



## Other Machines and Miscellaneous Attachments

**Concept**—These machines and attachments are not easily categorized. Some are built for applications other than brush cutting. Others are general application machines, but may apply to this project because of unusual characteristics or their size.

**Comments**—The tree trimmers were chosen for their ability to cut down ladder fuels both in stands and along the forest/residential interface. The Sweco trail dozer was included based on its size and versatility.

Although excavators are not included in this catalog, they usually are not cost-effective skidders. In general, they can run a variety of attachments and are excellent platforms for attachments that can reduce biomass. If there is an excavator onsite from another operation, and the area to be treated is small, it may be more cost effective to use the excavator than to bring in a specialized machine.

**Other Manufacturers or Sources**—Check the annual excavator issue in *Equipment Today* for information on excavators, and the annual buyer's guides from Timber West or Timber Harvesting for other logging-related equipment (see Appendix B for details).

Other Machines and Miscellaneous Attachments

Tree Trimmers

**Jarraff All-Terrain Tree Trimmer**



Jaraff Tree Trimmers, wheeled and tracked.

Make/Model .....	Jarraff All Terrain Tree Trimmer: 4 x 4; Crawler Models
Manufacturer/Source .....	Jarraff Industries, Inc.
Distributor .....	Jarraff Industries, Inc.
Price .....	Contact manufacturer
Status .....	In production
Prime Mover .....	Jarraff is a prime mover
Prime Mover Engine Power .....	106 hp
Gas/Diesel .....	Diesel
Transmission .....	Hydrostatic
Max. Travel Speed .....	12.5 mph
Width .....	4 x 4: depends on tires
Length .....	4 x 4: 37 ft (25 ft from winch to blade)
Height .....	4 x 4: 10 ft
Weight .....	4 x 4 is approximately 18,500 lb; crawler is approximately 19,000 lb
Ground Clearance .....	Data not supplied
Turning Radius .....	4 x 4: 25 ft; crawler: 0
Slope Limitations and Specified Conditions .....	Hydraulically powered turntable provides 360-degree range of motion and 40-degree lateral tilt
Attachment Power Supply .....	Hydraulic
Attachment Mount (lift arms/boom/3-point/other) .....	Boom
Boom Type and Reach .....	Non-conductive high-tensile fiberglass
Track Type, Width (options) and Gpsi .....	Crawler is rubber; 33-in tracks; 1.8 psi
Tires, Size and Gpsi .....	4 x 4: 23.1 x 26; 20 x 20; 28L x 20; 30 x 26; 66 x 4300-25
Attachment Type/Model .....	Jarraff Tree Trimmer
Price, if not included with prime mover .....	Included
Maximum Treatable Material Size .....	24 in
Cutting Mechanism .....	Rotary blade, 24 in
Cutting Width .....	Maximum cutting height is 75 ft
Shaft (horizontal/vertical) .....	Vertical
Rotation Speed (rpm) .....	3,200 rpm
Power Source Required .....	Integral
Head Weight .....	80 lb
Other Attachments Available .....	Has 8 ft x 2 ft dozer blade and 20,000-lb line pull winch (capacity for 200 ft of 1/2-in line). Crawler has optional grouser bar; 4 x 4 articulated in middle
Special Uses/Adaptations/Other Uses .....	Good for rural/urban interface or urban rights-of-away where low impact needed
Manufacturer's Comments Regarding Equipment Application .....	No outriggers needed, lightweight boom

