



CITY OF CLEAR LAKE

15 North 6th Street • P.O. Box 185 • Clear Lake, IA 50428
Phone: 641-357-5267 • Fax: 641-357-8711
www.cityofclearlake.com

Mayor
NELSON P.
CRABB

January 29, 2016

HONORABLE MAYOR & CITY COUNCIL MEMBERS

City
Administrator
SCOTT
FLORY

The next regular meeting of the Clear Lake City Council is scheduled for Monday, February 1, 2016, at 5:30 p.m., in the Council Chambers, at City Hall. Please refer to the attached agenda for the items discussed below.

COUNCIL
MEMBERS

MARK
EBELING
Ward 1

TONY J.
NELSON
Ward 2

JIM
BOEHNKE
Ward 3

MIKE
CALLANAN
At Large

GARY
HUGI
At Large

ITEM #6A. 2016 G.O. Refunding Loan Agreement. At the previous City Council meeting, the Council set the date for a public hearing on a proposal to enter into a future loan agreement in a principal amount not to exceed \$1,700,000 to refund three (3) outstanding City General Obligation bond issues. The primary purpose of the transaction is to achieve approximately \$50-60,000 (+/-) in total interest savings over the life of the bonds. The authorization of the refunding bonds does NOT result in the City incurring new debt, but simply provides for the re-financing of outstanding debt.

The current interest rates on the City's outstanding bonds proposed to be refunded range from 2.5% to 3.8%. This is proposed to be a "non-rated" and "bank qualified" issuance. The City will solicit competitive sealed quotes, including from the local banks, for the placement of the issue. It should be noted that the majority of the refinanced debt is currently held by Clear Lake Bank & Trust.

The proceeds from the refunding will be utilized to refinance existing debt from three (3) prior bond issues that are "callable". Those were as follows: 2008 General Obligation Water Improvement Bond (\$1,200,000) issued for the east water tower project; 2010 General Obligation Water Improvement Note (\$600,000) issued for the west-end and south-end water distribution system looping project (total project was \$1,200,000); and 2011 General Obligation Fire Station Bonds (\$2,300,000).

The remaining schedule is as follows:

Council Meeting, February 1st: Council holds public hearing.

Week of February 1st: Review of Terms with Bank(s)

Week of February 8th: Finalize Terms with Bank(s)

Council Meeting, February 15th: Council considers Bond Purchase Agreement (locks in interest rates on refunding) and Council authorizes redemption of prior debt



Council Meeting, March 7th: Council authorizes issuance of G.O. Refunding Bonds, Series 2016

Wednesday, March 23rd: Closing / delivery of funds

ITEM #6B. RFP 2016 Regenerative Air Street Sweeper Replacement. The City currently uses two street sweepers for street cleaning operations: a 2005 Johnston Regenerative Air Vacuum Sweeper and a 2011 Pelican 3-wheel Mechanical Broom Sweeper. At certain times of the year, in particular the fall, the City utilizes both sweepers to lessen localized street flooding and storm sewer collection system congestion. Generally speaking, the useful life of a municipal street sweeper is between 7-8 years. Obviously, the primary factors in determining whether to replace such a piece of equipment are: age, overall physical condition, availability of parts, and repairs. The 2005 Johnston has more than surpassed its useful life expectancy and its reliability necessary for use as a day-to-day sweeper is now circumspect. It has experience higher maintenance costs and undesirable down time the last few years as a result of mechanical failures of a significant nature and is showing wear and fatigue on the drive and chassis components.

The City has allocated \$220,000 in the FY 16 amended budget proposal for the purchase of a new regenerative air vacuum street sweeper. Delivery is due within 75 days of the award.

Bid proposals were opened on Tuesday, January 26th, at 1:00 p.m. Two vendors submitted bid proposals. The bids ranged from \$184,662.89 to \$198,350. The aforementioned bids are after deduction for trade of the City's 2005/06 Johnston VT650. The Public Works Director is recommending the purchase of the Schwarze A7 Tornado from Elliott Equipment of Grimes, Iowa in the amount of \$184,662.89.

