



## Brush-Cutting, Thinning, Shredding, and Crushing Attachments

**Concept**—This section includes brush cutting, precommercial thinning, shredding, and crushing attachments. Unlike integral machines, these attachments are readily removed and replaced with another attachment. They can be used on a variety of prime movers.

The equipment is categorized according to the attachment location and orientation of the shaft that the cutters revolve around:

- Equipment can be attached directly to the machine (usually to the lift arms), attached to the boom, or machine pulled.
- Shafts can be vertical or horizontal.
- In some cases, the equipment is available with more than one style of attachment device.

**Comments**—The Schmeiser Till n' Pak Culti-Packer was included at the suggestion of a Pacific Northwest Region Forest that used it as a brush crusher. A small machine shop may be able to fabricate something similar. Rockland also makes crushers of various kinds. Note that road-compaction equipment, in general, is too blunt for working in the woods. Forestry crushers have sharp edges to cut vegetation.

Although not listed, bidirectional tractors, feller-bunchers, and some extreme machines can use brush-cutting heads. Additional attachments that may be suitable for your prime mover are listed in the Extreme Machine Attachments section.

**Other Manufacturers or Sources**—In addition to those listed in the catalog, other sources of forestry attachments include: West Northwest Forestry, Ltd.; Rockland Manufacturing Co.; and Vrismo Distributing, Inc.

Besides the land-clearing blades listed in the catalog, other sources include: Rockland Manufacturing Co. and Sharpco, Inc.

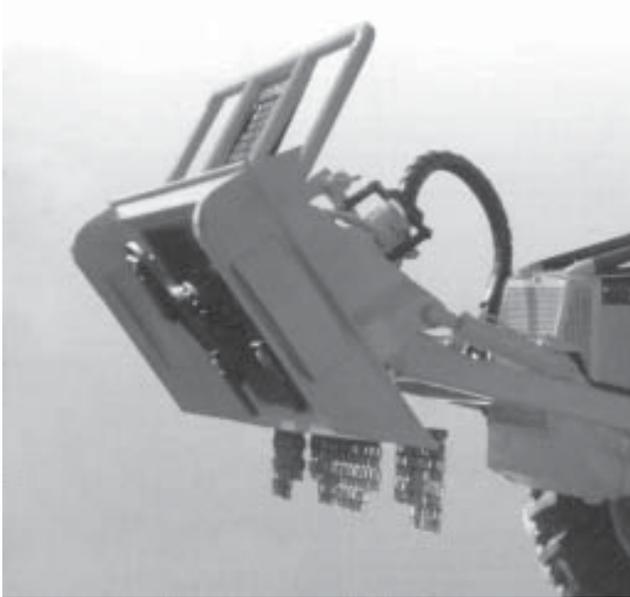
Many major manufacturers of tractors and excavators, such as Case Corp., Deere & Co. Construction Equipment, Komatsu America International Co., New Holland, and so forth, also make forestry attachments. See your local dealer for information.

Also check the Equipment Today annual attachments guide or the Timber West or Timber Harvesting annual buyer's guides for additional information on logging-related equipment (see Appendix B for details).

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush Cutter, Vertical Shaft, Machine Mounted

**Brushco Cutting Heads: 8, 9, and 10 Ft**



Make/Model .....	Brushco Cutting Heads: 8 ft; 9 ft; 10 ft
Manufacturer/Source .....	Quadco Equipment, Inc.
Distributor .....	Contact Quadco Equipment, Inc.
Price .....	Contact manufacturer
Status .....	In production
Preferred Prime Mover .....	150-hp carrier
Other Suitable Prime Movers .....	Rubber tired feller-bunchers, multipurpose tractors or converted skidders
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Lift arms
Maximum Treatable Material Size .....	6 in
Cutting Mechanism .....	Dual rotor bars with two free-swinging knives each; dual disk with three free-swinging knives; or dual mulching discs
Cutting Width .....	8 ft: 96 in; 9 ft: 108 in; 10 ft: 120 in
Shaft (horizontal/vertical) .....	Vertical
Rotation Speed .....	Is matched to prime-mover horsepower and hydraulics to keep low-pressure machines (2,800 psi) at 1,500 rpm, or high pressure machines (3,500 to 4000 psi) at 1,398 rpm
Power Source Required .....	Is matched to prime-mover horsepower and hydraulics
Weight .....	8 ft is 3,300 lb; 9 ft is 3,530 lb; 10 ft is 3,750 lb
Other Attachments .....	Quadco also makes a 52-in horizontal model
Special Uses/Adaptations/Other Uses .....	Boom adapter or mounting lugs are designed and fabricated to fit specific base machine; a self-contained power pack can be engineered to install head on a machine with less capacity than normally required (i.e. low horsepower skidder)
Other Attachments Available .....	Optional lowering front skirting confines material inside longer, produces smaller chips
MTDC Coment .....	Hydraulic motor is spring mounted to give extra protection against load spikes.



Brush-Cutting, Thinning, Shredding, and Crushing Attachments

Brush Cutters, Horizontal Shaft, Machine Mounted

**Seppi M Brush-Cutter Heads**



Make/Model .....	Seppi M Brush-Cutter Heads: Midi Forest; Midi Forest dt; Forest; Forest M; Forest dt. Each comes in a variety of sizes.
Manufacturer/Source .....	Brush Technology Division; Carlson Tractor and Equipment Co.
Distributor .....	Carlson Tractor and Equipment Co.
Price .....	\$20,000 to \$126,000
Status .....	In production
Preferred Prime Mover .....	Any that can lift required weight and give required horsepower to cutting head: 60 to 300 hp
Other Suitable Prime Movers .....	Has been used on: Barko 685, 785, 785B, 885, 885B; New Holland TV140, 9030; Antonio Carraro 8400 HTM; Hydra-Mac Hydrostatic 3250 (125 hp)
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Lift arms; 3-point hitch
Maximum Treatable Material Size .....	Midi Forest cuts and shreds up to 9 3/4-in trees; Midi Forest dt cuts and shreds up to 12-in trees; Forest chips and fells up to 15-in trees; Forest M cuts, shreds, mulches 15 3/4-in trees, brush, and branches; Forest dt fells and chips up to 18 in trees
Cutting Mechanism .....	Free-swinging or fixed-tooth, matched by manufacturer to proper application: Midi Forest, 20 to 42 hammers; Forest, 24 to 42 hammers; Forest M, 38 hammers; Forest dt, 42 to 53 hammers
Cutting Width .....	Working width: Midi Forest: 4 ft 1 in to 8 ft 3 in; Forest: 4 ft 11 in to 8 ft 3 in; Forest M: 7 ft 5 in; Forest dt: 6 ft 7 in to 8 ft 3 in
Shaft (horizontal/vertical) .....	Horizontal
Rotation Speed .....	1,900 to 2,000 rpm
Power Source Required .....	PTO, 60 to 300 hp; self-contained engine
Weight .....	Midi Forest: 1,750 to 3,070 lb; Forest: 3,175 lb to 5,950 lb; Forest M: 8,400 lb; Forest dt: 6,265 to 7,850 lb
Special Uses/Adaptations/Other Uses .....	Data not supplied.
Manufacturer's Comments Regarding Equipment Application .....	Slope limitation is 30 degrees (limited by ability of prime mover). Reliability and good longevity of equipment.

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush Cutters, Horizontal Shaft, Machine Mounted

**Bull Hog Wood Shredders**



Make/Model .....	Bull Hog Wood Shredder: BH80; BH100; BH120; BH150; BH250 (All models available with PTO or hydraulic drive)
Manufacturer/Source .....	Fecon Resource Recovery Equipment Systems
Distributor .....	Fecon Resource Recovery Equipment Systems
Price .....	Contact source
Status .....	In production
Preferred Prime Mover .....	Tractors with 3-point hitch; required power
Other Suitable Prime Movers .....	Fecon makes rubber tired, track- and excavator-type carriers (120 to 450 hp)
Attachment Mount (lift arms/boom/3-point hitch/other) .....	(Machine pulled; PTO units have 3-point hitch) BH80, BH100, BH120: Category II; BH150, BH250: Category III hydraulic models are mechanically mounted to match carrier
Maximum Treatable Material Size .....	Practical maximums: BH80, 8 in; BH100, 10 in; BH120, 10 in; BH150, 14 to 16 in; BH250, 16 to 20 in
Cutting Mechanism .....	Fixed hammers individually mounted on rotor: BH80, 30 hammers; BH100, 42 hammers; BH120, BH 150, BH250, 48 hammers
Cutting Width .....	BH80: 4 ft 10 in; BH100: 6 ft 6 in; BH120, BH150, BH250: 7 ft 6 in
Shaft (horizontal/vertical) .....	Horizontal rotor
Rotation Speed .....	BH80, BH100, BH150: 1,700 rpm; BH250: 1,300 rpm. Processing speed is directly related to hp.
Power Source Required .....	1,000 rpm for PTO models: BH80 is 80 to 100 hp; BH100, BH120 is 100 to 140 hp; BH150 is 140 to 200 hp; BH250 is 200 hp and up. Desirable hydraulic pressure is 4,500 psi: BH80 is 38 to 31 gpm; BH100, BH120 is 52 to 42 gpm; BH150 is 71 to 57 gpm; BH250 is 119 to 95 gpm
Weight .....	BH80: PTO is 2,700 lb; hydraulic is 2,300 lb; BH100: PTO is 3,800 lb; hydraulic is 3,300 lb; BH120: PTO is 4,416 lb; hydraulic is 3,800 lb; BH150: PTO is 5,800; hydraulic is 5,100 lb; BH250: PTO is 7,100 lb; hydraulic is 6,200 lb
Other Attachments .....	All BH models require hydraulic connections to the supply and return lines of the trap door cylinder and top link cylinder; hydraulic models also require connections for primary supply and return line, and a motor case drain; attachments available for excavators, rubber-tire and track machines of 80 to 500 hp
Special Uses/Adaptations/Other Uses .....	Fecon makes many brush-cutting machines for slash reduction, preplanting, land preparation, thinning, roadway clearing, stump grinding, transfer stations, brush and slash piles, yard waste recycling, land clearing, handling orchard prunings and pasture renovation
Manufacturer's Comments Regarding Equipment Application .....	Tool life in excess of 300 hours; tools can work in dirt; more aggressive flail machines; smaller particle size; safe operation



