



STAFF REPORT

TOWN COUNCIL MEETING OF OCTOBER 13, 2015

To: Town Council

From: Brit Snipes, Public Works Director
Dave Strock, Public Works Lead

Subject: Purchase of One Vermeer BC900XL Brush Chipper

Date: October 2, 2015

RECOMMENDATION:

Staff recommends that the Town Council authorize the Town Manager to purchase a wood chipper including delivery, training and associated safety gear in an amount not to exceed \$27,000.

DISCUSSION:

The Town's maintenance crews will benefit greatly from a wood chipper. Currently trimming trees requires two trucks. The first truck carries the tools and has the bucket to reach the limbs; the second truck is the dump truck to haul the trimmings. The round trip to dump the trimmings typically takes 2 hours to secure the trimmings, drive time, preparing the material to dump, dumping it and returning to the job site.

A wood chipper will condense the amount of trimming into about one sixth the volume of unchipped trimmings. This will allow the crew to complete the work using only one truck, saving gas, time and effort. In addition, bins will be constructed at the Town's corporation yard so that the tree trimmings can be made available to the public for landscaping material. Providing a benefit to residents as well as reducing the amount of solid waste the town is ultimately responsible for.

Town Staff researched several different wood chipper manufactures, safety hardware and sizes. Given the Town's existing trucks and tree trimming needs, it was determined that a 9" chipper is the appropriate size for the Town. Similar bids were provided by two local dealers.

- Cal Line Equipment 9" Brush Bandit \$ 22,895.46

- RDO Equipment 9" Vermeer BC900XL \$ 25,792.88

Staff determined that the bid from RDO Equipment for the Vermeer BC900XL is the most responsive bid and the best option for the Town. The Vermeer comes with superior built in safety equipment, quality, warranty and spare parts.

CEQA :

This discussion is exempt from CEQA.

FINANCIAL IMPLICATIONS:

This proposed purchase of a Vermeer BC900XL with training and associated safety equipment would cost \$ 27,000 from Fund 560 Solid Waste Reduction account (Total Available \$30,000)



Investment Proposal (Quote)

RDO Equipment Co.
 3980 Research Drive
 Sacramento (VM) CA, 95838
 Phone: (916) 643-0999 - Fax: (916) 643-0998

Proposal for:
 TOWN OF LOOMIS
 3665 TAYLOR ROAD
 LOOMIS, CA, 95650
 PLACER
 (916) 652-1840

Investment Proposal Date: 8/4/2015
 Pricing Valid Until: 9/3/2015
 Deal Number: 799806
 Customer Account#: 1840027
 Account Manager: Kevin Connors
 Phone: (916) 643-0999
 Fax: (916) 643-0998
 Email: KConnors@rdoequipment.com

Equipment Information

Quantity	Serial Number	Hours (approx.)	Status / Year / Make / Model Additional Items	Cash Price
1	1VRF102Y7F1000543	0	New 2015 VERMEER BC900XL	\$24,350.00
			Freight In	\$900.00
			Prep / Reconditioning PDI	\$175.00
			Customer Discount RDO INSTANT DISCOUNT	(\$1,500.00)
Equipment Subtotal:				\$23,925.00

Purchase Order Totals

Balance:	\$23,925.00
Total Taxable Amount:	\$23,925.00
Tax Rate 3: (CAPL 7.5%)	\$1,794.38
Sales Tax Total:	\$1,794.38
PrePaid Tax License:	\$70.00
CA Tire TAX:	\$3.50
Sub Total:	\$25,792.88
Cash with Order:	\$0.00
Balance Due:	\$25,792.88

Equipment Options

Quantity	Serial Number	Year / Make / Model	Description
1	1VRF102Y7F1000543	2015 VERMEER BC900XL	BC900XL020 - ~BC900XL 3500 LBS AXLE W/O ELEC BRAKE & TIRES BC900XL040 - ~BC900XL RIGHT SIDE CONTROLS BC900XL056 - ~BC900XL DOMESTIC 7-WAY RV TRAILER PLUG BC900XL060 - ~BC900XL PINTLE HITCH



Vermeer BC900XL



The Vermeer BC900XL brush chipper was designed to eliminate the guesswork out of chipping. No chucking. No ducking. Just smooth chipping performance. Able to chip heavily branched material up to 9" (23 cm) in diameter and 14" (35.5 cm) wide, the BC900XL is ideal for line clearing and general clean-up needs. In combination, the Vermeer exclusive SmartFeed system, and its 35 hp (26.1 kW) Briggs and Stratton Gas Engine, pulls in and processes difficult material.