Smart Quote: *"The surest way to corrupt a youth is to instruct him to hold in higher esteem those who think alike than those who think differently."* – Friedrich Nietzsche, philosopher

Scott Flory
City Administrator

PUBLIC NOTICE IS HEREBY GIVEN that the following governmental body will meet at the date, time, and place herein set out. The tentative agenda for said meeting is as follows:

TENTATIVE AGENDA
CLEAR LAKE CITY COUNCIL
CITY HALL – 15 N. 6TH STREET
MONDAY, FEBRUARY 1, 2016
5:30 P.M.

1. Call to Order and Pledge of Allegiance led by Mayor Nelson P. Crabb.
2. Approval of Agenda.
3. Consent Agenda:
 - A. Minutes – January 18, 2016.
 - B. Approval of the bills & claims.
 - C. Licenses & Permits:
 - **Liquor License**: Class C Liquor License (LC) (Commercial) with Outdoor Service & Sunday Sales, Veterans Memorial Golf Club, (renewal).
 - **Tree Trimmers License**: Clapper Tree Service, Clear Lake, (renewal).
 - **Excavator's License**: Larson Contracting, Lake Mills, (renewal).
4. Citizens opportunity to address the Council on items not on the agenda:
 - In conformance with the City Council's Rules of Procedure, no action can occur on items presented during the Citizens forum.
 - Please walk to the lectern, state your name (spell last name), address, and subject of your discussion.
 - Speakers are limited to a maximum of five (5) minutes per person.
5. Unfinished Business:
6. New Business:
 - A. 2016 General Obligation Bond Refunding Loan Agreement:
 - Review of proposal, Scott Flory, City Administrator.
 - Public Hearing.
 - **Motion** to close public hearing by City Council.
 - Discussion and consideration of **Motion** by City Council.
 - **Motion** to approve **Resolution #16-02**, "A Resolution Expressing Intent to enter into a Loan Agreement by City Council.
 - Discussion and consideration of **Motion** by City Council.

B. Purchase of a new (replacement) 2016 regenerative air street sweeper:

- Introduction by Scott Flory, City Administrator.
- Review of bid opening and recommendation, Joe Weigel, Public Works Director.
- **Motion** to authorize the purchase by City Council.
- Discussion and consideration of **Motion** by City Council.

7. Chief of Police's Report:

8. Mayor's Report:

9. Public Works Director's Report:

10. City Administrator's Report:

11. Other Business:

12. Adjournment.

NEXT REGULAR MEETING – FEBRUARY 15, 2016

This notice is given pursuant to Chapter 21.4(1) of the Code of Iowa and the local rules of said governmental body.

RESOLUTION NO. _____

Resolution Expressing Intent to Enter Into Loan Agreement

WHEREAS, the City of Clear Lake (the "City"), in Cerro Gordo County, State of Iowa, has previously issued its General Obligation Water Improvement Bond, dated June 2, 2008, in the principal amount of \$1,200,000 (the "Series 2008 Bond"); and

WHEREAS, in the resolution authorizing the issuance of the Series 2008 Bond, the City reserved the right to prepay the outstanding balance of the Series 2008 Bond on June 1, 2015 or any date thereafter; and

WHEREAS, the City has also previously issued its General Obligation Water Improvement Note, dated June 1, 2010, in the principal amount of \$600,000 (the "Series 2010 Note"); and

WHEREAS, in the resolution authorizing the issuance of the Series 2010 Note, the City reserved the right to prepay the outstanding balance of the Series 2010 Note on June 1, 2014 or any date thereafter; and

WHEREAS, the City has also previously issued its General Obligation Fire Station Bonds, dated January 11, 2011, in the principal amount of \$2,300,000 (the "Series 2011 Bonds"); and

WHEREAS, in the resolution authorizing the issuance of the Series 2011 Bonds, the City reserved the right to prepay the outstanding balance of the Series 2011 Bonds on June 1, 2016 or any date thereafter; and