Brush-Cutting, Thinning, Shredding, and Crushing Attachments

Brush Cutters, Horizontal Shaft, Machine Mounted

**Timberwolf DF 90 Brush-Cutter**



Make/Model .....	Timberwolf Machine-Mounted DF 90 Brush-Cutter, Land Clearing/Thinning Machine
Manufacturer/Source .....	New Forest Technology, Inc.
Distributor .....	King Forestry Equipment, Inc.
Price .....	\$98,000
Status .....	Built upon order
Preferred Prime Mover .....	Tracked Loader
Other Suitable Prime Movers .....	Rubber tired loaders with 2 1/2-yard capacity and larger, Cat 973 tracked loader, Leibherr LR641 tracked loader
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Lift arms
Maximum Treatable Material Size .....	16 in
Cutting Mechanism .....	22 to 36 free-swinging cutters
Cutting Width .....	55 to 90 in actual, 60 to 106 in operational
Shaft (horizontal/vertical) .....	Horizontal
Rotation Speed .....	1,200 to 2,200 rpm
Power Source Required .....	Self-contained 270-hp diesel engine
Weight .....	12,000 lb
Other Attachments .....	Timberwolf also makes a boom-mounted cutter
Special Uses/Adaptations/Other Uses .....	Land clearing, strip or selective thinning, hazard reduction; manufacturer will supply or install units on customer's preferred prime mover
Manufacturer's Comments Regarding Equipment Application .....	Very rugged, high-horsepower machines with high throughput capacity

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush Cutters, Horizontal Shaft, Machine Mounted

**ROWMEC R.O.W. King 4010 DH**



Make/Model .....	ROWMEC R.O.W. King 4010 DH
Manufacturer/Source .....	ROWMEC
Distributor .....	ROWMEC
Price .....	Contact manufacturer
Status .....	In production
Prime Mover .....	Loaders and other units capable of handling 6,000 lb
Attachment Mount (lift arms/boom.3-point hitch/other) .....	Standard universal bracket for front-end loaders; adaptable to other prime movers
Maximum Treatable Material Size .....	15 in
Cutting Mechanism .....	4 ft 10 in wide; rotor diameter of 16 in; 24 heat-treated alloy-steel cutters. Adjustable cutting height: ground level to 5 in
Shaft (horizontal/vertical) .....	Horizontal
Rotation Speed .....	1,800 rpm normal
Power Source Required .....	Self-powered, equipped with a 117-hp diesel engine
Weight .....	6,000 lb
Other Attachments .....	ROWMEC makes other brush-cutting attachments and systems: 4010H, 7010H, T-5, T-7, and GT-18. T-5 uses the 4010H head on a bidirectional tractor. The T-7 and GT-18 are included in this catalog.
Special Uses/Adaptations/Other Uses .....	Land clearing, strip or selective thinning, hazard reduction



Brush-Cutting, Thinning, Shredding, and Crushing Attachments

Brush-Cutters, Vertical Shaft, Boom Mounted

**Slashbuster HD 422 Head**

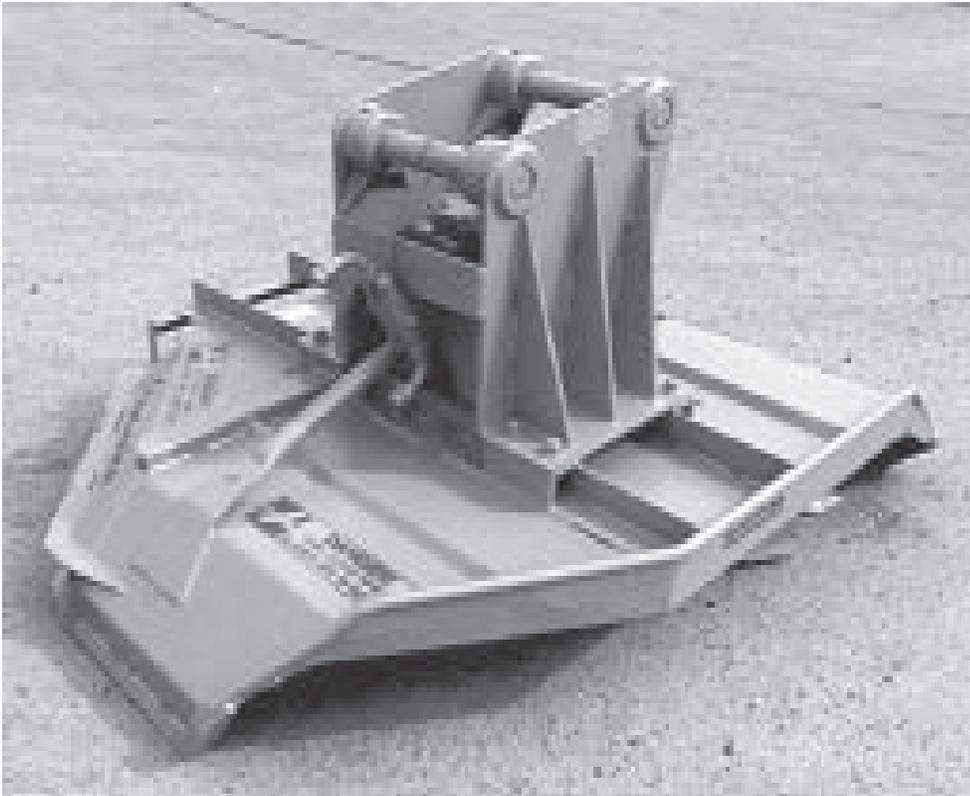


Make/Model .....	Slashbuster HD 422 Head (Slashbuster comes in many sizes and models, 36 in to 48 in, mini to heavy-duty, with and without third boom and grapple; HD 422 was chosen as a representative model)
Manufacturer/Source .....	D&M Machine Division, Inc.
Distributor .....	Contact D&M Machine Division, Inc.
Price .....	Approximately \$50,000, installed
Status .....	In production
Preferred Prime Mover .....	Adaptable to 30,000 to 100,000-lb excavators; recommended for long front or standard front excavator
Attachment Mount (lift arms/boom.3-point hitch/other) .....	Boom
Maximum Treatable Material Size .....	Up to 14 in
Cutting Mechanism .....	Hardened teeth on wheel; in shroud for mulching
Cutting Width .....	46-in cutting swath
Shaft (horizontal/vertical) .....	Vertical
Rotation Speed .....	350 to 450 rpm
Power Source Required .....	32 to 44 gpm; 3,600-psi. Cylinder circuit: intermittent service secondary flow of 15 to 20 gpm
Weight .....	2,300 lb
Other Attachments .....	Slashbuster also makes a stump grinder, stirring attachment and a 34-in mower for mini excavators
Special Uses/Adaptations/Other Uses .....	Optional tilt-mount available, 45 degrees either side of center
Manufacturer's Comments Regarding Equipment Application .....	Industry standard—smaller heads available for smaller excavators

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush-Cutters, Vertical Shaft, Boom Mounted

**CH-55 Rotary Cutter**



Make/Model .....	CH-55 Rotary Cutter
Manufacturer/Source .....	Gregory Manufacturing Co.
Distributor .....	Gregory Manufacturing Co.
Price .....	Contact manufacturer
Status .....	Customized to your excavator on order
Preferred Prime Mover .....	Excavators of all sizes
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Boom-mounted
Maximum Treatable Material Size .....	5 in
Cutting Mechanism .....	Two free-swinging offset reversible blades
Cutting Width .....	66 in
Shaft (horizontal/vertical) .....	Vertical
Rotation Speed .....	1,350 rpm
Power Source Required .....	Hydraulic requirements include 3 gear options: 25 to 30 gpm; 30 to 55 gpm; 55 to 60 gpm
Weight .....	Approximately 1,725 lb
Other Attachments .....	None
Special Uses/Adaptations/Other Uses .....	Forward or reverse cutting; Gregory also makes brush cutter for graders
Manufacturer's Comments Regarding Equipment Application .....	Heavy, long-reach, hydraulic rotary brush cutter attaches to excavators in lieu of buckets, grapples and other attachments



Brush-Cutting, Thinning, Shredding, and Crushing Attachments

Brush-Cutters, Vertical Shaft, Boom Mounted

**Roanoke G-195 Bush Axe**

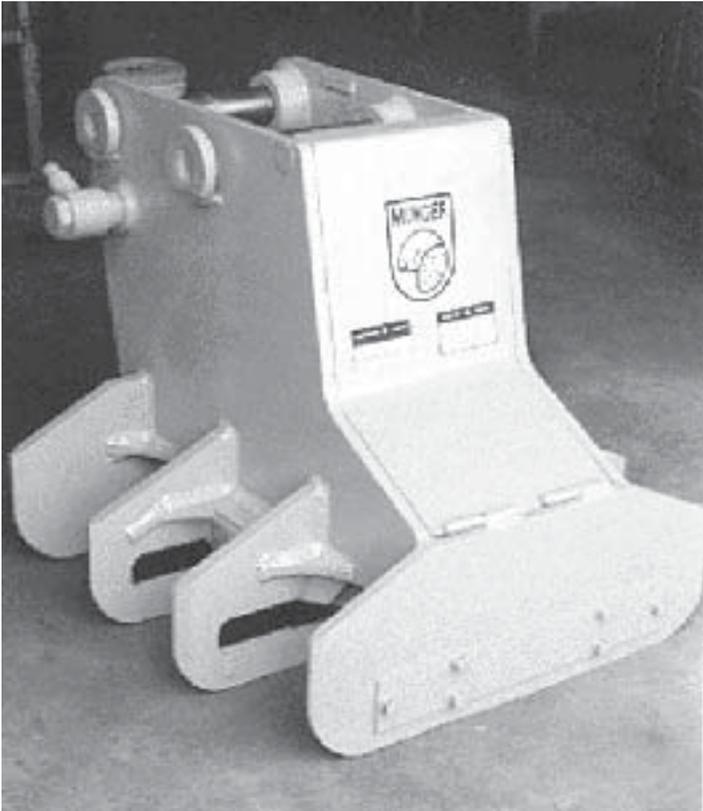


Make/Model .....	Roanoke G-195 Bush Axe
Manufacturer/Source .....	Gregory Manufacturing Co.
Distributor .....	Gregory Manufacturing Co.
Price .....	Contact manufacturer
Status .....	In production
Preferred Prime Mover .....	Tractors 100 hp and above
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Boom-mounted
Maximum Treatable Material Size .....	5 in
Cutting Mechanism .....	Free-swinging offset reversible blades
Cutting Width .....	60 in with extra-heavy blade bar
Shaft (horizontal/vertical) .....	Vertical
Rotation Speed .....	1,350 rpm
Power Source Required .....	1,000 rpm PTO; has self-contained hydraulic system with pump
Weight .....	Operating weight is 2,785 lb
Other Attachments .....	Also makes axle-mount kits for all tractors; Category II and III quick hitches
Special Uses/Adaptations/Other Uses .....	Forward or reverse cutting; break-away boom with cutting reach of 18 ft 6 in, high reach of 16 ft 6 in; optional axle-mount stabilizer kit recommended—tractors 100 to 140 hp; Gregory Manufacturing also makes brush-cutters
Manufacturer's Comments Regarding Equipment Application .....	Heavy, long-reach, rear-mounted hydraulic cutter