Other Machines and Miscellaneous Attachments

Tree Trimmers

**Kershaw Klipper Tree Trimmers, Models 55-4 and 70-10**



Make/Model .....	Kershaw Klipper 55-4 and 70-10 Tree Trimmers
Manufacturer/Source .....	Kershaw Manufacturing Co., Inc.
Distributor .....	Estill's Windbreak Trimming, Inc.
Price .....	Contact manufacturer or dealer
Status .....	In production
Prime Mover .....	Klipper 55-4; 70-10 are prime movers
Prime Mover Engine Power .....	185 hp at 2,200 rpm
Gas/Diesel .....	Data not supplied
Transmission .....	Hydrostatic 4-wheel drive
Max. Travel Speed .....	Data not supplied
Width .....	Data not supplied
Length .....	32 ft 8 in, folded for transport
Height .....	12 ft to top of cab
Weight .....	55-4 is approximately 28,000 lb; 70-10 is approximately 22,000 lb
Ground Clearance .....	Data not supplied
Slope Limitations and Specified Conditions .....	Data not supplied
Attachment Power Supply .....	55-4: engine-driven triple pump drive; 70-10: engine-driven double pump drive
Attachment Mount (lift arms/boom/3-point/other) .....	Boom
Boom Type and Reach .....	55-4 is fiberglass-insulated boom with 60-ft reach; 180-degree boom turret rotation; 360-degree cutter head rotation; 70-10 is steel and fiberglass insulated boom with 43-ft reach; 270-degree boom turret rotation; 300-degree cutter head rotation
Tires, Size and Gpsi .....	55-4: 67 x 34.00-25 flotation; 70-10: 54 x 37.00 flotation
Attachment Type/Model .....	Saws
Price, if not included with prime mover .....	Contact manufacturer or dealer
Maximum Treatable Material Size .....	Data not supplied
Cutting Mechanism .....	55-4 is three 20-in saws or one 32-in cutter head saw; 70-10 is three 20-in saws
Cutting Width .....	55-4 trims from below grade to 60-ft high
Shaft (horizontal/vertical) .....	Data not supplied
Rotation Speed .....	Data not supplied
Power Source Required .....	Integral
Head Weight .....	Data not supplied
Other Attachments Available .....	55-4 has optional 66 x 43-25 high flotation tires and optional rail wheels; 70-10 has optional 66 x 34.25 high flotation tires
Special Uses/Adaptations/Other Uses .....	Data not supplied
Manufacturer's Comments Regarding Equipment Application .....	70-10: Roadside slope trimmer; 55-4: High-production tree-trimming right-of-way applications

Other Machines and Miscellaneous Attachments

Tree Trimmers

**Timberland Tree Trimmer**



Make/Model .....	Timberland Tree Trimmer
Manufacturer/Source .....	T.S.E. International, Inc.
Distributor .....	Contact T.S.E. International, Inc.
Price .....	Contact manufacturer
Status .....	In production
Prime Mover .....	Timberland Tree Trimmer is a prime mover
Prime Mover Engine Power .....	150 hp
Gas/Diesel .....	Diesel
Transmission .....	Power shift
Max. Travel Speed .....	18 mph
Width .....	10 ft 3 in with 67 x 34 tires
Length .....	25 ft (for transport)
Height .....	10 ft
Weight .....	30,000 lb
Ground Clearance .....	Approximately 22 in
Turning Radius .....	Approximately 22 ft
Slope Limitations and Specified Conditions .....	Front slopes up to 30%; tilt frame allows head to remain vertical on sideslopes up to 7 degrees
Attachment Mount (lift arms/boom/3-point/other) .....	Boom
Boom Type and Reach .....	Non-conductive insulated fiberglass; two boom heights available, 60 or 70 ft; reaches from ground level up to 70 ft maximum cutting height
Tires, Size and Gpsi .....	67 x 34-26; approximately 6.0 psi
Attachment Type/Model .....	Timberland Five Blade Cutting Head
Price, if not included with prime mover .....	Included
Maximum Treatable Material Size .....	6 in
Cutting Mechanism .....	Five 18-in circular blades on a wand; wand swings 170 degrees, rotates 180 degrees; cutter head can be positioned left to right approximately 50 ft from ground level to 70-ft maximum cutting height
Cutting Width .....	60 in; unit is designed to side trim trees and residual plant growth from ground level to 70-ft maximum cutting height
Shaft (horizontal/vertical) .....	Saw blades are mounted vertically in wand
Rotation Speed .....	3,200 rpm
Power Source Required .....	Integral
Head Weight .....	500 lb
Other Attachments Available .....	Has 30,000-lb hydraulic, rear-mounted recovery winch with capacity for 270 ft of <sup>5</sup> / <sub>16</sub> -in cable; rear tow hitch; optional front recovery winch tow hitch
Special Uses/Adaptations/Other Uses .....	Each axle has selectable differential lock that reduces site damage on sensitive sites; dozer blade used in lieu of outriggers; dozer blade also available for limited dozing work
Manufacturer's Comments Regarding Equipment Application .....	Clearing powerline, pipeline rights-of-away, other similar trimming operations; one continuous mile per day, easily attainable in most applications