WHEREAS, the City has heretofore proposed to enter into a General Obligation Loan Agreement (the "Loan Agreement") in a principal amount not to exceed \$1,700,000 pursuant to the provisions of Section 384.24A of the Code of Iowa, for the purpose of paying the cost, to that extent, of refunding the outstanding balances of the Series 2008 Bond, the Series 2010 Note and the Series 2011 Bonds, and has published notice of the proposed action and has held a hearing thereon;

NOW, THEREFORE, Be It Resolved by the City Council of the City of Clear Lake, Iowa, as follows:

Section 1. The City Council hereby expresses its intention to enter into the Loan Agreement at such time as funds are needed, and the Council hereby declares that this resolution constitutes the additional action required by Chapter 384 of the Code of Iowa.

Section 2. All resolutions or parts thereof in conflict herewith are hereby repealed to the extent of such conflict.

Passed and approved February 1, 2016.

Mayor

Attest:

City Clerk



CITY OF CLEAR LAKE

15 North 6th Street • P.O. Box 185 • Clear Lake, IA 50428
 Phone: 641-357-5267 • Fax: 641-357-8711
 www.cityofclearlake.com

Mayor
 NELSON P.
 CRABB

CITY OF CLEAR LAKE

Bid Summary For

City
 Administrator
 SCOTT
 FLORY

2016 Regenerative Air Street Sweeper

Elliott Equipment Company – Grimes, Iowa

SCHWARZE A7 TORNADO

COUNCIL MEMBERS

MARK
 EBELING
 Ward 1

TONY J.
 NELSON
 Ward 2

JIM
 BOEHNKE
 Ward 3

MIKE
 CALLANAN
 At Large

GARY
 HUGI
 At Large

Manufacturer's Purchase Price	\$204,847.89
Less Trade – 2005/2006 Johnston VT650	\$(25,000.00)
2 Year Extended Warranty – Sweeper Unit	\$ 1,850.00
5 Year Extended Warranty – Cummins Engine Chassis	\$ 1,625.00
5 Year Extended Warranty – Transmission	\$ 568.00
5 Year Extended Warranty – Rear Engine	\$ 772.00
Total Price:	\$184,662.89

Trans-Iowa Equipment, LLC – Ankeny, Iowa

ELGIN CROSSWIND

Manufacturer's Purchase Price	\$218,350.00
Less Trade – 2005/2006 Johnston VT650	\$(20,000.00)
Total Price:	\$198,350.00

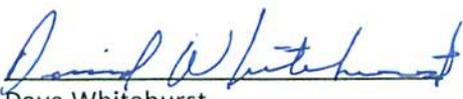
After review of the bids and specifications and demonstration of each sweeper, and taking into consideration previous experience and quality of service and serviceability of the sweeper, City Staff believes that the best bid is from Elliott Equipment Company of Grimes, Iowa. We recommend taking the trade allowance for the 2005/2006 Johnston VT650 sweeper and extended warranties as listed above for a total price of \$184,662.89 for the 2016 Regenerative Air Street Sweeper.

There were two items that made up the \$18,502.11 difference without extended warranties between the Elliott and Trans Iowa bids. It was the increase in cost of the Tier IV engine and the \$5,000 difference in trade allowance.

We budgeted \$220,000 in FY 2016 for the purchase of a new regenerative air street sweeper. Delivery is due within 75 days of the award.



 Joe Weigel



 Dave Whitehurst



Price Schedule

Regenerative Air Street Sweeper

Regenerative Street Sweeper

Purchase Price \$ 204,847.89

Less Trade Allowance: 2005/2006 Johnston VT 650 Sweeper

\$ 25,000

Extended Warranty – Chassis (If available)

\$ See Enclosed

Extended Warranty – Regenerative Air Street Sweeper Unit (If available)

\$ See Enclosed

Total Price:

\$ 179,847.89

Company: Elliott Equipment Company - Schwarze A7 Tornado
Address: 4000 SE Beisser Dr.
Grimes, IA 50263
Phone: 515-986-4840
Signature: *A. Schatz*
Date: 1/22/16
Delivery Date: 60 Days ARO

Please provide detailed literature for the Regenerative Air Street Sweeper and Chassis.

