



10-10-12

RG27

SUPER Jr STUMP CUTTER

BID SPECIFICATIONS



The following specifications shall constitute minimum requirements for a heavy duty self propelled tree stump cutting machine.

Bidders shall show in the right hand column, under “we will furnish”, how the unit proposed meets or exceeds this specification.

General	We Will Furnish
Weight: 1770 Lbs (803 kg) Maximum	
Length: 114" (289.6 cm) Maximum (Arm in storage position)	
Height: 52" (132.1cm) Maximum	
Width: 35" (88.9 cm) Maximum	
Width with Dual Wheels: (133.4 cm) 52.5" Maximum	
Chip Collection Capacity: 12.5 cu. Ft (0.353 cu. Meter) Minimum	
Chassis Design: Electrically welded 3"x3"x3/16" (76.2mm x 76.2mm x 4.76 mm) Square Steel Tubing, Formed 1/4" (6.35mm) & 3/8" (9.53mm) Gr. 80 steel	
Self-Propel Means: Self-propelled with variable speed control and automatic hill brake	
Operator Control Console: Controls mounted On Swing-away Arm with a Fully Covered Valve Bank	
Swing Pivot Bearings: 9" (22.86mm) diameter slewing ring	
Brakes: Rear - Spring Applied Hydraulic Release	
Tires: 18 x 8.5-10 R4 4 ply	
Drive Axle Bearings: 1-1/2" (3.81 cm) flange roller minimum w/grease fitting	
Ground Pressure: 6.13 PSI	

Engine	We Will Furnish
Model: Briggs & Stratton Vanguard 27hp (20.1 kw) Required	
Main Bearings: 2 Minimum	
Number of cylinders: 2	
Bore: 3.37" (85.6mm)	
Stroke: 3.071" (78.0mm)	
Displacement: 54.68 cu. In (896cc) Minimum	
Maximum no load RPM: 3600	
Gross HP at maximum no load RPM: 27HP (20.1 kw) Minimum	
Cooling medium: Unrestricted Air Flow Required	
Air Cleaner: Heavy Duty, Dual Element, Dry type	
Oil Filter: Spin-on type	
Fuel Tank Capacity: 5.0 gallons (18.9 L) Minimum	
Electrical System: 12 volts/15 AMP Alternator Required	

Hydraulic System	We Will Furnish
Pump Displacement: 0.37 cu. In. (6.06 cc) Minimum	
Pump Gallonage @ 3600 RPM: 2.6 GPM (9.84 LPM)	
System Pressure Relief: 2500 PSI / 3500 PSI (172.4 bar/ 241.3 bar)	
Oil Tank Capacity: 2 Gallons (7.57 L) Minimum	
Oil Filter: 10-Micron Full Flow	
Oil Type: Tellus T46	
Valve: Spring-Centered Series	
Hose Capacity: 3000 PSI (206.8 bar) Working Pressure	
Swing Cylinder: Minimum 3" (76.2 mm) Bore, 6" (152.4 mm) Stroke, 1-1/4" (31.75 mm) Rod Minimum	
Lift Cylinder: Minimum 2.5" (63.5 mm) Bore, 8" (203.2 mm) Stroke, 1-1/4" (31.75 mm) Rod	
Hydraulic Wheel Drive Motor: 10.4 cu. In/rev (170.4 cc/rev)	
Drive Chain: 50R Series Minimum	
Fittings: O-ring Required	

Cutting Wheel	We Will Furnish
Wheel Diameter: 17.25" (43.82 cm) Maximum	
Wheel Thickness: 1" (2.54 cm) Minimum	
Cutting Wheel Bearings: 1.5" (3.81 cm) Pillow Block Minimum	
RPM: 1170 Approximately	
Intermediate Belt: Banded "A" type 3-section V-belt	
Drive Chain: Gates Polychain GT, Low Maintenance	
Jackshaft Bearings: 1.5" (3.81 cm) Pillow Block Minimum	
Cutting Teeth: RAYCO Super tooth™ forged, One-piece, with tungsten carbide tips.	
Cutter Teeth Quantity: 18 Maximum	
Belt Guard: Steel required	
Chip Retaining Curtains: Fabric impregnated rubber	
Cutter Wheel Engagement: Electromagnetic clutch with the "Quick Stop" brake system	

Cutting Range (without repositioning)	We Will Furnish
Below Ground Level: 12" (30.48 cm) Minimum	
Above Ground Level: 24.5" (62.23 cm) Minimum	
Cutting Width: 51" (129.54 cm) Minimum	

Forward - Backward: Unlimited in Drive Mode

Options	We Will Furnish
TRSJR Trailer	
Command Cut	
Dual Wheel Tires (Requires TRSJRW or TRSJRWB)	
Blade	
Pintle Hitch	

Unit shall be covered on a minimum of 1-year warranty on parts and workmanship. The engine manufacturer shall provide a 2-year warranty.

The tree stump cutting machine shall be new and unused that meets the technical description above and shall be produced on a manufacturer whose stump cutting machines have had a successful field performance record of at least ten consecutive years to date. Unit bid must be a current production model with at least 10 user references of specified model.

Brochures and complete engineering specifications data must accompany bid.