Other Machines and Miscellaneous Attachments

Trail Dozer

**Sweco 480 Trail Dozer**



Make/Model .....	Sweco 480 Trail Dozer
Manufacturer/Source .....	Sutter Equipment Co.
Distributor .....	Sutter Equipment Co.
Price .....	\$49,800
Status .....	In production
Prime Mover .....	Sweco 480 is a prime mover
Prime Mover Engine Power .....	80-hp turbo
Gas/Diesel .....	Diesel, water cooled
Transmission .....	Twin hydrostatic pumps
Max. Travel Speed .....	5 mph
Width .....	4 ft
Length .....	13 ft 1 in (with blade and rippers)
Height .....	6 ft 8 in
Weight .....	9,000 lb
Ground Clearance .....	8 in
Turning Radius .....	Counter rotation
Slope Limitations and Specified Conditions .....	35 degrees
Attachment Power Supply .....	10 to 30 gpm; 2,200 psi auxiliary circuit
Attachment Mount (lift arms/boom/3-point/other) .....	Machine and 3-point hitch
Track type, Width (options), and Gpsi .....	Steel; 11 in; 7.3 psi
Attachment Type/Model .....	Sweco Flail Mower
Price, if not included with prime mover .....	\$6,800
Other Suitable Prime Movers .....	None
Maximum Treatable Material Size .....	2 in
Cutting Mechanism .....	Hammer-knife teeth
Cutting Width .....	4 ft
Shaft (horizontal/vertical) .....	Horizontal
Rotation Speed .....	2,000 rpm
Power Source Required .....	23 gpm; 2,000 psi
Head Weight .....	Data not supplied
Other Attachments Available .....	Sweco 8- and 9-ft backhoes with optional hydraulic thumb, hydraulic auger, heavy-duty brush rake, dozer slope board, hydraulic winch, roller
Special Uses/Adaptations/Other Uses .....	Firefighting, building fire breaks, timber thinning
Manufacturer's Comments .....	6-way blade and rippers are standard.