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush-Cutters, Vertical Shaft, Boom Mounted

**Munger Rotary Brush-Cutters**



Make/Model .....	Munger Rotary Brush-Cutters: SMC-400; SMC-450; SMC-510; SMC-600R and SMC-600H
Manufacturer/Source .....	Produits Forestiers Mungers, Inc.
Distributor .....	Contact Produits Forestiers Mungers, Inc.
Price .....	SMC-400: \$15,200; SMC-450: \$13,200; SMC-510: \$16,800; SMC-600R: \$21,300; SMC-600H: \$22,600 (f.o.b. factory, not including taxes, U.S. dollars)
Status .....	In production
Preferred Prime Mover .....	Excavators with the following minimum horsepower: SMC-400 and SMC-450: 40 hp; SMC-510: 65 hp; SMC-600R and SMC-600H: 80 hp
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Boom
Maximum Treatable Material Size .....	(Depending on species): SMC-400 and SMC-450: 4 in; SMC-510: 5 to 7 in
Cutting Mechanism .....	Rotor disc with two free-swinging blades
Cutting Width .....	SMC-400 and SMC-450: 23 in; SMC-510: 32 in; SMC-600R and SMC-600H: 34 in
Shaft (horizontal/vertical) .....	Vertical
Rotation Speed .....	SMC-400 and SMC-450: 2,600 rpm; SMC-510: 2,500 rpm; SMC-600R and SMC-600H: 2,300 rpm
Power Source Required .....	SMC-400: 13 gpm, 2,000 to 2,500 psi; SMC-450: 13 gpm, 2,300 to 2,500 psi; SMC-510: 19 gpm, 3,000 psi; SMC-600R and SMC-600H: 24 gpm, 3,000 psi
Weight .....	(Approx.): SMC-400, 645 lb; SMC-450, 700 lb; SMC-510, 1,100 lb; SMC-600R, 1,900 lb; SMC-600H, 2,600 lb
Other Attachments .....	Munger also makes flail mowers
Special Uses/Adaptations/Other Uses .....	SMC-400 capable of 360-degree rotation on lower frame to reach difficult areas
Manufacturer's Comments Regarding Equipment Application .....	Data not supplied

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush-Cutters, Vertical Shaft, Boom Mounted

**Pro Mac Rotary Arm and Blade Brush-Cutters**  
**Alamo Industrial's Grizzly Tree Cutter**



Make/Model .....	Pro Mac Rotary Arm and Blade Brush-Cutters: 36A Low Pressure; 36C High Pressure; 52A Low Pressure; 52C High Pressure
Manufacturer/Source .....	Pro Mac Manufacturing, Ltd.
Distributor .....	Most O.E.M. excavator dealerships, such as Case, Caterpillar, Hyundai, John Deere, Kobelco, Komatsu, Line Belt, Samsung; Alamo Industrial distributes the Grizzly Tree Cutter
Price .....	\$7,440 to \$15,500 (Prices subject to change)
Status .....	In production
Preferred Prime Mover .....	Hydraulic excavator to suit specific size of cutter
Other Suitable Prime Movers .....	Hydraulic ram skidders with swing booms, like Morgan Silvatrack hydrastatic
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Standard boom or long-reach boom special applications
Maximum Treatable Material Size .....	36A, 36C: 3.5 in; 52A, 52C: 6 in
Cutting Mechanism .....	36A, 36C light duty: blades; 52A, 52C heavy-duty: blades; 52: 3-blade disc
Cutting Width .....	36A, 36 C: 36-in swath; 52A, 52C: 52-in swath
Shaft (horizontal/vertical) .....	Vertical
Rotation Speed .....	1,800 rpm
Power Source Required .....	36A: 20 to 35 gpm; 2,700 psi; 36C: 16 to 35 gpm; 4,000 psi; 52A: 28 to 48 gpm; 2,700 psi; 52C: 24 to 42 gpm; 4,000 psi
Weight .....	36A, 36C: 600 lb; 52A, 52C: 1,400 lb
Other Attachments .....	Pro Mac makes a number of brush-cutters
Special Uses/Adaptations/Other Uses .....	Independent hydraulic ram; small rubber-tire backhoes
Manufacturer's Comments Regarding Equipment Application .....	Versatile in cut jobs; mulching ability
MTDC Comments .....	Specifications for Alamo Industrial's Grizzly Tree Cutter Models 36A, 36C, 52A and 52C are identical to Pro Mac products with the same model numbers

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush-Cutters, Vertical Shaft, Boom Mounted

**Pro Mac Rotary Disc Brush-Cutters**  
**Alamo Industrial's Grizzly Tree Cutter**



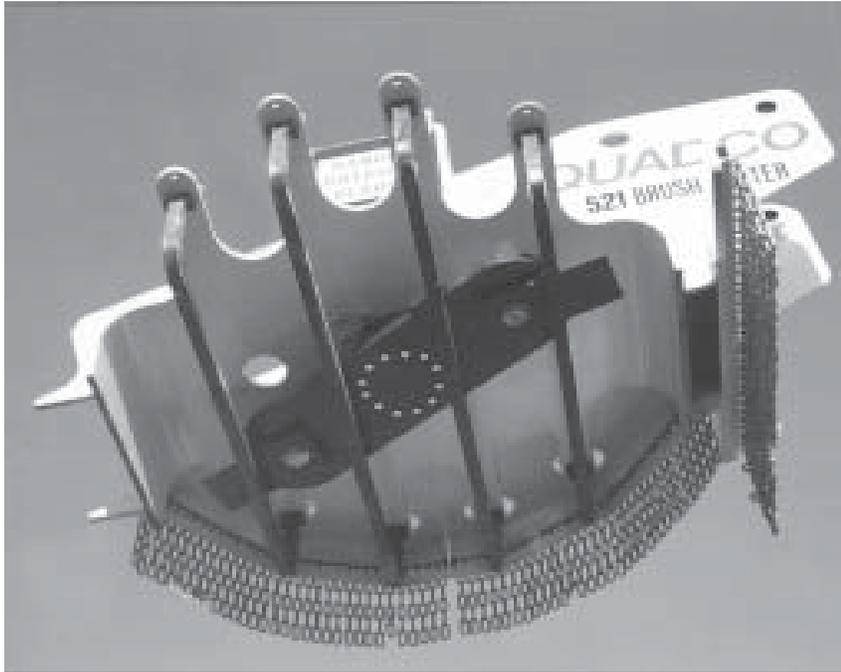
<p>Make/Model .....</p> <p>Manufacturer/Source .....</p> <p>Distributor .....</p> <p>Price .....</p> <p>Status .....</p> <p>Preferred Prime Mover .....</p> <p>Other Suitable Prime Movers .....</p> <p>Attachment Mount (lift arms/boom/3-point hitch/other) .....</p> <p>Maximum Treatable Material Size .....</p> <p>Cutting Mechanism .....</p> <p>Cutting Width .....</p> <p>Shaft (horizontal/vertical) .....</p> <p>Rotation Speed .....</p> <p>Power Source Required .....</p> <p>Weight .....</p> <p>Other Attachments .....</p> <p>Special Uses/Adaptations/Other Uses .....</p> <p>Manufacturer's Comments Regarding Equipment Application .....</p> <p>MTDC Comments .....</p>	<p>Pro Mac Rotary Disc Brush-Cutters: 36 AMP Low Pressure; 36 CMP High Pressure; 52 AMP Low Pressure; 52 CMP High Pressure; 66 AMP Low pressure; 66 CMP High Pressure</p> <p>Pro Mac Manufacturing, Ltd.</p> <p>Most O.E.M. excavator dealerships, such as Case, Caterpillar, Hyundai, John Deere, Kobelco, Komatsu, Line Belt, Samsung; Alamo Industrial distributes the Grizzly Tree Cutter</p> <p>\$12,500 to \$26,472 (Prices subject to change)</p> <p>In production</p> <p>Hydraulic excavator to suit specific size of cutter</p> <p>Hydraulic ram skidders with swing booms, like Morgan Silvatrack hydrastatic</p> <p>Standard boom or long-reach boom in special applications</p> <p>36 AMP and 36 CMP: 6 in; 52 AMP and 52 CMP: 8 in; 66 AMP and 66 CMP: 10 to 12 in</p> <p>Rotary disc with carbide-tipped cutters; cutter bits on all discs</p> <p>36 AMP and 36 CMP: 36 in; 52 AMP and 52 CMP: 52 in; 66 AMP and 66 CMP: 66 in</p> <p>Both types available</p> <p>1,650 rpm</p> <p>36 AMP: 32 to 35 gpm; 4,000 psi; 36 CMP: 24 to 38 gpm; 4,000 psi; 52 AMP: 35 to 45 gpm; 4,000 psi; 52 CMP: 30 to 42 gpm; 4,000 psi; 66 AMP: 56 to 65 gpm; 4,000 psi; 66 CMP: 38 to 48 gpm; 4,000 psi</p> <p>36 AMP and 36 CMP: 1,100 to 1,300 lb; 52 AMP and 52 CMP: 2,000 to 2,700 lb; 66 AMP: 3,600 to 4,200 lb; 66 CMP: 4,000 lb</p> <p>Pro Mac makes a number of brush-cutters</p> <p>Independent hydraulic ram; smaller rubber-tired backhoes</p> <p>Good munching ability in larger stems</p> <p>Specifications for Alamo Industrial's Grizzly Tree Cutter Models 36 CMP, 52CMP and 66 CMP are identical to Pro Mac products with the same model numbers</p>
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Brush-Cutting, Thinning, Shredding, and Crushing Attachments

