



# CITY of NOVI CITY COUNCIL

Agenda Item 1  
May 11, 2015

**SUBJECT:** Approval to purchase a 1-Ton Dump Truck with Plow and Swap Loader system from Jorgensen Ford Sales Inc., the low bidder, in the amount of \$108,049.

**SUBMITTING DEPARTMENT:** Department of Public Services – Field Operations Division *RA*

**CITY MANAGER APPROVAL:** *[Signature]*

<b>EXPENDITURE REQUIRED</b>	<b>\$ 108,049</b>
<b>AMOUNT BUDGETED</b>	<b>\$110,000 (101-442.30-984.000 – Heavy Equipment – General Fund/Capital Outlay)</b>
<b>APPROPRIATION REQUIRED</b>	<b>N/A</b>
<b>LINE ITEM NUMBER</b>	<b>101-442.30-984.000 (Heavy Equipment – General Fund/Capital Outlay)</b>

**BACKGROUND INFORMATION:**

The approved FY14/15 budget includes the procurement of a one-ton dump truck and swap loader system with dump body and v-box attachments for DPS's Field Operations Division. These smaller yet versatile dump trucks are used on a year-round basis for a variety of tasks ranging from winter maintenance to patching roads. Because this vehicle is equipped with a swap loader system, it will be able to quickly attach to and switch between multiple attachments performing the work it would normally require multiple specialized trucks to perform. Many other attachments are also available, such as the mini-concrete mixer proposed in the FY15/16 budget.

On March 31, 2015, three bids were received following a public bid solicitation period. Upon evaluation, DPS determined that Jorgensen Ford Sales Inc. met all specifications by providing the lowest responsive bid. The bid tabulation form is attached.

Because of the separate delivery of the truck's chassis and subsequent build-out of the truck's specialty features (swap loader system, dump body and v- box attachments), the unit is estimated to arrive at DPS in April 2016.

**RECOMMENDED ACTION:** Approval to purchase a 1-Ton Dump Truck with Plow and Swap Loader system from Jorgensen Ford Sales Inc., the low bidder, in the amount of \$108,049.

	1	2	Y	N
Mayor Gatt				
Mayor Pro Tem Staudt				
Council Member Casey				
Council Member Markham				

	1	2	Y	N
Council Member Mutch				
Council Member Poupard				
Council Member Wrobel				

# Swap Loader Versatility





**CITY OF NOVI  
Truck and Hook Lift System**

**Tuesday, March 31, 2015 2:00 P.M.**

This tabulation reflects submittal data by the following companies. However, they have not been evaluated for accuracy of information. Final decision for award will be determined once the evaluation has been

<b>Company</b>	<b>Jorgensen</b>	<b>Signature Ford</b>	<b>Bell Equipment</b>
<b>Cab &amp; Chassis</b>	\$ 86,000.00	\$ 86,540.00	\$ 99,700.00
Year, Make Model	2016 Ford F550	2015 Ford F550*	2016 Ford F550
Alternate #1 - Spreader Control (installed)	No Bid	No Price	No Bid
<b>Attachments</b>			
1. Crysteel E Tipper Dump Body	\$ 7,764.00	\$ 7,764.00	\$ 12,000.00
2. V Box attachment	\$ 14,285.00	\$ 14,285.00	\$ 17,000.00
3. 10 ft flatbed attachment	\$ 6,950.00	\$ 6,950.00	\$ 10,000.00
Delivery date ARO	365 ARO	Chassis 16-18 weeks, Truck Equipment 210-240 days (per Truck & Trailer Equipment)	150-180 days ARO
Comments/Exceptions	Engine is 6.7L V8 Diesel instead of 6.4L as per spec		List of exceptions attached to bid.

\* bid indicates 2015, but backup submitted with bid indicates a 2016 Ford F550.



**CITY OF NOVI  
BID FORM**

**TRUCK AND HOOK LIFT SYSTEM**

We, the undersigned as bidder, propose to furnish to the City of Novi, according to the specifications, terms, conditions and instructions attached hereto and made a part thereof.

**CAB & CHASSIS WITH EQUIPMENT, as specified**      \$ 86000.00 Lump Sum

Chassis Year, Make & Model 2016 FORD F-550

**ALTERNATE #1 – SPREADER CONTROL, as specified**      \$ No Bid installed

**ATTACHMENTS (Must be bid separately)**

1. Crysteel E Tipper dump body, or approved equal      \$ 7764.00 Lump Sum

2. V Box attachment      \$ 14285.00 Lump Sum

3. 10 ft. flatbed attachment      \$ 6950.00 Lump Sum

Delivery date after receipt of order 365 DAYS ARO

**EXCEPTIONS TO SPECIFICATIONS (all exceptions must be indicated here or attached on an additional sheet):**

ENGINE IS 6.7L V-8 DIESEL NOT 6.4L AS PER SPEC.

**COMMENTS:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
We acknowledge receipt of the following Addenda: \_\_\_\_\_  
(please indicate numbers)

**NON-IRAN LINKED BUSINESS**

By signing below, I certify and agree on behalf of myself and the company submitting this proposal the following: (1) that I am duly authorized to legally bind the company submitting this proposal; and (2) that the company submitting this proposal is not an "Iran linked business," as that term is defined in Section 2(e) of the Iran Economic Sanctions Act, being Michigan Public Act No. 517 of 2012; and (3) That I and the company submitting this proposal will immediately comply with any further certifications or information submissions requested by the City in this regard.

**THIS BID SUBMITTED BY:**

Company (Legal Registration) JORGENSEN FORD SALES INC.

Address 8333 MICHIGAN AVENUE

City DETROIT State MI Zip 48210

Telephone 313-584-2250 Fax 313-584-0477

Representative's Name (please print) W. J. MCCARTHY

Representative's Title FLEET MANAGER

Representative's Signature W J McCarthy

E-mail bill\_mccarthy@hotmail.com

Date 3-30-15





**NOTICE - CITY OF NOVI  
INVITATION TO BID**

**TRUCK AND HOOK LIFT SYSTEM**

The City of Novi will receive sealed bids for **Truck and Hook Lift System** according to the specifications of the City of Novi.

Sealed bids will be received until **2:00 P.M.** prevailing Eastern Time, **Tuesday, March 31, 2015** at which time bids will be opened and read. Bids shall be addressed as follows and delivered to:

**CITY OF NOVI  
CITY CLERK'S OFFICE**  
45175 Ten Mile Rd.  
Novi, MI 48375-3024

All bids must be signed by a legally authorized agent of the bidding firm. **OUTSIDE OF MAILING ENVELOPES/PACKAGES MUST BE PLAINLY MARKED "TRUCK AND HOOK LIFT SYSTEM" AND MUST BEAR THE NAME OF THE BIDDER.**

The City reserves the right to accept any or all alternative bids and award a contract to other than the lowest bidder, to waive any irregularities or informalities or both; to reject any or all bids; to subdivide the award, and in general to make the award of the contract in any manner deemed by the City, in its sole discretion, to be in the best interest of the City of Novi.