Please list and provide detailed literature of any standard and extended warranties.

Price Schedule

Regenerative Air Street Sweeper

Regenerative Street Sweeper

Purchase Price \$ 218,350.00

Less Trade Allowance: 2005/2006 Johnston VT 650 Sweeper

\$ 20,000.00

Extended Warranty – Chassis (If available)

\$ Will have to contact Chassis Dealer

Extended Warranty – Regenerative Air Street Sweeper Unit (If available)

\$ 7,900.00 5yr Parts/Labor

Total Price:

\$ 206,250.00

Company:

Trans-Iowa Equipment LLC Elgin Crosswind

Address:

4607 SE Rio Court

Ankeny IA 50021

Phone:

515-289-9994

Signature:

[Signature]

Date:

1/25/2016

Delivery Date:

5/30/2016

Please provide detailed literature for the Regenerative Air Street Sweeper and Chassis.

Please list and provide detailed literature of any standard and extended warranties.



3100 West 76th Street
 Davenport, IA 52806
 Ph: 563-391-4840

Elliott Sanitation Equip. Co.
 1245 Dawes Avenue
 Lincoln, NE 68521
 Ph: 402-474-4840

4000 SE Beisser Drive
 Grimes, IA 50111
 Ph: 515-986-4840
 Fx: 515-986-9530

14001 Botts Rd.
 Grandview, MO 64030
 Ph: 816-761-4840

City of Clear Lake
 PO Box 185
 Clear Lake, IA 50428-0185

Quote

Date	Quote #
1/22/2016	5858
Proposed Shipping Date	
60 days ARO	
Terms	
Due on receipt	
Rep	
CRS	
Customer Contact	
Dave	
Customer Alt. Phone	
(641) 357-6135	

Here is our quotation on the goods named, subject to the conditions noted:

CONDITIONS: The prices and terms on this quotation are not subject to verbal changes or other agreements unless approved in writing by the Home Office of the Seller. Prices are based on costs and conditions existing on date of quotation and are subject to change by the Seller before final acceptance. All quotations and agreements are contingent upon strikes, accidents, fires, availability of materials and all other causes beyond our control. Typographical and stenographic errors subject to correction. Purchaser agrees to accept either overage or shortage not in excess of ten percent to be charged for pro-rata. Purchaser assumes liability for patent and copyright infringement when goods are made to Purchaser's specifications. When quotation specifies material to be furnished by the purchaser, ample allowance must be made for reasonable spoilage and material must be of suitable quality to facilitate efficient production.

Conditions not specifically stated herein shall be governed by established trade customs. Terms inconsistent with those stated herein which may appear on Purchaser's formal order will not be binding on the Seller.

TERMS: Equipment is due on receipt. Carts, Containers, Parts, & Service are Net 30 unless otherwise noted on your account. Balances over 30 days from date of invoice are subject to finance charges up to 1 1/2% per month.

Qty	Item	Description	Price	Total
1	A7TORNADO	New Schwarze A7 Tornado regenerative air street sweeper with all standard features and the following: Dual gutter brooms with power tilt, dual GEO (gutter broom extension override), remote grease fittings for the fan, single camera system, 250 gallon water tank, water tank low level alarm and indicator, front spray bar, 8.4 cu yd hopper, hopper sound suppression, hopper dump assist shaker, hopper up alarm and indicator, hopper door open indicator, rear strobe light with guard, cab mounted strobe light with guard, standard 1 year (1,200 hour) warranty as noted in enclosed warranty document, 5 year (6,000 hour) hydraulic component warranty as noted in enclosed document, transportation for Schwarze warranty items See enclosed document for Schwarze and John Deere extended warranty options and pricing Option: Additional 350 gallon water tank add \$3,620 Option: Additional sweep head camera system add \$295 Option: Tier IV Final Engine add \$20,043	123,620.00	123,620.00T

Administrative Fee of \$150.00 will be added to all vehicle purchase transactions.