Other Machines and Miscellaneous Attachments

Three-Point-Hitch Grapples

**ImpleMax Three-Point-Hitch Grapples**



Make/Model .....	ImpleMax 6042R, 6042 Rw; 4836R, 4836Rw; FS48, FG48w; FG60 and FG60w
Manufacturer/Source .....	ImpleMax
Distributor .....	Contact manufacturer
Price .....	6042R, \$6,632; 6042Rw (12,000 lb), \$8,905; 4836R, \$5,611; 4836Rw \$7,421; FG60, \$4,932; FG60w (12,000 lb), \$7,189; FG60w (9,000 lb), \$6,942; FG48, \$4,185; FG48w, \$6,180
Status .....	In production
Preferred Prime Mover .....	6042R: 55- to 110-hp tractors; 6042Rw: 55- to 110-hp tractors; 4836R and 4836Rw: 30- to 55-hp tractors; FG48, FG48w, FG60, and FG60w: over 30 hp
Other Suitable Prime Movers .....	Rubber tire or track crawlers
Attachment Mount (lift arms/boom/3-point/other) .....	(3-point): 6042R, FG60, FG60w: Category II; all others Category I
Grapple Weight .....	6042R: 940 lb; 6042Rw: 1,118 lb; 4836R: 604 lb; 4836Rw: 740 lb; FG60: 750 lb; FG60w: 850 lb; FG48: 615 lb; FG48w: 715 lb
Grapple Capacity .....	6042R, FG60, 6042Rw, FG60w: 9.0-sq-ft enclosure area, 60-in max. opening width, 42-in max. opening height. 4836R and FG48: 6.94-sq-ft enclosure area, 48-in max. opening width, 36-in max. open height
Winch Type (built into boom) .....	6042Rw: 12,000-lb, 10-in drum, up to 185 ft of <sup>3</sup> / <sub>8</sub> -inch cable, reel speed 48 fpm at 15 gpm; 4836Rw: 9,000-lb, 8-in drum, max. 148 ft of <sup>3</sup> / <sub>8</sub> -in cable, reel speed 72 fpm at 15 gpm; FG48W and FG60w: 9,000-lb, 10-in drum, max 104 ft of <sup>3</sup> / <sub>8</sub> -in cable, reel speed 72 fpm at 15 gpm; FG60w: 12,000-lb, 8-in drum, max. 185 ft of <sup>3</sup> / <sub>8</sub> -in cable, reel speed 48 fpm at 15 gpm
Hydraulics .....	6042R, 4836R, FG60, and FG48: 3,000 psi, unlimited gpm; 6042Rw, 4836Rw, FG60w, and FG48w: 3,000 psi, 10 to 21 gpm
Other Attachments .....	Implemax also makes models (with/without winches) that attach to skid steers.
Special Uses/Adaptations/Other Uses .....	Works in narrow spaces, grabs from difficult angles, excellent visibility, low capital investment, reduces man hours. Custom attachment bracket for special applications.



Other Machines and Miscellaneous Attachments

Three-Point-Hitch Grapples  
**“Little Red” Logger**



Make/Model .....	“Little Red” Logger
Manufacturer/Source .....	Taylor Machine Works, Inc.
Distributor .....	Contact Taylor Machine Works, Inc.
Price .....	\$5,500
Status .....	In production
Preferred Prime Mover .....	50 to 80-hp tractors
Attachment Mount (lift arms/boom/3-point/other) .....	3-point hitch
Height .....	Data not provided
Weight .....	750 lb
Opening Specifications .....	Fully open grapple is 35 in; fully closed grapple is 3.5 in
Power Source Needed .....	Requires one hydraulic function on tractor and two quick-disconnect hydraulic outlets
Other Attachments .....	“Big Red” Tree Cutter; “Little Red” Logger, Jr. (500 lb)
Special Uses/Adaptations/Other Uses .....	Data not supplied
Manufacturer’s Comments Regarding Equipment Application	Grapple rotates 85 degrees in either direction

Other Machines and Miscellaneous Attachments

General Wood Shear

**LaBounty Mobile Wood Shears, MWS 40 and MWS 80**



Make/Model .....	LaBounty MWS-Series Mobile Wood Shear, MWS 40 and MWS 80
Manufacturer/Source .....	LaBounty
Distributor .....	Contact manufacturer or visit web site for dealer information
Price .....	Contact manufacturer or dealer
Status .....	In production
Preferred Prime Mover .....	MWS 40: 40 to 60,000-lb excavator; MWS 80: 70 to 95,000-lb excavator
Attachment Mount (lift arms/boom/3-point/other) .....	Mounts in place of bucket, at end of stick (arm)
Height .....	Data not supplied
Length .....	Data not supplied
Width .....	See Opening Specifications below
Weight .....	MWS 40 is 3,000 lb; MWS 80 is 5,100 lb
Opening Specifications .....	Jaws: MWS 40: 30 to 40 in; MWS 80: 50 to 60 in
Jaw Depth .....	MWS 40: to 29 in; MWS 80: 41 in
Cutting Mechanism .....	Shears
Power Source Needed .....	Shears pin on in place of excavator bucket, eliminating the need for additional hydraulics
Other Attachments .....	LaBounty makes a full line of attachments
Special Uses/Adaptations/Other Uses .....	Log/wood processing and handling; land clearing
Manufacturer's Comments Regarding Equipment Application .....	Data not supplied