Sue Morianti  
Purchasing Manager

Notice Dated: March 17, 2015

**NOTICE TO BIDDERS:**

The City of Novi officially distributes bid documents through the Michigan Intergovernmental Trade Network (MITN). **Copies of bid documents obtained from any other source are not considered official copies.** The City of Novi cannot guarantee the accuracy of any information not obtained from the MITN website and is not responsible for any errors contained by any information received from alternate sources. Only those vendors who obtain bid documents from the MITN system are guaranteed access to receive addendum information, if such information is issued. If you obtained this document from a source other than the source indicated, it is recommended that you register on the MITN site, [www.mitn.info](http://www.mitn.info) and obtain an official copy.



**CITY OF NOVI**  
**TRUCK AND HOOK LIFT SYSTEM**  
**INSTRUCTIONS TO BIDDERS**

This bid is issued by the Purchasing Office of the City of Novi.

**IMPORTANT DATES**

Bid Issue Date	March 17, 2015
Last Date for Questions	Tuesday, March 24, 2015 by 12:00 p.m. Please submit all questions via email to: Sue Morianti, Purchasing Manager <a href="mailto:smorianti@cityofnovi.org">smorianti@cityofnovi.org</a>
<b>Response Due Date</b>	<b>Tuesday, March 31, 2015 by 2:00 p.m.</b>

**QUESTIONS**

Please email all questions to the staff member listed above. Please write the name of the bid in the subject line. If you write anything else in the subject line, your email may be deleted as spam.

**TYPE OF CONTRACT**

If a contract is executed as a result of the bid, it stipulates a fixed price for products/services.

**BID SUBMITTALS**

**An ORIGINAL and Three (3) copies** of each bid must be submitted. No other distribution of the bids will be made by the Contractor. Bids must be signed by an official authorized to bind the Contractor to its provisions.

FAILURE TO SUBMIT PRICING ON THE BID FORM PROVIDED BY THE CITY OF NOVI MAY CAUSE THE BID TO BE CONSIDERED NON-RESPONSIVE AND INELIGIBLE FOR AWARD.

**CHANGES TO THE BID/ADDENDUM**

Should any prospective Bidder be in doubt as to the true meaning of any portion of the ITB, or should the Bidder find any patent ambiguity, inconsistency, or omission therein, the Bidder shall make a written request (via email) for official interpretation or correction. Such request shall be submitted to the staff member indicated above. The individual making the request shall be held responsible for its prompt delivery.

Such interpretation or correction, as well as any additional Bid provisions that the City may decide to include, will be made as an addendum, which will be posted on the



MITN website at [www.mitn.info](http://www.mitn.info) . Any addendum issued by the City shall become part of the ITB and subsequent contract and shall be taken into account by each bidder in preparing its bid. Only written addenda is binding. It is the Bidder's responsibility to be sure they have obtained all addenda. Receipt of all addenda must be acknowledged on bid form.

**SUBMISSION OF BID**

Bids must be submitted in a sealed envelope, box, or package, and clearly marked with: ITB Title, Deadline, Respondent's name, address, phone, fax, and contact name. Failure to do so may result in a premature opening or failure to open such proposal.

To be considered, sealed bids must arrive at City Clerk's Office on or before the specified time and date. There will be no exceptions to this requirement. The Clerk's Department time stamp will determine the official receipt time. Contractors mailing bids should allow ample time to ensure the timely delivery of their bid. Bids received after the closing date and time will not be accepted or considered. Faxed, emailed, or telephone bids are not acceptable. The City of Novi shall not be held responsible for lost or misdirected bids. The City reserves the right to postpone a bid opening for its own convenience.

All prices and notations must be typed or printed in ink. No erasures are permitted. Mistakes may be crossed out and corrections must be initialed in ink by the person signing the bid. Bids must be signed by an Authorized Representative of the submitting Company on the enclosed form. Bids must show unit and total prices if requested. In case of mistakes in price extension, unit pricing shall govern.

A bid may be withdrawn by giving written notice to the Purchasing Manager before the stated due date/closing time. After the stated closing time, the bid may not be withdrawn or canceled for a period of One Hundred and Twenty (120) days from closing time.

Failure to include in the bid all information requested may be cause for rejection of the bid.

Bidders are expected to examine all specifications and instructions. Failure to do so will be at the bidder's risk.

Any samples, CDs, DVDs or any other items submitted with your bid will not be returned to the contractor.

No bid will be accepted from, or contract awarded to any person, firm, or corporation that is in arrears or is in default to the City Novi upon any debt or contract, or that is in default as surety or otherwise, or failed to perform faithfully any previous contract with the City.

USE OF THE CITY LOGO IN YOUR BID OR IN ANY OTHER MANNER IS PROHIBITED.



### **CONSIDERATION OF BIDS**

In cases where items are requested by a manufacturer's name, trade name, catalog number or reference, it is understood that the bidder/proposer intends to furnish the item so identified or an item of "equal" quality and value as determined by the City of Novi.

Reference to any of the above is intended to be descriptive, but not restrictive, and only indicates articles that will be satisfactory. Bids of "equal" quality and value will be considered, provided that the bidder states in his/her bid what he/she proposed to furnish, including literature, or other descriptive matter which will clearly indicate the character of the item covered by such bid.

The Purchasing Manager hereby reserves the right to approve as an "equal", any item proposed which contains minor or major variations from specification requirements, but which may comply substantially therewith.

### **RESPONSIVE BIDS**

All pages and the information requested herein shall be furnished completely in compliance with instructions. The manner and format of submission is essential to permit prompt evaluation of all bids on a fair and uniform basis. Unit prices shall be submitted if space is provided on bid form. In cases of mistakes in extension, the unit price shall govern. Accordingly, the City reserves the right to declare as non-responsive, and reject an incomplete bid if material information requested is not furnished, or where indirect or incomplete answers or information is not provided. Any exceptions to the specifications must be noted on the bid form.

### **EXCEPTIONS**

The City will not accept changes or exceptions to the bid documents/specifications unless Contractor indicates the change or exception in the "Exceptions" section of the bid form. If Contractor neglects to make the notation on the bid form but writes it somewhere else within the bid documents and is awarded the contract, the change or exception will not be included as part of the contract. The original terms, conditions and specifications of the bid documents will be applicable during the term of the contract.

