

Town of Scituate  
Request for Proposals

The Town of Scituate is requesting bidding proposals from qualified dealers to provide a new twelve inch drum style gas powered wood chipper to be delivered to the Scituate Public Works Department located on 1 Lincoln Circle, N. Scituate, RI . Specifications for the chipper to be purchased are listed. Dealers are requested to meet or exceed these specs. when bidding their equipment.

Sealed bids will be received at the Town Clerk's Office, 195 Danielson Pike, North Scituate, Rhode Island until 10:00 am. prevailing time on Wednesday, July 18, 2018 at which time all bids will be opened publicly.

The Town reserves the right to reject any and all bids, or parts thereof, and waive any irregularity in the bids received, and to accept the bid, or parts thereof, deemed to be the most favorable to the best interest of the Town.

### Measurements

**Capacity:** 12"

**Throat Opening:** 13" x 17"

**Feed Rate:** 115 FPM

**Noise Level:** 80 decibels at 50' (360 degrees around)

### Dimensions

**Length (with infeed tray closed):** 13' 5"

**Length (with infeed tray open):** 16'

**Width:** 80"

**Height:** 8' 1"

**Weight:** 5,500 pounds (approximate)

### Engine

**Options:** 89 hp and 130 hp gas engines

74 hp tier 4 final, 122.5 tier 4 Final diesel engines

**Clutch:** NACD or Automotive style clutches

**Mount:** (2) adjustable mounts are provided to secure belt tension

**Drive:** (1) 5VX polyband banded belt

**Reversing auto feed control system:** Optional

### Chassis

**Frame:** Mainframe is constructed of 3/16" x 2" x 4" rectangular tubing and the tongue is made from 1/4" X 3" x 6" rectangular tubing

**Suspension:** Single 7,000 pound Torflex EZ-lube axle

**Brakes:** Electric

**Tires:** (2) ST235/80R 16" tires mounted on 8-bolt white spoke rims

**Fenders:** Preformed 12 gauge aluminum tread brite fenders with mud shields

**Hitch:** 2 Position hitch mounting plate with a 2 1/2" pintle hitch. Equipped with 5/16" link type chains and safety chain hooks and lock clips.

**Tongue Jack:** 5,000 pound "Bulldog" tongue jack, adjustable for height with 15" travel capacity and stationary foot pad.

**Colors:** Choose from: [REDACTED], Caterpillar yellow, Alert orange, white, black, or green

### Battery / Tool Boxes

**Tool Box:** Optional

### Safety Features

**Safety Features:** Chipper hood engine disable plug, guards covering all moving parts, drum lock bar, wooden pusher paddle, electronic limit switch (prevents engine from being started), and (2) last chance pull cables (patented).

**Top Feed Wheel Jack Mount:** Standard (Note: if hydraulic lift cylinder is ordered jack mount is not included).

### Electrical

**Battery:** (1) 1000 CCA battery

**Electrical Plug:** Sure flex 12' long coiled cord with 6 prong plug

**Taillights:** (2) LED taillights

**Terminal Junction Box:** 7 terminal heavy-duty junction box

**Clearance Lights:** (4) LED side clearance lights

**License Plate Mount:** (1) License plate mount with light

**Taillight Covers:** Optional

### Feed System

**Type:** Slide Box

**Down Pressure Springs:** (2) 17" long adjustable "easy climb" down pressure springs.

**Adjustments For Springs:** (4) adjustments are provided that will allow for 0" to 6" of travel before you start spring tension

**Yoke Sides:** Slides for the box are (4) 1" X 1" X 11 1/2" replaceable "Phenolic" wear strips

**Feed Wheels:** (2) horizontal

**Feed Wheel Dimensions:** 17" wide x 7 1/2" diameter

**Feed Wheel Teeth:** Top & bottom wheels are equipped with special non-wrapping knife edge teeth, 1" high, full length of wheel. Top feed wheel has (8) teeth, and bottom feed wheel has (10) teeth

