

# Chippers and shredders:

## keys to environmental maintenance

■ The rush by local and state governments to eliminate landscape debris from our landfills makes chippers/shredders an increasingly valuable landscape tool.

Chippers and shredders—from compact homeowner to commercially rugged pull-behind models—allow landscapers and golf course superintendents to re-cycle landscape debris, often on-site. They also offer another add-on service sales opportunity.

Chippers and shredders can provide various grades of re-usable mulch. They're perfect for disposing of tree prunings, broken branches and other landscape debris. While chippers are best for brush, leaves, twigs and stalks.

"Chippers/shredders are like garbage disposals for the yard," says Ray Klubnik of The Tractor Place, North Royalton, Ohio. "In choosing what type of equipment you want, it's all application. You have to ask yourself these questions:

- "How are you going to use it?"
- "How big are the yards?"
- "Are you pruning?"

Three considerations you should take into account before purchasing are capacity, chipping knives and engine size.

Fixed hammers are used in some machines, flail knives in others. Limb capacity can range from 3 bushels for smaller consumer-type models to 28 bushels for larger machines. Engines for smaller units generally begin at 3 hp and progress to 8 hp—then there are industrial size machines with more than 100 hp.

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The Sterling



From BCS, the Bio 100



Salsco's Colt and Stallion



Promark's brush chipper



Vermeer's 620 BC



Troy-Bilt Chipper Vac



PeCo's 20/30 model



The Chip 'N' Mulch, from Ameriquip



The Creary Bearcat

# CHIPPERS/SHREDDERS FOR THE GREEN INDUSTRY

Manufacturer	Model	Features	Manufacturer	Model	Features		
<b>Ameriquip</b> Circle No. 300	250 Chip N Mulch	*2 flywheel knives, adjustable bedknife, 48 flail knives *3" dia. capacity *16 hp Briggs Vanguard engine	<b>Morbark</b>	(cont.)	*4 chipper knives *Patented E-Z principle *several gas, diesel options		
	Model 240	*1-1/2" shaft *16 hp OHV engine		<b>Olathe</b> Circle No. 308	Model 801	*24" hammermill for leaves, brush chipper with 5" dia. capacity *PTO powered *60"-wide hopper *20 reversible steel hammers *30" diameter disc	
<b>Bandit</b> Circle No. 301	Go Bandit	*360-degree swivel discharge *22" dia. chipper cutting wheel *chipper capacity=6" material *Wisconsin 30 hp gas or Perkins 23.5 hp diesel engine	<b>PeCo</b> Circle No. 309	12/24	*360-degree rotating base *24" flywheel *12 hp Kohler engine *two reversible 8" knives *5" intermittent cutting capacity		
	Mighty Bandit (2 models)	*disc-style hydraulic feed chippers *6" dia. capacity *22"/26" chipper cutting wheels 10 engine options (20-30 hp) PTO drive available		20/30	*30" flywheel *20 hp Kohler engine *easily maneuvered		
	Brush Bandit (3 models)	*9" and 12" dia. capacities *chipper openings to 19"x12" *engines start at 37 hp *PTO drive available		<b>Promark</b> Circle No. 310	Model 210	*6" dia. intermittent capacity *24"x24" feed hopper *18 hp Kohler engines *2-10" reversible knives	
	Drum Bandit (2 models)	*12" and 16" dia. capacities *engines 61-119 hp *12"x12" discharge chute		Model 310	*360-degree rotating chipper *limb capacity: 5" dia. *28"x24" feed hopper *10" reversible knives *23 hp Kohler engine		
<b>BCS America</b> Circle No. 302	BIO 80, 100	*5, 8 hp Briggs & Stratton engines *3" limb, 1" brush capacity *27 or 28 reversible hammers	Model 395	*2-10" chipper steel knives *40 hp Yanmar diesel engine *9-1/2" dia. capacity feed opening *360-degree discharge chute			
<b>Crary</b> Circle No. 303	Bear Cat (4 models)	*2 Chip N Vacs with 5 hp Briggs or 8 hp Tecumseh engine *2 Compacts with 1" dia. capacity, 2 hp Briggs engine or electric motor *Mid & Full sizes with 3" dia. capacity, 16 flail knives, 3-8 hp Briggs or Honda engines *Commercial with 30"x30" loading hopper, 72 reversible shredding knives, up to 5" dia. capacity, 14 hp Kohler engine or PTO drive	Model CT-2	*inc. hydraulic dump trailer *23 hp Kohler engine *28"x24" feed hopper *cutting capacity: 6" intermittent *feed hopper, discharge chute both rotate 360 degrees			
		<b>Hodges</b> Circle No. 304	4 models	*3.5, 5, 8 or 16 hp *3 larger models up to 3-1/2" dia. capacity	<b>Salsco</b> Circle No. 311	Commercial	*24" dia. impeller, 6 chipper blades, 64 flail blades *14"x17" infeed opening *odd shapes to 5" dia. capacity
		<b>Ingersoll</b> Circle No. 305	HS24 (2 models)	*HS24W is tow-behind *HS24H has 3-pt. hitch *Hydraulic PTO power *24 steel flail knives *hopper opening 18"x17" *capacity: logs to 3" dia., stalks to 1" dia.	Colt, Chipper Stallion	*3-1/2" dia. capacity *20- or 40-lb. flywheel *12 std. shredder chisels *4 engine options, 5-9 hp	
<b>Little Wonder</b> Circle No. 306	ReVac	*3-1/2" dia. capacity *2 chipping knives, 9 hammer knives, 3 feeder knives *16 hp OHV engine *vacuuming function	<b>Snapper</b> Circle No. 312	3 "SG" models	*consumer-styled *12 or 24 reversible flail hammers *hoppers to 18"x15-1/2" *chipping capacity to 3" dia.		
<b>MacKissic</b> Circle No. 307	SC182 Brute	*4-1/2" dia. capacity for logs, 1-1/2" dia. for prunings, branches *12 or 16 hp Kohler engine *48 flail hammers	<b>Sterling</b> Circle No. 313	3 models	*5, 7.5, 8 hp *up to 3" dia. irregular limbs		
<b>Morbark</b> Circle No. 317	E-Z Chipper Model 20/36	12' dia. chipping capacity *infeed opening 23"x43"	<b>Troy-Bilt</b> Circle No. 314	Tomahawk (4 models)	*consumer-styled *3-8 hp 4-16 steel flail blades *up to 3" dia. limbs, 1" brush capacity *hopper size to 19"x25"		
			Chipper/Vac	*walk-behind consumer-styled (2 models) clean-up machine *4 replaceable blades *4 or 5 hp			