### **CONTRACT AWARD**

The contract will be awarded to that responsible, responsive bidder whose bid, conforming to this solicitation, will be most advantageous to the City of Novi. Qualifications, experience, references, comparable projects, price, previous experience with vendor/contractor, delivery, and other factors will be considered in the evaluation process and award of contract. The City reserves the right to accept any or all alternative bids and award the contract to other than the lowest bidder, to waive any irregularities or informalities or both; to reject any or all bids; and in general to make the award of the contract in any manner deemed by the City, in its sole discretion, to be in the best interest of the City of Novi.

After contract award, a summary of total price information for all submissions will be posted on the MITN website at [www.mitn.info](http://www.mitn.info).

## **GENERAL CONDITIONS**

### **TAX EXEMPTION**

It is understood that the City of Novi is a governmental unit, and as such, is exempt from the payment of all Michigan State Sales and Federal Excise taxes. Do not include such taxes in the bid prices. The City will furnish the successful bidder with tax exemption certificates when requested. The City's tax-exempt number is 38-6032551.

### **FREIGHT CHARGES/SHIPPING/HANDLING**

All bid pricing is to be quoted as F.O.B. destination.

### **DOWN-PAYMENTS OR PRE-PAYMENTS**

Any bid proposal submitted which requires a down-payment or prepayment prior to delivery and full acceptance of the item(s) as being in conformance with specifications will not be considered for award.

### **INVOICING**

Invoice must be mailed to: City of Novi, Attn: Finance Department, 45175 W. Ten Mile Road, Novi, MI 48375

### **CONTRACT TERMINATION**

The City may terminate and/or cancel this contract (or any part thereof) at any time during the term, any renewal, or any extension of this contract, upon thirty days (30) days written notice to the Contractor, for any reason, including convenience without incurring obligation or penalty of any kind. The effective date for termination or cancellation shall be clearly stated in the written notice.

### **TRANSFER OF CONTRACT/SUBCONTRACTING**

The successful bidder will be prohibited from assigning, transferring, converting or otherwise disposing of the contract agreement to any other person, company or corporation without the expressed written consent of the City of Novi. Any subcontractor, so approved, shall be bound by the terms and conditions of the contract. The contractor shall be fully liable for all acts and omissions of its subcontractor(s) and shall indemnify the City of Novi for such acts or omissions.

### **NON-DISCRIMINATION**

In the hiring of employees for the performance of work described in this ITB and subsequent contract, neither the contractor, subcontractor, nor any person acting in their behalf shall by reason of religion, race, color, national origin, age, sex, height, weight, handicap, ancestry, place of birth, sexual preference or marital status discriminate against any person qualified to perform the work required in the execution of the contract.

### **ACCEPTANCE OF BID CONTENT**

Should a contract ensue, the contents of the bid of the successful Bidder may become contractual obligations. Failure of a contractor to accept these obligations may result in cancellation of the award.



**DISCLOSURE**

All documents, specifications, and correspondence submitted to the City of Novi become the property of the City of Novi and are subject to disclosure under the provisions of Public Act No. 442 of 1976 known as the "Freedom of Information Act". This Act also provides for the complete disclosure of contracts and attachments hereto. This means that any informational material submitted as part of this ITB is available without redaction to any individual or organization upon request.

**ECONOMY OF PREPARATION**

Bids should be prepared simply and economically, providing a straightforward and concise description of the bidder's ability to meet the requirements of the bid. Emphasis should be on completeness and clarity of content. Included in the response must be a point by point response to the Requirements and other sections of the bid.

The City of Novi is not liable for any costs incurred by bidders prior to issuance of a contract.

**INDEPENDENT PRICE DETERMINATION**

By submission of a proposal, the offerer certifies, and in case of a joint proposal, each party hereto certifies as to its own organization, that in connection with the proposal:

- (a) The prices in the proposal have been arrived at independently without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other offerer or with any other Competitor; and
- (b) No attempt has been made or will be made by the offerer to induce any other person or firm to submit or not submit a proposal for the purpose of restricting competition.

Each person signing the proposal certifies that:

- (c) He is the person in the offerer's organization responsible within that organization for the decision as to prices being offered in the proposal and that he has not participated and will not participate in any action contrary to (a) and (b) above; or
- (d) He is not the person in the offerer's organization responsible within that organization for the decision as to prices being offered in the proposal but that he has been authorized in writing to act as agent for the persons responsible for such decisions in verifying that such persons have not participated, and will not participate, in any action contrary to (a) and (b) above, and that as their agent, does hereby so certify; and that he has not participated, and will not participate in any action contrary to (a) and (b) above.

A proposal will not be considered for award if the sense of the statements required in the proposal has been altered so as to delete or modify the above.



## CITY OF NOVI SPECIFICATIONS

### TRUCK AND HOOK LIFT SYSTEM

#### **CAB & CHASSIS:**

##### **Ford F 550 4x4 Regular Cab Chassis, or Equivalent**

165" Wheelbase  
Exterior Color: Red  
Interior color: Gray  
6.4L V8 Diesel  
Torq Shift 6 speed auto with OD (Diesel) for live PTO  
4.88 Limited Slip Axle Ratio  
Payload upgrade minimum 19,500# GVWR Pkg.  
Heavy Duty Alternator  
225 BSW X 19.5  
50 State Emissions System  
Vinyl Bench Seat w/armrests  
Dual Airbags – Driver, Passenger  
AM/FM Stereo with clock  
Tilt Wheel  
Cruise Control  
Air Conditioning  
XL Trim  
Power Windows, Power locks  
Trailer Tow Mirror, Manual Telescoping  
Spare Tire

#### **EQUIPMENT:**

##### **1. Install Swap loader hook lift hoist model SL-105 or approved equal**

- Compatible for 84 CA
- Dump Capacity minimum 10,500 lbs.
- Hook height to bottom of pin 36"
- Body length 10-13'
- Sliding jib design
- Dual lift and dump cylinders
- Low pressure hydraulics
- Dual rear pivot section
- Integral dual counterbalance valves
- Jib lock out system
- Nylatron slide pads
- 4 years parts and 1 year labor warranty