Specifications

General Dimensions and Weights

- Length - Feed Table Up, Tongue In:** 140.4 " (356.6 cm)
- Length - Table Down, Tongue Extended:** 154.8 " (393.2 cm)
- Width:** 79.5 " (201.9 cm)
- Height:** 101.5 " (257.8 cm)
- Weight - Engine Option One:** 2980 lbs (1351.7 kg)
- Tongue Weight - Engine Option One:** 300 lbs (136.1 kg)

Engine Option One

- Make and Model:** Briggs and Stratton Vanguard
- Gross Horsepower (Maximum):** 35 hp (26.1 kw)
- Torque (Max):** 53 ft-lb (71.9 Nm)
- Fuel Tank Capacity:** 15 gal (56.8 L)
- Max Fuel Consumption:** 3.2 gph (12.1 lph)
- Fuel Type:** Gasoline
- Air Cleaner:** Dry-type safety element and restriction indicator
- Oil Filter:** Spin-On
- Recommended Oil:** 10W30
- Oil Volume with Filter:** 2 qt (1.9 L)
- Cooling Medium:** Air
- Alternator:** 20 amp
- Clutch Drive Engagement:** Clutchless PTO or centrifugal clutch

Feed System

- Feed Roller Orientation:** Horizontal
- Number of Feed Rollers:** 1
- Feed Roller Clamp Load:** 484 lbs (219.5 kg)
- Feed Roller Clamp Type:** Feed roller weight only
- Feed Roller Dimension:** 15.8" dia x 13.5" long (40 cm x 34.3 cm)
- Number of Knives:** 12
- Weight of Feed Roller:** 210 lbs (95.3 kg)
- Number of Feed Roller Motors:** 1
- Motor Displacement:** 33.1 CID
- Motor Manufacturer:** White
- Feed Speed:** 140 ft/min
- Infeed Table Width:** 48 " (121.9 cm)



Vermeer BC900XL

Infeed Table Length: 25 " (63.5 cm)
Infeed Hopper Height: 32 " (81.3 cm)
Infeed Throat Capacity: 9" (23 cm)
Pinch Point - Distance to End of Feed Table: 66 " (167.6 cm)
Distance from Feed Table to Ground: 29 " (73.7 cm)
Infeed Table Material Thickness: .2 " (.5 cm)

Safety System

Bottom Feed Stop Bar: Standard
Bottom Feed Stop Bar Diameter: 2 " (5.1 cm)
Bottom Feed Stop Bar Material Thickness: 11 GA
Actuation Force (BFSB): 34 lbs (15.4 kg)
Normal Sensitivity: 22 deg
Reduced Sensitivity: 12 deg
Reset Method: Dual green hold-to-run buttons
Four Position Feed Control Bar: Standard
Diameter: 2 " (5.1 cm)
Material Thickness: .1 " (.3 cm)
Positions: Four positions: Emergency stop, forward, stop and reverse
Actuation Force: 34 lbs (15.4 kg)
Green Hold to Run Button: Standard

Drum/Disc Cutting System

Material Capacity: 9 " (22.9 cm)
Thickness: 1 " (2.5 cm)
Diameter: 33 " (83.8 cm)
Speed: 1400 rpm
Weight With Shaft: 330 lbs (149.7 kg)
Safety Lock - Number of Positions: 6
Number of Knives: 2
Knife Thickness: .6 " (1.6 cm)
Material: A8 chipper steel
Useable Edges: 2
Knife Size: 5" x 11.75" (12.7 cm x 29.8 cm)
Number of Bolts/Knife: 5
Replaceable Threaded Knife Block: Yes
Number of Paddles: 2
Fixture Method: Bolt-on
Air Flow: 933 cfm
Bedknife Size: 5" x 12.1" (12.7 cm x 30.7 cm) horizontal and 5" x 8.8" (12.7 cm x 22.4 cm) vertical
Bedknife Thickness: .8 " (1.9 cm)
Bedknife Material: Grade 50
Bedknife - Number of Useable Edges: 2

Cutter Drive Components - Engine Option One

Number of Bearings: 2
Bore: 2.2 " (5.6 cm)



Vermeer BC900XL

Type: Dual spherical roller

Manufacturer: Linkbelt

Dynamic Capacity: 31400 lbs (14242.8 kg)

Static Capacity: 54500 lbs (24720.8 kg)

