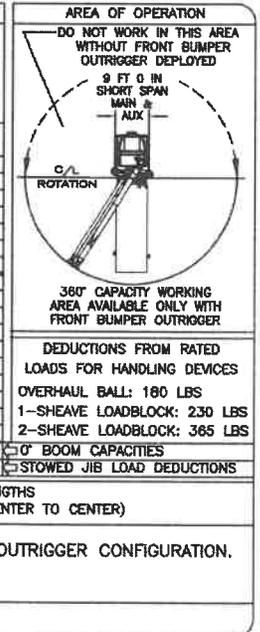
LOAD RADIUS (FT)	30 FT BOOM		43 FT BOOM		56 FT BOOM		69 FT BOOM		82 FT BOOM		95 FT BOOM	
	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
5	77	39000										
8	71	29400	77	17600								
10	66	18400	74	17600	78	17500						
12	62	12600	71	13300	76	13600						
14	58	9300	69	9900	74	10200	78	10300				
16	53	7100	66	7600	72	7900	76	8000	79	8150		
18	48	5500	63	6000	70	6250	74	6400	77	6500	80	6600
20	42	4300	60	4800	67	5050	72	5200	76	5300	78	5400
25	22	2400	51	2850	62	3100	68	3200	72	3300	75	3400
30			42	1850	55	1875	63	2000	68	2100	72	2150
35			29	850	49	1075	58	1200	64	1300	68	1350
40					41	475	53	625	60	700	65	750
45									58	250	61	325
50												
55												
60												
0	1900											
	825		550		425		350		300		250	

NOTE: RATINGS ABOVE THE HEAVY LINE ARE BASED ON STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY

SEE NOTE 2

DEPLOYED JIB LOAD CAPACITIES (LBS) FOR ALL BOOM LENGTHS
JIB CAPACITIES ARE FOR SHORT SPAN OUTRIGGERS (9 FT 0 IN MIN CENTER TO CENTER)

LOADED BOOM ANGLE	
RETRACTED 26 FT JIB	DO NOT OPERATE OR ERECT JIBS IN THIS OUTRIGGER CONFIGURATION. SEE NOTE 19.
EXTENDED 44 FT JIB	

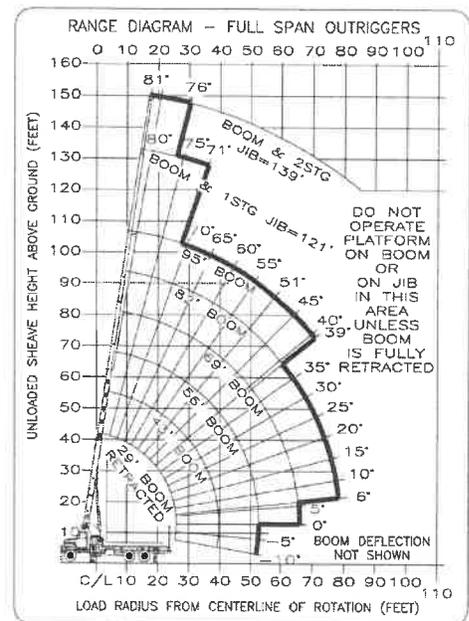


Note 1: When operating the crane in the "Short Span" mode, the outrigger beam pins must be properly engaged. Do not operate or erect jibs in "Short Span" outrigger configurations.
Note 2: Do not lower boom into this area, instability may occur. Hydraulic pressure may not allow raising the boom without re-erecting boom first.

WINCH CHART

1 PART LOAD LINE	2 PART LOAD LINE	3 PART LOAD LINE	4 PART LOAD LINE	5 PART LOAD LINE	CAUTION
LOADS UP TO 10,571 LBS. IWRC XXIP	LOADS UP TO 21,142 LBS. IWRC XXIP	LOADS UP TO 31,713 LBS. IWRC XXIP	LOADS UP TO 42,284 LBS. IWRC XXIP	LOADS UP TO 47,000 LBS. IWRC XXIP	
7,400 LBS. ROT. RESISTANT WIRE ROPE	14,800 LBS. ROT. RESISTANT WIRE ROPE	22,200 LBS. ROT. RESISTANT WIRE ROPE	29,600 LBS. ROT. RESISTANT WIRE ROPE	37,000 LBS. ROT. RESISTANT WIRE ROPE	
95 FT + 44 FT JIB	95 FT BOOM	74 FT BOOM	56 FT BOOM	45 FT BOOM	
MAXIMUM BOOM LENGTH AT MAXIMUM ELEVATION WITH RIGGING SHOWN TO REACH THE GROUND					
SEE OWNERS MANUAL FOR OTHER REEVING OPTIONS With certain boom and hoist tackle combinations, maximum capacities may not be obtainable with standard cable lengths.					

PLATFORM CHART



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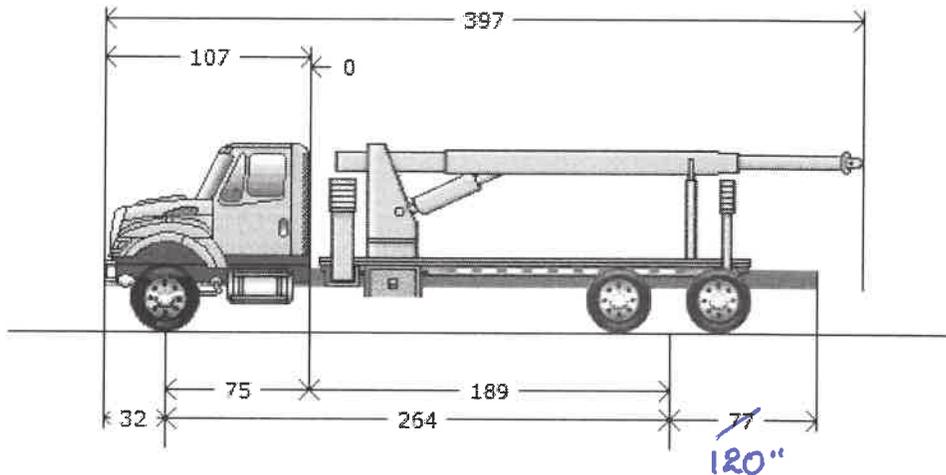
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Prepared For:
 WV Dept. of Highways
 Travis Ray
 P. O. Box 610
 Buckhannon, WV 26201-
 (304)472 - 1750
 Reference ID: N/A

Presented By:
 WORLDWIDE EQ-HERITAGE
 Matt Cochran
 1 JAIN DRIVE
 CROSS LANES WV 25313
 304-776-5600

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
2019 HV507 SFA (HV507)

AXLE CONFIG:	6X4
APPLICATION:	Mobile Aerial Crane
MISSION:	Requested GVWR: 60000. Calc. GVWR: 60000 Calc. Start / Grade Ability: 19.12% / 2.23% @ 55 MPH Calc. Geared Speed: 73.7 MPH
DIMENSION:	Wheelbase: 264.00, CA: 189.00, Axle to Frame: 77.00
ENGINE, DIESEL:	{Cummins L9 370} EPA 2017, 370HP @ 2000 RPM, 1250 lb-ft Torque @ 1400 RPM, 2100 RPM Governed Speed, 370 Peak HP (Max)
TRANSMISSION, AUTOMATIC:	{Allison 3000 RDS} 5th Generation Controls, Close 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 MT-40-14X-4DFR} Single Reduction, 40,000-lb Capacity, w/.433"(11mm) Wall Housing Thickness, R Wheel Ends Gear Ratio: 5.29
CAB:	Conventional
TIRE, FRONT:	(2) 315/80R22.5 Load Range L G289 WHA (GOODYEAR), 484 rev/mile, 68 MPH, All-Position
TIRE, REAR:	(8) 11R22.5 Load Range G G622 RSD (GOODYEAR), 497 rev/mile, 75 MPH, Drive
SUSPENSION, REAR, TANDEM:	{International} 4-Spring Type, Multileaf, 52" Axle Spacing; 40,000-lb Capacity
PAINT:	Cab schematic 100WK Location 1: 4017, Dark Safety Yellow (Prem) Chassis schematic N/A

Description

Base Chassis, Model HV507 SFA with 264.00 Wheelbase, 189.00 CA, and 77.00 Axle to Frame.

TOW HOOK, FRONT (2) Frame Mounted

AXLE CONFIGURATION {Navistar} 6x4

Notes

: Pricing may change if axle configuration is changed.