## **2. Install hydraulic system to operate Swaploader hoist, V-box salter including the following**

- Muncie hot shifted power take off #FR66F1209D3 with direct mounted pump Muncie PF471416QSR -1.65CID assembly
- 30 Gal. side mounted tank with return line oil filter and shut off valve
- Low oil shutdown sensor
- The Add-A-Fold 2010 Valve, 12 volt actuated valve with hoist, jib functions, PWM auger, spinner and future ice sections
- Stainless steel hydraulic couplers for spreader hook up with dust caps and plugs located behind driver's door (not at rear of chassis)
- Stainless steel valve enclosure mounted on frame
- All necessary hoses and fittings
- Install Force America 5100EX spreader controller
  - A fully integrated, all-in-one spreader control
  - Manual, open and closed loop controller modes
  - Accurate application of granular and liquid de-icing materials
  - Compact, rugged design with intuitive navigation and comfort
  - Integration with PreCise MRM AVL/GPS
- All necessary wiring and hook ups for V-box
- Switch console includes the following
  - Switch console includes the following
    - SW1 hook
    - SW2 Jib
    - SW3 left boom anti ice
    - SW4 center boom anti ice
    - SW5 right boom anti ice
    - SW6 Auxillary
    - SW7 Low oil indicator
    - SW8 Low liquid indicator
    - Sw9 Pre wet on / off
    - SW10 Jib out indicator
    - SW11 Main power
    - Install low oil shutdown switch with override system

### **SPREADER CONTROL (ALTERNATE #1):**

#### **1. Rexroth CS-550 Spreader Control:**

- The CAN Bus spreader control system shall be ground speed orientated to maintain a pre-determined application rate regardless of vehicle speed. Control shall be by microprocessor for high control accuracy with the outputs being current compensated.
- The controller shall be capable of operating in Manual, Automatic (Closed Loop), Open Loop, Ground Speed Triggered Manual and 12V triggered modes.
- Controller shall have a 7" wide VGA touch screen display with 262144 colors.

- The display shall include a 1.5 watt speaker that announces rate changes, pause and blast.
- The controller shall be capable of having 4 different solid material calibrations, 4 different prewet liquid calibrations and 4 different anti-ice material calibrations for a total of 12 different materials. Each material shall have 9 programmable application rates.

-It must be capable of operating the Spinner, Auger/Conveyor, Pre-Wet, and Anti-Ice all at the same time.

**3. Lighting and Miscellaneous**

- Install Roll Rite manually operated semi-automatic tarp system including a mesh type tarp cover. System will include a tower assembly and will be permanently mounted to the chassis
- Install Star Model 92016A-LED light bar in front of tarp system wind deflector
- Install minimizer poly fender kit with mud flaps
- Install rear light bar including LED marker light kit with LED stop/turn tail lights, LED backup lights and LED oval amber warning lights.
- Backup alarm
- Spreader work light
- Electrical disconnects for attachments will be located behind cab/ driver's side

**4. Install 3/4" rear hitch plate including the following**

- Class IV receiver tube
- D rings for safety chains
- 7-way round electrical connector

**5. Install Western 8.5' Pro Plow plus front plow, including the following**

- Electric / Hydraulic power unit
- Frame attaching mounting brackets
- Ultra mount hitch assembly
- Plow lights and all necessary wiring
- Handheld controller
- Rubber snow deflector mounted on top of the moldboard

**6. Install Road Watch temperature sensor**

- With all necessary wiring to integrate into the 5100 EX controller

**ATTACHMENTS (BID SEPARATELY):**

**1. Install 10 ft. Crysteel E Tipper dump body, or approved equal**

- Dump body attachment on 10' Swaploader subframe SL-105 with rear heavy duty steel drum wheels



- o 120"length, 87" inside width
- o 16" side height, 22" tailgate
- o 9"x35" flame cut window
- o Cross memberless design
- o Boxed top rail
- o 10 Gauge body sides and ends constructions
- o 7 gal. A1011 floor construction
- o Sloped running boards
- o 3 panel tailgate construction with quick drop design
- o Body shall be painted red

**2. V Box attachment includes the following**

- o 10' Swaploader subframe SL-105 **Galvanized**
- o Rubber roller kit at the rear
- o Monroe MD-120-50-38 Stainless steel V box with pre-wet or approved equal including the following
  - 7" auger with step fighting
  - Tip up spinner with winch
  - Stainless steel catwalks
  - LDS455 exhaust flow pre-wet system
  - Twin 35 Gal. liquid tanks
  - Bulk fill kit and flusher kit
  - Low liquid switch kit for low liquid shut down
  - Top screens installed on the V box
  - Stainless steel pipe kit plumbed down the side of the V box to the front with hydraulic couplers for disconnect
  - All necessary wiring extended from the front for disconnect

**3. Install 10 ft. flatbed attachment including the following**

- o Hook and skid assembly to fit Swaploader SL-105
- o Flatbed includes a 3/16" tread plate deck
- o 3" structural C channel cross members on 12" centers
- o 5" structural C channel outside rail with stake pockets and outside tie rail
- o Rubber rollers installed at the end of the bed
- o Front bulkhead with a 2"x 2" x 1/4" frame
- o Windows built into bulkhead with expanded metal screens
- o (6) heavy duty D rings welded to the floor of body equally spaced
- o Body is sandblasted and painted black

**Deviation and Quotation:** Vendors must submit any and all deviations to the above specifications on a separate document. A detailed quotation listing; manufactures, model numbers and installation processes must also be submitted. Failure to submit listed deviations and quotation may subject vendor to disqualification.

LNCF530

VEHICLE ORDER CONFIRMATION

04/01/15 10:55:28

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Dealer: F48017

2016 F-SERIES SD

Page: 1 of 2

Order No: 9999 Priority: 99

Order Type: 2 Price Level: 615

Ord Code: 660A Cust/Flt Name:

PO Number:

		RETAIL	DLR	INV		RETAIL	DLR	INV
F5H	F550 4X4 CHAS/C	\$40895	\$37726.00		19500# GVWR PKG			
	165" WHEELBASE			90L	PWR EQUIP GROUP	895	763.00	
PQ	RACE RED				TELE TT MIR-PWR			
A	VNYL 40/20/40				LESS TPMS			
S	STEEL			41H	ENG BLK HEATER	NC	NC	
660A	PREF EQUIP PKG			425	50 STATE EMISS	NC	NC	
	.XL TRIM			512	SPARE TIRE/WHL2	350	299.00	
572	.AIR CONDITIONER	NC	NC	61J	JACK	NC	NC	
	.AM/FM STER/CLK							
99T	6.7L V8 DIESEL	8130	6931.00	TOTAL BASE AND OPTIONS		53450	49536.80	
44W	6-SPEED AUTO	190	162.00	TOTAL		53450	49536.80	
TFB	.225 BSW AS 19.5			*THIS IS NOT AN INVOICE*				
X8L	4.88 LTD SLIP	360	308.00					
41A	RAPID HEAT	NC	NC	* MORE ORDER INFO NEXT PAGE *				
68M	PAYLD PLUS UPGR	1155	985.00					

F8=Next  
F3/F12=Veh Ord Menu

F1=Help  
F2=Return to Order  
F4=Submit  
F5=Add to Library

S006 - MORE DATA IS AVAILABLE.