Brush-Cutters, Vertical Shaft, Boom Mounted

**Brushco 52-Inch Cutting Head**

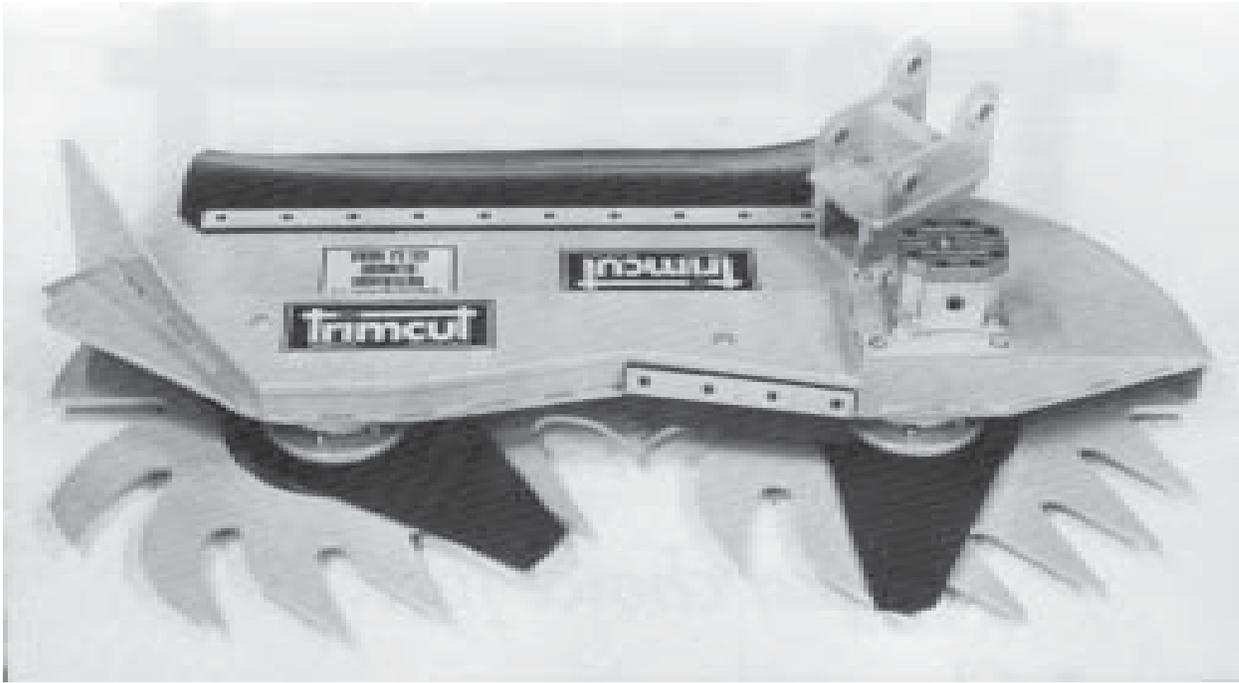


Make/Model .....	Brushco 52-Inch Cutting Head
Manufacturer/Source .....	Quadco Equipment, Inc.
Distributor .....	Contact Quadco Equipment, Inc.
Price .....	Contact manufacturer
Status .....	In production
Preferred Prime Mover .....	100 hp, 15-ton excavator
Other Suitable Prime Movers .....	Feller-bunchers
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Boom
Maximum Treatable Material Size .....	6 in
Cutting Mechanism .....	Single rotor bar with two free-swinging knives, single disc with three free-swinging knives, or mulching disc
Cutting Width .....	52 in
Shaft (horizontal/vertical) .....	Vertical
Rotation Speed .....	Matched to prime mover's horsepower and hydraulics to keep low-pressure machines (2,800 psi) at 1,500 rpm, or high-pressure machines (3,500 to 4,000 psi) at 1,400 rpm
Power Source Required .....	Matched to prime-mover horsepower and hydraulics
Weight .....	2,660 lb
Other Attachments .....	Quadco also makes 8 ft, 9 ft, and 10 ft brush-cutters for loader arm machines
Special Uses/Adaptations/Other Uses .....	A boom adapter or mounting lugs are designed and fabricated to fit specific base machine; self-contained power pack that provides constant power can be engineered to install head on a machine with less capacity than normally required.
Manufacturer's Comments Regarding Equipment Application .....	Data not supplied
MTDC Comment .....	Hydraulic motor is spring mounted to give extra protection against load spikes

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush-Cutters, Vertical Shaft, Boom Mounted

**Trimcut Cutter Heads**



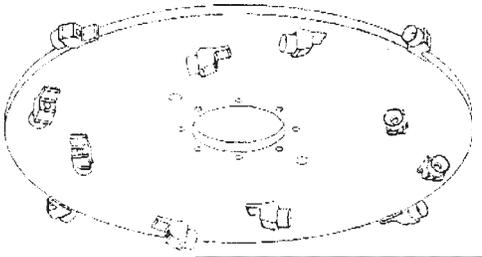
Make/Model .....	Trimcut Cutter Heads: EK 804; DK 890; DK 1502; DK 1503
Manufacturer/Source .....	Silvana Import Trading, Inc.
Distributor .....	Contact Silvana Import Trading, Inc.
Price .....	Contact source
Status .....	In production
Preferred Prime Mover .....	All types of wheel-mounted loaders
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Boom
Maximum Treatable Material Size .....	EK models: 15 cm; DK models up to 8 cm
Cutting Mechanism .....	Single shaft (EK) or dual shaft (DK) with fixed cutting blade and countershear, double- or triple-edged cutting blades or circular saw
Cutting Width .....	EK 804: 32 in; DK 890: 67 in; DK 1502 and DK 1503: 55 in
Shaft (horizontal/vertical) .....	Vertical
Rotation Speed .....	2,000 to 2,500 rpm
Power Source Required .....	EK 804: 40 to 80 liters/min; DK models: 45 to 100 liters/min
Weight .....	EK 804: 160 kg; DK models: 300 kg
Other Attachments .....	Three types of cutter blades available
Special Uses/Adaptations/Other Uses .....	Separate cutting head can be adjusted to fit most extension-arm systems on the market
Manufacturer's Comments Regarding Equipment Application .....	Vertical cutting of stem branches is possible; cuts small trees, hedges, dense brush and grass; has been used for clearing roadways, power lines, and ski slopes

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush-Cutters, Vertical Shaft, Boom Mounted

**Weldco-Beales ERC Rotary Cutter**

ERC Rotary Disc, Cup-Tooth

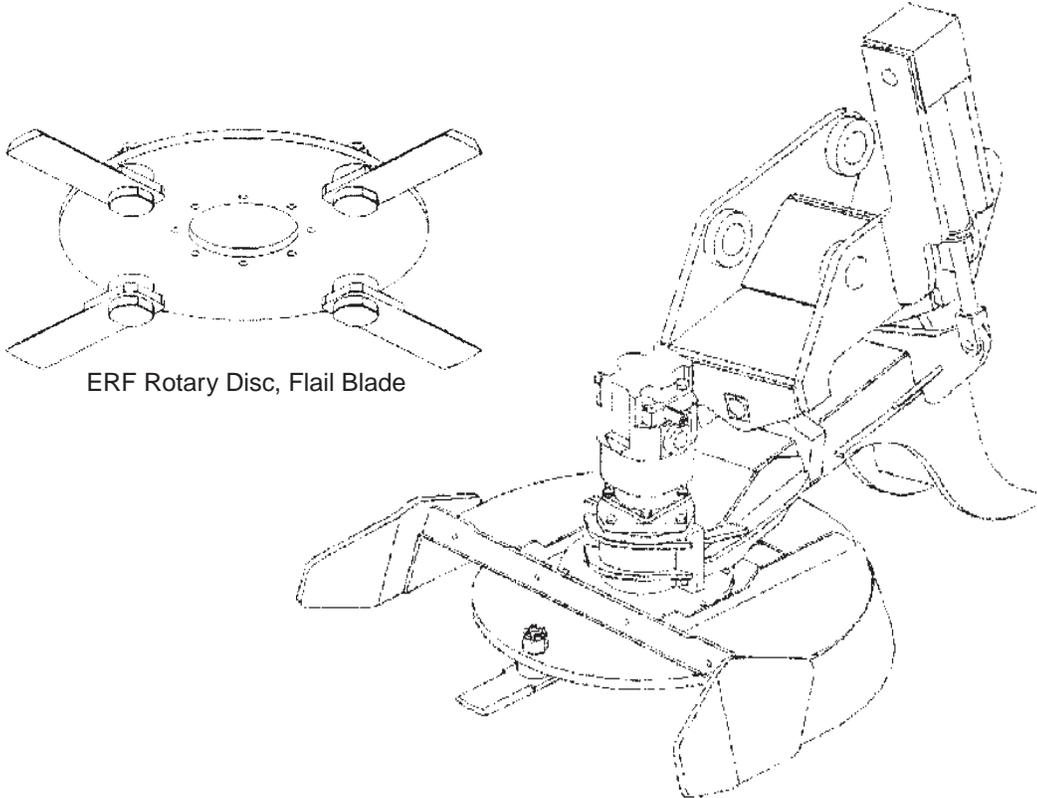


Make/Model .....	Weldco-Beales ERC Rotary Cutter: ERC 36; ERC 48; ERC 60
Manufacturer/Source .....	Weldco-Beales, Inc.
Distributor .....	Contact manufacturer for dealer information
Price .....	Contact manufacturer or dealer
Status .....	In production
Preferred Prime Mover .....	ERC 36: 1 <sup>1</sup> / <sub>2</sub> - to 1-yd excavators; ERC 48: 1- to 1 <sup>1</sup> / <sub>4</sub> -yd excavators; ERC 60: 1 <sup>1</sup> / <sub>4</sub> - to 2-yd excavators
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Boom
Maximum Treatable Material Size .....	6 in
Cutting Mechanism .....	Rotary blade
Cutting Width .....	ERC 36: 36 in; ERC 48: 48 in; ERC 60: 60 in
Shaft (horizontal/vertical) .....	Vertical
Rotation Speed .....	ERC 36: 1,800 rpm; ERC 48: 1,400 rpm; ERC 60: 1,200 rpm
Power Source Required .....	Data not supplied
Weight .....	ERC 36: 650 lb; ERC 48: 1,100 lb; ERC 60: 1,320 lb
Other Attachments .....	Side-tilt extension is available
Special Uses/Adaptations/Other Uses .....	Moveable opening allows change to ERF wheel
Manufacturer's Comments Regarding Equipment Application .....	Handles larger diameter brush where mulch required; moveable opening allows operator choose direction of dispelled debris