FRAME RAILS Heat Treated Alloy Steel (125,000 PSI Yield); 11.25" x 4.00" x 0.500" (285.75mm x 101.6mm x 12.7mm); 480.8" (12212mm) Maximum OAL

BUMPER, FRONT Steel, Swept Back

FRAME EXTENSION, FRONT Integral; 27" In Front of Grille

WHEELBASE RANGE 228" (580cm) Through and Including 270" (685cm)

AXLE, FRONT NON-DRIVING {Meritor MFS-20-133A} Wide Track, I-Beam Type, 20,000-lb Capacity

SUSPENSION, FRONT, SPRING Parabolic, Taper Leaf; 20,000-lb Capacity; with Shock Absorbers

BRAKE SYSTEM, AIR Dual System for Straight Truck Applications

BRAKES, FRONT, AIR CAM 16.5" x 6", Includes 24 SqIn Long Stroke Brake Chambers

TRAILER CONNECTIONS Four-Wheel, with Hand Control Valve and Tractor Protection Valve, for Straight Truck

DRAIN VALVE {Berg} with Pull Chain, for Air Tank

AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel)

AIR DRYER {Wabco System Saver 1200} with Heater

BRAKE CHAMBERS, REAR AXLE {Bendix EverSure} 30/30 Spring Brake

BRAKE CHAMBERS, FRONT AXLE {Bendix} 24 SqIn

BRAKE ATTACHMENT Stainless Steel Slack Adjuster Pins/Cotter Pins on Front and Rear

BRAKES, REAR, AIR CAM S-Cam; 16.5" x 7.0"; Includes 30/30 Sq.In. Long Stroke Brake Chamber and Spring Actuated Parking Brake

AIR COMPRESSOR {Cummins} 18.7 CFM Capacity

AIR DRYER LOCATION Mounted Inside Right Rail, Approx. 35" Back of Cab

AIR TANK Painted Aluminum, with Straight Thread O-Ring Ports

AIR TANK LOCATION (2) : One Mounted Under Each Frame Rail, Front of Rear Suspension, Parallel to Rail

STEERING COLUMN Stationary

STEERING WHEEL 4-Spoke; 18" Dia., Black

STEERING GEAR (2) {Sheppard M100/M80} Dual Power

AFTERTREATMENT COVER Aluminum

EXHAUST SYSTEM Single Horizontal Aftertreatment Device, Frame Mounted Right Side Under Cab; for Single Vertical Tail Pipe, Frame Mounted Right Side Back of Cab

ENGINE COMPRESSION BRAKE {Jacobs} for Cummins ISL/L9 Engines; with Selector Switch and On/Off Switch

TAIL PIPE (1) Turnback Type, Non-Bright, for Single Exhaust

EXHAUST HEIGHT 8' 10"

MUFFLER/TAIL PIPE GUARD (1) Non-Bright Aluminum

Description

ELECTRICAL SYSTEM 12-Volt, Standard Equipment

ALTERNATOR {Leece-Neville AVI160P2013} Brush Type; 12 Volt 160 Amp. Capacity, Pad Mount, with Remote Sense

BODY BUILDER WIRING Back of Standard or Sleeper Cab at Left Frame or Under Extended or Crew Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn

ELECTRIC TRAILER BRAKE/LIGHTS Accommodation Package to Rear of Frame; for Combined Trailer Stop, Tail, Turn, Marker Light Circuits; Includes Electric Trailer Brake Accommodation Package with Cab Connections for Mounting Customer Installed Electric Brake Unit, Less Trailer Socket

BATTERY SYSTEM {International} Maintenance-Free, (3) 12-Volt 1950CCA Total

RADIO AM/FM/WB/Clock/Bluetooth/USB Input/3.5MM Auxiliary Input, MP3, Apple Device Play & Control, Bluetooth for Phone & Music

SPEAKERS (2) 5.25" Dual Cone Mounted in Both B-Pillars

CB RADIO Accommodation Package; Header Mounted; Feeds From Accessory Side of Ignition Switch; Includes Power Source and One (1) Antenna, Antenna Base with Wiring on Left Side Mirror

TRAILER AUXILIARY FEED CIRCUIT for Electric Trailer Brake Accommodation/Air Trailer ABS; with 30 Amp Fuse and Relay, Controlled by Ignition Switch

HORN, ELECTRIC Disc Style

BATTERY BOX Steel, with Fiberglass Cover, Mounted 53" Back of Cab, Left Side Perpendicular to Frame Rail

RUNNING LIGHT (2) Daytime

CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade

STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt; less Thermal Over-Crank Protection

INDICATOR, LOW COOLANT LEVEL with Audible Alarm

CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses

TURN SIGNALS, FRONT Includes LED Side Turn Lights Mounted on Fender

HORN, AIR Black, Single Trumpet, with Lanyard Pull Cord

LOGOS EXTERIOR Badges

LOGOS EXTERIOR, ENGINE Badges

GRILLE Stationary, Chrome

BUG SCREEN Mounted Behind Grille

FRONT END Tilting, Fiberglass, with Three Piece Construction; for WorkStar/HV

PAINT SCHEMATIC, PT-1 Single Color, Design 100

Includes

: PAINT SCHEMATIC ID LETTERS "WK"

PAINT TYPE Base Coat/Clear Coat, 1-2 Tone

PAINT CLASS Premium Color

SAFETY TRIANGLES

CLUTCH Omit Item (Clutch & Control)

ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection

BLOCK HEATER, ENGINE 120V/1000W, for Cummins ISB/B6.7/ISL/L9 Engines

Description

ENGINE, DIESEL {Cummins L9 370} EPA 2017, 370HP @ 2000 RPM, 1250 lb-ft Torque @ 1400 RPM, 2100 RPM Governed Speed, 370 Peak HP (Max)

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

RADIATOR Cross Flow, Series System; 1228 SqIn Aluminum Radiator Core with Internal Water to Oil Transmission Cooler and 1167 In Charge Air Cooler

AIR CLEANER Dual Element, with Integral Pre Cleaner

FEDERAL EMISSIONS {Cummins L9} EPA, OBD and GHG Certified for Calendar Year 2018

THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel

EMISSION COMPLIANCE Federal, Does Not Comply with California Clean Air Idle Regulations

ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls and Starter Lockout; with Ignition Switch Control for Cummins B6.7 and L9 Engines

TRANSMISSION, AUTOMATIC {Allison 3000 RDS} 5th Generation Controls, Close Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, On/Off Highway

TRANSMISSION SHIFT CONTROL for Column Mounted Stalk Shifter

TRANSMISSION DIPSTICK Relocated to Right Side of Transmission

TRANSMISSION COOLER HOSES Stainless Steel

TRANSMISSION OIL Synthetic; 29 thru 42 Pints

ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS); General Purpose Trucks, Construction

TRANSMISSION TCM LOCATION Located Inside Cab

SHIFT CONTROL PARAMETERS Allison 3000 or 4000 Series Transmissions, 5th Generation Controls, Performance Programming

PTO LOCATION Dual, Left and Right Side of Transmission

AXLE, REAR, TANDEM {Meritor MT-40-14X-4DFR} Single Reduction, 40,000-lb Capacity, w/.433"(11mm) Wall Housing Thickness, R Wheel Ends . Gear Ratio: 5.29

SUSPENSION, REAR, TANDEM {International} 4-Spring Type, Multileaf, 52" Axle Spacing; 40,000-lb Capacity

DEF TANK 9.5 U.S. Gal. 35.9L Capacity, Frame Mounted Outside Left Rail, Under Cab

LOCATION FUEL/WATER SEPARATOR Mounted Outside Left Rail, 41" Back of Cab

FUEL/WATER SEPARATOR {Racor 400 Series,} with Primer Pump, Includes Water-in-Fuel Sensor

FUEL TANK Top Draw, Non-Polished Aluminum, 26" Dia, 100 US Gal (379L), Mounted Left Side, Under Cab

CAB Conventional

AIR CONDITIONER with Integral Heater & Defroster

GAUGE CLUSTER Premium Level; English with English Speedometer and Tachometer, for Air Brake Chassis, Includes Engine Coolant Temperature, Primary and Secondary Air Pressure, Fuel and DEF Gauges, Oil Pressure Gauge, Includes 5 Inch LCD Color Display

GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} with Black Bezel Mounted in Instrument Panel

IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster

VIRTUAL GA, OIL TEMP,AUTO XMSN for Allison Transmission, Requires Premium Cluster