Total

TO CONFIRM ORDER, SIGN AND RETURN

X _____



3100 West 76th Street
Davenport, IA 52806
Ph: 563-391-4840

Elliott Sanitation Equip. Co.
1245 Dawes Avenue
Lincoln, NE 68521
Ph: 402-474-4840

4000 SE Beisser Drive
Grimes, IA 50111
Ph: 515-986-4840
Fx: 515-986-9530

14001 Botts Rd.
Grandview, MO 64030
Ph: 816-761-4840

City of Clear Lake
PO Box 185
Clear Lake, IA 50428-0185

Quote

Date	Quote #
1/22/2016	5858
Proposed Shipping Date	
60 days ARO	
Terms	
Due on receipt	
Rep	
CRS	
Customer Contact	
Dave	
Customer Alt. Phone	
(641) 357-6135	

Here is our quotation on the goods named, subject to the conditions noted:

CONDITIONS: The prices and terms on this quotation are not subject to verbal changes or other agreements unless approved in writing by the Home Office of the Seller. Prices are based on costs and conditions existing on date of quotation and are subject to change by the Seller before final acceptance. All quotations and agreements are contingent upon strikes, accidents, fires, availability of materials and all other causes beyond our control.

Typographical and stenographic errors subject to correction. Purchaser agrees to accept either overage or shortage not in excess of ten percent to be charged for pro-rata. Purchaser assumes liability for patent and copyright infringement when goods are made to Purchaser's specifications. When quotation specifies material to be furnished by the purchaser, ample allowance must be made for reasonable spoilage and material must be of suitable quality to facilitate efficient production.

Conditions not specifically stated herein shall be governed by established trade customs. Terms inconsistent with those stated herein which may appear on Purchaser's formal order will not be binding on the Seller.

TERMS: Equipment is due on receipt. Carts, Containers, Parts, & Service are Net 30 unless otherwise noted on your account. Balances over 30 days from date of invoice are subject to finance charges up to 1½% per month.

Qty	Item	Description	Price	Total
1	M2	New 2016 Freightliner M2 chassis with Cummins ISB 6.7 liter 200 HP diesel engine, Allison 2500RDS automatic transmission, dual sit down steering, 12,000 lb front axle with 12,000 lb taper leaf spring suspension, 21,000 lb rear axle with spring suspension, 12" parabolic mirror set, basic vehicle warranty of 24 months unlimited distance, drive train components warranty of 24 months unlimited distance, cab structure and sheet metal, cab corrosion, frame rails and cross members warranty of 60 months unlimited distance See enclosed document for Freightliner, Cummins, and Allison extended warranty options and pricing	79,360.00	79,360.00T
1	Freight	Freight from Huntsville, AL to Grimes, IA	1,867.89	1,867.89
	Trade In	Customer Trade In Discount for 2005/2006 Johnston VT 650 sweeper	-25,000.00	-25,000.00
		Customers Exempt From Sales Tax	0.00%	0.00

