

P/C 5/2/17 Service  
Cau 5/9/17  
1st R 5/16/17  
2nd R 6/16/17  
3rd R  
B/C

CITY OF BROOK PARK, OHIO

ORDINANCE NO: 10082-2017

INTRODUCED BY: MAYOR COYNE

AN ORDINANCE  
AUTHORIZING THE MAYOR TO ENTER INTO AN AGREEMENT WITH  
HENDERSON PRODUCTS, FOR THE PURCHASE OF ONE 2018 DUMP BODY  
AND PLOW PACKAGE FOR WESTERN STAR TRUCK  
AND DECLARING AN EMERGENCY

WHEREAS, the Mayor has determined that the Service Department for the City is in need of a new dump body and plow package to properly maintain our City streets; and

WHEREAS, the City of Brook Park is a member of the National Joint Powers Alliance ("NJPA") which is an organization that creates national cooperative contract purchasing solutions for its member agencies; and

WHEREAS, Henderson Products is an Ohio truck equipment vendor that has been authorized by the NJPA to provide trucks and truck equipment to NJPA members.

NOW, THEREFORE, BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: Pursuant to Section 7.04(h) of the Charter of the City of Brook Park, the Mayor is authorized to enter into an Agreement with Henderson Products for the purchase of one new 2018 dump body and plow package; a proposal for said truck and equipment is attached hereto and incorporated herein as Exhibit "A."

SECTION 2: The money needed for the aforesaid transaction shall be paid from funds theretofore appropriated or to be appropriated for said purpose; the total amount of the purchase of said dump body and plow is \$57,153.00 and to be paid from the Capital Improvement Fund 401.

SECTION 3: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this

Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

**SECTION 4:** This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reason to allow the City to purchase one dump body & plow package; provided this ordinance receives the affirmative vote of at least five (5) members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PASSED: June 17, 2017 \_\_\_\_\_  
Jim Costello  
PRESIDENT OF COUNCIL

ATTEST: Michelle Blazak APPROVED: \_\_\_\_\_  
 Clerk of Council MAYOR

6/6/2017  
DATE

I HEREBY APPROVE THE WITHIN INSTRUMENT AS TO LEGAL FORM AND CORRECTNESS  
[Signature]  
 DIRECTOR OF LAW

	Yea	Nay
Troyer	<input checked="" type="checkbox"/>	_____
Mencini	<input checked="" type="checkbox"/>	_____
Powers	<input checked="" type="checkbox"/>	_____
Scott	<input checked="" type="checkbox"/>	_____
Burgio	<input checked="" type="checkbox"/>	_____
McDonnell	<input checked="" type="checkbox"/>	_____
Salvatore	<input checked="" type="checkbox"/>	_____

CERTIFICATE  
 Michelle Blazak, Clerk of Council, of the City of Brook Park, Ohio, do hereby certify that the foregoing is a true and accurate copy of Ordinance/Resolution No. 10082-2017 passed on the 10th day of June 2017 by said council.  
Michelle Blazak  
 Clerk of Council

I, Michelle Blazak, Clerk of Council for the City of Brook Park, State of Ohio, do hereby certify that there is no newspaper of general circulation in the municipality and that publication of the foregoing ordinances/resolutions was made by posting true copies at six of the most public places in said municipality as determined by Ordinance No. 4838-1975; location City Hall 6161 Engle Road, Police Station 17401 Holland Road, #1 Fire Station 5590 Smith Road, #2 Fire Station 22530 Ruple Parkway, #3 Fire Station 17401 Holland Road, Brook Park Library 6165 Engle Road, for a period of fifteen days, commencing June 7, 2017.  
Michelle Blazak  
 MICHELLE BLAZAK  
 Clerk of Council



CITY OF BROOKPARK  
PLOW TRUCK PACKAGE  
NJPA PRINCING

2-1-2017

***HENDERSON PRODUCTS-OH IS PLEASED TO PROVIDE YOU WITH THE  
FOLLOWING QUOTE***

*HENDERSON PRODUCTS IS A DIVISION OF HENDERSON MANUFACTURING AND THUS ALLOWS US  
THE ABILITY TO FOCUS ON A SPECIFIC PRODUCT LINE, HENDERSON. OUR OHIO FACILITY ONLY  
INSTALLS HENDERSON PRODUCTS AND THEREFORE WE ARE ABLE TO OFFER A SUPERIOR  
INSTALLATION AND SERVICE TO OUR CUSTOMERS.*

**SNOW PLOW HITCH**

- HENDERSON MODEL HFF-LP -QCC FRONT FRAME SNOW PLOW HITCH
- HENDERSON QUICK HITCH WITH PIN AND LOOP
- ALL ½" WALLED TUBULAR CONSTRUCTION
- GREASEABLE TOP PIVOT PINS AND DROP PIN
- HENDERSON FULL 5/8" STEEL SIDE PLATES
- 5 POSITION TELESCOPIC LIFT ARM
- SANDBLASTED AND PRIMED