SEAT, PASSENGER {National} Air-Suspension, High Back with Integral Headrest, Mordura Cloth, Isolated, 1 Chamber Lumbar, 2 Position Front Cushion Adjust, -3 to +14 Degree Back Angle Adjustment

Description

SEAT, DRIVER {National 2000} Air Suspension, High Back with Integral Headrest, Mordura Cloth, Isolated, with 2 Position Front Cushion Adjustment, -3 to +14 Degree Seat Back Adjustment, Single Chamber Air Lumbar Support

MIRRORS (2) Power Adjust, Thermostatically Controlled Heated Heads, LED Clearance Lights, Bright Finish Heads and Arms, Black Brackets, 7.55" x 14.1" Flat Glass, 7.48" x 6.77" Convex Glass Both Sides

MIRROR, CONVEX, LOOK DOWN Right Side, Bright, 6" x 10 1/4"

CAB INTERIOR TRIM Classic, for Day Cab

WINDSHIELD Heated, Single Piece

CAB SOUND INSULATION Includes Dash Insulator and Engine Cover Insulator

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

CAB REAR SUSPENSION Air Bag Type

INSTRUMENT PANEL Flat Panel

CUTOUT, INSTRUMENT PANEL for Customer Installed Auxiliary Switches

WINDSHIELD WIPER BLADES Snow Type

ACCESS, CAB {Bustin} Driver & Passenger Sides, Two Aluminum, Self-Cleaning Steps (Bustin) Per Door, For Use with Regular & Extended Cabs

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

WHEELS, REAR DUAL DISC; 22.5x8.25 Rims, Non-Polished Aluminum, 10-Stud 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs

COATING IDENTITY, REAR WHEELS {Accuride Accu-shield} Aluminum Disc Rear Wheels, with Vendor Applied Clear Coat; Not for Super Single Wide Base

COATING IDENTITY, FRONT WHEELS {Accuride Accu-shield} Disc Front Wheels; Aluminum, with Vendor Applied Clear Coat Not for Wide Base

WHEEL GUARDS, FRONT {Accuride} for Metric Hub Piloted Wheels with Flanged Mounting Nuts Mounted Between Hub and Wheel

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 with Latched Switches)

(8) TIRE, REAR 11R22.5 Load Range G G622 RSD (GOODYEAR), 497 rev/mile, 75 MPH, Drive

(2) TIRE, FRONT 315/80R22.5 Load Range L G289 WHA (GOODYEAR), 484 rev/mile, 68 MPH, All-Position

Services Section:

WARRANTY Standard for HV507, HV50B, HV607 Models, Effective with Vehicles Built July 1, 2017 or Later, CTS-2025A

SRV CONTRACT, EXT COOLING SYS {Navistar} To 24-Month/100,000 Miles (160,000 km)

SRV CONTRACT, EXT CMMS ENGINE {Cummins} To 60-Month/150,000 Miles (240,000 km), Extended Cummins L9 Engine Coverage, Protection Plan 1

SRV CONTRACT, EXT CMMS AFTR {Cummins} To 60-Month/150,000 Miles (240,000 km), Extended Cummins L9 Aftertreatment Coverage, for Use when Protection Plan 1 of Equal or Greater Duration is Purchased (Truck Application Only)

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 Phone: 304-473-5354

Prepared by:
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 50 Matheny Lane
 Mineral Wells, WV 26150
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Please add the following codes:

33U-011
 33U-006
 607-001
 34C-001
 362-1Y0
 363-011
 346-013

S P E C I F I C A T I O N P R O P O S A L

Data Code	Description	Weight Front	Weight Rear
Price Level			
PRL-18D	SD PRL-18D (EFF:04/17/18)		
Data Version			
DRL-006	SPECPRO21 DATA RELEASE VER 006		
Vehicle Configuration			
001-177	114SD CONVENTIONAL CHASSIS	7,934	6,576
004-220	2020 MODEL YEAR SPECIFIED		
002-003	SET FORWARD AXLE - TRUCK		
019-001	TRAILER TOWING PROVISION AT END OF FRAME FOR TRUCK	10	10
003-001	LH PRIMARY STEERING LOCATION		
General Service			
AA1-003	TRUCK/TRAILER CONFIGURATION		
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
A85-011	CONSTRUCTION SERVICE		
A84-1CO	CONSTRUCTION BUSINESS SEGMENT		
AA4-003	DRY BULK COMMODITY		
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
AB1-008	MAXIMUM 8% EXPECTED GRADE		
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
995-1A0	FREIGHTLINER SD VOCATIONAL WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 20000.0 lbs		
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 40000.0 lbs		



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Data Code	Description	Weight Front	Weight Rear
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 60000.0 lbs		
A70-99D	EXPECTED GROSS COMBINATION WEIGHT : 80000.0 lbs		
Truck Service			
AA3-005	FLATBED/PLATFORM/STAKE BODY		
AF3-2CD	WEST VIRGINIA TRACTOR		
Tractor Service			
AA2-005	FLATBED TRAILER		
AH6-001	SINGLE (1) TRAILER		
Engine			
101-22V	CUM L9 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM	-850	-70
Electronic Parameters			
79A-075	75 MPH ROAD SPEED LIMIT		
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
79K-002	PTO MODE ENGINE RPM LIMIT - 700 RPM		
79M-001	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED		
79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM		
79Q-002	PTO RPM WITH CRUISE RESUME SWITCH - 700 RPM		
79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH		
79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND		
80G-002	PTO MINIMUM RPM - 700		
80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH		
Engine Equipment			
99C-017	2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION		
99D-011	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)		
13E-001	STANDARD OIL PAN		
105-001	ENGINE MOUNTED OIL CHECK AND FILL		
014-1B5	SIDE OF HOOD AIR INTAKE WITH DONALDSON HIGH CAPACITY AIR CLEANER WITH SAFETY ELEMENT, FIREWALL MOUNTED		



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Battery box will be
 in the way of front
 outriggers. Will need to be
 relocated or place
 under the cab

Data Code	Description	Weight Front	Weight Rear
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE		
292-071	(3) ALLIANCE MODEL 1231XOE, GROUP 31, 12 VOLT MAINTENANCE FREE 3375 CCA THREADED STUD BATTERIES		
290-017	BATTERY BOX FRAME MOUNTED		
281-001	STANDARD BATTERY JUMPERS		
282-003	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE BACK OF CAB		
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
289-001	NON-POLISHED BATTERY BOX COVER		
87P-001	CAB AUXILIARY POWER CABLE	5	
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE		
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
128-1AN	C-BRAKE BY JACOBS WITH LOW/OFF/HIGH BRAKING DASH SWITCH, ACTIVATES STOP LAMPS	80	
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
239-038	11 FOOT 06 INCH (138 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT		
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
23U-002	13 GALLON DIESEL EXHAUST FLUID TANK		
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL		
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		
242-011	ALUMINUM AFTERTREATMENT DEVICE/MUFFLER/TAILOPIPE SHIELD(S)		
273-018	HORTON DRIVEMASTER ADVANTAGE ON/OFF FAN DRIVE		
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		



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Data Code	Description	Weight Front	Weight Rear
110-003	CUMMINS SPIN ON FUEL FILTER		
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER		
266-017	1300 SQUARE INCH ALUMINUM RADIATOR	-20	
103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
172-007	GATES POWERGRIP SHRINK BAND HOSE CLAMPS WHERE POSSIBLE		
270-016	RADIATOR DRAIN VALVE		
168-002	LOWER RADIATOR GUARD	6	
138-011	PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4	
140-053	BLACK PLASTIC ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
132-004	ELECTRIC GRID AIR INTAKE WARMER		
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH	-10	

Transmission

342-582 ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION

Transmission Equipment

343-339 ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV

84B-002 ALLISON VOCATIONAL RATING FOR CONCRETE MIXER APPLICATIONS ONLY AVAILABLE WITH 3000 PRODUCT FAMILIES

84C-023 PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY

84D-023 SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY

84E-000 PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE

84F-000 SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE

84G-000 PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE



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Data Code	Description	Weight Front	Weight Rear
84H-000	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84L-000	LOAD BASED SHIFT SCHEDULE AND VEHICLE ACCELERATION CONTROL RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED VOCATIONAL USAGE		
84N-000	NEUTRAL AT STOP - DISABLED, FUELSENSE - DISABLED		
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		
84V-001	DIRECTION CHANGE ENABLED WITH MULTIPLEXED SERVICE BRAKES - ALLISON 5TH GEN TRANSMISSIONS		
34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED		
362-035	CUSTOMER INSTALLED CHELSEA 277 SERIES PTO		
363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION		
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN		
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED		
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013		
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK	-15	
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		

