

15 INCH BRUSH CHIPPER

BID SPECIFICATIONS

GENERAL

Unit shall be a trailer mounted drum chipper in the 15 inch capacity class. Length of basic unit shall not exceed 195 inches when in transport configuration (feed table up/tongue extended) or 217 inches maximum length (feed table down/tongue extended). Minimum length shall be approximately 179 inches (table up/tongue retracted). Overall height shall be no more than 104 inches. Maximum weight of the unit shall not be more than 6880 pounds in a standard configuration.

ENGINE

Shall be an industrial, liquid cooled, diesel engine equal to a John Deere 4045H Tier 3, 125 gross horsepower at 2400 rpm (355 ft-lb. of torque at 1500 rpm) with a maximum displacement of 275 cu.in (4.5 L). Engine shall be equipped with a spin-on replaceable oil filter. Unit shall be equipped with a fuel tank with a minimum capacity of 45 gallons. Unit shall be equipped with a 12 volt, a 950 CCA battery and a 65 amp alternator. Engine shall come with a list of filter and belt part numbers.

TRAILER

Trailer frame shall be constructed of .25 inch Z channel. Suspension shall be a rubber torsion type with a minimum 7000 pound rating. Wheels shall be 16.0 x 6 inch with 8 bolts on a 6.5 inch circle. Tires shall be equal to ST235/80R16 Load Range E. Hitch shall adjust up and down 8 inches. Unit shall be equipped with electric brakes. Unit shall be equipped with 2 towing safety chains with a minimum thickness of .3125 inches. Trailer shall be equipped with a jack with a minimum capacity of 3500 pounds.

CUTTING SYSTEM

Cutting system shall be drum style with a minimum drum size of 22.5 inches in diameter and 22 inches in width. Drum shall have 2 safety lock positions for changing drum knives. Drum shall weigh approximately (including shaft) 540 lbs. Drum shall have 2 knives, bolted in place with a minimum of 3 bolts per knife. Knife size shall be 5.5 inches by 8 inches with a minimum thickness of .625 inches. Knives shall be double edged. Knives shall be constructed of A8 chipper steel.

FEED SYSTEM

Unit shall be equipped with a hydraulic infeed system. Feed system shall have 2 vertical feed rollers with a helical knife pattern, having a minimum diameter of 20.9 inches and minimum height of 20 inches each. Rollers shall be powered by 2 hydraulic motors with a minimum displacement of 28.3 cu.in. Unit shall have an adjustable feed rate with a maximum feed speed rate of 122 feet per minute .

FEED SYSTEM (CONT.)

Feed table shall have a minimum length of 67.4 inches from feed roller nip point to end of table and a minimum feed height above ground of 27 inches. Unit shall be equipped with a system that senses loss of rpm from engine and automatically stops feed system until rpm of engine recovers and then automatically feeding of material restarts without any operator interface.

CLUTCH

Unit shall be equipped with a 13 inch automotive style – self-adjusting clutch. Clutch engagement linkage shall be incorporated into throttle system so that clutch can only be engaged at a low engine idle.

SMARTFEED

Unit shall be equipped with an automatic engine speed monitoring system that senses speed of engine. SmartFeed system shall automatically control feeding of material into cutter system according to engine rpm's. This system shall have the ability to reverse material automatically and in turn restart feeding process without any operator interface once the engine returns to full rpm.

BOTTOM FEED STOP BAR

Unit shall be equipped with a lower feed stop bar system that provides a means for the operator to quickly stop the feed rollers if snagged by a branch and pulled towards the machine. The feed stop bar shall be located to make it possible for an operator to strike the bar and shut off the feed either intentionally or automatically in an emergency situation.

HYDRAULIC SYSTEM

Unit shall be equipped with “live” type hydraulics (hydraulic pump runs directly from engine). System shall be open center with a return type filtration system, with shut offs on both sides of the filter as well as a suction strainer in hydraulic tank.

Pump shall have a minimum capacity of 5.5 gallons per minute at maximum rpm with a relief pressure of 2800 psi. Unit shall have a hydraulic tank with a 12-gallon capacity.

INSTRUMENTATION / STORAGE

Unit shall have an hour meter and fuel gauge, high coolant and low oil pressure indicator lights and engine automatic shutdown. Unit shall have an instrument vandal cover. Unit shall have a lockable tool box (24”L X 16”W X 16”T), and lockable battery box.

WINCH

Unit shall be equipped with a winch (equipped w/ flotation tires, weight of machine shall be approximately 7250 pounds).

CHIPPER BID (CONT.)

Manuals

Unit shall come with all engine and unit manufacturer repair, parts and service manuals. Manuals should be hard copy type.

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Company Name: _____

Contact: _____

Address: _____

City, State, Zip: _____ **Phone:** () _____

E-Mail: _____

Signature: _____