**DUMP BODY**

- HENDERSON 11' STAINLESS STEEL DUMP BODY
- CROSSMEMBERLESS-UNIBODY DESIGN
- 7GA. 2B STAINLESS STEEL
- SLOPED LOWER DIRT SHEDDING RUB RAIL.
- 11' LONG
- 7' WIDTH
- 36" SIDES
- 44 " AIR TAILGATE
- (3) HORIZONTAL BRACES ON TAILGATE
- GREASEABLE TAILGATE JAWS AND LINKAGES
- ¼" AR400 STEEL FLOOR 200,000 PSI
- SLOPED BOX TOP RAIL
- (2) HORIZONTAL VEE CRIMP SIDE BRACES
- (1) COAL DOOR IN TAILGATE
- 8" REAR APRON
- FULL DEPTH REAR CORNER POST
- 4" SIDE TO FLOOR RADIUS
- ONE PIECE FRONT CORNER POST
- 22" X 86" FULLY WELDED
- WALK RAILS/STEP OVER LADDER
- STAINLESS STEEL FOLD OUT LADDER
- ALL LED FMVSS # 108 MARKER LIGHTS
- INSTALLED AND NOT PAINTED



## HOIST

- HENDERSON MODEL CS FRONT TELESCOPIC MAILHOT HOIST
- 29 TON CAPACITY
- 12" DOGHOUSE IN-FRONT OF BODY
- 9" MOUNTING HEIGHT
- FULL DOUBLE ACTING HOIST
- GREASEABLE REAR PINS
- INSTALLED
- BODY AND HOIST INSTALLED 100% TO YOUR SPECIFICATIONS-NO EXCEPTIONS

## HENDERSON FSH2 V-HOPPER

- 11' LONG
- 56" HIGH SIDES
- 7GA. STAINLESS STEEL CONSTRUCTION
- DUAL AUGER
- TOP GRATE SCREENS
- FRONT BEARING GREASE TUBES EXTENDED TO REAR
- INVERTED VEE
- TILT UP SPINNER CHUTE
- DUMP BODY HOLD DOWN KIT
- TRUNNION LATCH KIT
- INSTALLED

## CENTRAL HYDRAULIC SYSTEM

- CERTIFIED POWER-STORMGUARD/LOAD SENSING SYSTEM
- DANFOSS TRANSMISSION MOUNT PUMP AND WET SPLINE PTO
- DANFOSS MODEL PVG 32 CONTROL VALVE  
CONTROL VALVE TO RUN BODY/SNOW PLOW/SPREADER
- STORMGUARD CUSTOM STAND MODEL MULTIGUARD WITH CABLE CONTROL HANDLES
- HENDERSON STEEL FLOOR PLATE
- DUAL KNOB MANUAL SPREADER CONTROL SYSTEM
- HENDERSON 30-GALLON STEEL OIL RESERVOIR
- ALL WEATHERHEAD"RHINO-GUARD" HOSES AND FITTING WITH STAINLESS STEEL QUICK COUPLERS
- ALL PRESSURE HOSES SAE 100R2
- ALL FITTING JIC STYLE
- MID-STATE STAINLESS STEEL REAR TUBES FOR SPREADER
- MID-STATE STAINLESS STEEL FRONT TUBES FOR PLOW OPERATION
- INSTALLED 100% TO YOUR SPECIFICATIONS-NO EXCEPTIONS

## MISC EQUIPMENT

- MUD FLAPS IN FRONT AND BEHIND REAR AXLE
- PLOWS LIGHTS MOUNTED TO HOOD ON STAINLESS STEEL BRACKETS
- BODY UP LIGHT

- POWER PANEL MOUNTED TO BACK OF CAB
- 8 AMBER LED STROBES MOUNTED IN BODY
- UNDER COATED TRUCK FRAME AND BODY

**INSTALLATION AND WARRANTY**

- **2 FULL YEAR WARRANTY ON ALL EQUIPMENT**
- ALL MOUNTING TO BE 100% TO YOUR SPECIFICATIONS-NO EXCEPTIONS
- PRE-BUILD MEETING AT OUR FACILITY REQUIRED PRIOR TO START OF BUILD
- HENDERSON TRUCK EQUIPMENT WILL HANDLE ALL TRANSPORTATION AND REPAIRS TO VEHICLE FOR WARRANTY AND SERVICE WORK IN A TIMELY MANNER
- ALL EQUIPMENT WILL BE INSTALLED BY A SINGLE BODY COMPANY BY OUR EMPLOYEES AT OUR FACILITY.
- ALL EQUIPMENT IS ENGINEERED BY A SINGLE MANUFACTURER, HENDERSON PRODUCTS INC.
- INSTALLATION OF COMPONENTS WILL NOT BE SUBCONTRACTED BY THE BODY COMPANY TO OTHERS
- NO WELDING TO BE DONE ON CHASSIS FRAME BETWEEN FRONT OF MOST FORWARD SPRING HANGER AND REAR OF REARMOST SPRING HANGER.
- COPY OF CENTRAL HYDRAULIC SYSTEM SCHEMATIC WILL BE FURNISHED UPON COMPLETION
- COPY OF WIRING SCHEMATIC WILL BE FURNISHED UPON COMPLETION
- PARTS AND SERVICE MANUALS FOR ALL COMPONENTS WILL BE FURNISHED UPON COMPLETION
- VEHICLE TO BE CERTIFIED TO MEET ALL FEDERAL MOTOR VEHICLE SAFETY STANDARDS
- HENDERSON TO CONDUCT OPERATOR TRAINING SESSION AT YOUR FACILITY AFTER DELIVERY OF COMPLETED TRUCK
- SNOW AND ICE CONTROL REFERENCES AVAILABLE UPON REQUEST