Front Axle and Equipment

400-1BB	DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	210	
402-030	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	10	
403-002	NON-ASBESTOS FRONT BRAKE LINING		
419-023	CONMET CAST IRON FRONT BRAKE DRUMS		
409-006	FRONT OIL SEALS		
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES		



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Data Code	Description	Weight Front	Weight Rear
405-031	HALDEX AUTOMATIC FRONT SLACK ADJUSTERS WITH STAINLESS STEEL CLEVIS PINS		
406-001	STANDARD KING PIN BUSHINGS		
536-055	TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR	130	
539-003	POWER STEERING PUMP		
534-003	4 QUART POWER STEERING RESERVOIR		
533-001	OIL/AIR POWER STEERING COOLER		
40T-001	ORGANIC SAE 80/90 FRONT AXLE LUBE		
Front Suspension			
620-006	20,000# FLAT LEAF FRONT SUSPENSION	310	
619-004	GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION		
410-001	FRONT SHOCK ABSORBERS		
Rear Axle and Equipment			
420-1K3	MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE		-40
421-488	4.88 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-046	SPL140HD DANA SPICER MAIN DRIVELINE WITH HALF ROUND YOKES	5	5
388-012	SPL170 XL DANA SPICER INTERAXLE DRIVELINE WITH HALF ROUND YOKES		10
452-004	DRIVER CONTROLLED TRACTION DIFFERENTIAL - FORWARD TANDEM/TRIDEM REAR AXLE		10
878-020	(1) INTERAXLE LOCK VALVE AND (1) DRIVER CONTROLLED DIFFERENTIAL LOCK FORWARD-REAR VALVE		
87A-001	BLINKING LAMP WITH EACH INTERAXLE LOCK SWITCH, INTERAXLE UNLOCK DEFAULT WITH IGNITION OFF		
87B-004	BLINKING LAMP WITH EACH MODE SWITCH, DIFFERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE <5 MPH		
423-020	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
433-002	NON-ASBESTOS REAR BRAKE LINING		
434-019	ASPHALT SPREADER CLEARANCE REAR BRAKE GEOMETRY		
451-023	CONMET CAST IRON REAR BRAKE DRUMS		



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Data Code	Description	Weight Front	Weight Rear
440-006	REAR OIL SEALS		
426-101	WABCO TRISTOP D LONGSTROKE 2-DRIVE AXLE SPRING PARKING CHAMBERS		
428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS		
41T-001	ORGANIC SAE 80/90 REAR AXLE LUBE		
42T-001	STANDARD REAR AXLE BREATHER(S)		
Rear Suspension			
622-006	40,000# 4-SPRING FLAT LEAF REAR SUSPENSION		
621-001	SPRING SUSPENSION - NO AXLE SPACERS		
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP		
624-011	52 INCH AXLE SPACING		
623-001	HEAVY DUTY FORE/AFT CONTROL RODS		
Brake System			
490-100	WABCO 4S/4M ABS WITHOUT TRACTION CONTROL		
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
904-001	FIBER BRAID PARKING BRAKE HOSE		
412-001	STANDARD BRAKE SYSTEM VALVES		
46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM		
413-002	STD U.S. FRONT BRAKE VALVE		
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
480-088	WABCO SYSTEM SAVER HP WITH INTEGRAL AIR GOVERNOR AND HEATER		
479-015	AIR DRYER FRAME MOUNTED		
460-007	ALUMINUM AIR BRAKE RESERVOIRS	-15	-15
477-001	PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS		
Trailer Connections			
914-001	AIR CONNECTIONS TO END OF FRAME WITH GLAD HANDS FOR TRUCK AND NO DUST COVERS		
296-010	PRIMARY CONNECTOR/RECEPTACLE WIRED FOR SEPARATE STOP/TURN, ABS CENTER PIN POWERED THROUGH IGNITION		
297-001	SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME		
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT		



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	Data Code	Description	Weight Front	Weight Rear
	303-001	7-WAY RECEPTACLE END OF FRAME (IN ADDITION TO STANDARD)	5	5
Wheelbase & Frame				
264" WB	545-472	4725MM (186 INCH) WHEELBASE		
	546-101	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI	20	30
	547-001	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT	130	355
120" overhang	552-030	1600MM (63 INCH) REAR FRAME OVERHANG		
	55W-006	FRAME OVERHANG RANGE: 61 INCH TO 70 INCH		
	549-002	24 INCH INTEGRAL FRONT FRAME EXTENSION	115	-20
	AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 102.54 in		
	AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 99.54 in		
	AE4-99D	CALC'D FRAME LENGTH - OVERALL : 300.69		
	AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 102.54 in		
	FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 15.35 in		
	FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 71.42 in		
	553-001	SQUARE END OF FRAME		
	550-001	FRONT CLOSING CROSSMEMBER		
	559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
	562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)		
	572-001	STANDARD REARMOST CROSSMEMBER		
	565-001	STANDARD SUSPENSION CROSSMEMBER		
Chassis Equipment				
	556-1AG	16.5 INCH PAINTED STEEL STRAIGHT BUMPER		
	558-001	FRONT TOW HOOKS - FRAME MOUNTED	15	
	574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
	551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
Fuel Tanks				
	204-156	100 GALLON/378 LITER ALUMINUM FUEL TANK - LH	20	
	218-006	25 INCH DIAMETER FUEL TANK(S)		
	215-007	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH POLISHED STAINLESS STEEL BANDS		



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Data Code	Description	Weight Front	Weight Rear
212-007	FUEL TANK(S) FORWARD		
664-001	PLAIN STEP FINISH		
205-001	FUEL TANK CAP(S)		
122-1H8	DAVCO 245 FUEL/WATER SEPARATOR WITH 12 VOLT HEAT AND WATER IN FUEL SENSOR	20	
216-020	EQUIFLO INBOARD FUEL SYSTEM		
11F-998	NO NATURAL GAS VEHICLE FUEL TANK VENT LINE/STACK		
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
Tires			
093-1R8	GOODYEAR G289 WHA 315/80R22.5 20 PLY RADIAL FRONT TIRES	86	
094-0JT	GOODYEAR G182 RSD 11R22.5 14 PLY RADIAL REAR TIRES		176
Hubs			
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS		
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS		
Aluminum Hubs			
Wheels			
502-664	ALCOA ULTRA ONE 89U63X 22.5X9.00 10-HUB PILOT 3.12 INSET 10-HD ALUMINUM FRONT WHEELS	-44	
505-1EF	ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS		-200
*	524-022 POLISHED DISC SIDE FRONT WHEELS WITH DURA-BRIGHT FINISH		
	524-020 UNPOLISHED FRONT WHEELS WITH DURABRIGHT FINISH		
*	525-006 POLISHED REAR WHEELS - OUTSIDE & INSIDE (DISHED SIDES)		
	525-021 UNPOLISHED REAR WHEELS WITH ALL DURABRIGHT FINISH		
498-011	NYLON WHEEL GUARDS FRONT AND REAR ALL INTERFACES		
Cab Exterior			
829-1A2	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
650-008	AIR CAB MOUNTING		
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
667-001	FRONT FENDERS		
754-002	3-1/2 INCH FENDER EXTENSIONS	15	



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Data Code	Description	Weight Front	Weight Rear
678-001	LH AND RH GRAB HANDLES		
646-041	STATIONARY BLACK GRILLE		
65X-004	BLACK HOOD MOUNTED AIR INTAKE GRILLE		
644-004	FIBERGLASS HOOD		
690-017	HOOD LINER, ADDED FIREWALL AND FLOOR HEAT INSULATION	5	
727-1AH	SINGLE 14 INCH ROUND POLISHED AIR HORN ROOF MOUNTED		
726-001	SINGLE ELECTRIC HORN		
728-001	SINGLE HORN SHIELD		
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		
312-068	HALOGEN COMPOSITE HEADLAMPS WITH BLACK BEZELS		
302-047	LED AERODYNAMIC MARKER LIGHTS		
311-012	DAYTIME RUNNING LIGHTS - LOW BEAM ONLY		
294-001	INTEGRAL STOP/TAIL/BACKUP LIGHTS		
300-015	STANDARD FRONT TURN SIGNAL LAMPS		
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE		
797-001	DOOR MOUNTED MIRRORS		
796-001	102 INCH EQUIPMENT WIDTH		
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
74A-001	RH DOWN VIEW MIRROR		
729-001	STANDARD SIDE/REAR REFLECTORS		
768-043	63X14 INCH TINTED REAR WINDOW		
661-004	TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS		
654-027	RH AND LH ELECTRIC POWERED WINDOWS, PASSENGER SWITCHES ON DOOR(S)	4	
663-029	1-PIECE TINTED CURVED BONDED WINDSHIELD WITH HEATED WIPER BLADE PARK AREAS		
659-006	8 LITER WINDSHIELD WASHER RESERVOIR, CAB MOUNTED, WITH FLUID LEVEL INDICATOR		