****Administrative Fee of \$150.00 will be added to all vehicle purchase transactions.****

Total \$179,847.89

TO CONFIRM ORDER, SIGN AND RETURN

X _____

Extended Warranty Options and Pricing

Schwarze Sweeper

2 years or 2,400 hours - \$1,850

3 years or 3,600 hours - \$4,590

4 years or 4,800 hours - \$6,650

5 years or 6,000 hours - \$8,450

Cummins Engine

Cummins PP1 - 5 years or 150K miles - \$1,150

Cummins ATD - 5 years or 150K miles - \$475

> 1625

Allison Transmission

Allison 2500RDS - 5 years unlimited miles - \$568

Freightliner Chassis

Freightliner TC4 - 5 years or 150K miles - \$2,330

John Deere Tier III Engine

5 years or 2000 hours - \$637

5 years or 3000 hours - \$701

5 years or 4000 hours - \$772

5 years or 5000 hours - \$849

5 years or 10,000 hours - \$1,910

John Deere Tier IV Engine

5 years or 2000 hours - \$898

5 years or 3000 hours - \$988

5 years or 4000 hours - \$1,088

5 years or 5000 hours - \$1,196

5 years or 10,000 hours - \$2,690

Standard Warranty Information

Schwarze Sweeper Warranty

See enclosed Schwarze Sweeper 12 Month Limited Warranty document

Schwarze Hydraulic Warranty

See enclosed Schwarze 5 Year Hydraulic Component Limited Warranty Document

Freightliner Warranty

Basic vehicle warranty of 24 months unlimited distance

Drive train components warranty of 24 months unlimited distance

Cab structure and sheet metal, cab corrosion, frame rails and cross members warranty of 60 months unlimited distance

SCHWARZE 5 YEAR HYDRAULIC COMPONENT LIMITED WARRANTY

Schwarze Industries, Inc. ("seller") provides warranty coverage to the original purchaser on Hydraulic Components (as defined below) for all new equipment sold and operated in the United States of America, manufactured by seller, and purchased from an authorized Schwarze dealer. The Hydraulic Components are warranted to be free from defects in materials and/or workmanship, under normal operating conditions, and when used in a proper application, for a period of 5 years from the date of retail sale to the original purchaser, or 6000 hrs of operation, whichever occurs first, provided all recommended maintenance is performed as scheduled.

Seller's sole obligation with respect to this Schwarze 5 Year Hydraulic Component Limited Warranty (the "Limited Warranty") shall be to replace or repair, at seller's sole option, any part, parts or workmanship which proves to be defective during the warranty period.

This Limited Warranty shall not apply unless purchaser uses OEM approved filters and has annual warranty inspections performed by an authorized Schwarze dealer. Failure to perform the annual inspections will result in forfeiture of the Limited Warranty and coverage will revert to the Schwarze Sweeper 12 Month Limited Warranty. Proof of purchase will be required to substantiate all warranty claims. All warranty work must be performed by an authorized Schwarze dealer. Any work done on or to the equipment by anyone other than an authorized Schwarze dealer, including the original purchaser, voids all provisions of this Limited Warranty except those provisions which limit seller's liability.

Hydraulic Components include hydraulic pumps, hydraulic motors, and fittings. This Limited Warranty does not cover cylinders, valves, hoses, filters, seals, reservoirs, or anything else other than the Hydraulic Components.

Warranty repairs and annual inspections shall be performed at the seller's home office (1055 Jordan Rd, NE Huntsville, AL. 35811) or, at the seller's sole option, at the Schwarze authorized dealer nearest to the purchaser's location. The cost of delivering the equipment for repairs and inspections shall be the responsibility of the original purchaser.

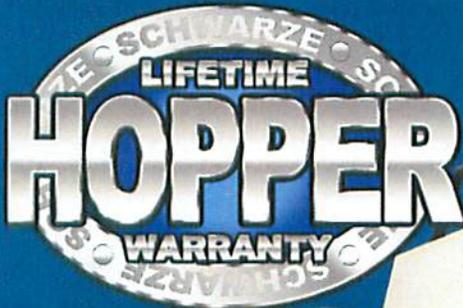
WARRANTY DISCLAIMER

Except for the warranties stated herein, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SELLER SHALL NOT UNDER ANY CIRCUMSTANCES BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL SUCH AS, BUT NOT LIMITED TO, DAMAGE OR LOSS OF OTHER PROPERTY OR EQUIPMENT, LOSS OF PROFITS OR REVENUE, COST OF CAPITAL, COST OF PURCHASE OR REPLACEMENT GOODS, OR CLAIMS OF CUSTOMERS OF PURCHASER FOR SERVICE INTERRUPTIONS

This warranty is not transferable, without prior written approval by seller.



The People You Know. The Products You Trust.