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush-Cutters, Vertical Shaft, Boom Mounted

**Weldco-Beales ERF Rotary Flails**



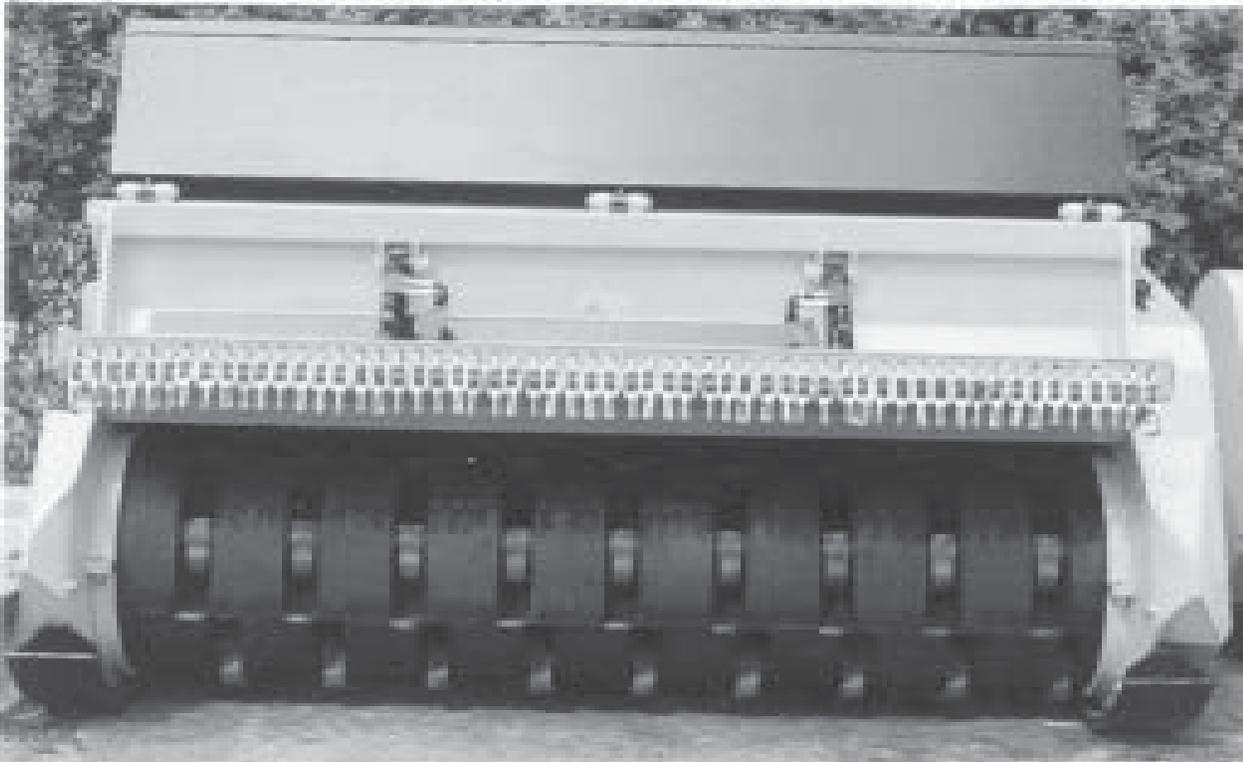
ERF Rotary Disc, Flail Blade

Make/Model .....	Weldco-Beales ERF Rotary Flails: ERF 36; ERF 48; ERF 60
Manufacturer/Source .....	Weldco-Beales Inc. Contact manufacturer for dealer information
Price .....	Contact manufacturer or dealer
Status .....	In production
Preferred Prime Mover .....	ERF 36: 1/2- to 1-yd excavators; ERF 48: 1- to 1 1/4-yd excavators; ERF 60: 1 1/4- to 2-yd excavators
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Boom
Maximum Treatable Material Size .....	3 to 5 in
Cutting Mechanism .....	Blade with knives
Cutting Width .....	ERF 36: 36 in; ERF 48: 48 in; ERF 60: 60 in
Shaft (horizontal/vertical) .....	Vertical
Rotation Speed .....	ERF 36: 1,800 rpm; ERF 48: 1,400 rpm; ERF 60: 1,200 rpm
Power Source Required .....	Data not supplied
Weight .....	ERF 36: 680 lb; ERF 48: 1,400 lb; ERF 60: 1,800 lb
Other Attachments .....	Side-tilt extension is available
Special Uses/Adaptations/Other Uses .....	Moveable opening allows change to ERC wheel.
Manufacturer's Comments Regarding Equipment Application .....	Handles larger-diameter brush where mulch is required; moveable opening allows operator to choose direction of dispelled debris; use ERC models for trees.

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush-Cutters, Horizontal Shaft, Boom or Machine Mounted

**Alamo Severe-Duty Shredder, FMH Series**



Make/Model .....	Alamo Severe-Duty Shredder, FMH Series: 100 H;125 H; 200 E; 225 E; 250; 250 E
Manufacturer/Source .....	Alamo Industrial
Distributor .....	Contact manufacturer for dealer information
Price .....	Contact manufacturer or dealer
Status .....	In production
Preferred Prime Mover .....	FMH 100 H: 70-hp excavator; FMH 125 H: 90-hp excavator; FMH 200 E, FMH 225 E, FMH 250 E: 3-cubic-yard loader or larger; FMH 250: 170-hp tractor
Attachment Mount (lift arms/boom/3-point hitch/other) .....	FMH 100 H, FMH 125 H: hydraulic, excavator boom-mounted; FMH 200 E, FMH 225 E, FMH 250 E: engine-driven, loader-mounted; FMH 250: PTO driven, 3-point-hitch mount
Maximum Treatable Material Size .....	All models listed: up to 15 in
Cutting Mechanism .....	Drum with 14 to 40 free-swinging knives
Cutting Width .....	FMH 100 H: 3 ft 2 in; FMH 125 H: 4 ft; FMH 200 E: 6 ft 4 in; FMH 225 E: 7 ft 2 in; FMH 250 E: 7 ft 10 in; FMH 250: 7 ft 10 in
Shaft (horizontal/vertical) .....	Horizontal rotor
Rotation Speed .....	Data not supplied
Power Source Required .....	FMH 100 H: 70 hp; FMH 125 H: 90 hp; FMH 200 E, FMH 225 E, FMH 250 E come with 170- or 330-hp engines; FMH 250: 170 hp; PTO driven
Weight .....	FMH 100 H: 3,295 lb; FMH 125 H: 4,162 lb; FMH 250: 8,151 lb
Other Attachments .....	Alamo also sells the Grizzly Tree Cutter, Arm and Blade Models 36A, 36C, 52A, 52C; and Rotary Disc Models 36CMP, 52 CMP and 66 CMP (similar to Pro Mac tree-cutter series; see Pro Mac data); and FMM series medium-duty shredders (up to 10-in trees); and FML light-duty series (up to 6-in material)
Special Uses/Adaptations/Other Uses .....	Data not supplied
Manufacturer's Comments Regarding Equipment Application .....	Data not supplied

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush-Cutters, Horizontal Shaft, Boom Mounted

**Seppi M Boom-Mounted Brush-Cutter**



Make/Model .....	Boom-Mounted Brush-Cutter: BMS 100; BMS 125; BMS 150 Brush-Cutters
Manufacturer/Source .....	Brush Technology Division, Carlson Tractor and Equipment Co.
Distributor .....	Carlson Tractor and Equipment Co.
Price .....	Contact manufacturer
Status .....	In production
Preferred Prime Mover .....	Any excavator that can lift required weight and give required horsepower to cutting head
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Boom
Maximum Treatable Material Size .....	Up to 8 in
Cutting Mechanism .....	Free-swinging or fixed-tooth, matched by manufacturer to proper application: BMS 100: 16 hammers; BMS 125: 120 hammers; BMS 150: 124 hammers
Cutting Width .....	Working width: BMS 100: 13 ft 3 in; BMS 125: 14 ft 1 in; BMS 150: 14 ft 11 in
Shaft (horizontal/vertical) .....	Horizontal
Rotation Speed .....	1,900 to 2,000 rpm
Power Source Required .....	Minimum hp: BMS 100: 140; BMS 125: 150; BMS 150: 160; 25 to 50 gpm; 6,000 to 4,000 psi. Maximum 120 hp
Weight .....	BMS 100: 12,225 lb; BMS 125: 12,730 lb; BMS 150: 13,300 lb
Other Attachments .....	Seppi makes a variety of brush heads
Special Uses/Adaptations/Other Uses .....	Data not supplied
Manufacturer's Comments Regarding Equipment Application .....	Reliability and longevity of equipment. New larger Model 150 d.t. cuts up to 18-in tree; new in May 2000. Has separate engine to operate cutter head.