Cab Interior

707-1AK	OPAL GRAY VINYL INTERIOR
706-013	MOLDED PLASTIC DOOR PANEL
708-013	MOLDED PLASTIC DOOR PANEL
772-006	BLACK MATS WITH SINGLE INSULATION



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Data Code	Description	Weight Front	Weight Rear
785-004	DASH MOUNTED ASH TRAY(S) WITHOUT LIGHTER		
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING		
742-007	(2) CUP HOLDERS LH AND RH DASH		
680-007	GRAY/CHARCOAL WING DASH		
860-004	SMART SWITCH EXPANSION MODULE		
720-003	5 LB. FIRE EXTINGUISHER	10	
700-002	HEATER, DEFROSTER AND AIR CONDITIONER		
701-001	STANDARD HVAC DUCTING		
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
170-015	STANDARD HEATER PLUMBING		
130-033	DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR		
702-002	BINARY CONTROL, R-134A		
739-034	PREMIUM INSULATION		
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES		
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM		
324-011	DOME DOOR ACTIVATED LH AND RH, DUAL READING LIGHTS, FORWARD CAB ROOF		
655-005	LH AND RH ELECTRIC DOOR LOCKS		
284-023	(1) 12 VOLT POWER SUPPLY IN DASH		
722-002	TRIANGULAR REFLECTORS WITHOUT FLARES	10	
756-1D9	PREMIUM HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT, ADJUSTABLE SHOCK ABSORBER	70	
760-1D9	PREMIUM HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT, ADJUSTABLE SHOCK ABSORBER	60	20
759-005	DUAL DRIVER AND PASSENGER SEAT ARMRESTS	8	
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
758-014	BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER		
761-014	BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER		
763-101	BLACK SEAT BELTS		



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Data Code	Description	Weight Front	Weight Rear
532-001	FIXED STEERING COLUMN		
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL		
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		
Instruments & Controls			
732-004	GRAY DRIVER INSTRUMENT PANEL		
734-004	GRAY CENTER INSTRUMENT PANEL		
870-001	BLACK GAUGE BEZELS		
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM		
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
198-003	DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS		
149-017	ELECTRONIC CRUISE CONTROL WITH SWITCHES ON AUXILIARY GAUGE PANEL (B DASH PANEL)		
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED		
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
844-001	2 INCH ELECTRIC FUEL GAUGE		
148-003	PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE		
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
372-035	(1) DASH MOUNTED PTO SWITCH WITH INDICATOR LAMP	5	
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
679-001	OVERHEAD INSTRUMENT PANEL		
746-115	AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH AND USB AND AUXILIARY INPUTS, J1939	10	
747-001	DASH MOUNTED RADIO		
750-002	(2) RADIO SPEAKERS IN CAB		



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Data Code	Description	Weight Front	Weight Rear
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF		
748-006	POWER AND GROUND WIRING PROVISION OVERHEAD		
749-016	CB WIRING ONLY TO ROOF/OVERHEAD CONSOLE; NO MOUNTING PROVISION		
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
817-001	STANDARD VEHICLE SPEED SENSOR		
812-001	ELECTRONIC 3000 RPM TACHOMETER		
813-998	NO VEHICLE PERFORMANCE MONITOR	-5	
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP		
329-012	FOUR ON/OFF ROCKER SWITCHES IN THE DASH WITH INDICATOR LIGHTS AND WIRE ROUTED TO CHASSIS AT BACK OF CAB, LABEL OPT		
482-001	BW TRACTOR PROTECTION VALVE		
883-001	TRAILER HAND CONTROL BRAKE VALVE		
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
660-001	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY AND ARCTIC TYPE BLADES		
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH		
882-004	TWO VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR		
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE		
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS		

Design

* 065-000 PAINT: ONE SOLID COLOR
 980-6ZI F9885EB YELLOW ELITE BC

Color

980-2MM CAB COLOR A: L0824EB YELLOW ELITE BC
 986-020 BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT
 964-020 STANDARD BLACK BUMPER PAINT
 963-003 STANDARD E COAT/UNDERCOATING

Certification / Compliance



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Data Code	Description	Weight Front	Weight Rear
996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS		

Sales Programs

NO SALES PROGRAMS HAVE BEEN SELECTED

TOTAL VEHICLE SUMMARY

Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight*	8383 lbs	6877 lbs	15260 lbs
Dealer Installed Options	0 lbs	0 lbs	0 lbs
Total Weight*	8383 lbs	6877 lbs	15260 lbs

Extended Warranty

WAI-47J CUM 2017 L9: HD1 MD DTY 5 YEARS / 150,000 MILES / 241,500 KM EXTENDED WARRANTY. FEX APPLIES

WAX-102 CUM 2017 L9: AT3 MD DTY 5 YEARS / 150,000 MILES / 241,500 KM AFTERTREATMENT. FEX APPLIES

Dealer Installed Options

		Weight Front	Weight Rear
SSCLA	STAINLESS STEEL CLAMPS	0	0
Total Dealer Installed Options		0 lbs	0 lbs

(+) Weights shown are estimates only.

If weight is critical, contact Customer Application Engineering.



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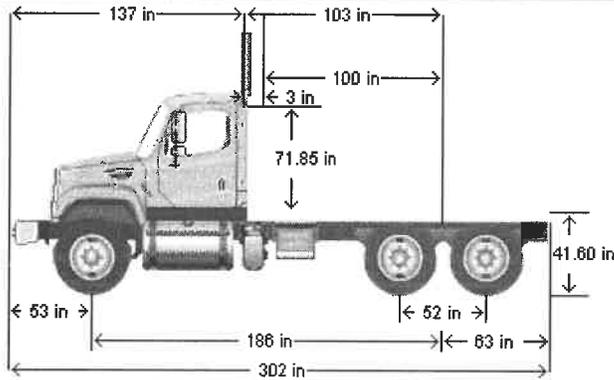
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D I M E N S I O N S



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model	114SD
Wheelbase (545)	4725MM (186 INCH) WHEELBASE
Rear Frame Overhang (552).....	1600MM (63 INCH) REAR FRAME OVERHANG
Fifth Wheel (578).....	NO FIFTH WHEEL
Mounting Location (577)	NO FIFTH WHEEL LOCATION
Maximum Forward Position (in).....	0
Maximum Rearward Position (in)	0
Amount of Slide Travel (in).....	0
Slide Increment (in).....	0
Desired Slide Position (in).....	0.0
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682).....	NO SLEEPER BOX/SLEEPERCAB
Exhaust System (016)	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE



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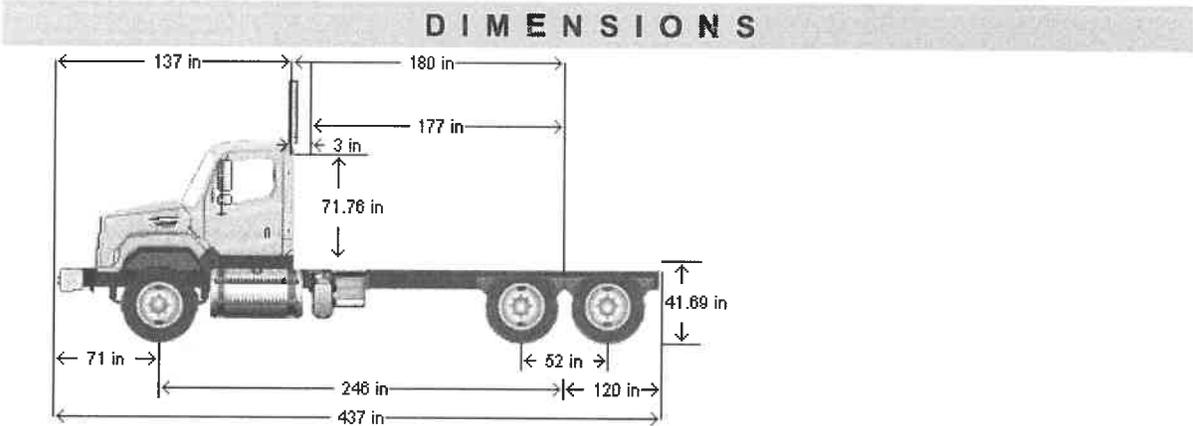
TABLE SUMMARY - DIMENSIONS