QC035233



NGP530

VEHICLE ORDER CONFIRMATION

04/01/15 10:55:38

Dealer: F48017

2016 F-SERIES SD

Page: 2 of 2

Order No: 9999 Priority: 99

Order Type: 2 Price Level: 615

Ord Code: 660A Cust/Flt Name:

PO Number:

	RETAIL	DLR INV
62R TRANS PTO PROV	\$280	\$239.00
63B CLN IDLE DECAL	NC	NC
65Z AFT AXLE TANK	NC	NC
67D XTR HVY DTY ALT	NC	NC
FUEL CHARGE		144.80
ADV ASSESSMENT		784.00
DEST AND DELIV	1195	1195.00

RETAIL	DLR INV
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TOTAL BASE AND OPTIONS 53450 49536.80

TOTAL 53450 49536.80

\*THIS IS NOT AN INVOICE\*

F1=Help

F2=Return to Order

F7=Prev

F4=Submit

F5=Add to Library

F3/F12=Veh Ord Menu

S099 - PRESS F4 TO SUBMIT

QC035233

**Truck & Trailer Specialties, Inc.**

1200 Victory Dr.  
Howell, MI. 48843  
Ph 855-710-3855/Fax 517-552-3666

**March 26, 2015**

**City of Novi**

**Bid: "TRUCK AND HOOK LIFT SYSTEM"**

**Due date: March 31, 2015 2:00 PM**

**Truck equipment portion of bid**

**1. Install Swap loader hook lift hoist model SL-105**

- Compatible for 84 CA
- Dump Capacity minimum 10,500 lbs.
- Hook height to bottom of pin 36"
- Body length 10-13'
- Sliding jib design
- Dual lift and dump cylinders
- Low pressure hydraulics
- Dual rear pivot section
- Integral dual counterbalance valves
- Jib lock out system
- Nylatron slide pads
- 4 years parts and 1 year labor warranty

**2. Install hydraulic system to operate Swaploader hoist, V-box saller including the following**

- Muncie hot shifted power take off #FR66F1209D3 with direct mounted pump Muncie PF471416QSR -1.65CID assembly
- 30 Gal. side mounted tank or behind cab with return line oil filter and shut off valve
- Low oil shutdown sensor
- The Add-A-Fold 2010 Valve, 12 volt actuated valve with hoist, jib functions, PWM auger, spinner and future ice section.
- Stainless steel hydraulic couplers for spreader hook up with dust caps and plugs located behind driver's door (not at rear of chassis)
- Stainless steel valve enclosure mounted on frame
- All necessary hoses and fittings
- Install Force America 5100EX spreader controller
  - A fully integrated, all-in-one spreader control
  - Manual, open and closed loop controller modes
  - Accurate application of granular and liquid de-icing materials
  - Compact, rugged design with intuitive navigation and comfort



## **Truck & Trailer Specialties, Inc.**

1200 Victory Dr.

Howell, MI. 48843

Ph 855-710-3855/Fax 517-552-3666

- o Integration with PreCise MRM AVL/GPS including antenna and harnesses for both chassis, controller ,1015263 Finassy control box and Road Watch cable.

- All necessary wiring and hook ups for V-box
- InPower Switch console includes the following Switch console includes the following
  - SW1 hook
  - SW2 Jib
  - SW3 left boom anti ice
  - SW4 center boom anti ice
  - SW5 right boom anti ice
  - SW6 Auxiliary
  - SW7 Low oil indicator
  - SW8 Low liquid indicator
  - Sw9 Pre wet on / off
  - SW10 Jib out indicator
  - SW11 Main power
  - Install low oil shutdown switch with override system

**3. Lighting and Miscellaneous** o Install Roll Rite manually operated semi-automatic tarp system including a mesh type tarp cover. System will include a tower assembly and will be permanently mounted to the chassis

- o Install Star Model 92016A-LED light bar in front of tarp system wind deflector
- o Install minimizer poly fender kit with mud flaps
- o Install rear light bar including LED marker light kit with LED stop/turn tail lights, LED backup lights and LED oval amber warning lights.
- o Backup alarm
- o Spreader work light
- o Electrical disconnects for attachments will be located behind cab/ driver's side

**4. Install 3/4" rear hitch plate including the following**

- o Class IV receiver tube
- o D rings for safety chains
- o 7-way round electrical connector

**5. Install Western 8.5' Pro Plow plus front plow, including the following**

- o Electric / Hydraulic power unit
- o Frame attaching mounting brackets
- o Ultra mount hitch assembly
- o Plow lights and all necessary wiring
- o Handheld controller
- o Rubber snow deflector mounted on top of the moldboard

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Howell, MI. 48843  
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### **6. Install Road Watch temperature sensor**

- o stand-alone read out to integration to precise AVL system

**Above installed and painted complete: \$42,954.00**

### **ATTACHMENTS (BID SEPARATELY):**

- 1. Install 10 ft. Crysteel E Tipper dump body, or approved equal**
  - o Dump body attachment on 10' Swaploader subframe SL-105 with rear heavy duty steel drum wheels
  - o 120" length, 87" inside width
  - o 16" side height, 22" tailgate
  - o 9"x35" flame cut window
  - o Cross memberless design
  - o Boxed top rail
  - o 10 Gauge body sides and ends constructions
  - o 7 gal. A1011 floor construction
  - o Sloped running boards
  - o 3 panel tailgate construction with quick drop design
  - o Body shall be painted red

**Attachment #1 Price \$7,764.00**

- 2. V Box attachment includes the following**
  - o 10' Swaploader subframe SL-105
  - o **Galvanized** Drum roller kit at the rear
  - o Monroe MD-120-50-38 Stainless steel V box with pre-wet or approved equal including the following

- 7" auger with step fighting
- Tip up spinner with winch
- Stainless steel catwalks
- LDS455 exhaust flow pre-wet system
- Twin 35 Gal. liquid tanks
- Bulk fill kit and flusher kit
- Low liquid switch kit for low liquid shut down
- Top screens installed on the V box
- Stainless steel pipe kit plumbed down the side of the V box to the front with hydraulic couplers for disconnect
- All necessary wiring extended from the front for disconnect



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**Attachment #2 Price \$14,285.00**

**3. Install 10 ft. flatbed attachment including the following** o Hook and skid assembly to fit Swaploader SL-105

- o Flatbed includes a 3/16" tread plate deck
- o 3" structural C channel cross members on 12" centers
- o 5" structural C channel outside rail with stake pockets and outside tie rail
- o Rubber rollers installed at the end of the bed
- o Front bulkhead with a 2"x 2" x 1/4" frame
- o Windows built into bulkhead with expanded metal screens
- o (6) heavy duty D rings welded to the floor of body equally spaced
- o Body is sandblasted and painted black