Brush-Cutting, Thinning, Shredding, and Crushing Attachments

Brush-Cutters, Horizontal Shaft, Boom Mounted

**Brontosaurus Brush Mower**



Make/Model .....	Brontosaurus Brush Mower: Standard 3- and 4-ft models; 2.5 Model
Manufacturer/Source .....	John Brown & Sons, Inc.
Distributor .....	Contact John Brown & Sons, Inc.
Price .....	Standard packages, without options: 4 ft: \$26,500; 3 ft: \$26,500. With power pack rock, guards, and frame strengthening, \$72,500. 2.5 Model: \$22,500 (power pack not available)
Status .....	In production
Preferred Prime Mover .....	Designed for tracked or rubber-tired excavators in the 15- to 20-ton class using auxiliary power pack. Larger excavators (including some 20-ton machines) have sufficient hydraulics to power the head.
Other Suitable Prime Movers .....	Feller-bunchers, specialized carriers (Gradal, Badger) with telescoping booms
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Articulating or telescoping boom
Maximum Treatable Material Size .....	(3 and 4 ft): Steady: 6-in hardwood, 8-in softwood; Random: 8-in hardwood, 10-in softwood; 2.5 Model: 4 to 5 inches
Cutting Mechanism .....	Horizontal drum shredder with free-swinging, high-carbon steel knives. Std. 4 ft: 24 knives; std. 3 ft: 20 knives; 2.5 Model: 16 knives
Cutting Width .....	Std. 4 ft: 48 in; std. 3 ft: 36 in; 2.5 Model: 30 in
Shaft (horizontal/vertical) .....	Horizontal
Rotation Speed .....	All models: 0 to 1,500 rpm
Power Source Required .....	Std. 4 ft: 3,500 to 5,000 psi, up to 50 gpm; std 3 ft: 3,500 to 5,000 psi, up to 50 gpm; 2.5 Model: 2,500 to 4,000 psi, 29 gpm
Weight .....	Std. 4 ft: 4,200 lb; Std. 3 ft: 3,600 lb; 2.5 Model: 3,000 lb
Other Attachments .....	3- and 4-ft models available with optional auxiliary power pack, John Deere 4045T, 117 hp
Special Uses/Adaptations/Other Uses .....	2.5 Model can be interchanged with railroad rotary track mowers; chips range from 2 to 6 in; by mowing a second time, chips can be made smaller
Manufacturer's Comments Regarding Equipment Application .....	Safety, durability, cleanliness of work site (uniform size mulch)

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush-Cutters, Horizontal Shaft, Boom Mounted

**Timberwolf BM55 Boom-Mounted Cutter**

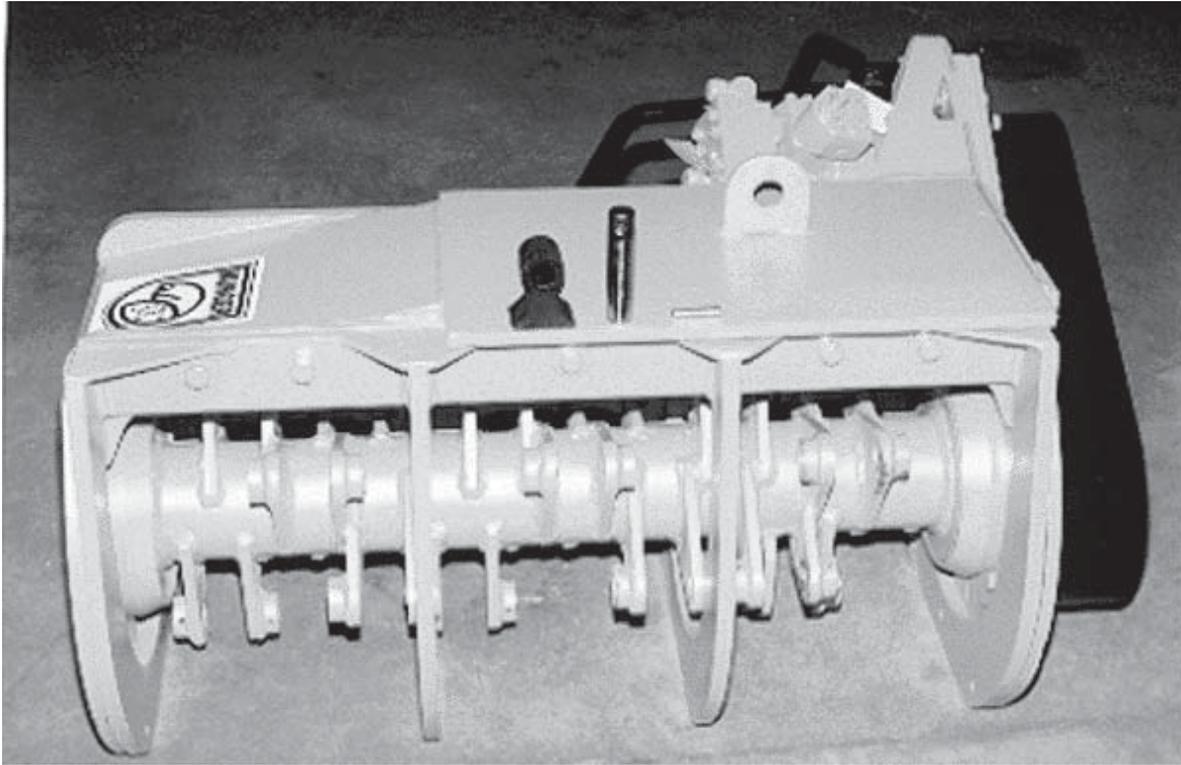


Make/Model .....	Timberwolf BM55 Boom-Mounted Cutter
Manufacturer/Source .....	New Forest Technology, Inc.
Distributor .....	King Forestry Equipment, Inc.
Price .....	\$53,000
Status .....	Built when ordered
Preferred Prime Mover .....	Tracked excavator
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Boom
Maximum Treatable Material Size .....	16 in
Cutting Mechanism .....	22 to 36 free-swinging cutters
Cutting Width .....	55 to 90 in actual, 60-106 in operational
Shaft (horizontal/vertical) .....	Horizontal
Rotation Speed .....	1,200 to 2,200 rpm
Power Source Required .....	60 gpm; 5,000 psi
Weight .....	2,500 lb
Other Attachments .....	Timberwolf also makes a machine-mounted land-clearing device
Special Uses/Adaptations/Other Uses .....	Land clearing, strip or selective thinning, hazard reduction; manufacturer will supply or install units on customer's preferred prime mover
Manufacturer's Comments Regarding Equipment Application .....	Very rugged, high-horsepower machines with high throughput capacity

Brush-Cutting, Thinning, Shredding, and Crushing Attachments

Brush-Cutters, Horizontal Shaft, Boom Mounted

**Munger Flail Cutters**



Make/Model .....	Munger Flail Cutters: SMC-050L; SMC-050R; SMC-060
Manufacturer/Source .....	Produits Forestiers Mungers, Inc.
Price .....	Contact Produits Forestiers Mungers, Inc. SMC-050L: \$19,700; SMC-050R: \$21,300; SMC-060: \$24,300 (f.o.b. factory, not including taxes, U.S. dollars)
Status .....	In production
Preferred Prime Mover .....	SMC-050L: carriers 65 hp and up; SMC-050R: carriers 80 hp and up; SMC-060: carriers 85 hp and up
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Boom
Maximum Treatable Material Size .....	Data not supplied
Cutting Mechanism .....	Open rotor with knives: SMC-050L, SMC-050R = 18 knives; SMC-060 = 24 knives
Cutting Width .....	SMC-050L, SMC-050R: 41 in; SMC-060: 54 in
Shaft (horizontal/vertical) .....	Horizontal
Rotation Speed .....	2,300 rpm
Power Source Required .....	SMC-050L, SMC-050R: 18 to 30 gpm; 3,000 psi; SMC-060: 24 to 30 gpm; 3,000 psi
Weight .....	SMC-050L is approximately 1,200 lb; SMC-050R is approximately 1,695 lb; SMC-060 is approximately 1,980 lb
Other Attachments .....	Munger also makes rotary cutters
Special Uses/Adaptations/Other Uses .....	Chips range from 6 to 12 in; optional breaking devices available
Manufacturer's Comments Regarding Equipment Application .....	Safety: heavy-duty frames; flywheels on brush-cutters; low operational costs and excellent reliability

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush-Cutters, Horizontal Shaft, Boom Mounted

**Pro Mac Flail Hammer Brush-Cutters**

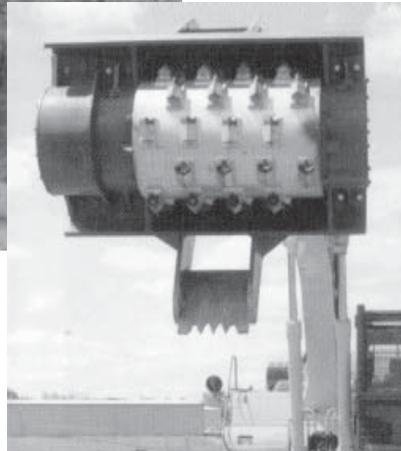


Make/Model .....	Pro Mac Flail Hammer Brush-Cutters: 34 Light Duty; 34 Standard Duty; 34 Extreme Duty; 48 Light Duty; 48 Standard Duty; 60 Standard Duty
Manufacturer/Source .....	Pro Mac Manufacturing, Ltd.
Distributor .....	Most original equipment manufacturer excavator dealerships, such as Case, Caterpillar, Hyundai, John Deere, Kobelco, Komatsu, Line Belt, Samsung
Price .....	\$17,000 to \$19,800 (Prices subject to change)
Status .....	In production
Preferred Prime Mover .....	Hydraulic excavator to suit specific size of cutter
Other Suitable Prime Movers .....	Hydraulic ram skidders with swing booms, like Morgan Silvatrack hydrastatic
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Standard boom or long reach boom special applications
Maximum Treatable Material Size .....	Smaller-sized finished product in stems up to 4-in diameter
Cutting Mechanism .....	Standard-duty flail hammer, free-swinging: 34-in models is 14 teeth or hammers; 48-in models is 18 teeth or hammers; 60-in models is 24 teeth or hammers
Cutting Width .....	34 light, standard, and extreme duty: 34 in; 48 light and standard duty: 48 in; 60 standard duty: 60 in
Shaft (horizontal/vertical) .....	Horizontal
Rotation Speed .....	2,300 rpm
Power Source Required .....	34 light duty and 34 std. duty is 16 to 35 gpm; 34 extreme duty is 30 to 48 gpm; 48 light duty is 30 to 42 gpm; 48 std. duty is 30 to 48 gpm; 60 std. duty is 32 to 48 gpm. All are 2,700 to 4,000 psi
Weight .....	34 light duty: 1,250 lb; 34 standard duty: 1,500 lb; 34 extreme duty: 2,600 lb; 48 light duty: 1,300 lb; 48 standard duty: 1,800 lb; 60 standard duty: 2,400 lb
Other Attachments .....	Pro Mac makes many brush-cutting devices
Special Uses/Adaptations/Other Uses .....	Independent hydraulic ram; smaller rubber-tire backhoes
Manufacturer's Comments Regarding Equipment Application .....	Smaller-sized finished product in stems up to 4-in diameter