Dimensions	Inches
Bumper to Back of Cab (BBC)	137.0
Bumper to Centerline of Front Axle (BA)	53.5
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	102.5
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	99.5
Back of Cab Protrusions (Exhaust/Intake) (CP)	0.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	165.5
Cab Height (CH)	71.9
Wheelbase (WB)	186.0
Frame Overhang (OH)	63.0
Overall Length (OAL)	302.5
Rear Axle Spacing	52.0
Unladen Frame Height at Centerline of Rear Axle	41.6

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

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VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model	114SD
Wheelbase (545)	6250MM (246 INCH) WHEELBASE
Rear Frame Overhang (552).....	3050MM (120 INCH) REAR FRAME OVERHANG
Fifth Wheel (578).....	NO FIFTH WHEEL
Mounting Location (577)	NO FIFTH WHEEL LOCATION
Maximum Forward Position (in).....	0
Maximum Rearward Position (in).....	0
Amount of Slide Travel (in).....	0
Slide Increment (in).....	0
Desired Slide Position (in).....	0.0
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682).....	NO SLEEPER BOX/SLEEPERCAB
Exhaust System (016)	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE



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TABLE SUMMARY - DIMENSIONS

Dimensions	Inches
Bumper to Back of Cab (BBC)	136.8
Bumper to Centerline of Front Axle (BA)	71.3
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	180.4
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	177.4
Back of Cab Protrusions (Exhaust/Intake) (CP)	0.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	300.4
Cab Height (CH)	71.8
Wheelbase (WB)	246.0
Frame Overhang (OH)	120.0
Overall Length (OAL)	437.3
Rear Axle Spacing	52.0
Unladen Frame Height at Centerline of Rear Axle	41.7

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S P E C I F I C A T I O N P R O P O S A L

Data Code	Description	Weight Front	Weight Rear
Price Level			
PRL-18D	SD PRL-18D (EFF:04/17/18)		
Data Version			
DRL-008	SPECPRO21 DATA RELEASE VER 008		
Vehicle Configuration			
001-177	114SD CONVENTIONAL CHASSIS	7,934	6,576
004-220	2020 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK	480	-480
019-001	TRAILER TOWING PROVISION AT END OF FRAME FOR TRUCK	10	10
003-001	LH PRIMARY STEERING LOCATION		
General Service			
AA1-003	TRUCK/TRAILER CONFIGURATION		
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
A85-011	CONSTRUCTION SERVICE		
A84-1CO	CONSTRUCTION BUSINESS SEGMENT		
AA4-003	DRY BULK COMMODITY		
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
AB1-008	MAXIMUM 8% EXPECTED GRADE		
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
995-1A0	FREIGHTLINER SD VOCATIONAL WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 20000.0 lbs		
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 40000.0 lbs		



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Data Code	Description	Weight Front	Weight Rear
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 60000.0 lbs		
A70-99D	EXPECTED GROSS COMBINATION WEIGHT : 80000.0 lbs		
Truck Service			
AA3-005	FLATBED/PLATFORM/STAKE BODY		
AF3-2CD	WEST VIRGINIA TRACTOR		
Tractor Service			
AA2-005	FLATBED TRAILER		
AH6-001	SINGLE (1) TRAILER		
Engine			
101-22V	CUM L9 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM	-850	-70
Electronic Parameters			
79A-075	75 MPH ROAD SPEED LIMIT		
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
79K-002	PTO MODE ENGINE RPM LIMIT - 700 RPM		
79M-001	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED		
79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM		
79Q-002	PTO RPM WITH CRUISE RESUME SWITCH - 700 RPM		
79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH		
79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND		
80G-002	PTO MINIMUM RPM - 700		
80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH		
Engine Equipment			
99C-017	2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION		
99D-011	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)		
13E-001	STANDARD OIL PAN		
105-001	ENGINE MOUNTED OIL CHECK AND FILL		
014-1B5	SIDE OF HOOD AIR INTAKE WITH DONALDSON HIGH CAPACITY AIR CLEANER WITH SAFETY ELEMENT, FIREWALL MOUNTED		



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Data Code	Description	Weight Front	Weight Rear
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE		
292-071	(3) ALLIANCE MODEL 1231XOE, GROUP 31, 12 VOLT MAINTENANCE FREE 3375 CCA THREADED STUD BATTERIES		
290-017	BATTERY BOX FRAME MOUNTED		
281-001	STANDARD BATTERY JUMPERS		
282-002	SINGLE BATTERY BOX FRAME MOUNTED RH SIDE UNDER CAB		
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
289-001	NON-POLISHED BATTERY BOX COVER		
87P-001	CAB AUXILIARY POWER CABLE	5	
107-043	CUMMINS 30.4 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE		
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
128-1AN	C-BRAKE BY JACOBS WITH LOW/OFF/HIGH BRAKING DASH SWITCH, ACTIVATES STOP LAMPS	80	
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
239-038	11 FOOT 06 INCH (138 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT		
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
23U-002	13 GALLON DIESEL EXHAUST FLUID TANK		
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL		
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		
242-011	ALUMINUM AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD(S)		
273-018	HORTON DRIVEMASTER ADVANTAGE ON/OFF FAN DRIVE		
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		



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Data Code	Description	Weight Front	Weight Rear
110-003	CUMMINS SPIN ON FUEL FILTER		
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER		
266-017	1300 SQUARE INCH ALUMINUM RADIATOR	-20	
103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
172-007	GATES POWERGRIP SHRINK BAND HOSE CLAMPS WHERE POSSIBLE		
270-016	RADIATOR DRAIN VALVE		
168-002	LOWER RADIATOR GUARD	6	
138-011	PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4	
140-053	BLACK PLASTIC ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
132-004	ELECTRIC GRID AIR INTAKE WARMER		
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH	-10	

Transmission

342-582	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
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Transmission Equipment

343-339	ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV
84B-002	ALLISON VOCATIONAL RATING FOR CONCRETE MIXER APPLICATIONS ONLY AVAILABLE WITH 3000 PRODUCT FAMILIES
84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
84E-000	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84F-000	SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84G-000	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE



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 83 Brushy Fork Road
 Buckhannon, WV 26201
 Phone: 304-473-5354

Prepared by:
 Jackie Cummings
 MATHENY MOTOR TRUCK
 COMPANY
 50 Matheny Lane
 Mineral Wells, WV 26150
 Phone: 3044854418

Data Code	Description	Weight Front	Weight Rear
84H-000	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84L-000	LOAD BASED SHIFT SCHEDULE AND VEHICLE ACCELERATION CONTROL RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED VOCATIONAL USAGE		
84N-000	NEUTRAL AT STOP - DISABLED, FUELSense - DISABLED		
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		
84V-001	DIRECTION CHANGE ENABLED WITH MULTIPLEXED SERVICE BRAKES - ALLISON 5TH GEN TRANSMISSIONS		
34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED		
* 362-035	CUSTOMER INSTALLED CHELSEA 277 SERIES PTO		
	PLEASE ADD 362-1Y0 PER BODY BUILDER REQUEST		
N 363-011	PTO MOUNTING, LH AND RH SIDES OF MAIN TRANSMISSION		
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN		
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED		
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013		
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK	-15	
* 346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
	PLEASE ADD 346-013 PER BODY COMPANY REQUEST		
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		

Front Axle and Equipment

400-1BB	DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	210
402-030	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	10
403-002	NON-ASBESTOS FRONT BRAKE LINING	
419-023	CONMET CAST IRON FRONT BRAKE DRUMS	
409-006	FRONT OIL SEALS	
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL	