**Attachment #3 Price \$6,950.00**

**Deviation and Quotation: None**

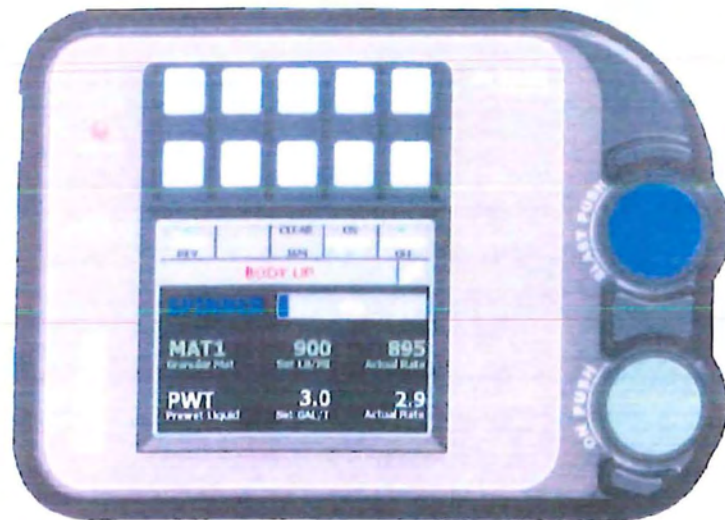
Delivery: Equipment from manufacturer is taking 210-240 days, build will take 4-6 weeks

Submitted by,

Tom Giles/Brian Bouwman



# INTRODUCING



**SSC5100ex Spreader Control**

**The power behind** FORCE America's 5100ex spreader control is designed specifically for the demands placed on Public Works departments and other heavy duty winter maintenance operations. The 5100ex provides a commanding solution for winter maintenance professionals to fight snow and ice with precision and simplicity. Best of all, it delivers enormous functionality within a compact, modern design to avoid crowding the cab with hardware.

## Features and Benefits

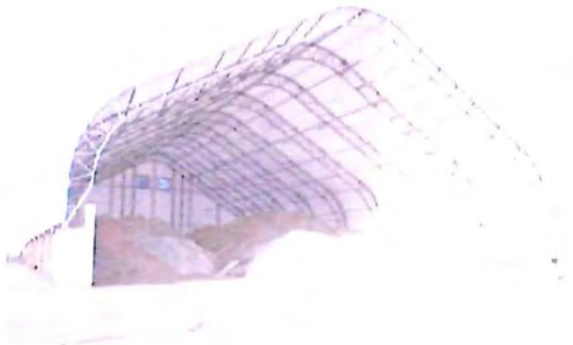
### A fully-integrated, all-in-one solution with a wide range of control

- Manual, open and closed loop controller options
- Accurate application of granular and liquid deicing materials
- Optional integrated control for the plow and hoist operation



### Quality design and performance

- Completed rigorous environmental and shock testing as a part of the development process
- Meets the SAE J1455 standard for heavy-duty trucks
- Incorporates the same intuitive navigation found in FORCE America's 6100 line of controllers for low training and ease of moving between systems
- Proudly designed and manufactured in the USA



### Integration with PreCise MRM's AVL/GPS solution for comprehensive reporting

(See reverse for more detail)

- Access to industry's most advanced web-based tool to automate winter maintenance reporting, mapping and equipment maintenance
- Total system designed to cut spending on salt and reduce impact on the environment



# EXPERIENCE THE POWER

## Compact, rugged design offers intuitive navigation and comfort

- Ergonomic design for comfortable operation
- Right-hand location of controls offer an unobstructed view of the LCD screen
- Compact design (5.1"H x 7.2"W x 2.5"D) avoids overcrowding the cab with hardware

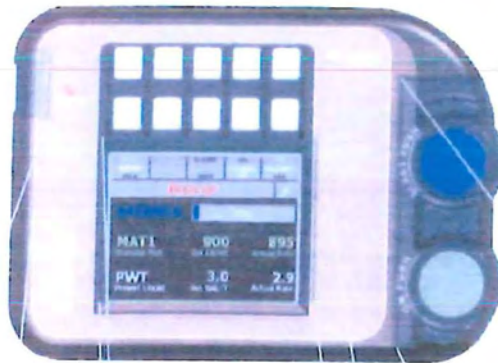


Tactically placed interlock system to ensure safe use of critical functions.

Backlit rocker switches for easy viewing at all times.



Fully adjustable mounting option for easy, customizable installation.



Built-in USB port for data retrieval and firmware upgrades.



Bright, bold color LCD touchscreen for calibration and configuration options.



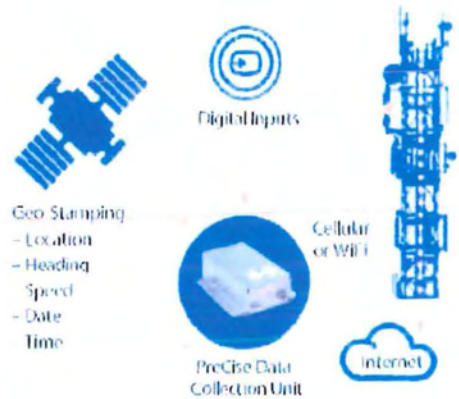
Protective casing surround control knobs to prevent unintentional use and damage to the knobs.

# GPS/AVL INTEGRATION WITH PRECISE™

As a part of the FORCE America family, the PreCise Mobile Resource Management solution is integrated deeply with the 5100ex control system. Accurate material usage reporting, controller error alerts, and vehicle accessory details are all available as a part of a total system approach. PreCise MRM goes beyond AVL/GPS to provide a complete fleet management solution.