**FULL PACKAGE INSTALLED \$57,153.00 NET YOUR COST**

**HENDERSON PRODUCTS-OHIO  
COLLIN SCHIFER-OHIO SALES REP**

CONTRACT ACCEPTANCE: \_\_\_\_\_ DATE: \_\_\_\_\_

TITLE: \_\_\_\_\_ PURCHASE ORDER #: \_\_\_\_\_



**HENDERSON PRODUCTS – OH  
NJPA CONTRACT HOLDER/CONTRACT #080114-HPI**

• PH: 419-617-7509 • FAX: 563-927-7002 • hendersonproducts.com

Prepared for:  
John Pensis  
City of Brook Park -- ODOT CO-  
OP Purchasing  
19065 Holland Road  
Brook Park, OH 44142  
Phone: 440-227-4159

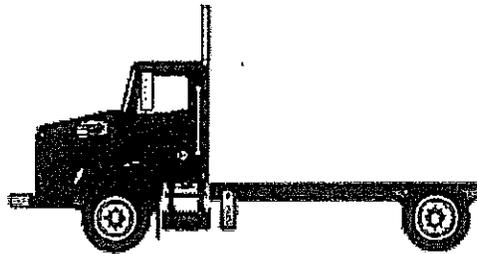
Prepared by:  
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KINSTLE WESTERN STAR  
TRUCK CENTER  
1770 WAPAK FISHER RD.  
WAPAKONETA, OH 45895  
Phone: 419-738-9684

*A proposal for*  
**City of Brook Park -- ODOT CO-OP Purchasing**

*Prepared by*  
**KINSTLE WESTERN STAR TRUCK CENTER**  
*Dave Hibner*

*Apr 04, 2017*

**Western Star 4700SB**



Components shown may not reflect all spec'd options and are not to scale

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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

Description	Weight Front	Weight Rear
<b>Price Level</b>		
WESTERN STAR 4700 PRL-15T (EFF:10/25/16)		
<b>Data Version</b>		
SPECPRO21 DATA RELEASE VER 018		
<b>Vehicle Configuration</b>		
4700 SET-BACK FRONT AXLE CHASSIS	9,215	6,630
2018 MODEL YEAR SPECIFIED		
SET BACK AXLE - TRUCK		
STRAIGHT TRUCK PROVISION		
LH PRIMARY STEERING LOCATION		
<b>General Service</b>		
TRUCK CONFIGURATION		
DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
CONSTRUCTION SERVICE		
GOVERNMENT BUSINESS SEGMENT		
DIRT/SAND/ROCK COMMODITY		
TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
MAXIMUM 8% EXPECTED GRADE		
SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
WESTERN STAR VOCATIONAL WARRANTY		
EXPECTED FRONT AXLE(S) LOAD : 14700.0 lbs		
EXPECTED REAR DRIVE AXLE(S) LOAD : 23000.0 lbs		
EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 37700.0 lbs		
<b>Truck Service</b>		
FRONT PLOW/END DUMP BODY		



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Description	Weight Front	Weight Rear
EXPECTED TRUCK BODY LENGTH: 11.0 ft		
<b>Engine:</b>		
CUM L9 330 HP @ 2000 RPM, 2200 GOV RPM, 1000 LB/FT @ 1400 RPM	-850	-70
<b>Electronic Parameters:</b>		
75 MPH ROAD SPEED LIMIT		
CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
PTO RPM WITH CRUISE SET SWITCH - 700 RPM		
PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM		
PTO MODE CANCEL VEHICLE SPEED - 5 MPH		
PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND		
PTO MINIMUM RPM - 700		
REGEN INHIBIT SPEED THRESHOLD - 5 MPH		
<b>Engine Equipment</b>		
2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION		
2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)		
STANDARD OIL PAN		
ENGINE MOUNTED OIL CHECK AND FILL ONE PIECE VALVE COVER		
SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER WITH SAFETY ELEMENT AND INSIDE/OUTSIDE AIR WITH SNOW DOOR	10	
DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE		
(3) ALLIANCE ABSORBED GLASS MAT MODEL 7A31, GROUP 31, 12 VOLT MAINTENANCE FREE 2190 CCA THREADED STUD BATTERIES		
PASSENGER SEAT BATTERY BOX VENTED TO OUTSIDE OF CAB		
BATTERY BOX MOUNTED UNDER PASSENGER SEAT		
WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
PLASTIC BATTERY BOX COVER		

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Description	Weight Front	Weight Rear
POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	8	
CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE		
AIR COMPRESSOR DISCHARGE LINE		
ELECTRONIC ENGINE INTEGRAL WARNING AND DERATE PROTECTION SYSTEM		
CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH	20	
RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE		
ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
10 FOOT 06 INCH (126 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT		
RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
6 GALLON DIESEL EXHAUST FLUID TANK		
100 PERCENT DIESEL EXHAUST FLUID FILL		
STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD		
HORTON DRIVEMASTER ADVANTAGE ON/OFF FAN DRIVE		
AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		
CUMMINS SPIN ON FUEL FILTER		
COMBINATION FULL FLOW/BYPASS OIL FILTER		
1300 SQUARE INCH ALUMINUM RADIATOR MOUNTING FOR FIREWALL MOUNTED SURGE TANK	-20	
ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		