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Data Code	Description	Weight Front	Weight Rear
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES		
405-031	HALDEX AUTOMATIC FRONT SLACK ADJUSTERS WITH STAINLESS STEEL CLEVIS PINS		
406-001	STANDARD KING PIN BUSHINGS		
536-055	TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR	130	
539-003	POWER STEERING PUMP		
534-003	4 QUART POWER STEERING RESERVOIR		
533-001	OIL/AIR POWER STEERING COOLER		
40T-001	ORGANIC SAE 80/90 FRONT AXLE LUBE		
Front Suspension			
620-006	20,000# FLAT LEAF FRONT SUSPENSION	310	
619-004	GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION		
410-001	FRONT SHOCK ABSORBERS		
Rear Axle and Equipment			
420-1K3	MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE		-40
421-488	4.88 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-046	SPL140HD DANA SPICER MAIN DRIVELINE WITH HALF ROUND YOKES	25	25
388-012	SPL170 XL DANA SPICER INTERAXLE DRIVELINE WITH HALF ROUND YOKES		10
452-004	DRIVER CONTROLLED TRACTION DIFFERENTIAL - FORWARD TANDEM/TRIDEM REAR AXLE		10
878-020	(1) INTERAXLE LOCK VALVE AND (1) DRIVER CONTROLLED DIFFERENTIAL LOCK FORWARD-REAR VALVE		
87A-001	BLINKING LAMP WITH EACH INTERAXLE LOCK SWITCH, INTERAXLE UNLOCK DEFAULT WITH IGNITION OFF		
87B-004	BLINKING LAMP WITH EACH MODE SWITCH, DIFFERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE <5 MPH		
423-020	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
433-002	NON-ASBESTOS REAR BRAKE LINING		
434-019	ASPHALT SPREADER CLEARANCE REAR BRAKE GEOMETRY		



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Data Code	Description	Weight Front	Weight Rear
451-023	CONMET CAST IRON REAR BRAKE DRUMS		
440-006	REAR OIL SEALS		
426-1B3	BENDIX EVERSURE LONGSTROKE 2-DRIVE AXLES SPRING PARKING CHAMBERS		
428-031	HALDEX AUTOMATIC REAR SLACK ADJUSTERS WITH STAINLESS STEEL CLEVIS PINS		
41T-001	ORGANIC SAE 80/90 REAR AXLE LUBE		
42T-001	STANDARD REAR AXLE BREATHER(S)		
Rear Suspension			
622-006	40,000# 4-SPRING FLAT LEAF REAR SUSPENSION		
621-001	SPRING SUSPENSION - NO AXLE SPACERS		
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP		
624-011	52 INCH AXLE SPACING		
623-001	HEAVY DUTY FORE/AFT CONTROL RODS		
Brake System			
490-100	WABCO 4S/4M ABS WITHOUT TRACTION CONTROL		
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
904-001	FIBER BRAID PARKING BRAKE HOSE		
412-001	STANDARD BRAKE SYSTEM VALVES		
46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM		
413-002	STD U.S. FRONT BRAKE VALVE		
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
480-088	WABCO SYSTEM SAVER HP WITH INTEGRAL AIR GOVERNOR AND HEATER		
479-015	AIR DRYER FRAME MOUNTED		
460-007	ALUMINUM AIR BRAKE RESERVOIRS	-15	-15
607-001	CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET, BOTH RAILS OUTBOARD		
477-001	PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS		
Trailer Connections			
914-001	AIR CONNECTIONS TO END OF FRAME WITH GLAD HANDS FOR TRUCK AND NO DUST COVERS		



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Data Code	Description	Weight Front	Weight Rear
296-027	PRIMARY CONNECTOR/RECEPTACLE WIRED FOR COMBINATION STOP/TURN, CENTER PIN POWERED THROUGH IGNITION WITH STOP SIGNAL PREWIRE PACKAGE		
297-001	SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME		
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT		
303-001	7-WAY RECEPTACLE END OF FRAME (IN ADDITION TO STANDARD)	5	5
Wheelbase & Frame			
545-625	6250MM (246 INCH) WHEELBASE		
546-102	7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI	650	120
547-001	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT	250	430
552-009	3050MM (120 INCH) REAR FRAME OVERHANG		
55W-011	FRAME OVERHANG RANGE: 111 INCH TO 120 INCH	-120	510
549-002	24 INCH INTEGRAL FRONT FRAME EXTENSION	140	-20
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 180.45 in		
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 177.45 in		
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 435.81		
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 180.45 in		
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 93.9 in		
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 115.68 in		
553-001	SQUARE END OF FRAME		
550-001	FRONT CLOSING CROSSMEMBER		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)		
572-063	STANDARD REARMOST CROSSMEMBER WITH DOUBLE STANDARD CROSSMEMBER SPACING		
565-001	STANDARD SUSPENSION CROSSMEMBER		
Chassis Equipment			
556-1E5	14 INCH PAINTED STEEL BUMPER	20	
558-001	FRONT TOW HOOKS - FRAME MOUNTED	15	
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE		



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Data Code	Description	Weight Front	Weight Rear
551-017	GRADE 8 THREADED HEX HEADED FRAME FASTENERS INSTALLED WITH BOLT HEADS ON OUTSIDE OF FRAME		
605-103	D15-28195-000 CENTER PUNCH TO MARK CENTERLINE OF REAR SUSPENSION ON TOP FLANGE OF FRAME		
Fuel Tanks			
204-156	100 GALLON/378 LITER ALUMINUM FUEL TANK - LH	20	
218-006	25 INCH DIAMETER FUEL TANK(S)		
215-007	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH POLISHED STAINLESS STEEL BANDS		
212-007	FUEL TANK(S) FORWARD		
664-001	PLAIN STEP FINISH		
205-001	FUEL TANK CAP(S)		
122-1H8	DAVCO 245 FUEL/WATER SEPARATOR WITH 12 VOLT HEAT AND WATER IN FUEL SENSOR	20	
216-020	EQUIFLO INBOARD FUEL SYSTEM		
11F-998	NO NATURAL GAS VEHICLE FUEL TANK VENT LINE/STACK		
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
Tires			
093-1R8	GOODYEAR G289 WHA 315/80R22.5 20 PLY RADIAL FRONT TIRES	86	
094-0JT	GOODYEAR G182 RSD 11R22.5 14 PLY RADIAL REAR TIRES		176
Hubs			
418-058	CONMET PRESET PLUS PREMIUM ALUMINUM FRONT HUBS	-50	
450-058	CONMET PRESET PLUS PREMIUM ALUMINUM REAR HUBS		-60
Wheels			
502-664	ALCOA ULTRA ONE 89U63X 22.5X9.00 10-HUB PILOT 3.12 INSET 10-HD ALUMINUM FRONT WHEELS	-44	
505-1EF	ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS		-200
* 524-022	POLISHED DISC SIDE FRONT WHEELS WITH DURA-BRIGHT FINISH		
	524-020 UNPOLISHED FRONT WHEELS WITH DURABRIGHT FINISH		



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Data Code	Description	Weight Front	Weight Rear
*	525-006 POLISHED REAR WHEELS - OUTSIDE & INSIDE (DISHED SIDES)		
	525-021 UNPOLISHED REAR WHEELS WITH ALL DURABRIGHT FINISH		
498-011	NYLON WHEEL GUARDS FRONT AND REAR ALL INTERFACES		
Cab Exterior			
829-1A2	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
650-008	AIR CAB MOUNTING		
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
667-004	FRONT FENDERS SET-BACK AXLE		
754-017	BOLT-ON MOLDED FLEXIBLE FENDER EXTENSIONS	10	
678-001	LH AND RH GRAB HANDLES		
646-041	STATIONARY BLACK GRILLE		
65X-004	BLACK HOOD MOUNTED AIR INTAKE GRILLE		
644-004	FIBERGLASS HOOD		
690-017	HOOD LINER, ADDED FIREWALL AND FLOOR HEAT INSULATION	5	
727-1AF	SINGLE 14 INCH ROUND HADLEY AIR HORN UNDER LH DECK		
726-001	SINGLE ELECTRIC HORN		
728-001	SINGLE HORN SHIELD		
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		
312-068	HALOGEN COMPOSITE HEADLAMPS WITH BLACK BEZELS		
302-047	LED AERODYNAMIC MARKER LIGHTS		
311-012	DAYTIME RUNNING LIGHTS - LOW BEAM ONLY		
294-001	INTEGRAL STOP/TAIL/BACKUP LIGHTS		
300-015	STANDARD FRONT TURN SIGNAL LAMPS		
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE		
797-001	DOOR MOUNTED MIRRORS		
796-001	102 INCH EQUIPMENT WIDTH		
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
74A-001	RH DOWN VIEW MIRROR		
729-001	STANDARD SIDE/REAR REFLECTORS		