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**Morbark's E-Z chipper 20/36**



**The Little Wonder ReVac**



**WW Grinder's Renegade**



**MacKissic's SC182 Brute**

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Small shredder/shippers will chip branches up to 1-1/2 inches in diameter. A 4 to 8 hp machine will chip up to 3-inch diameter materials. Larger machines handle up to 6-inch logs.

According to Klubnik, you can pay as little as \$548 for the smaller chipper/shredders—or into the thousands of dollars for the heavy duty models. But however much you pay, “you should be able to pay for the machine in the first couple months of use,” Klubnik observes.

No matter what size and style you choose to purchase, make sure your employees are trained in safe use. Most manufacturers offer safety training videos and literature.

—Jerry Roche



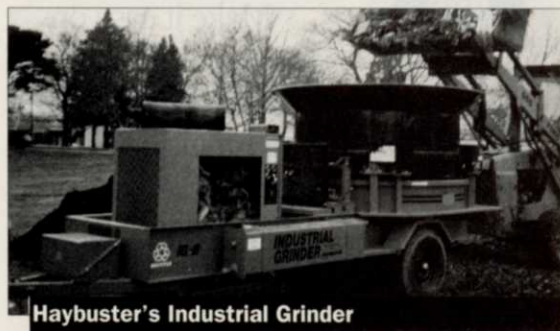
**The Mighty Bandit II**



**Hodges, with four hp options**



**The 818TG from Olathe**



**Haybuster's Industrial Grinder**

**CHIPPER/SHREDDERS FOR THE GREEN INDUSTRY**

Manufacturer	Model	Features
Vermeer Circle No. 315	Models 620, 9354	*6" or 9" dia. capacity *24" or 30" cutting wheel *2 steel knives *infeed opening to 10" x10" *19.25 or 35 hp engine
	Models 1220, 1250	*270-degree swing discharge chute *76 or 99 hp Ford engines *4 steel knives *12"x12" infeed opening *37" or 42" cutting wheel
	Model 1600A	*6" dia. capacity *drum-style chipper *80 or 99 hp engine *12" dia. x 16" wide rotor
WW Grinder Circle No. 316	Chippewa	*consumer-styled *3.5 or 5 hp engine *limbs to 3" dia. capacity
	Renegade	*30"x33" hopper *hardwood limbs to 3" dia. *5 or 8 hp engine
	Super Apache	*PTO-driven *24 steel hammers *3" dia. capacity *two-bladed chipper

Source: March, 1992 LM mail/phone survey