A7 Tornado™

8.4 Cubic Yard Regenerative Air Street Sweeper

*Sweeper shown with optional equipment



- PM 10 Certified
- WhisperWheel Fan Technology
- Schwarze Sweeps-in-Reverse
- DC Auxiliary Hydraulic Pump

Quality	Performance	Public Safety	Value	Customer Support

800.879.7933

www.schwarze.com

A7 Tornado™

8.4 Cubic Yard Regenerative Air Street Sweeper



AMERICAN BUILT -
AMERICAN MADE

Abrasion Resistant Steel in Critical Wear Areas:
For longer life expectancy

8.4 Cubic Yard Hopper Capacity:
Increased hopper capacity for increased production and less dumps

Whisper Wheel™ Fan System:
70% quieter, uses 20% less fuel and 7% more powerful than an open face fan design

Optional Equipment:

- 8" auxiliary hand hose
- Extra 350 gallon polyethylene water tank
- Mechani-Pneumatic Powerhood (broom assisted head)
- In-cab tilt controls for gutter brooms
- Stainless steel hopper

Sweeps-in-Reverse™:
Eliminates the need for the operator to raise the sweeping head to reverse

Camera System: Remote cameras with in-cab video monitor and sound suppression system

Optional: Up to 3 cameras

Optional Equipment: Gutter Broom Extension Override™: Increased usability of gutter brooms and expands the versatility in various applications, while eliminating the need for a center broom



Saw Tooth Screens: Increased screen surface area eliminates the need for a screen vibrator and lowers cost of operation

PM 10 Certified: Meets AQMD 1186 requirements to pick up and contain harmful particulates

Reduced Noise Levels: Reduces operator stress & increases ability to operate in noise sensitive areas



Bolt in Pressure & Transition Tubes: Ease of maintenance

Custom Made-to-order Hydraulic Hoses: Reduces contamination in hydraulic system & reduces downtime

Recessed Gutter Broom Discs with Shielded Broom Motor: Reducing the chance of string and twine wrapping around gutter broom motor shaft

Optional: Down pressure control

90"x36" Sweeping Head: Increased productivity with a larger area of influence (quicker transfer and no bulldozing)

Standard 12V DC Hydraulic Pump: Able to raise and lower the sweeping head, brooms & hopper without the use of the auxiliary engine

Also Available from Schwarze Industries, Inc:



*Optional Equipment Shown



Parts Availability: Schwarze original equipment parts are available when you need them.



Empowered and Responsive: Schwarze People are valued for their commitment to our future.

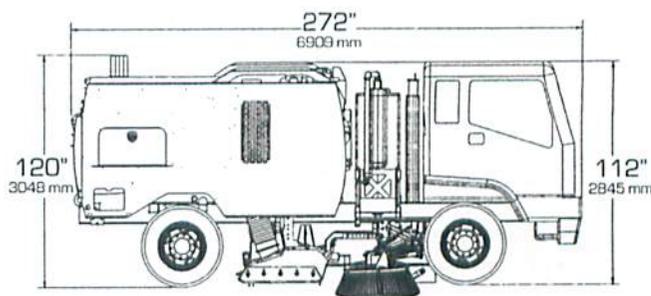


Schwarze Products: Engineered for enhanced performance and low ownership cost.



Warranty Support: Schwarze people are on duty to support you and your equipment.

Schwarze equipment is guaranteed to be free from defects due to faulty materials and/or workmanship for a period of 12 months, or 1200 hours. Liability is limited to replacement of defective parts at factory or authorized dealer. The standard warranties of the chassis and auxiliary engine manufacturer shall apply.