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Data Code	Description	Weight Front	Weight Rear
768-043	63X14 INCH TINTED REAR WINDOW		
661-004	TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS		
654-027	RH AND LH ELECTRIC POWERED WINDOWS, PASSENGER SWITCHES ON DOOR(S)	4	
663-029	1-PIECE TINTED CURVED BONDED WINDSHIELD WITH HEATED WIPER BLADE PARK AREAS		
659-006	8 LITER WINDSHIELD WASHER RESERVOIR, CAB MOUNTED, WITH FLUID LEVEL INDICATOR		
Cab Interior			
707-1AK	OPAL GRAY VINYL INTERIOR		
706-013	MOLDED PLASTIC DOOR PANEL		
708-013	MOLDED PLASTIC DOOR PANEL		
772-006	BLACK MATS WITH SINGLE INSULATION		
785-004	DASH MOUNTED ASH TRAY(S) WITHOUT LIGHTER		
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING		
742-007	(2) CUP HOLDERS LH AND RH DASH		
680-007	GRAY/CHARCOAL WING DASH		
860-004	SMART SWITCH EXPANSION MODULE		
720-003	5 LB. FIRE EXTINGUISHER	10	
700-002	HEATER, DEFROSTER AND AIR CONDITIONER		
701-001	STANDARD HVAC DUCTING		
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
170-015	STANDARD HEATER PLUMBING		
130-033	DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR		
702-002	BINARY CONTROL, R-134A		
739-034	PREMIUM INSULATION		
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES		
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM		
324-011	DOME DOOR ACTIVATED LH AND RH, DUAL READING LIGHTS, FORWARD CAB ROOF		
655-005	LH AND RH ELECTRIC DOOR LOCKS		
284-023	(1) 12 VOLT POWER SUPPLY IN DASH		
722-002	TRIANGULAR REFLECTORS WITHOUT FLARES	10	



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Data Code	Description	Weight Front	Weight Rear
756-1D9	PREMIUM HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT, ADJUSTABLE SHOCK ABSORBER	70	
760-1D9	PREMIUM HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT, ADJUSTABLE SHOCK ABSORBER	60	20
759-005	DUAL DRIVER AND PASSENGER SEAT ARMRESTS	8	
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
758-014	BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER		
761-014	BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER		
763-101	BLACK SEAT BELTS		
532-001	FIXED STEERING COLUMN		
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL		
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		

Instruments & Controls

732-004	GRAY DRIVER INSTRUMENT PANEL		
734-004	GRAY CENTER INSTRUMENT PANEL		
87L-001	ENGINE REMOTE INTERFACE WITH PARK BRAKE INTERLOCK		
870-001	BLACK GAUGE BEZELS		
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM		
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
198-003	DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS		
149-017	ELECTRONIC CRUISE CONTROL WITH SWITCHES ON AUXILIARY GAUGE PANEL (B DASH PANEL)		
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED		
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		



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Data Code	Description	Weight Front	Weight Rear
844-001	2 INCH ELECTRIC FUEL GAUGE		
148-074	ENGINE REMOTE INTERFACE NOT CONFIGURED		
163-004	ENGINE REMOTE INTERFACE CONNECTOR IN ENGINE COMPARTMENT		
* 33U-007	CHASSIS MODULE JUMPER AND BRACKET FOR BODY BUILDER TO RELOCATE THE CHASSIS MODULE INTO THE CAB PLEASE ADD 33U-011 AND 33U-006 PER BODY COMPANY REQUEST		
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
372-051	CUSTOMER FURNISHED AND INSTALLED PTO CONTROLS		
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
679-001	OVERHEAD INSTRUMENT PANEL		
746-115	AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH AND USB AND AUXILIARY INPUTS, J1939	10	
747-001	DASH MOUNTED RADIO		
750-002	(2) RADIO SPEAKERS IN CAB		
* 753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF 753-008		
748-006	POWER AND GROUND WIRING PROVISION OVERHEAD		
749-016	CB WIRING ONLY TO ROOF/OVERHEAD CONSOLE; NO MOUNTING PROVISION		
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
817-001	STANDARD VEHICLE SPEED SENSOR		
812-001	ELECTRONIC 3000 RPM TACHOMETER		
813-998	NO VEHICLE PERFORMANCE MONITOR	-5	
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP		
329-077	EIGHT ON/OFF ROCKER SWITCHES IN THE DASH WITH INDICATOR LIGHTS; FOUR WIRE TO CHASSIS AT BACK OF CAB, FOUR UNWIRED, LABEL ALL OPT		
482-001	BW TRACTOR PROTECTION VALVE		
883-001	TRAILER HAND CONTROL BRAKE VALVE		



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Data Code	Description	Weight Front	Weight Rear
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
660-001	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY AND ARCTIC TYPE BLADES		
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH		
882-004	TWO VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR		
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE		
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS		

Design

* 065-000	PAINT: ONE SOLID COLOR 980-6ZI F9885EB YELLOW ELITE BC		
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Color

980-2MM	CAB COLOR A: L0824EB YELLOW ELITE BC		
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT		
964-020	STANDARD BLACK BUMPER PAINT		
963-003	STANDARD E COAT/UNDERCOATING		

Certification / Compliance

996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS		
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Sales Programs

NO SALES PROGRAMS HAVE BEEN SELECTED

TOTAL VEHICLE SUMMARY

Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight*	9498 lbs	7032 lbs	16530 lbs
Dealer Installed Options	0 lbs	0 lbs	0 lbs
Total Weight*	9498 lbs	7032 lbs	16530 lbs



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Extended Warranty

WAI-47J	CUM 2017 L9: HD1 MD DTY 5 YEARS / 150,000 MILES / 241,500 KM EXTENDED WARRANTY. FEX APPLIES
WAX-102	CUM 2017 L9: AT3 MD DTY 5 YEARS / 150,000 MILES / 241,500 KM AFTERTREATMENT. FEX APPLIES

Dealer Installed Options

		Weight	Weight
		Front	Rear
SSCLA	STAINLESS STEEL CLAMPS	0	0
XAXLE	EXTENDED AXLE COVERAGE	0	0
BRAKE	ELECTRONIC BRAKE CONTROLLER PDI	0	0
ANTEN	SEPARATE CB ANTENNA	0	0
YPLUG	Y PLUG FOR BLOCK HEATER RECEPTACLE TO WORK BOTH BLOCK HEATER AND FUEL WATER SEPERATOR PREHEATER.	0	0
Total Dealer Installed Options		0 lbs	0 lbs

(+) Weights shown are estimates only.

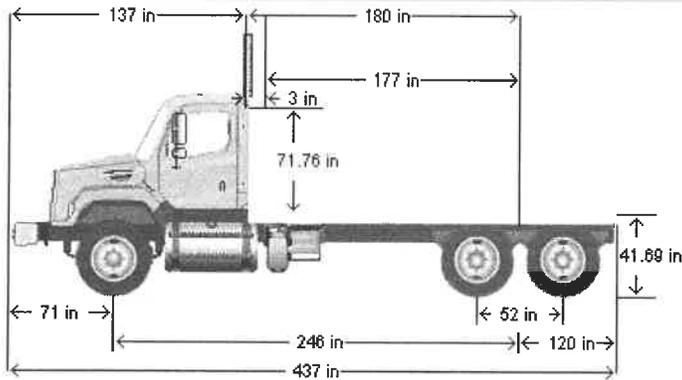
If weight is critical, contact Customer Application Engineering.



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D I M E N S I O N S



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model	114SD
Wheelbase (545)	6250MM (246 INCH) WHEELBASE
Rear Frame Overhang (552).....	3050MM (120 INCH) REAR FRAME OVERHANG
Fifth Wheel (578).....	NO FIFTH WHEEL
Mounting Location (577)	NO FIFTH WHEEL LOCATION
Maximum Forward Position (in).....	0
Maximum Rearward Position (in)	0
Amount of Slide Travel (in).....	0
Slide Increment (in).....	0
Desired Slide Position (in).....	0.0
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682).....	NO SLEEPER BOX/SLEEPER/CAB
Exhaust System (016)	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE



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TABLE SUMMARY - DIMENSIONS

Dimensions	Inches
Bumper to Back of Cab (BBC)	136.8
Bumper to Centerline of Front Axle (BA)	71.3
Min Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	180.4
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	177.4
Back of Cab Protrusions (Exhaust/Intake) (CP)	0.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	300.4
Cab Height (CH)	71.8
Wheelbase (WB)	246.0
Frame Overhang (OH)	120.0
Overall Length (OAL)	437.3
Rear Axle Spacing	52.0
Unladen Frame Height at Centerline of Rear Axle	41.7

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