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Description	Weight Front	Weight Rear
CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
RADIATOR DRAIN VALVE		
NO RADIATOR/OIL PAN GUARD	-5	
PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4	
NO OIL PREHEATER		
CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
ALUMINUM FLYWHEEL HOUSING		
ELECTRIC GRID AIR INTAKE WARMER		
DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH	-10	

**Transmission**

ALLISON 3500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	-110	-35
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**Transmission Equipment**

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

ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES

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

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

S1 PERFORMANCE PRIMARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY

S2 PERFORMANCE 2 SECONDARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY

PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE

SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE



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Description	Weight Front	Weight Rear
LOAD BASED SHIFT SCHEDULE AND VEHICLE ACCELERATION CONTROL RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED VOCATIONAL USAGE		
MAXIMUM ENGINE SPEED FOR PTO OPERATION 3000 RPM - ALLISON 5TH GEN TRANSMISSIONS		
MAXIMUM OUTPUT SPEED FOR PTO ENGAGEMENT 4000 RPM - ALLISON 5TH GEN TRANSMISSIONS		
MAXIMUM OUTPUT SPEED FOR PTO OPERATION 4000 RPM - ALLISON 5TH GEN TRANSMISSIONS		
150 AMP SERVICE FOR BODY BUILDER INSTALLED COMPONENTS		
ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR, BLUNT CUT, MOUNTED BETWEEN DRIVER AND PASSENGER SEATS		
CUSTOMER INSTALLED CHELSEA 277 SERIES PTO		
PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION		
MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN		
PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED		
TRANSMISSION PROGNOSTICS - ENABLED 2013		
WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK		
TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		

Front Axle and Equipment		
MFS-14-143A 14,700# FF1 71.5 INCH KPI/3.74 INCH DROP SINGLE FRONT AXLE	-130	
MERITOR 16.5X5 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	-10	
NON-ASBESTOS FRONT BRAKE LINING		
CONMET CAST IRON FRONT BRAKE DRUMS		
SKF SCOTSEAL PLUS XL FRONT OIL SEALS		
VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		



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Description	Weight Front	Weight Rear
STANDARD SPINDLE NUTS FOR ALL AXLES		
MERITOR AUTOMATIC FRONT SLACK ADJUSTERS		
STANDARD KING PIN BUSHINGS		
TRW TAS-85 POWER STEERING		
POWER STEERING PUMP		
4 QUART POWER STEERING RESERVOIR	5	
SYNTHETIC 50W FRONT AXLE LUBE		
<b>Front Suspension</b>		
16,000# FLAT LEAF FRONT SUSPENSION		
GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION		
FRONT SHOCK ABSORBERS		
<b>Rear Axle and Equipment</b>		
RS-23-160 23,000# R-SERIES SINGLE REAR AXLE		-2,310
6.14 REAR AXLE RATIO		
IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	-60	-60
DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE		20
(1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE		
INDICATOR LIGHT FOR EACH DRIVER CONTROLLED TRACTION DEVICE SWITCH		
MERITOR 16.5X7 Q+ CAST SPIDER HEAVY DUTY CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
NON-ASBESTOS REAR BRAKE LINING		
BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S)		
CONMET CAST IRON REAR BRAKE DRUMS		
REAR BRAKE DUST SHIELDS		5
SKF SCOTSEAL PLUS XL REAR OIL SEALS		
HALDEX GOLDSEAL LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS		-20
MERITOR AUTOMATIC REAR SLACK ADJUSTERS		
SYNTHETIC 75W-90 REAR AXLE LUBE		



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Description	Weight Front	Weight Rear
<b>Rear Suspension</b>		
30,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD		150
SPRING SUSPENSION - NO AXLE SPACERS		
STANDARD AXLE SEATS IN AXLE CLAMP GROUP		
FORE/AFT CONTROL RODS		
<b>Brake System</b>		
WABCO 4S/4M ABS WITHOUT TRACTION CONTROL		
REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
FIBER BRAID PARKING BRAKE HOSE		
STANDARD BRAKE SYSTEM VALVES		
RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
WABCO SS-1200 PLUS AIR DRYER WITH INTEGRAL AIR GOVERNOR AND HEATER		
WABCO OIL COALESCING FILTER FOR AIR DRYER		
AIR DRYER MOUNTED INBOARD ON LH RAIL		
STEEL AIR TANKS MOUNTED BELOW FRAME RAILS	5	5
PETCOCK DRAIN VALVES ON ALL AIR TANK(S)		
<b>Wheelbase &amp; Frame</b>		
4050MM (159 INCH) WHEELBASE		
11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI		
PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION	195	-5
BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW		
1275MM (50 INCH) REAR FRAME OVERHANG		
FRAME OVERHANG RANGE: 41 INCH TO 50 INCH	10	-90
12 INCH INTEGRAL FRONT FRAME EXTENSION	95	-10
CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 95.69 In		
CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 92.69 In		