## PreCise tracks and reports on:

- Vehicle speed and location
- Activity of equipment accessories, including plow and broom
- Material usage and route completion reporting
- Idle time and equipment maintenance intervals



Geo Stamping  
- Location  
- Heading  
- Speed  
- Date  
- Time

PreCise Data Collection Unit

Cellular or WiFi

Internet



5100ex  
Controller Event Logging



Reporting Fleet  
Information



# FORCE

888-99FORCE

501 East Cliff Road Burnsville, Minnesota 55337 [www.forceamerica.com](http://www.forceamerica.com)

Region	Phone	Fax	Region	Phone	Fax
Atlanta, GA	770-440-7000	770-440-7001	Chicago, IL	630-251-2222	630-251-2223
Boston, MA	617-252-2222	617-252-2223	Colorado, CO	303-440-7000	303-440-7001
Dallas, TX	972-440-7000	972-440-7001	Florida, FL	352-440-7000	352-440-7001
Denver, CO	303-440-7000	303-440-7001	Georgia, GA	770-440-7000	770-440-7001
Detroit, MI	313-440-7000	313-440-7001	Illinois, IL	630-251-2222	630-251-2223
Houston, TX	281-440-7000	281-440-7001	Indiana, IN	317-440-7000	317-440-7001
Los Angeles, CA	909-440-7000	909-440-7001	Iowa, IA	515-440-7000	515-440-7001
Memphis, TN	901-440-7000	901-440-7001	Kansas, KS	785-440-7000	785-440-7001
Minneapolis, MN	612-440-7000	612-440-7001	Kentucky, KY	502-440-7000	502-440-7001
Mt. Pleasant, IA	562-440-7000	562-440-7001	Louisiana, LA	504-440-7000	504-440-7001
Nashville, TN	615-440-7000	615-440-7001	Maine, ME	603-440-7000	603-440-7001
New York, NY	914-440-7000	914-440-7001	Michigan, MI	313-440-7000	313-440-7001
Omaha, NE	402-440-7000	402-440-7001	Minnesota, MN	612-440-7000	612-440-7001
Orlando, FL	407-440-7000	407-440-7001	Missouri, MO	636-440-7000	636-440-7001
Phoenix, AZ	602-440-7000	602-440-7001	Nebraska, NE	402-440-7000	402-440-7001
Portland, ME	603-440-7000	603-440-7001	Nevada, NV	702-440-7000	702-440-7001
Portland, OR	503-440-7000	503-440-7001	New Hampshire, NH	603-440-7000	603-440-7001
San Diego, CA	619-440-7000	619-440-7001	North Carolina, NC	704-440-7000	704-440-7001
Seattle, WA	206-440-7000	206-440-7001	North Dakota, ND	701-440-7000	701-440-7001
St. Louis, MO	636-440-7000	636-440-7001	Ohio, OH	614-440-7000	614-440-7001
Tampa, FL	813-440-7000	813-440-7001	Oklahoma, OK	405-440-7000	405-440-7001
Wash. DC	202-440-7000	202-440-7001	Oregon, OR	503-440-7000	503-440-7001
Wichita, KS	316-440-7000	316-440-7001	Tennessee, TN	615-440-7000	615-440-7001



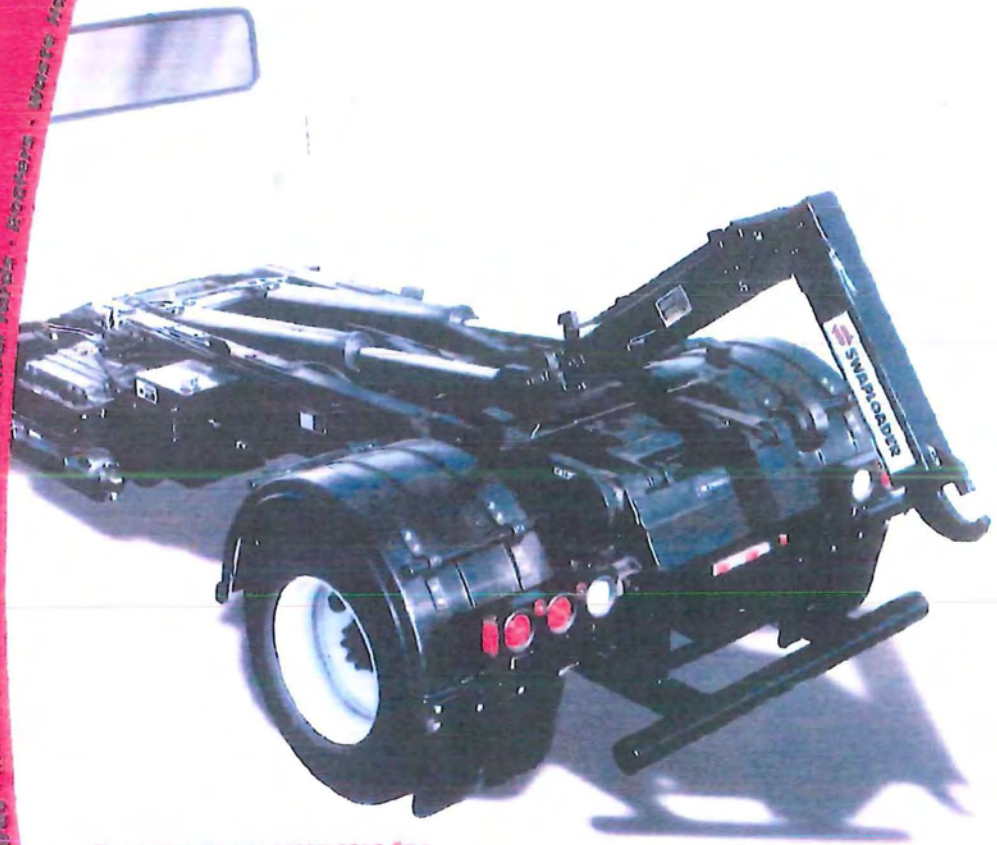
**SWAP LOADER®**

USA LTD

Construction • Municipalities • Government • Rental Houses • Pallets • Pallets • Waste Transfer

# 100 SERIES

10,500 - 18,000 LBS. LIFT CAPACITY



- 4 year warranty
- Sliding jib
- Slide through body locks
- Large beveled rear rollers
- Dual pivot rear section
- Dual lift cylinders
- Nylatron slide pads
- Low pressure hydraulics
- Integral dual counter balance valves
- Designed and built in the USA