**Feed Wheel Shafts:** 2"

**Feed Wheel End Caps:** Toothed to eliminate wrapping around shafts

**Sharpened Scraper Bar:** Mounted behind bottom feed wheel to reduce wrapping

**Number of Hydraulic Motors:** (2)

**Displacement:** 15.9 CID

**Torque at System Pressure:** Generates 6,167 in/lbs of torque for each feed wheel, along with 1,687 pounds of pulling power for each feed wheel

**Attachment:** Tapered fit coupling system

**Infeed Hopper Dimensions:** 29" high x 54" wide

**Infeed Thickness:** 1/4" thick

**Infeed Tray:** 30" fold down infeed tray

Also to include a safety control bar located on three sides of infeed hopper to allow actuation of feed wheels forward/neutral/reverse. The control bar is supported by (2) 1" threaded rods.

**Feed Roller to End of Infeed Table:** 66"

**Infeed Slope:** 3 degrees

**Bottom Clean Out Door:** Included

**Hydraulic Lift Cylinder:** Optional

### Cutting System

**Style:** Drum Style

**Dimensions:** 24" diameter x 18 3/4" wide

**Drum Construction:** To include 3/8" drum skin with internal baffles for added support

**RPM:** 1,530 RPM's (approximate)

**Knife Pockets:** (4), each pocket holds one knife

**Knives:** 5/8" thick X 5 1/2" wide X 9" long

**Thrower:** There are (12) total (6 per side) drum fan blades 1/4" thick X 8" long. These blades assist with throwing chips, fully loading chip trucks.

**Anvil:** (4-sided) 1/2" thick x 4 1/2" x 18"

**Adjustable Side Vents:** Includes one adjustable vent on each side of the drum housing allowing you to regulate the amount of air flow. Also includes (2) removable vent covers

**Power Slot:** The patented 'power slot' assists in maximizing chip velocity. The power slot also provides a place for fine material to escape that might tend to lie in the belly of the drum.

**Chipper Shaft:** 3" diameter chipper shaft, held in place by a 1" thick X 10" diameter steel lock ring and (4) 3/4" grade 8 hardness bolts.

**Chipper Bearings:** (2) 2 7/16" bore, 4-bolt Pillow Block, greasable and easily replaceable bearings. (48,000 ft/lbs dynamic capacity & 53,000 ft/lbs static capacity)

**Chipper Hood:** Must be constructed of 1/4" steel and fold back for easy access to drum. Hood is held in place with 3/8" bolts and is secured with (1) 5/8" diameter removable locking pin.

**Shear Bar:** The Shear Bar takes the form of a cross member bar that spans the full width of the drum, and is mounted in the upper portion of the drum housing, potentially creating a slicing action on a line.

### Construction

**Chipper Base (Front):** 1/4"

**Chipper Base (Back):** 1/4"

**Belly Band:** 1/4" AR 400 Plate

**Right Throat Side:** 1/4"

**Left Throat Side:** 1/4"

**Throat Bottom:** 1/2"

### Hydraulic System

**Type:** Open Center

**Filtration:** 3 Micron return, 10 micron suction

**Pump:** Parker (gear style)

**Pump GPM:** 8

**Relief Pressure:** 2,500 PSI

**Hydraulic Hoses:** 1/2" & 3/4" single and double braid

**Hydraulic Hose Burst Pressure:** 12,000 PSI

### Discharge

**Swivel:** 360 degree manual swivel

**Deflector:** 3 position manual chip deflector

### Fuel Tank

**Capacity:** 25 gallon steel fuel tank

**Mount:** Rubber Shock Mounted

**Magnetic Drain Plug:** Standard

**Rochester Sight Gauge:** Standard

**Lockable Filler Caps:** Standard

### Hydraulic Tank

**Capacity:** 12 gallon steel hydraulic tank

**Mount:** Rubber Shock Mounted

**Magnetic Drain Plug:** Standard

**Rochester Sight Gauge:** Standard

**Lockable Filler Caps:** Standard

### Paint