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush-Cutter, Horizontal Shaft, Boom Mounted

**Shinn Cutter Models SC-Lite, SC-2, and SC-3**



Make/Model .....	Shinn Cutter Models SC1-Lite, SC-2, and SC-3
Manufacturer/Source .....	Shinn Cutter Systems
Distributor .....	Shinn Cutter Systems
Price .....	SC-Lite: \$159,000; SC-2: \$190,000; SC-3: \$285,000. Prices include installation of power pack and grinding head; customer pays shipping of excavator both ways.
Status .....	In production
Preferred Prime Mover .....	360-degree tracked or wheeled excavator. SC-Lite: min. 33,000-lb excavator; SC-2: min. 48,000-lb excavator; SC-3: min. 60,000-lb excavator
Maximum Treatable Material Size .....	Unlimited
Cutting Mechanism .....	Fixed
Cutting Width .....	36 in
Shaft (horizontal/vertical) .....	Horizontal
Rotation Speed .....	SC1-Lite: 1,750 rpm; SC-2, SC-3: 1,375 rpm
Attachment Power Supply .....	Self-contained. Power unit (Caterpillar or Cummins) is mounted to the back of excavator. SC-Lite: 245 to 255 hp; SC-2: 310 to 320 hp; SC-3: 525 to 600 hp
Weight .....	Depends on power unit and excavator
Special Uses/Adaptations/Other Uses .....	Row maintenance, first-cut roads, storm debris cleanup, firebreak establishment, large tracts
Manufacturer's Comment .....	Versatile, cost effective, with ability to grind trees of any diameter to manageable, environmentally friendly mulch. One machine, one operator.

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush-Cutter, Machine Pulled

**Brown Tree Cutters**



Woods Boss  
rubber-tired  
tractor



Brown  
Tree Cutter

Make/Model .....	Brown Tree Cutters: TCO-2515C, TCO-2615C, TCF-2615, TCO-2620C, TCF-2620 (other optional models that run at different rpm's are available)
Manufacturer/Source .....	Brown Manufacturing Corp.
Distributor .....	Brown Manufacturing Corp.
Price .....	TCO-2515C: \$4425; TCO-2615C: \$4665; TCF-2615: \$5470; TCO-2620C: \$6255; TCF-2620: \$7335
Status .....	In production
Preferred Prime Mover .....	Tractor with 3-point hitch and sufficient PTO horsepower
Attachment Mount (lift arms/boom/3-point hitch/other) .....	3-point hitch
Maximum Treatable Material Size .....	TCO-2515C, TCO-2615C, TCF-2615: 6 in; TCO-2620C, TCF-2620: 8 in
Cutting Mechanism .....	Four free-swinging blades mounted on a circular disc
Cutting Width .....	TCO-2515C: 60 in; TCO-2615C, TCF-2615, TCO-2620C and TCF-2620: 72 in
Shaft (horizontal/vertical) .....	Vertical
Rotation Speed .....	810 rpm
Power Source Required .....	TCO-2515C: 50 to 90 hp; TCO-2615C: 60 to 90 hp; TCF-261570: to 90 hp; TCO-2620C: 70 to 100 hp; TCF-2620: 80 to 100 hp
Weight .....	TCO-2515C is 1,700 lb; TCO-2615C is 2,050 lb; TCF-2615 is 2,315 lb; TCO-2620C is 2,250 lb; TCF-2620 is 2,600 lb
Other Attachments .....	Brown also makes smaller tree cutters and brush mowers. Vegetative Mowing Equipment (Marietta, GA) makes a special right-of-way tractor called the Woods Boss that is a well-guarded, rubber-tired tractor that can pull the Brown Tree Cutter.
Special Uses/Adaptations/Other Uses .....	Right-of-way clearing
Manufacturer's Comments Regarding Equipment Application .....	Data not supplied

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush-Cutters (Land-Clearing Blade), Machine Mounted

**Rome K/G Clearing Blades: KGB and KGBA Series**



Make/Model .....	Rome K/B Clearing Blades: KGB and KGBA Series
Manufacturer/Source .....	Rome Plow Company
Distributor .....	Caterpillar dealer network
Price .....	Contact dealer
Status .....	In production
Preferred Prime Mover .....	Models to fit Caterpillar D5 to D9 tractors
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Machine mount
Height .....	4 ft 4 <sup>1</sup> / <sub>2</sub> in to 5 ft 4 <sup>3</sup> / <sub>4</sub> in
Length .....	Trunnion to stinger tip is 19 ft 2 in to 22 ft 8 in
Width .....	10 ft 9 <sup>1</sup> / <sub>2</sub> in to 13 ft
Weight .....	3,520 to 16,360 lb
Cutting Mechanism .....	Serrated blades of tough T-1 steel; shears small trees and vegetation off at ground level and windrows them to the side in one continuous pass. Complete control over falling trees.
Power Source Needed .....	Host dozer
Other Attachments .....	RV-Series Vee-Blade cutters with center-mounted "stinger," Rome tree pusher, root plow, dozer rake, and disk harrows
Special Uses/Adaptations/Other Uses .....	Builds forest roads and firebreaks
Manufacturer's Comments Regarding Equipment Application .....	Data not supplied

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brus-Cutters (Land-Clearing Blade), Machine Mounted

**Savannah 1000-Series V-Shear, Land-Clearing Blades**



Make/Model .....	Savannah 1000-Series V-Shear, Land-Clearing Blade: Models 1020; 1030; 1040
Manufacturer/Source .....	Savannah Forestry Equipment, LLC
Distributor .....	Contact Savannah Forestry Equipment, LLC
Price .....	1020 is \$29,000; 1030 is \$24,500; 1040 is \$22,500
Status .....	In production
Preferred Prime Mover .....	1020: 250- to 300-hp dozers; 1030 : 200- to 250-hp dozers; 1040: 150- to 180-hp dozers
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Machine mount
Height .....	51 in
Length .....	24 ft from stinger to sidearm trunion cap
Width .....	9 ft 10 in
Weight .....	6.3 tons
Cutting Mechanism .....	Apron with sharpened serrated blade has a wedge design that is presented at an angle to tree stump, allowing small amounts of force to give considerable cutting effect; cuts 28-in stump
Power Source Needed .....	Host dozer
Other Attachments .....	Savannah also makes a rolling chopper, and forestry bedding and subsoiling plows
Special Uses/Adaptations/Other Uses .....	Front stinger can split large trees or stumps and weaken them to allow cutting right through
Manufacturer's Comments Regarding Equipment Application .....	Data not supplied
MTDC Comment .....	Rockland and Sharpco also make land-clearing blades. Their products are not shown in this report, but their addresses are in Appendix B.

Brush-Cutting, Thinning, Shredding, and Crushing Attachments

Brush-Cutters (Rolling Choppers), Machine Pulled

**Marden Heavy-Duty Brush-Cutter: SB and B Series**



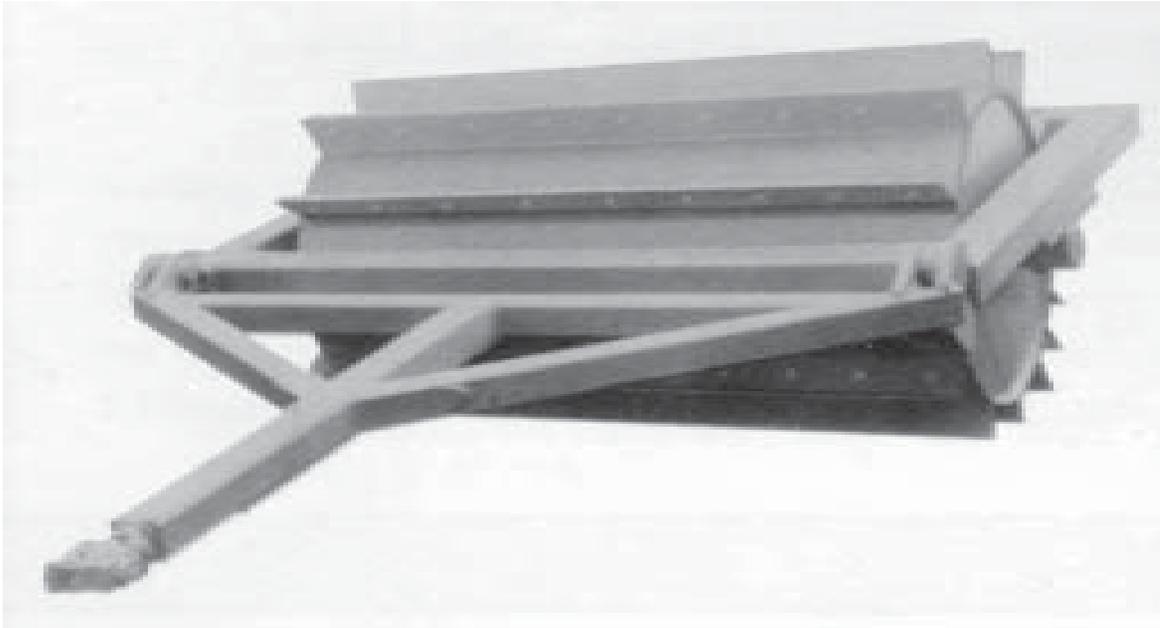
SB10-GK 10-foot Brush-Cutter.

Make/Model .....	Marden Heavy-Duty Brush-Cutter: SB and B Series—SB10-GK 10-ft brush-cutter shown
Manufacturer/Source .....	Marden Industries, Inc.
Distributor .....	Marden Industries, Inc.
Price .....	Contact manufacturer
Status .....	In production
Preferred Prime Mover .....	Cat D-6 or equivalent
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Rear draw or winch cable with optional rear hydraulic wheel lift
Maximum Treatable Material Size .....	Up to 4 in
Cutting Mechanism .....	12 fixed 1 in x 10 in x 10 ft
Cutting Width .....	10 ft
Shaft (horizontal/vertical) .....	Horizontal
Rotation Speed .....	3 to 5 mph
Power Source Required .....	175-hp drawbar
Weight .....	17,000 lb empty, 28,500 lb filled
Other Attachments .....	Marden makes 12 other heavy-duty models designed for crawler tractors, four medium- and light-duty models designed for rubber-tired tractors; drum widths 5 to 12 ft; 2,000 to 38,000 lb; and requiring 20 to 250 drawbar horsepower
Special Uses/Adaptations/Other Uses .....	Can be attached to winch cable and released downhill, then winched back up to prime mover
Manufacturer's Comments Regarding Equipment Application .....	Weight and durability
MTDC Comment .....	SB models have a single drum and B models have a tandem set of drums.

