



# City of Grand Island

Tuesday, March 8, 2016

Council Session

## Item G-14

**#2016-51 - Approving Purchase of a New Heated Rubberized Asphalt Crack Sealing Machine for the Street Division**

Staff Contact: John Collins, P.E. - Public Works Director

# Council Agenda Memo

**From:** Shannon Callahan, Street Superintendent

**Meeting:** March 8, 2016

**Subject:** Approving Purchase of a New Heated Rubberized Asphalt Crack Sealing Machine for the Street Division

**Presenter(s):** John Collins PE, Public Works Director

## Background

The Streets Division of the Public Works Department has funds budgeted in the 2015-2016 fiscal year for a new heated rubberized asphalt crack sealing machine. This equipment is used to heat and apply rubberized material for sealing cracks on asphalt and concrete streets. Crack sealing is performed annually by the Streets Division as preventive maintenance on the roadways.

The new unit will be replacing Unit 255, a 2000 Crafc0 EZ 200. Unit 255 has approximately 1,900 hours and a repair cost to purchase price ratio of 1.37. Once the new unit is received, the used equipment will first be offered as Interdepartmental Transfer/Sale. Barring any interest from other Departments the used equipment will be declared and sold as surplus.

## Discussion

The equipment specifications for a heated rubberized asphalt crack sealing machine awarded under State of Nebraska Contract No. 13691 OC to Logan Contractors Supply of Omaha, Nebraska meets all the requirements for the Streets Division (brochure attached). The purchase price of the new heated rubberized asphalt crack sealing machine under the State of Nebraska Contract will be \$35,677.00.

## Alternatives

It appears that the Council has the following alternatives concerning the issue at hand. The Council may:

1. Move to approve
2. Refer the issue to a Committee
3. Postpone the issue to future date

4. Take no action on the issue

### **Recommendation**

City Administration recommends that the Council approve the purchase of a new heated rubberized asphalt crack sealing machine using the State of Nebraska Contract No. 13691 OC awarded to Logan Contractors Supply of Omaha, Nebraska for a purchase price of \$35,677.00.

### **Sample Motion**

Move to approve the resolution.

# “The high efficiency Melter”

## **EZ SERIES II 500**

- Available in four base configurations
- Standard Base (non electric hose)
- Standard Compressor
- Electric Base (electric hose)
- Electric Compressor



“Shorter Design”

The EZ Series II 500 (500 liter, 132 gallon) unit is designed to be maneuverable and easily towed with all the advantages of its bigger brothers. This is the perfect machine for the mid-size city, county, or contractor. The superior heat and recovery time make the EZ Series II 500 ideal for that parking lot or the city street when time is of the up most importance. Most of the EZ Series 1000 and the EZ Series 1500 options are available for this versatile unit as well.



## **EZ SERIES II 1000**

- Available in four base configurations
- Standard Base (non electric hose)
- Standard Compressor
- Electric Base (electric hose)
- Electric Compressor

All EZ Series II 1000's come standard with a 2" sealant pump, corrosive resistant tank jacket, two part epoxy paint and one piece frame construction. Choose the unit and options that are right for you by consulting with your local Crafcro representative.



Low Profile/Low Center of Gravity

# "Highest Volume, highest production"

## HIGH EFFICIENCY HEAT TRANSFER TOWER

### EZ SERIES II 1500

Available in six base configurations

Standard Base (non electric hose)

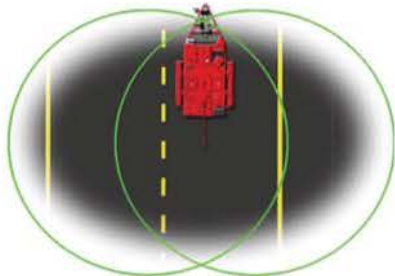
Standard Compressor

Electric Base (electric hose)

Electric Compressor

Double Pump (standard base)

Double Pump Electric (electric hose)



Double Hoses Provide a Wider Range of Coverage for Increased Productivity.



This rugged unit is available in a single hose configuration or the first truly independent twin hose system. The twin hose unit features separate controls, two jacketed pumps, two hoses, two hose booms and two wands that all work independently.