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Description	Weight Front	Weight Rear
CALC'D FRAME LENGTH - OVERALL : 266.6		
CALC'D SPACE AVAILABLE FOR DECKPLATE : 95.69 In		
CALCULATED FRAME SPACE LH SIDE : 58.22 In		
CALCULATED FRAME SPACE RH SIDE : 126.8 In		
SQUARE END OF FRAME		
STANDARD WEIGHT ENGINE CROSSMEMBER		
STANDARD CROSSMEMBER BACK OF TRANSMISSION		
STANDARD MIDSHIP #1 CROSSMEMBER(S)		
STANDARD REARMOST CROSSMEMBER		
HEAVY DUTY SUSPENSION CROSSMEMBER		
STANDARD WEIGHT REAR SUSPENSION CROSSMEMBER		
<b>Chassis Equipment</b>		
14 INCH CHROMED STEEL BUMPER		
FRONT ANTI-SPRAY CAB MOUNTED MUDFLAPS		
GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
NO SPECIFIED HARNESS COVERING		
<b>Fuel Tanks</b>		
60 GALLON/227 LITER ALUMINUM FUEL TANK - LH		
26 INCH DIAMETER FUEL TANK(S)		
PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
FUEL TANK(S) FORWARD		
PLAIN STEP FINISH		
FUEL TANK CAP(S)		
DAVCO 245 FUEL/WATER SEPARATOR WITH 12 VOLT HEAT AND WATER IN FUEL SENSOR	20	
EQUIFLO INBOARD FUEL SYSTEM		
HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
NO FUEL COOLER	-10	
<b>Tires</b>		
CONTINENTAL HSC1 12R22.5 16 PLY RADIAL FRONT TIRES	50	



Prepared for:  
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 OP Purchasing  
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Description	Weight Front	Weight Rear
CONTINENTAL HDC1 11R22.5 16 PLY RADIAL REAR TIRES		68
<b>Hubs:</b>		
CONMET PRESET PLUS IRON FRONT HUBS		
CONMET PRESET PLUS IRON REAR HUBS		
<b>Wheels</b>		
ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS	66	
MAXION WHEELS 90262 22.5X8.25 10-HUB PILOT 5-HAND STEEL DISC REAR WHEELS		36
FRONT WHEEL MOUNTING NUTS		
REAR WHEEL MOUNTING NUTS		
<b>Cab/Exterior</b>		
110 INCH BBC STEEL CONVENTIONAL CAB		
WESTERN STAR PAINTED ALUMINUM CAB SKIRT		
AIR CAB MOUNTS WITH CHECK VALVE		
NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
FRONT FENDERS		
2 INCH FENDER EXTENSIONS	5	
LH AND RH EXTERIOR GRAB HANDLES WITH RUBBER INSERTS AND RH INTERIOR GRAB HANDLE MOUNTED TO A POST		
STATIONARY BRIGHT FINISH GRILLE		
CHROME HOOD MOUNTED AIR INTAKE GRILLE		
GALVANEALD STEEL SEVERE SERVICE CAB		
FIBERGLASS HOOD		
DUAL ROUND AIR HORNS, SINGLE BASE, MOUNTED UNDER CAB		
DUAL ELECTRIC HORNS		
ALL UNIT(S) KEYED ALIKE WITH CUSTOMER SPECIFIED KEY NUMBER D420		
SINGLE RECTANGULAR SEALED BEAM HEADLIGHTS WITH BRIGHT BEZELS		
(5) AMBER MARKER LIGHTS		
WIRING AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LAMPS WITH SINGLE CONNECTION AT LH FORWARD		
INTEGRAL STOP/TAIL/BACKUP LIGHTS		
STANDARD FRONT TURN SIGNAL LAMPS		



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Description	Weight Front	Weight Rear
DUAL STAINLESS STEEL HEATED MIRRORS WITH LIGHTS		
DOOR MOUNTED MIRRORS		
102 INCH EQUIPMENT WIDTH		
LH AND RH SUREPLUS 574 8 INCH BRIGHT FINISH HEATED CONVEX MIRRORS WITH SEPARATE ADJUSTMENT, MOUNTED BELOW MIRROR		
RH DOWN VIEW MIRROR		
STANDARD SIDE/REAR REFLECTORS		
17.5X35 INCH TINTED REAR WINDOW		
TINTED DOOR GLASS		
RH AND LH ELECTRIC POWERED WINDOWS	4	
2-PIECE TINTED CURVED BONDED WINDSHIELD		
2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, MOUNTED UNDER CAB, WITH REMOTE FILL		
<b>Cab Interior</b>		
GRAY VINYL BASE INTERIOR		
BLACK HARD TRIM		
BASE LEFT HAND DOOR TRIM		
BASE RIGHT HAND DOOR TRIM		
BLACK MATS WITH SINGLE INSULATION		
DASH MOUNTED ASH TRAY AND LIGHTER, DRIVER SIDE		
FORWARD ROOF MOUNTED CONSOLE		
PASSENGER SIDE WING DASH MOUNTED GLOVE BOX WITH LOCKING DOOR		
LH AND RH DOOR MAP POCKETS		
COAT HOOK ON RH BACKWALL OF CAB		
(1) CUP HOLDER MOUNTED IN BOTTOM CENTER OF DASH		
TWO-TONE CHARCOAL UPPER/COOL GRAY LOWER SOFT TOUCH WING DASH WITH BLACK DRIVER SIDE COSMETIC UNDER DASH COVER		
STANDARD WIRING		
2-1/2 LB. FIRE EXTINGUISHER MOUNTED OUTBOARD OF DRIVER SEAT	5	
HEATER, DEFROSTER AND AIR CONDITIONER WITH CONSTANT OUTLET TEMPERATURE CONTROL		