*TYPICAL MEASUREMENTS SHOWN, EXACT DIMENSIONS DEPENDING ON OPTIONS AND TRUCK MANUFACTURER

SWEEPING PATH

Pickup head only	90" (2,286mm)
Pickup head and one gutter broom	117" (2,972mm)
Pickup head and two gutter brooms	144" (3,658mm)

CHASSIS

Mounts on various chassis to meet requirements

SWEEPER BODY

Construction	Welded 10-gauge steel plate with 3/16 steel hopper floor.
Safety props	Dual steel bars located under body

INSTRUMENTATION

Sweeper engine	Tachometer; hourmeter; voltmeter; temperature gauge; oil pressure gauge
----------------	---

STANDARD ENGINE

Model/type	4045T in-line 4 cylinder
Aspiration	Turbo-charged diesel
Manufacturer	John Deere
Displacement	275 cu. in. (4.5l)
Brake horsepower	115hp (86kw) @ 2400 rpm (opt. 140hp) @ 1500rpm
Torque	317ft-lb (430Nm) @ 1500rpm
Air cleaner	Precleaner: centrifugal type; air cleaner: dry type with safety element
Oil filter	Full-flow/spin-on
Stroke	5.00" (127mm)
Bore	4.20" (106mm)
Compression ratio	19.0 to 1
Safety shutdown	Three-point automatic
Throttle control	Electronic

ELECTRICAL SYSTEM

Voltage	12 volt
Sweeper engine alternator	65 amperes

DUST CONTROL SYSTEM

Type	High pressure/low volume
Capacity	250 gallon (946 l)
Tank construction	Polyethylene filter; 200 mesh; cleanable
Fill diameter	2.5" (63.5mm)
Fill hose	25 foot (7620mm)
Controls	Electric; in-cab

Dust control system cont'd

Nozzles	2 on each broom; 5 around suction head; 2 inside suction nozzle; 2 on front axle; 2 inside hopper
Water level gauge	In-cab

BLOWER SYSTEM

Type	Closed-face radial
Drive	Direct via 5 groove; banded power belt
Construction	Hardox steel
Balance	1.5 grams on 2 sides
Diameter	32.75" (832mm)
Housing lining	Bolt-in corded rubber
Mounting	2 regreaseable sealed bearings
Vacuum enhancer	For heavy/light material; in-cab indicator

PICKUP HEAD

Type	Dual chambered full-width blast orifice
Operating direction	Forward and reverse
Suspension	Adjustable spring balanced
Length	90" (2,286mm)
Pressure hose diameter	14" (355.6mm)
Suction hose diameter	14" (355.6mm)
Hose construction	3/8" (9.5) wire-reinforced molded rubber
Head area	3,240sq. in. (20,903cm ²)
Controls	Hydraulic raise and lower
Skids	Double wide tungsten carbide
Construction	Abrasion-resistant steel inlet and outlet transitions.

PAINT

One coat of sealer/primer and two coats of Dupont imron elite polyurethane in standard white color

SIDE BROOMS

Type	Vertical steel digger
Location	Right; left; forward of pickup head
Diameter	44" (1,118mm)
Drive	Hydraulic
Suspension	Torque-sensing spring
Wear adjustment	Automatic

Side brooms cont'd

Pressure	Manual
Speed	Variable; non-reversing
Segments	5 each side; disposable
Tilt angle adjustment	Manual with optional in-cab controls

DEBRIS HOPPER

Volumetric capacity	8.4 cubic yards (6.4 cu. meters)
Useable Capacity	7.0 cubic yards (5.4 cu. meters)
Dump angle	53 degrees
Floor angle	3 degrees
Lifting	Twin hydraulic cylinders open/close/lock hydraulically
Hopper dump door	1 on left side of hopper
Inspection doors	Sawtooth drop down design
Screens	

HYDRAULIC SYSTEM

Type	Dual output 2 section
Pump capacity	6.5 gpm @1800rpm (24.6l/min.) per section for 13gpm total
Drive	Direct gear
Maximum pressure	2500psi (173bar)
Reservoir	25 gallons (94 liters)
Filter	10 micron; spin on
Protection	Pressure relief valve
Controls	Electro-hydraulic

AUXILIARY HYDRAULIC SYSTEM

Type	Gear type; driven by electric motor
Function	Raise/lower hopper; open/close hopper door; raise/lower brooms and pickup head

Note: Design and specifications subject to change without notice.

Affiliates:



Schwarze Industries, Inc.
1055 Jordan Road
Huntsville, AL 35811
800.879.7933
An Alamo-Group Company