Belt Idler/Tensioner: Yes

Belt Type: Chipper - Polyester Cord with wrap

Discharge System

Chute Height: 96.7 " (245.6 cm)

Bottom Thickness: .1 " (.2 cm)

Top Thickness: .1 " (.3 cm)

Side Wall Thickness: .1 " (.3 cm)

Deflector Thickness: .1 " (.3 cm)

Chute Rotation Angle: 270 deg

Rotation Type: Manual dual handles with pin lock

Rotational Lock: Yes

Hydraulic System

Tank capacity: 6.8 gal (25.7 L)

Recommended Oil Type: Vermeer VMF Gold

System Type: Tandem Center

Filtration Method: 10 micron return

Pump Flow at Maximum RPM: 4.7 gpm (17.8 L/min)

System relief pressure: 2500 psi (172.4 bar)

Auto Reverse PSI: 2300 psi (158.6 bar)

Electrical System

System Voltage: 12 V

Battery: Group 24 - 580 CCA

Standard Gauges: Hour meter

Controller: Vermeer ACS

Shutdown System: Engine

Chassis

Frame Description: 3/16" x 5/6" (.5 cm x 14.2 cm) Z-channel

Tongue Description: 3" x 5" 3/16" (7.6 cm x 12.7 cm x .5 cm) Tube

Hitch Type: Pintle or ball

Fender Description: Bolt-on

Axle/Suspension: 3500 lb (1587.6 kg)

Type - Option One: Rubber torsional

Manufacturer - Option One: Dexter

Capacity - Option One: 3500 (1587.6 kg)

Tires - Option One: ST215/75R14

Wheels - Option One: 14" (35.6 cm)

Axle/Suspension - Option Two: 3500 lb (1587.6 kg) with electric brakes

Type - Option Two: Rubber torsional

Manufacturer - Option Two: Dexter

Other Options



Vermeer BC900XL

Special Paint: Yes

Extended Warranty: Yes

Preventive Maintenance: Yes

Features & Benefits

Feature: Optional Centrifugal Clutch

Description: Clutch that uses centrifugal force to engage itself. The inner shaft spins with the engine and as rpms are increased, it causes weighted arms to swing outward to engage the outer shaft which runs a belt and engages the disc on the brush chipper at 1500 rpm.

Benefit: The centrifugal clutch engagement helps prevent the belt from slipping when engaging the clutch, which can mean fewer maintenance costs.

Feature: Bottom Feed Stop Bar

Description: The bottom feed stop bar is strategically located to make it possible for an operator's leg to strike the bar and shut off the feed mechanism, either intentionally or automatically in an emergency situation. Reset/Hold-to-run buttons on each side of the infeed housing allow the operator to readily reset the system if the bar is tripped.

Benefit: Helps to increase operator safety while feeding material.

Feature: SmartFeed

Description: SmartFeed is a patented feed sensing control system which monitors engine rpm and automatically stops and reverses feed rollers when feeding larger, hardwood material. SmartFeed also senses feed roller jams and responds by automatically shifting material back and forth, reducing the need for manual control bar manipulation. With a simple switch, operator can choose between three rpm droop settings to fit the job's specific application.

Benefit: This exclusive system from Vermeer helps increase operator productivity and reduces strain on vital engine parts, as rpm settings are adjustable and automatically monitored.

Feature: Large Infeed Opening

Description: 9" x 14" (23 cm x 35.6 cm) rectangular opening is capable of taking material up to 9" (22.9 cm) in diameter.

Benefit: The larger infeed opening makes feeding irregular material easier and decreases the amount of saw cuts needed prior to feeding the chipper.

Feature: Four-Position Feed Control Bar

Description: A four-position feed control bar is positioned within easy reach of the infeed housing and allows the operator to control the forward or reverse direction of the feed rollers. In addition, the operator can push or pull the feed control bar, stopping the feed roller.

Benefit: This design allows the operator to easily control feed direction and provides an additional way to stop the infeed, enhancing operator safety.

Feature: Dual-Edge Cutter Knives

Description: Dual-edge cutter knives feature two usable edges

Benefit: This helps increase knife life by using two usable edges rather than one.

Vermeer BC900XL

Feature: Machine Weight

Description: With clutchless PTO the overall weight of the machine is less than 3000 lb (1360.8 kg). Weight with centrifugal clutch is 3100 lb (1406.1 kg).

Benefit: The weight of the machines does not require it to have electric brakes in most states and makes sense for ease of towing for many different vehicles.