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Description	Weight Front	Weight Rear
HVAC DUCTING WITH FOAM MAIN FRESH AIR FILTER AND OUTSIDE PRE-FILTER		
MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
STANDARD HEATER PLUMBING WITH BALL SHUTOFF VALVES		
DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR		
RADIATOR MOUNTED AIR CONDITIONER CONDENSER		
BINARY CONTROL, R-134A		
CAB INSULATION		
AUTOMATIC SELF-RESET CIRCUIT BREAKER IN MAIN DASH POWER DISTRIBUTION BOX AND CIRCUIT BREAKER/FUSE IN AUXILIARY POWER DISTRIBUTION BOXES		
DOOR ACTIVATED DOME LIGHT, UNDER DASH LIGHT AND LH AND RH DOOR MOUNTED COURTESY LIGHTS		
CAB DOOR LATCHES WITH MANUAL DOOR LOCKS		
TRIANGULAR REFLECTORS KIT WITHOUT FLARES SHIPPED LOOSE IN CAB	10	
BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 1 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION AND REAR CUSHION TILT		
BATTERY BOX MID BACK NON SUSPENSION PASSENGER SEAT		
INBOARD DRIVER SEAT ARMREST, NO PASSENGER SEAT ARMREST	2	
BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER		
BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER		
3 POINT DRIVER AND PASSENGER SEAT BELT RETRACTORS		
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN		
2-SPOKE 18 INCH (450MM) BLACK STEERING WHEEL(S)		
DRIVER AND PASSENGER INTERIOR SUN VISORS		

**Instruments & Controls**



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Description	Weight Front	Weight Rear
NON-ADJUSTABLE SUSPENDED PEDALS		
STAR GAUGES WITH BLACK BEZELS		
ROYAL ROSEWOOD MATTE FINISH DRIVER INSTRUMENT PANEL		
ROSEWOOD VINYL MATTE FINISH CENTER INSTRUMENT PANEL INSERT		
LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM		
2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
INTAKE MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS		
CRUISE CONTROL SWITCHES IN THE CENTER PANEL		
KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
WARNING LAMP/LIGHT BAR DISPLAY, NON-DATA LINKED		
HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
2 INCH ELECTRIC FUEL GAUGE		
PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE		
ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		
ELECTRIC ENGINE OIL PRESSURE GAUGE		
AM/FM/WB WORLD TUNER RADIO WITH AUXILIARY INPUT, J1939	40	
ROOF/OVERHEAD CONSOLE MOUNTED RADIO		
(4) RADIO SPEAKERS IN CAB		
POWER AND GROUND WIRING FOR CB RADIO IN OVERHEAD CONSOLE		
MULTI-BAND AM/FM/WB/CB LH MIRROR MOUNTED ANTENNA SYSTEM		
ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITH ODOMETER		
STANDARD VEHICLE SPEED SENSOR WITH ADDITIONAL SIGNAL FOR CUSTOMER USE LOCATED BETWEEN DRIVER AND PASSENGER SEATS		



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Description	Weight Front	Weight Rear
ELECTRONIC 3000 RPM TACHOMETER		
NO VEHICLE PERFORMANCE MONITOR		
NO DETROIT CONNECT SERVICES SELECTED		
NO ZONAR SERVICES SELECTED		
IGNITION SWITCH CONTROLLED ENGINE STOP		
2 INCH TURBO AIR PRESSURE GAUGE		
2 INCH VOLTMETER		
SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY AND ARCTIC TYPE BLADES		
CAB MARKER LIGHT AND HEADLIGHT SWITCH WITH SEPARATE SWITCH AND TERMINALS FOR CUSTOMER FURNISHED SNOW PLOW LIGHTS		
ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR		
SELF CANCELING TURN SIGNAL SWITCH WITH INTEGRAL HEADLAMP DIMMER WITH BRAKE OVERRIDE		
PACIFIC INSIGHT ELECTRONIC FLASHER		

**Design**

PAINT: ONE SOLID COLOR

**Color**

CAB COLOR A: L2225EB CANDY APPLE RED  
 ELITE BC  
 CAB INTERIOR PAINTED SAME AS CAB COLOR  
 BLACK, HIGH SOLIDS POLYURETHANE CHASSIS  
 PAINT  
 POWDER WHITE (N0006EA) FRONT  
 WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)  
 POWDER WHITE (N0006EA) REAR  
 WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)

**Certification / Compliance**

U.S. FMVSS CERTIFICATION, EXCEPT SALES  
 CABS AND GLIDER KITS

**Secondary Factory Options**

NO PDI INSTALLED GRILLE/HOOD TRIM  
 DEALER HAS BEEN ADVISED OF AND  
 ACCEPTED RESPONSIBILITY FOR  
 MODIFICATIONS DUE TO POSSIBLE  
 PTO/CHASSIS INTERFERENCE