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush-Cutters (Rolling Choppers), Machine Pulled

**Rockland Rolling Choppers**



Make/Model .....	Rockland Rolling Chopper: C-6; C-7; C-8; C-10; C-12; C-14; and C-16
Manufacturer/Source .....	Rockland Manufacturing Co.
Distributor .....	Contact construction equipment dealers
Price .....	Contact construction equipment dealers
Status .....	In production
Preferred Prime Mover .....	Data not supplied
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Draw pull
Maximum Treatable Material Size .....	Single-drum models (d.b.h. = drawbar horsepower): C-6: 35 to 50 d.b.h.; C-7: 50 to 75 d.b.h.; C-8: 97 to 130 d.b.h.; C-10: 130 d.b.h. and up; C-12: 185 d.b.h. and up; C-14: 230 d.b.h. and up; C-16: 268 d.b.h. and up
Cutting Mechanism .....	C-6: 10 blades; C-7: 10 blades; C-8: 12 blades; C-10: 12 blades; C-12: 12 blades; C-14: 12 blades; C-16: 16 blades
Cutting Width .....	C-6: 6 ft; C-7: 7 ft; C-8: 8 ft; C-10: 10; C-12: 12 ft; C-14: 14 ft; C-16: 16 ft
Shaft (horizontal/vertical) .....	Horizontal drum
Rotation Speed .....	Draw pull
Power Source Required .....	Draw pull
Weight .....	C-6: 4,700 to 8,200 lb; C-7: 8,100 to 15,500 lb; C-8: 12,100 to 22,190 lb; C-10: 14,600 to 29,700 lb; C-12: 17,400 to 36,100 lb; C-14: 20,000 to 40,400 lb; C-16: 33,600 to 68,700 lb
Other Attachments .....	Single drum or multiunits available; multidrum models have 2 extra blades on the rear drum to prevent tracking. They also make a tree shear for a dozer.
Special Uses/Adaptations/Other Uses .....	Data not supplied
Manufacturer's Comments Regarding Equipment Application .....	Data not supplied

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush-Cutters (Rolling Choppers), Machine Pulled

**Savannah Model 1110 Chopper Roller**



Make/Model .....	Savannah Model 1110 Chopper Roller
Manufacturer/Source .....	Savannah Forestry Equipment, LLC
Distributor .....	Contact Savannah Forestry Equipment, LLC
Price .....	\$27,750
Status .....	In production
Preferred Prime Mover .....	For heavy debris: 250- to 300-hp dozer, large 4x4 tractor or skidder
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Hydraulic offset drawbar with swivel pull
Maximum Treatable Material Size .....	Data not supplied
Cutting Mechanism .....	5-ft-diameter roller
Cutting Width .....	10 ft
Shaft (horizontal/vertical) .....	Horizontal
Rotation Speed .....	Draw pull
Power Source Required .....	Draw pull
Weight .....	Empty: 6.9 tons; with outside tanks full: 10 tons; with all ballast included: 11.6 tons
Other Attachments .....	Comes in 10- or 12-ft single units or dual 8-ft models in tandem
Special Uses/Adaptations/Other Uses .....	Can be built with three water ballast compartments to give four weight options to suit field conditions
Manufacturer's Comments Regarding Equipment Application .....	Data not supplied

**Brush-Cutting, Thinning, Shredding, and Crushing Attachments**

Brush-Cutter (Crusher), Machine Mounted

**Meri Crusher Heavy-Duty Mulcher and Rototiller**



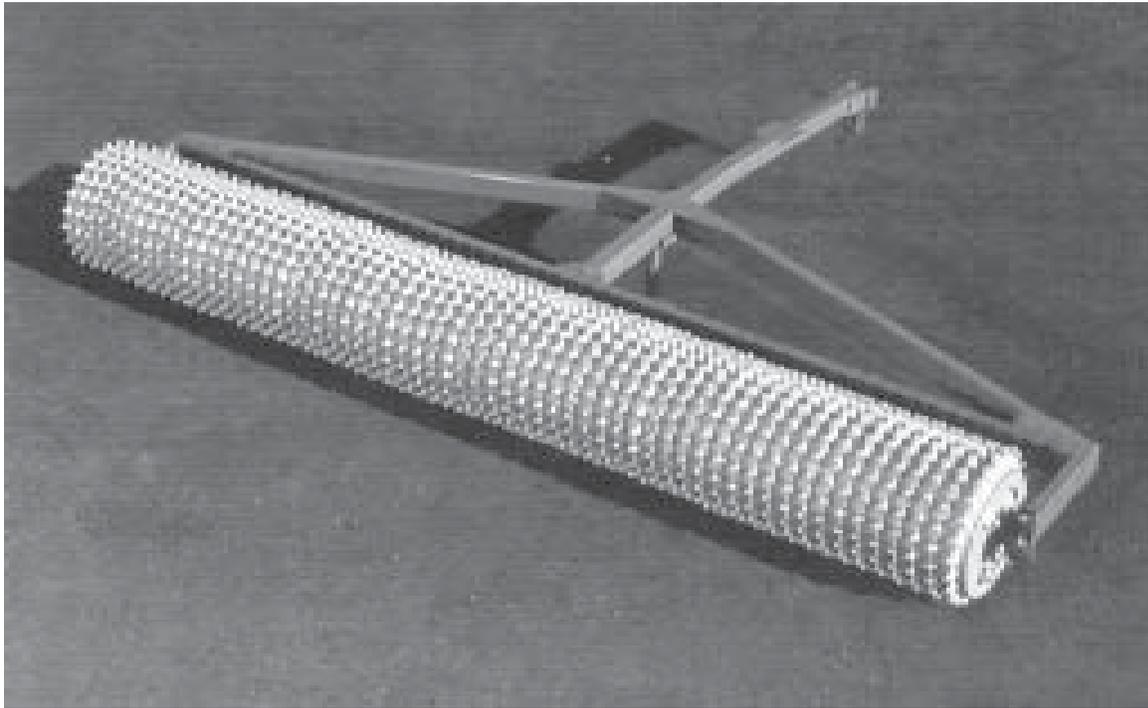
Make/Model .....	Meri Crusher Heavy-Duty Mulcher and Rototiller: MJ-1.8; MJ-2.3; MJS-2.0 DT; and MJS-2.5 DT
Manufacturer/Source .....	Suokone Oy
Distributor .....	Hakmet USA
Price .....	\$15,500 to \$34,700
Status .....	In production
Preferred Prime Mover .....	Mainly dependent upon application—generally tractors, excavators, bulldozers: MJ-1.8: 65 to 180 hp; MJ-2.3: 80 to 180hp; MJS-2.0 DT: 110 to 180 hp; MJS-2.5 DT: 120 to 180 hp
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Front or rear-mount mechanical or hydraulic mounting (3-point hitch, boom, and so forth)
Maximum Treatable Material Size .....	Depends upon speed operated: slash and limbs 2 to 3 in
Cutting Mechanism .....	Fixed carbide-tipped in holders welded to crusher drum: MJ-1.8: 64 cutters; MJ-2.3: 85 cutters; MJS-2.0 DT: 74 cutters; MJS-2.5 DT: 93 cutters
Cutting Width .....	Working width: MJ-1.8: 5 ft 11 in; MJ-2.3: 7 ft 7 in; MJS-2.0 DT: 6 ft 7 in; MJS-2.5 DT: 8 ft 2 in
Shaft (horizontal/vertical) .....	Drum is horizontal, no shafts for cutters; cutters are vertical
Rotation Speed .....	540 rpm on all models except the MJS-2.0 DT and MJS-DT, which are 380 rpm
Power Source Required .....	1,000-rpm PTO preferred, 540 optional
Weight .....	MJ-1.8: 1,686 to 2,117 lb; MJ-2.3: 1,918 to 2,459 lb; MJS-2.0 DT: 2,745 lb; MJS-2.5 DT: 2,999 lb
Length .....	5 ft 5 in to 5 ft 9 in
Height .....	4 ft 3 in to 4 ft 7 in
Other Attachments .....	Smaller models
Special Uses/Adaptations/Other Uses .....	Dust control, reconditioning and maintaining roads, ground preparation of tough soil, elimination of pruning debris, stump grinding, and so forth; capable of working where the prime mover able to operate; can be used with an hydraulic roller or felling frame
Manufacturer's Comments Regarding Equipment Application .....	Shreds wood, grinds stumps, pulverizes hard soil and incorporates chips to desired depth (0-10 in); doesn't throw material outside the implement



Brush-Cutting, Thinning, Shredding, and Crushing Attachments

Crusher (Culti-Packer), Machine Pulled

**Schmeiser Till an' Pak Culti-Packer**



Make/Model .....	Schmeiser Till an' Pak Culti-Packer
Manufacturer/Source .....	T.G. Schmeiser Co., Inc.
Distributor .....	Contact for manufacturer for nearest dealer
Price .....	List \$1,000 to \$13,000 depending on size
Status .....	In production
Preferred Prime Mover .....	Varies with size, tractor with draw-bar hitch
Attachment Mount (lift arms/boom/3-point hitch/other) .....	Draw pull or 3-point hitch
Maximum Treatable Material Size .....	Unknown; used in forests, duck preserves
Cutting Mechanism .....	Attachment consists of tubes with approximately rings of curved teeth per foot of width, available in 8-, 10-, 12-, and 14-in diameters; can be used singly or in squadrons
Cutting Width .....	Custom made in lengths from 2 to 24 ft
Shaft (horizontal/vertical) .....	Horizontal tubes
Rotation Speed .....	Draw pull
Power Source Required .....	Draw pull
Weight .....	Weight is per foot, depending upon ring and tube size; average is 200 lb/ft
Special Uses/Adaptations/Other Uses .....	Designed to break clods and pulverize soil, seal in fertilizer or fumigants, turn and mulch soil, pack soil (in pack mode)
Manufacturer's Comments Regarding Equipment Application .....	Data not supplied