Feature: Discharge Chute

Description: The discharge chute has 270 degrees of rotation with a multiple number of chute positions to accommodate most chip trucks.

Benefit: Adjustable chute positions allow chip boxes to be filled evenly while safely directing chips away from the infeed area.

Feature: Hydraulic System

Description: Is a live-type system that is always on when the engine is running.

Benefit: This system gives you the ability to run the hydraulics without the belt engaged so you can reverse material out and trouble shoot at low idle.

Feature: Disc-style chipper

Description: 33" (83.8 cm) diameter disc

Benefit: Disc is suitable for chipping 9" (23 cm) material while being cost-effective.

Feature: 35 hp (26.1 kW) Gas Engine

Description: Air-cooled gasoline engine

Benefit: High torque and power in a compact and lightweight size. The gas engine allows for reduced fuel consumption while still providing power for the high-capacity infeed system.

Feature: Ease of Service

Description: Maintenance and access to areas for required routine maintenance.

Benefit: Direct access to all parts of the chipper for routine maintenance without having to climb on or remove any shields. Disc cover opens fully to allow complete access to cutter knives for inspection and replacement. A dripless oil filter and five grease points are provided to reduce work effort and speed up service time. No need to crawl under machine for routine maintenance.

Last Updated: 06/24/2015

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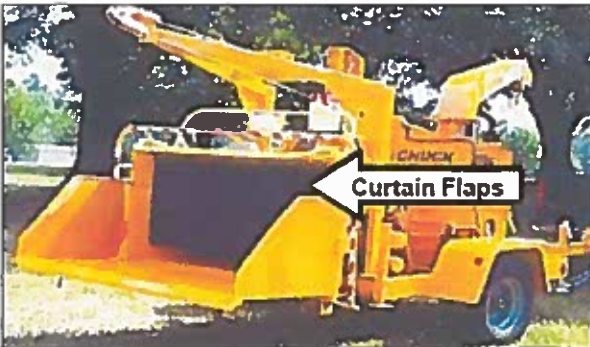
08/27/2015

VERMEER BC900XL BRUSH CHIPPER

Feed Control Bar - Many chippers in use today have mechanical feed control bars that meet the ANSI Z133.1 requirement to include emergency stop devices. Pushing the feed control bar to the center (neutral position) stops the feed rollers, and pushing it toward the discharge spout reverses the feed rollers.



The chipper below "emergency stop device" does not stand out as it does on the Vermeer Chipper above (red).



Bottom Feed Stop Bar - To address the hazard of being pulled into the chipper, one manufacturer has developed and installed a "bottom feed stop bar" (patent pending) on all its new models. It is a pressure sensitive device that cuts off all power completely when 34 pounds of force are applied to the lower edge of the feed table.





Cal-Line Of Sacramento
 1430 Auburn Blvd.
 Sacramento, CA 95815
 USA
 916-564-1015 (Phone)
 915-564-1974 (Fax)
www.cal-line.com

QUOTATION

Quote #	Quote Created	Last Updated	Salesperson
52775	September 8, 2015 10:44 AM by Cal-Line Of Sacramento	September 8, 2015 10:56 AM by Cal-Line Of Sacramento	Tyler Knoll

CUSTOMER:	BILL TO:	SHIP TO:
City of Loomis 1430 Auburn Blvd. Sacramento, CA 95815 USA 916-564-1015 (Phone) 915-564-1974 (Fax) ckelley@cal-line.com	Cal-Line Of Sacramento 1430 Auburn Blvd. Sacramento, CA 95815 USA 916-564-1015 (Phone) 915-564-1974 (Fax)	Cal-Line Equipment 6010 South Front Road Livermore, CA 94551 USA 925-443-6571 (Phone) 925-443-6573 (Fax) Denny Knoll (Contact) dknoll@cal-line.com

MODEL 90XP (9" DISC STYLE) BRUSH BANDIT

Qty	Part #	Description	Base Price
1	MODEL-90	Model 90XP - (9" Disc Style) Brush Bandit	\$ 18725.00