**TOTAL VEHICLE SUMMARY**



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<b>Weight Summary</b>			
	<b>Weight Front</b>	<b>Weight Rear</b>	<b>Total Weight</b>
Factory Weight <sup>+</sup>	8534 lbs	4324 lbs	12858 lbs
<b>Total Weight<sup>+</sup></b>	<b>8534 lbs</b>	<b>4324 lbs</b>	<b>12858 lbs</b>

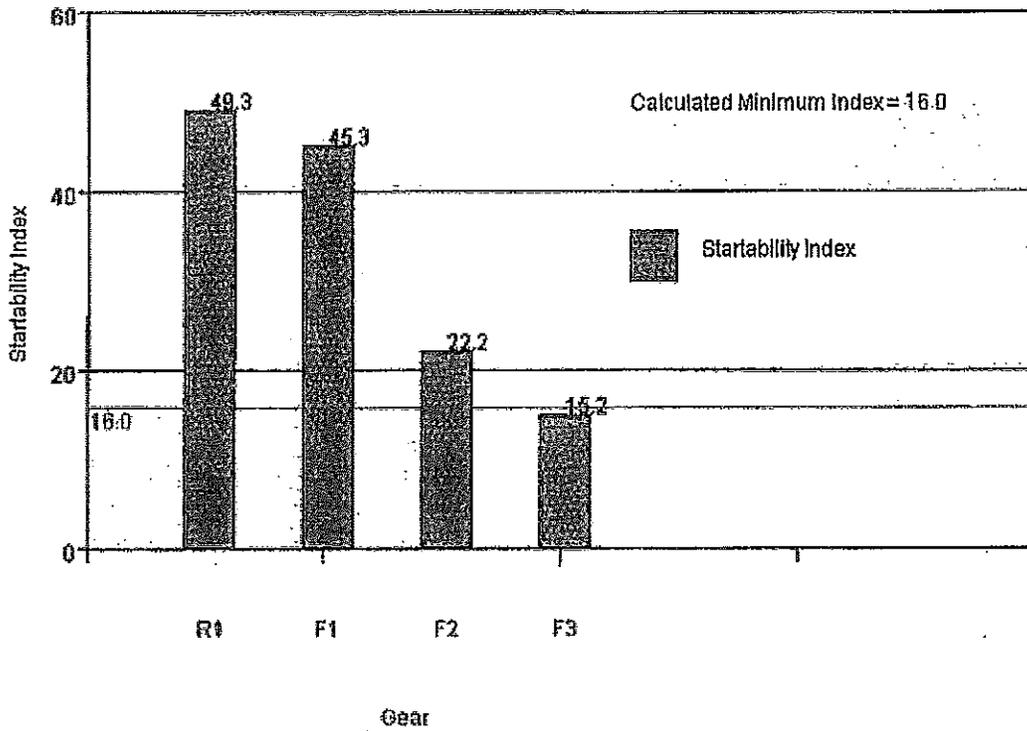
(+) Weights shown are estimates only.  
If weight is critical, contact Customer Application Engineering.



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**STARTABILITY**



**VEHICLE SPECIFICATIONS SUMMARY - STARTABILITY**

Model .....	4700SB
Cab Size (829) .....	110 INCH BBC STEEL CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs) .....	14700.0
Expected Pusher Axle(s) Load (lbs) .....	0.0
Expected Rear Axle(s) Load (lbs) .....	23000.0



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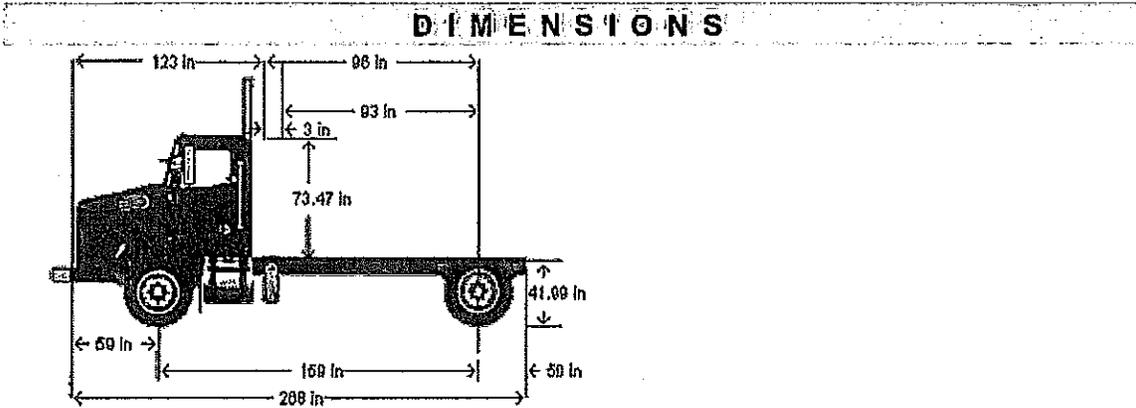
Expected Tag Axle(s) Load (lbs).....	0.0
Expected GVW (lbs).....	37700
Expected GCW (lbs).....	0.0
Engine (101).....	CUM L9 330 HP @ 2000 RPM, 2200 GOV RPM, 1000 LB/FT @ 1400 RPM
Torque at Clutch Engagement (lbs-ft).....	500
Transmission (342).....	ALLISON 3500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Gear Ratio: Forward 1.....	4.59
Gear Ratio: Forward 2.....	2.25
Gear Ratio: Forward 3.....	1.54
Gear Ratio: Reverse 1.....	5
Gear Ratio: Reverse 2.....	N/A
Gear Ratio: Reverse 3.....	N/A
Low Gear Ratio.....	N/A
High Gear Ratio.....	N/A
Transfer Case (373).....	NO TRANSFER CASE
Low Gear Ratio.....	N/A
High Gear Ratio.....	N/A
Rear Axle (420).....	RS-23-150 23,000# R-SERIES SINGLE REAR AXLE
Number of Speeds.....	1
Rear Axle Gear Ratio(s).....	6.14 REAR AXLE RATIO
Rear Tires (094).....	CONTINENTAL HDC1 11R22.5 16 PLY RADIAL REAR TIRES
Revolutions per Mile.....	488
Vehicle Service (A85).....	CONSTRUCTION SERVICE
Startability Factor.....	8
Terrain (AA5).....	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS
Startability Factor.....	0
Most Severe Grade Expected (AB1).....	MAXIMUM 8% EXPECTED GRADE
Startability Factor.....	8
Road Surface (AB5) SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE	
Startability Factor.....	0
Suggested Torque Converter Stall Ratio.....	1.77