### Specifications

#### EZ SERIES II 500 (132 Gal.)

#### EZ SERIES II 1000 (265 Gal.)

#### EZ SERIES II 1500 (396 Gal.)

#### EZ SERIES II 1500 (396 Gal. Double Pumper)

	EZ SERIES II 500 (132 Gal.)	EZ SERIES II 1000 (265 Gal.)	EZ SERIES II 1500 (396 Gal.)	EZ SERIES II 1500 (396 Gal. Double Pumper)
Dimensions	- 172.75"L / 73.50"W / 86.88"H (w/compressor 197.75"L/73.5"W/86.88"H)	- 189"L / 91.75"W / 90.75"H	- 200"L / 94.13"W / 92.31"H	- 200"L / 94.13"W / 92.31"H
Shipping Weight	- 4,180 lbs / 1,896 kg - Actual (w/compressor 4,920lbs/2231kg)	- 5,632 lbs / 2,507 kg - Actual	- 6,700 lbs / 3,039 kg - Actual	- 6,700 lbs / 3,039 kg - Actual
Gross Weight	- 5,480 lbs. / 2,486 kg - Approx.	- 7,753 lbs. / 3,526 kg - Approx.	- 10,600 lbs. / 4,808 kg - Approx.	- 10,600 lbs. / 4,808 kg - Approx.
Material Capacity	- 132 Gal. / 500 liter	- 265 Gal. / 1000 liter	- 396 Gal. / 1500 liter	- 396 Gal. / 1500 liter
Melt Rate	- 1,100 lbs/hr	- 2,100 lbs/hr	- 2,800 lbs/hr	- 2,800 lbs/hr
Approx. Heat Transfer Oil	- 21.5 Gal / 80 liter	- 33.5 Gal / 126.8 liter	- 45.50Gal / 170.34 liter	- 45.50Gal / 170.34 liter
Tank Construction	- Double Boiler w/ Center Column	- Double Boiler w/ Center Column	- Double Boiler w/ Center Column	- Double Boiler w/ Center Column
Tank Opening	- 14" X 18" / 355.6mm X 457.2mm	- (2) 14" X 18" / 355.6mm X 457.2mm	- (1) 16" X 24" / 40.6cm X 60.9 cm (1) 14" X 18" / 35.6mm X 457.2cm	- (1) 16" X 24" / 40.6cm X 60.9 cm (1) 14" X 18" / 35.6mm X 457.2cm
Loading Height	- 53.0 in. / 134.5 cm	- 56.0 in. / 143.5 cm	- 56.0 in. / 143.5 cm	- 56.0 in. / 143.5 cm
Heat Input	- 250,000 Btu	- 290,000 Btu	- 420,000 Btu	- 420,000 Btu
Diesel Fuel Capacity	- 30 Gal. / 113.5 Liter	- 30 Gal. / 113.5 Liter	- 30 Gal. / 113.5 Liter	- 30 Gal. / 113.5 Liter
Hydraulic Oil Capacity	- 24 Gal. / 90.8 Liter	- 24 Gal. / 90.8 Liter	- 24 Gal. / 90.8 Liter	- 24 Gal. / 90.8 Liter
Engine Standard	- Three Cyl. Isuzu Mod 3CH1 21.2 BHP @ 3,000 RPM	- Three Cyl. Isuzu Mod 3CH1 21.2 BHP @ 3,000 RPM	- Three Cyl. Isuzu Mod 3CH1 21.2 BHP @ 3,000 RPM	- Three Cyl. Isuzu Mod 3CE1 35.5 BHP @ 3,000 RPM**
Engine Option(W/Compressor)	- Three Cyl. Isuzu Mod 3CD1TK 41.6 BHP @ 3,000 RPM*	- Three Cyl. Isuzu Mod 3CD1TK 41.6 BHP @ 3,000 RPM	- Three Cyl. Isuzu Mod 3CD1TK 41.6 BHP @ 3,000 RPM	- NA
Axle Capacity	- Single 5,200 lb. / Torsional (w/compressor Dual 5,200 lbs)	- Dual 5,200 lb. / Torsional ea.	- Dual 6,000 lb. / Torsional ea.	- Dual 6,000 lb. / Torsional ea.
Tires	- ST225/75 R15	- ST225/75 R15	- ST225/80 R16	- ST225/80 R16
Air Compressor (Optional)	- 63CFM @ 100PSI	- 63CFM @ 100PSI	- 63CFM @ 100PSI	- 63CFM @ 100PSI
Surface Area-Material Tank	- 4,810 in <sup>2</sup> 30,552 cm <sup>2</sup>	- 7,406 in <sup>2</sup> 47,780 cm <sup>2</sup>	- 9,448 in <sup>2</sup> 60,954 cm <sup>2</sup>	- 9,448 in <sup>2</sup> 60,954 cm <sup>2</sup>
Surface Area-Oil Tank	- 5,011 in <sup>2</sup> 31,829 cm <sup>2</sup>	- 7,676 in <sup>2</sup> 49,522 cm <sup>2</sup>	- 9,921 in <sup>2</sup> 64,006 cm <sup>2</sup>	- 9,921 in <sup>2</sup> 64,006 cm <sup>2</sup>
Ratio of Tank surface Area	- 1.04:1	- 1.04:1	- 1.05:1	- 1.05:1
Controls	- Digital	- Digital	- Digital	- Digital
Control Location	- Rear Control Station	- Rear Control Station	- Rear Control Station	- Dual Digital Rear Control Stations
Hose Style	- Standard or Electric	- Standard or Electric	- Standard or Electric	- Standard or Electric
Wand Style	- Standard or Electric	- Standard or Electric	- Standard or Electric	- Standard or Electric
Hose Compartment	- Yes	- Yes	- Yes	- Yes
Material Recirculation	- Yes	- Yes	- Yes	- Yes
Boom	- Sliding Bearing	- Sliding Bearing	- Sliding Bearing	- Sliding Bearing
Burner Box	- Removable From Side	- Removable From Side	- Removable From Side	- Removable From Side

\* Non-Heated Hose & Compressor - 3CE1 35.5 BHP@3000RPM

\*\* W/Electric Hose - #CD1TK 41.6 BHP@3,000RPM

For bid specifications go to

[www.crafco.com](http://www.crafco.com)

**+1.800.528.8242**

RESOLUTION 2016-51

WHEREAS, the Streets Division of the Public Works Department for the City of Grand Island, budgeted for a new heated rubberized asphalt crack sealing machine in the 2015/2016 fiscal year; and

WHEREAS, the State of Nebraska Contract No. 13691 OC meets all equipment specifications and all statutory bidding requirements; and

WHEREAS, the State of Nebraska awarded said contract to Logan Contractors Supply of Omaha, Nebraska.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that a purchase order and subsequent payment is authorized for a new heated rubberized asphalt crack sealing machine in the amount of \$35,677.00 from Logan Contractors Supply of Omaha, Nebraska.

---

Adopted by the City Council of the City of Grand Island, Nebraska, March 8, 2016.

\_\_\_\_\_  
Jeremy L. Jensen, Mayor

Attest:

\_\_\_\_\_  
RaNae Edwards, City Clerk

Approved as to Form	□ _____
March 4, 2016	□ City Attorney