STANDARD EQUIPMENT

Qty	Part #	Description	Price
1	STANDARD	Spring loaded slide box type feed system with (2) horizontal feed wheels 7 1/2" diameter x 16 3/8" wide, driven by (2) 15.5 hydraulic motors (Provides approximately 1,646.93 lbs of pulling power for each feed wheel)	\$ 0.00
1	STANDARD	Top feed wheel jack mount with locking pin to raise & lock top feed wheel using tongue jack (not provided when hydraulic lift cylinder option is selected)	\$ 0.00
1	STANDARD	29" high x 35" wide tapered infeed hopper with 30" fold down infeed hopper tray	\$ 0.00
1	STANDARD	360 degree manual swivel discharge chute with 12" adjustable chip deflector	\$ 0.00
1	STANDARD	Clean out and inspection door on discharge	\$ 0.00
1	STANDARD	30" diameter x 1-1/2" thick (2 knife pocket) chipper disc, each pocket equipped with (2) 1/2" x 4" x 5 1/8" dual edge knives	\$ 0.00
1	STANDARD	7 gallon steel hydraulic tank with magnetic drain plug	\$ 0.00
1	STANDARD	24-1/2 gallon steel fuel tank with magnetic drain plug	\$ 0.00
1	STANDARD	12 volt system with rubber mounted LED taillights, 6 prong replaceable coiled power cord & protected heavy-duty wiring with junction box, and LED clearance lights with reflectors.	\$ 0.00
1	STANDARD	5,000 pound capacity tongue jack with 15" of travel and foot pad	\$ 0.00
1	STANDARD	Safety control bar controls forward / neutral / reverse	\$ 0.00
1	STANDARD	Engine disable plug for hood locking pin-preventing engine from operating without pin in place	\$ 0.00
1	STANDARD	Wooden pusher tool with mount on infeed hopper	\$ 0.00
1	STANDARD	(2) Last chance safety pull cables	\$ 0.00
1	STANDARD	Weather resistant manual container	\$ 0.00
1	STANDARD	Safety DVD, (2) 6" wide x 9" tall Bandit operator's manuals (one paper copy and one waterproof copy tethered to machine) and (1) engine operator's manual	\$ 0.00
1	STANDARD	Spanish & English combination safety decals	\$ 0.00
1	STANDARD	Banded chipper belts	\$ 0.00

PAINT

Qty	Part #	Description	Unit Price	Total
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1 333-28984 Standard Imron Industrial Urethane Green (For Whole Tree Chippers please specify Chipper Guard paint color) \$ 0.00 \$ 0.00

ENGINE				
Qty	Part #	Description	Unit Price	Total
1	990-RC1194-775	Kohler CH1000, 37 horsepower gas engine	\$ 3750.00	\$ 3750.00

BATTERY/BATTERY BOX				
Qty	Part #	Description	Unit Price	Total
1	990-100260	Lockable aluminum battery box with (1) 1,010 CCA Interstate battery	\$ 0.00	\$ 0.00

AXLE				
Qty	Part #	Description	Unit Price	Total
1	990-1014-86	Single 6,000 pound Torflex EZ lube axle with electric brakes	\$ 0.00	\$ 0.00

TIRES/RIMS				
Qty	Part #	Description	Unit Price	Total
1	990-1014-87	(2) 225/75R 15" tires mounted on 6-bolt white modular rims	\$ 0.00	\$ 0.00

FENDERS				
Qty	Part #	Description	Unit Price	Total
1	990-100515	Heavy-duty steel weld on fenders	\$ 125.00	\$ 125.00

HITCH				
Qty	Part #	Description	Unit Price	Total
1	990-100274	2 1/2" Wallace Forge pintle hitch	\$ 0.00	\$ 0.00

ADD-ON OPTIONS				
Feed System Options				
Qty	Part #	Description	Unit Price	Total
1	990-100165	Double teeth on bottom feed wheel (17" wide feed wheel)	\$ 130.00	\$ 130.00

Engine Related Options				
Qty	Part #	Description	Unit Price	Total
1	990-100029	Automatic feed system governor with digital tach/hour meter (non-reversing)	\$ 825.00	\$ 825.00

CUSTOMER TOTALS				
Total Unit Price:				\$ 23555.00
Customer Discount:			10.0000 %	- \$ 2355.50
Customer Net Unit Price:				\$ 21199.50
Sales Tax:			8.0000 %	\$ 1695.96
Customer Total:				\$ 22895.46

COMMENTS				
<p>Comment By Cal-Line Of Sacramento on 09/08/2015 10:55 AM</p> <p>CMAS # 4-08-23-0025A</p>				

SIGNATURE				
<p>The Buyer, whose name and address appears above, agrees to purchase from the Seller, whose name and address appears above, the above equipment at the prices stated and upon the terms and conditions of this agreement.</p>				

X
 Signature _____ Date _____