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



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**VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS**

Model .....	4700SB
Wheelbase (545) .....	4050MM (159 INCH) WHEELBASE
Rear Frame Overhang (552) .....	1275MM (50 INCH) REAR FRAME OVERHANG
Fifth Wheel (576) .....	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 (629) .....	110 INCH BBC STEEL 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

**TABLE SUMMARY - DIMENSIONS**



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Dimensions	Inches
Bumper to Back of Cab (BBC)	122.7
Bumper to Centerline of Front Axle (BA)	59.4
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	95.7
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	92.7
Back of Cab Protrusions (Exhaust/Intake) (CP)	2.0
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	145.7
Cab Height (CH)	73.5
Wheelbase (WB)	159.0
Frame Overhang (OH)	50.0
Overall Length (OAL)	268.4
Rear Axle Spacing	0.0
Unladen Frame Height at Centerline of Rear Axle	42.0

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**FRAME RBM**

**VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM**

Wheelbase (545).....4050MM (159 INCH) WHEELBASE  
 Frame Rails (546).....1 1/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI(546)  
 Yield Strength (psi)..... 120000  
 Section Modulus (per rail) (cu in)..... 16.978  
 RBM (per rail) (lb-in)..... 2037600  
 Inner Frame Reinforcement (547)..... PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION  
 Outer Frame Reinforcement (548) ..BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW FLOW

**TABLE SUMMARY - FRAME RBM**

Item	Description / Value
Wheelbase	4050MM (159 INCH) WHEELBASE
Frame	1 1/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI
Inner Frame Reinforcement	PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION
Outer Frame Reinforcement	BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PL
Yield Strength (psi)	120000
Section Modulus - per rail (cu. in.)	16.98
Frame RBM - per rail (lb-in)	2037600

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



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## QUOTATION

### 4700-SET-BACK FRONT AXLE CHASSIS:

SET BACK AXLE - TRUCK CUM I9 330 HP @ 2000 RPM, 2200 GOV RPM, 1000 LB/FT @ 1400 RPM ALLISON 3500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION RS-23-160 23,000# R-SERIES SINGLE REAR AXLE 30,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD MFS-14-143A 14,700# FF1 71.5 INCH KPI/3.74 INCH DROP SINGLE FRONT AXLE	16,000# FLAT LEAF FRONT SUSPENSION 110 INCH BBC STEEL CONVENTIONAL CAB 4050MM (159 INCH) WHEELBASE 11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI 1275MM (50 INCH) REAR FRAME OVERHANG PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW
--	---

		PER UNIT		TOTAL
VEHICLE PRICE	TOTAL # OF UNITS (1)	\$	81,309 \$	81,309
EXTENDED WARRANTY		\$	0 \$	0
DEALER INSTALLED OPTIONS		\$	0 \$	0
<b>CUSTOMER PRICE BEFORE TAX</b>		<b>\$</b>	<b>81,309 \$</b>	<b>81,309</b>

### TAXES AND FEES:

TAXES AND FEES		\$	75 \$	75
OTHER CHARGES		\$	0 \$	0

### TRADE-IN:

TRADE-IN ALLOWANCE		\$	(0) \$	(0)
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BALANCE DUE		(LOCAL CURRENCY) \$	81,384 \$	81,384
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### COMMENTS:

Projected delivery on \_\_\_/\_\_\_/\_\_\_ provided the order is received before \_\_\_/\_\_\_/\_\_\_.

### APPROVAL:

Please indicate your acceptance of this quotation by signing below:

Customer: X \_\_\_\_\_ Date: \_\_\_/\_\_\_/\_\_\_

### Daimler Truck Financial

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See your local dealer for a competitive quote from Daimler Truck Financial, or contact us at [Information@dtffiners.com](mailto:Information@dtffiners.com).

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