**100 SERIES**





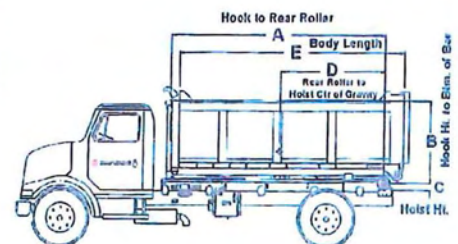
## 100 Series Hoists

## SPECIFICATIONS

MODEL		SL-105	SL-145	SL-180	SL-185
Model Description	Dump Capacity (Incl. container)	10,500 lb	14,000 lb	18,000 lb	18,000 lb
	Dump Angle	58°	56°	57°	58°
	Lift Capacity (Incl. container)	10,500 lb	14,000 lb	18,000 lb	18,000 lb
	Hoist Weight	Fixed: 1,680 lb Adj: N/A	Fixed: 2,250 lb Adj: N/A	Fixed: 2,840 lb Adj: 3,005 lb	Fixed: 2,710 lb Adj: 2,875 lb
General Dimensions (See Diagram)	Hook to Rear Roller (Dim. A)	116.0"	138.37"	153.88"	137.88"
	Hook Height (Dim. B)	Fixed: 35.63" Adj: N/A	Fixed: 35.63" Adj: N/A	Fixed: 35.63" Adj: 35.63" - 53.88"	Fixed: 35.63" Adj: 35.63" - 53.88"
	Hoist Height (Dim. C)	5.5"	6.5"	7.5"	7.5"
	Hoist C.G. (Dim. D)	58.1"	66.7"	77.0"	67.0"
	Body Length (Dim. E)	10' to 13'	12' to 15'	14' to 18'	12' to 16'
	Optimum Body Lengths	10' - 12'	12' - 14'	14' - 16'	12' - 14'
	Body Longsill Width	41.62"	41.62" or 40.5"	41.62" or 40.5"	41.62" or 40.5"
Hydraulic System	Hydraulic Pump Type (CID)	Gear (1.86)	Gear (2.96)	Gear (2.96)	Gear (2.96)
	Flow	7.2 GPM @ 1,000 RPM	11.4 GPM @ 1,000 RPM	11.4 GPM @ 1,000 RPM	11.4 GPM @ 1,000 RPM
	Relief Pressure	3,250 PSI	3,250 PSI	3,250 PSI	3,250 PSI
	Hydraulic Resvr.	15 gal	15 gal	15 gal	15 gal
Lift Cylinder	Type	All models incorporate twin, double acting cylinders with dual built-in counterbalance valves.			
	Quantity	2	2	2	2
	Bore	Ø 4"	Ø 5"	Ø 5.25"	Ø 5.25"
	Stroke	38"	40"	54"	46"
Jib Cylinder	Type	All models incorporate a single, double acting cylinder with a single built-in counterbalance valve.			
	Quantity	1	1	1	1
	Bore	Ø 2.5"	Ø 3"	Ø 3"	Ø 3"
	Stroke	24"	32"	36"	32"
Truck Specs (Recommended)	GVW Range	13,000 lb to 19,000 lb	18,000 lb to 26,000 lb	22,000 lb to 35,000 lb	22,000 lb to 35,000 lb
	Cab - Axle Dim. (Single Axle)	84" to 96"	102" to 120"	120" to 138"	108" to 120"
	Cab - Trunion Dim. (Tandem Axle)	N/A	N/A	N/A	N/A
	Truck Frame RBM	350,000 in lb	500,000 in lb	600,000 in lb	600,000 in lb
	Clear Frame Rail	130"	152"	172"	156"
PTO Specs (Recommended)	Frame Height	up to 40"	up to 40"	up to 40"	up to 40"
	Type	Direct Mount SAE B, 2 Bolt	Direct Mount SAE B, 4 Bolt	Direct Mount SAE B, 4 Bolt	Direct Mount SAE B, 4 Bolt
	Torque Required	80 ft-lbf	125 ft-lbf	125 ft-lbf	125 ft-lbf

- 4 year warranty
- Sliding Jib
- Slide through body locks
- Large beveled rear rollers
- Dual pivot rear section
- Rugged main frame
- Dual lift cylinders
- Nylatron slide pads
- Low pressure hydraulics
- Rigorous 4 year test cycle
- Integral Dual Counter Balance Valves
- Designed and Built In the USA

- 1 Jib Lock out valve to prevent jib operation in dump mode standard.
- 2 Hoist with longer bodies may not conform with I.C.C. bumper regulations or may not achieve maximum dump angle depending on truck chassis height. Contact your SwapLoader distributor for more information.
- 3 Maximum outside to outside longsill width.
- 4 Optimum CA/CT dimension will be influenced by type of loads carried and turning radius requirements.
- 5 Clear frame Dim given is the overall length of hoist plus 5' for cab clearance and rear light bar mounting. Additional frame length may be necessary for other accessories such as cab guard, tarper, exhaust system, etc.
- 6 Pump RPM and Flow are dependent on engine RPM and PTO ratio.
- 7 PTO/Pump rotation as determined by transmission.
- 8 Polished Nitrided Cylinder Rod.



SwapLoader USA, Ltd.  
1800 N.E. Broadway Ave.  
Des Moines, IA 50313  
Ph: 515-266-3042  
Fax: 515-313-4426  
Toll Free: 888-767-8000

Your authorized SwapLoader dealer

www.swaploader.com

SWL-050 02/11  
Rev. 01/15





## E-TIPPER

DUMP BODIES &  
LO-BOY® HOISTS



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## MCV V-Box

### Modular Design MCV V-Box

#### Standard Features:

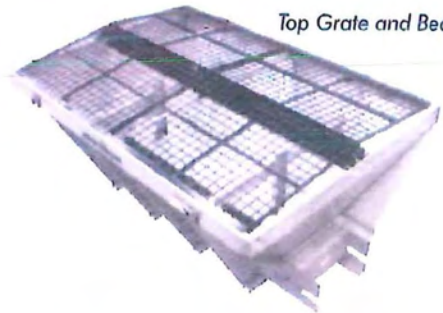
- 8'-17' Hopper Lengths
- 10ga. Hopper Shell with 45° Sloped Sides
- 7ga Longitudinals
- Modular, Bolt-On Replaceable Tail Section
- 8-Tooth Sprockets
- 2" Drive Shaft and a 2" Spring Loaded Idler Shaft
- 4-Bolt Flange Relubeable Bearings
- Front and Rear Wipers
- Bolt-In Chain Shields
- 3/8" Bar Flights
- 3/16" Replaceable Floor
- 50:1 Worm Drive Gearbox
- Self Locking Screw Jack for Rear Door Adjustment
- 4 Lift Loops
- Top Grate & Beam
- Inverted V

#### Options:

- Corrosion Resistant Stainless Steel
- 1 1/2" Drive & Idler Shafts
- Roller Chain
- Chain Bar Every Link
- Auger - Single or Dual
- Belt with Wipers
- 25:1 or 6:1 Gearbox
- Spinners:
  - Tip-Up
  - Bolt-On
  - Spinner with Bottom Mounted Motor
  - 12" Spinner Extension Kit
  - Hand Winch with Brake
- Light Group
- Dual Flow Valve
- Chain Oilers
- Ladder
- Chain Adjusters
- Rear Grease Extension
- Cabshield
- Mounting Kits
- Catwalk
- Bolt-On Leg Kit (Mildsteel or Stainless Steel)
- Hydraulic Interlock System



Dual Auger Bolt-On Tail Section



Top Grate and Beam



Bolt-On Spinner



Hydraulic Interlock System